



1 Cityplace Dr, Suite 490
Creve Coeur, MO 63141

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

May 5th, 2022

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

**RE: Notice of Exempt Modification for Verizon
Crown Site ID# 841294; Verizon Site ID# 324390
225 / 230 Guinea Rd Monroe, CT 06468
Latitude: 41° 20 30.68 / Longitude: -73° 16 28.28**

Ms. Bachman:

Verizon currently maintains twelve (12) antennas at the 212-foot mount on the existing 240-foot Self Support Tower located at 230 Guinea Rd Monroe, CT. The property is owned by the Town of Monroe and the Tower by Crown Castle. Verizon now intends to replace three (3) existing 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:

(3) Andrew HBXX-6517DS-A2M Antennas (**REMOVE**) – (3) Samsung MT6407-77A Antennas (**REPLACE**)

(3) Nokia UHBA B13 RRH 4X30 Radios (**REMOVE**) - (3) Samsung B5/B13 RRH-BR04C Radios (**REPLACE**)

(3) Nokia UHIC B4 RRH 2X60-4R Radios (**REMOVE**) - (3) Samsung B2/B66A RRH-BR049 Radios (**REPLACE**)

(1) (1) RFS-DB-B1-6C-12AB-OZ OVP (**REMOVE**) – (1) Raycap RVZDC-6627-PF-48 OVP (**REPLACE**)

Install New:

(1) Hybrid cable 12x24



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Remove:

(1) Hybrid cable 1 5/8"

Ground:

Install New:

(1) RFS 12-OVP

Remove:

(3) Nokia RRH

(1) 6-OVP

The facility was approved by the Connecticut Siting Council by way of a Certificate of Environmental Compatibility on January 16, 1990.

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 Ken Kellogg, First Selectman Town of Monroe and Rick Schultz, Town Planner for the Town of Monroe. 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 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).



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Creve Coeur, MO 63141

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

Sincerely,

Colin Robinson

Colin Robinson
Project Manager
NETWORK BUILDING + CONSULTING
100 Apollo Drive Suite 303
Chelmsford, MA 01824
crobenson@nbcllc.com
(360) 561-3311

cc:

Ken Kellogg, First Selectman (*Via Federal Express*)
MONROE TOWN HALL OFFICES
7 Fan Hill Road
Monroe, Connecticut 06468
(203) 452-2800

Rick Schultz, Town Planner (*Via Federal Express*)
MONROE TOWN HALL OFFICES
7 Fan Hill Road
Monroe, Connecticut 06468
(203) 452-2800

Crown Castle, Tower Owner

Colin Robinson

From: TrackingUpdates@fedex.com
Sent: Friday, May 6, 2022 10:24 AM
To: Colin Robinson
Subject: FedEx Shipment 776773619849: Your package has been delivered



Hi. Your package was
delivered Fri, 05/06/2022 at
10:23am.



Delivered to 7 FAN HILL RD, MONROE, CT 06468
Received by E.SENENKO

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER [776773619849](#)

FROM NB+C
100 Apollo Dr.
Suite 303
CHELMSFORD, MA, US, 01824

TO MONROE TOWN HALL OFFICES
Ken Kellogg, First Selectman

7 Fan Hill Road
MONROE, CT, US, 06468

REFERENCE	100788 NB+C
SHIPPER REFERENCE	100788 NB+C
SHIP DATE	Thu 5/05/2022 06:34 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	MONROE, CT, US, 06468
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight



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- **Download now.**



Colin Robinson

From: TrackingUpdates@fedex.com
Sent: Friday, May 6, 2022 10:24 AM
To: Colin Robinson
Subject: FedEx Shipment 776773621779: Your package has been delivered



Hi. Your package was
delivered Fri, 05/06/2022 at
10:22am.



Delivered to 7 FAN HILL RD, MONROE, CT 06468
Received by S.WATERS

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER [776773621779](#)

FROM NB+C
100 Apollo Dr.
Suite 303
CHELMSFORD, MA, US, 01824

TO MONROE TOWN HALL OFFICES
Rick Schultz, Town Planner

7 Fan Hill Road
MONROE, CT, US, 06468

REFERENCE	100788 NB+C
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Exhibit A

Original Facility Approval

DOCKET NO. 114 - An application : Connecticut
of SNET Cellular, Inc., for a :
Certificate of Environmental : Siting
Compatibility and Public Need :
for a cellular telephone tower : Council
and associated equipment in the :
Town of Monroe, Connecticut. : January 16, 1990

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council finds that the effects associated with the construction, operation, and maintenance of a cellular telephone facility at the proposed Monroe site, 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 significant either alone or cumulatively with other effects, 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 General Statutes of Connecticut (CGS), be issued to SNET Cellular, Inc. (SNET), for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed site in Monroe, Connecticut.

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

1. All SNET cellular antennas shall extend no higher than 252 feet above ground level (AGL). If the Town of Monroe and SNET reach an agreement to place the Town of Monroe's antennas for public radio station WMNR on the tower, then the tower shall be no higher than 260 feet AGL for the attachment of such town antennas; otherwise the tower shall be no higher than 240 feet AGL. Prior to the raising of the tower from 240 feet AGL to 260 feet AGL, notice of such sharing and raising of the tower shall be provided to the Council.
2. The facility shall be constructed in accordance with the State of Connecticut Basic Building Code.
3. 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 State Agencies. The D&M plan shall include detailed plans for site preparation including a profile and cross-section of the proposed access road, placement of the proposed tower and equipment building within the leased parcel, and erosion and sedimentation control.

4. The Certificate Holder shall comply with any future radio frequency (RF) standard, promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted in this Decision and Order shall be brought into compliance with such standards.
5. The Certificate Holder or its successor shall provide the Council a recalculated report of power density if and when additional channels over the proposed 45 channels, higher wattage over the proposed 100 watts per channel, or other circumstances in operation cause a change in power density above the levels originally calculated in the application.
6. The Certificate Holder or its successor shall permit public or private entities to share space on the proposed Monroe tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
7. If this facility does not initially provide, or permanently ceases to provide cellular service following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.
8. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the issuance of this Decision and Order, or within three years after the completion of any appeal from this Decision and Order.

Pursuant to 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. A notice of issuance shall be published in the Bridgeport Post and the Monroe Courier.

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

The parties or intervenors to this proceeding are:

SNET Cellular, Inc. (Applicant)
227 Church Street
New Haven, CT 06506

Peter J. Tyrrell (Its Representative)
SNET Cellular, Inc.
Room 1021
227 Church Street
New Haven, CT 06506

Metro Mobile CTS of (Intervenor)
Fairfield County, Inc.

Micheal W. Riley (Its Representatives)
Vice-President North East Region
Metro Mobile CTS, Inc.
110 East 59th Street
New York, New York 10022

Philip Mayberry, General Manager
David S. Malko
Metro Mobile CTS of
Fairfield County, Inc.
50 Rockland Road
South Norwalk, Connecticut 06854

Paul M. Hancock, General Partner (Party)
Housatonic Cable Vision Company
2 East Street
P.O. Box 1540
New Milford, Connecticut 06766

Howard L. Slater, Esq. (Its Representative)
Bryne, Slater, Sandler,
Shulman, & Rouse, P.C.
330 Main Street
P.O. Box 3216
Hartford, Connecticut 06103
Attn: Jennifer Young Gaudet, Esq.

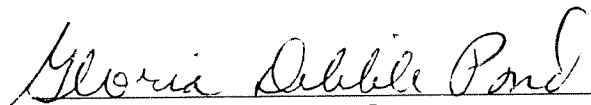
CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket 114 or read the record thereof, and that we voted as follows:


Dated at New Britain, Connecticut the 16 day of January, 1990.

Council Members


Vote Cast


Gloria Dibble Pond
Chairperson

Yes


Commissioner Peter Boucher
Designee: Robert A. Pulito

Yes


Commissioner Leslie Carothers
Designee: Brian Emerick

Yes


Harry E. Covey

Yes


Mortimer A. Gelston

Yes

Daniel P. Lynch, Jr.

Absent

Paulann H. Sheets

Absent

William H. Smith

Absent

Colin C. Tait

Absent

Exhibit B

Property Card

230 GUINEA RD

Location 230 GUINEA RD

Map/Lot 081/ 008/ 00/ /

Acct# 08100800

Owner MONROE TOWN OF (OPEN SPACE)

Assessment \$16,400

Appraisal \$23,400

PID 11950

Building Count 1

Survey 1814 C

Affordable

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2019	\$0	\$23,400	\$23,400

Assessment			
Valuation Year	Improvements	Land	Total
2019	\$0	\$16,400	\$16,400

Owner of Record

Owner MONROE TOWN OF (OPEN SPACE)
Co-Owner
Address 7 FAN HILL RD
 MONROE, CT 06468-1800

Sale Price \$0
Certificate 1
Book & Page 297/ 119
Sale Date 10/30/1985

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
MONROE TOWN OF (OPEN SPACE)	\$0	1	297/ 119	10/30/1985

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Building Attributes	
Field	Description

Style	Vacant Land
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:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Fireplaces	
Wdstv Flues	
Basement Gar.	
Attic	
Basement	
In Law Apt	

Building Photo



(<https://images.vgsi.com/photos/MonroeCTPhotos/default.jpg>)

Building Layout

(https://images.vgsi.com/photos/MonroeCTPhotos/Sketches/11950_11950)

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

Extra Features

Extra Features	Legend
No Data for Extra Features	

Parcel Information

Use Code 903
Description Municipal
Deeded Acres 3.02

Land

Land**Land Use**

Use Code 903
Description Municipal
Zone RF2
Neighborhood Stepney
Alt Land Approved No
Category

Land Line Valuation

Size (Acres) 3.02
Appraised Value \$23,400

Outbuildings

Outbuildings	<u>Legend</u>
No Data for Outbuildings	

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$0	\$24,200	\$24,200

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$0	\$16,900	\$16,900

Exhibit C

Construction Drawings



VERIZON SITE NUMBER: 324390
VERIZON SITE NAME: MONROE CT
SITE TYPE: SELF SUPPORT TOWER
TOWER HEIGHT: 240'-0"

BUSINESS UNIT #: 841294
SITE ADDRESS: 226 GUINEA ROAD
 MONROE, CT 06468
COUNTY: FAIRFIELD
JURISDICTION: TOWN OF MONROE

VERIZON 5G L-SUB6-CARRIER ADD

verizon
 20 ALEXANDER DRIVE, 2ND FLOOR
 WALLINGFORD, CT 06492

CROWN CASTLE
 1200 MACARTHUR BLVD, SUITE 200
 MAHWAH, NJ 07430

ENGINEERED TOWER SOLUTIONS
 3227 WELLINGTON COURT
 RALEIGH, NC 27615
 919-782-2710
 www.engineeredtowersolutions.com

VERIZON SITE NUMBER:
 324390
BU #: 841294
MONROE-GUINEA ROAD
 226 GUINEA ROAD
 MONROE, CT 06468
 EXISTING 240'-0" SELF
 SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/01/2021	CP	CONSTRUCTION	DG
1	02/08/2022	AO	CLIENT COMMENTS	DG
2	02/16/2022	CP	REVISED SCOPE	DG

SITE INFORMATION

CROWN CASTLE USA INC. MONROE-GUINEA ROAD
SITE NAME:
SITE ADDRESS: 226 GUINEA ROAD
 MONROE, CT 06468
COUNTY: FAIRFIELD
MAP/PARCEL #: 080 013 00
AREA OF CONSTRUCTION: EXISTING
LATITUDE: 41° 20' 30.6816"
LONGITUDE: -73° 16' 28.2792"
LAT/LONG TYPE: NAD83
GROUND ELEVATION: 583.4 FT
CURRENT ZONING: RF2
JURISDICTION: TOWN OF MONROE
OCCUPANCY CLASSIFICATION: U
TYPE OF CONSTRUCTION: IIB
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER: SOUTHWESTERN BELL MOBILE SYSTEMS LLC
TOWER OWNER: CROWN CASTLE
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317
CARRIER/APPLICANT: VERIZON WIRELESS
 20 ALEXANDER DRIVE, 2ND FLOOR
 WALLINGFORD, CT 06492
ELECTRIC PROVIDER: CONNECTICUT LIGHT & POWER
TELCO PROVIDER: AT&T

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 11X17. 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

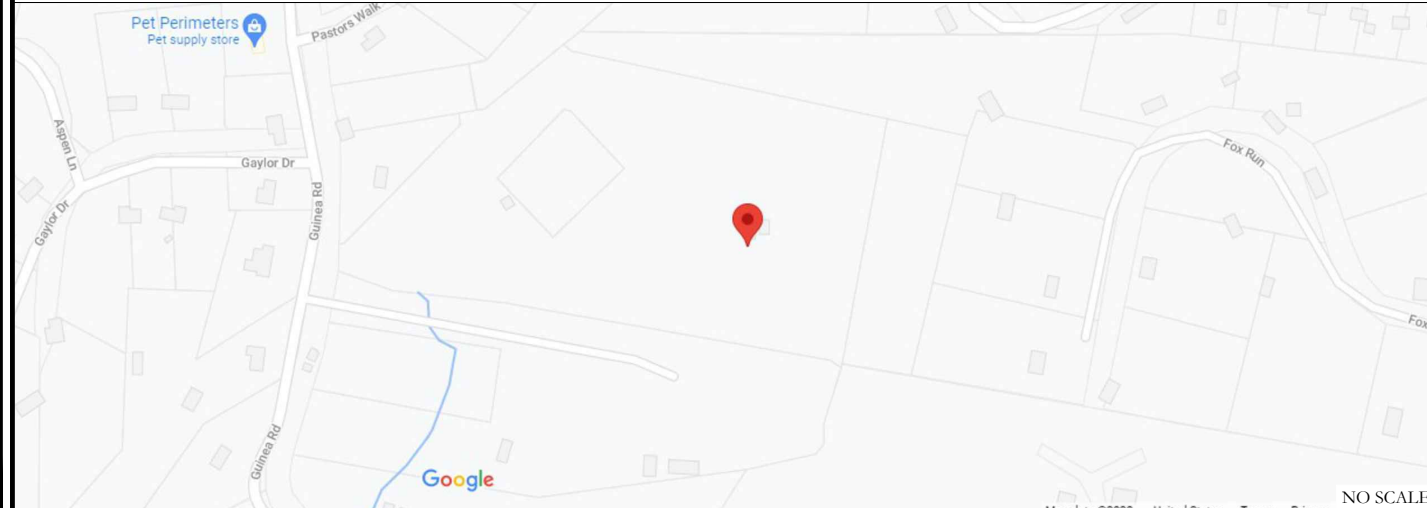
PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR	
PROJECT NUMBER	10121058
VzW LOCATION CODE (PSLC)	467875
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT	

MOUNT MODIFICATION REQUIRED N

VzW APPROVED SMART KIT VENDORS

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

LOCATION MAP



DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (20 ALEXANDER DRIVE, WALLINGFORD, CT 06492): HEAD SOUTH TOWARD ALEXANDER DR, SLIGHT RIGHT TOWARD ALEXANDER DR, TURN RIGHT TOWARD ALEXANDER DR, TURN RIGHT ONTO ALEXANDER DR, TURN RIGHT ONTO BARNES INDUSTRIAL PARK RD, TURN LEFT AT THE 1ST CROSS STREET ONTO CT-68 W, TURN RIGHT, TURN RIGHT ONTO US-5 N/N COLONY RD, TURN LEFT TO MERGE ONTO CT-15 S TOWARD NEW HAVEN, TAKE EXIT 49 TO MERGE ONTO CT-25 N TOWARD DANBURY, TURN LEFT ONTO CT-59 S, TURN RIGHT ONTO HATTERTOWN RD, TURN RIGHT ONTO GUINEA RD, TURN RIGHT, FOLLOW ACCESS ROAD TO 226 GUINEA ROAD, MONROE, CT 06468

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:	BY OTHERS
DATED:	
MOUNT ANALYSIS:	MASER CONSULTING CONNECTICUT
DATED:	12/10/2021
RFDS REVISION:	1
DATED:	10/06/2021
ORDER ID:	585538
REVISION:	1

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 (3) ANTENNAS
- REMOVE (6) RRHS
- REMOVE (6) DIPLEXERS
- REMOVE (1) OVP
- REMOVE (1) HYBRID CABLE (1-5/8")
- INSTALL (3) ANTENNAS
- INSTALL (6) RRHS
- INSTALL (1) OVP
- INSTALL (1) HYBRID CABLE

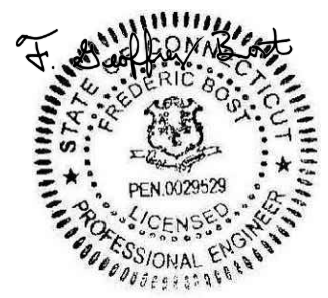
GROUND SCOPE OF WORK:

- REMOVE (3) RRHS
- REMOVE (1) OVP
- INSTALL (1) OVP

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

PROJECT TEAM

A&E FIRM: CROWN CASTLE USA INC.
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317
 CROWN.AE.APPROVAL@CROWNCastle.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS: 1200 MACARTHUR BLVD, SUITE 200
 MAHWAH, NJ 07430
 WILLIAMS GATES - PROJECT MANAGER
 WILLIAM.GATES@CROWNCastle.COM
VERIZON CONTACT: ANDREW LEONE
 ALEONE@STRUCTURECONSULTING.NET



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

SHEET NUMBER: T-1
REVISION: 2

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.
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.
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...

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-POTENTIAL 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 GROUND AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

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.
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.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
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.

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.
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).
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185.
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
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.

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.
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).
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 SIZES WHEN FITTING 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 SPECIMATE WIREWAY).
22. SLOTTED WIRING TRAY SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL). 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.
23. CONDUITS SHALL BE DIRECTED 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 EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL.
24. 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.
25. 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.
26. 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.
27. 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.
28. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
29. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

Table with 3 columns: SYSTEM, CONDUCTOR, COLOR. Rows include 120/240V, 10; 120/208V, 30; 277/480V, 30; DC VOLTAGE.

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

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

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
RETS 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



20 ALEXANDER DRIVE, 2ND FLOOR WASHINGTON, CT 06492



1200 MACARTHUR BLVD, SUITE 200 MAHWAH, NJ 07430



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VERIZON SITE NUMBER: 324390

BU #: 841294 MONROE-GUINEA ROAD

226 GUINEA ROAD MONROE, CT 06468

EXISTING 240'-0" SELF SUPPORT TOWER

ISSUED FOR:

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Rows show revision history for construction and scope revisions.



02/16/2022

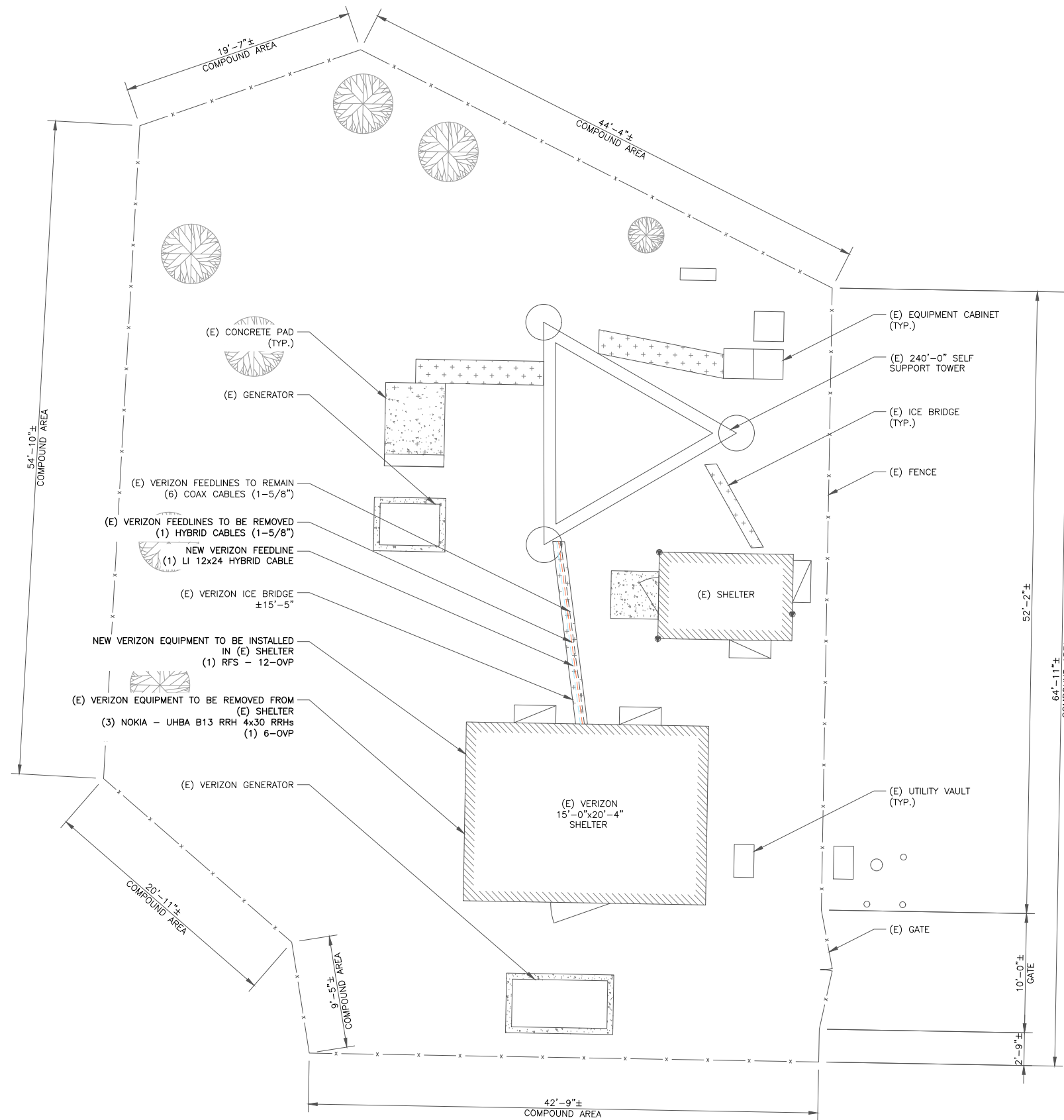
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SHEET NUMBER:

T-2

REVISION:

2



1 SITE PLAN
 SCALE: 3/16"=1'-0" (FULL SIZE)
 3/32"=1'-0" (11x17)



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VERIZON SITE NUMBER:
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BU #: 841294
 MONROE-GUINEA ROAD

226 GUINEA ROAD
 MONROE, CT 06468

EXISTING 240'-0" SELF
 SUPPORT TOWER

ISSUED FOR:

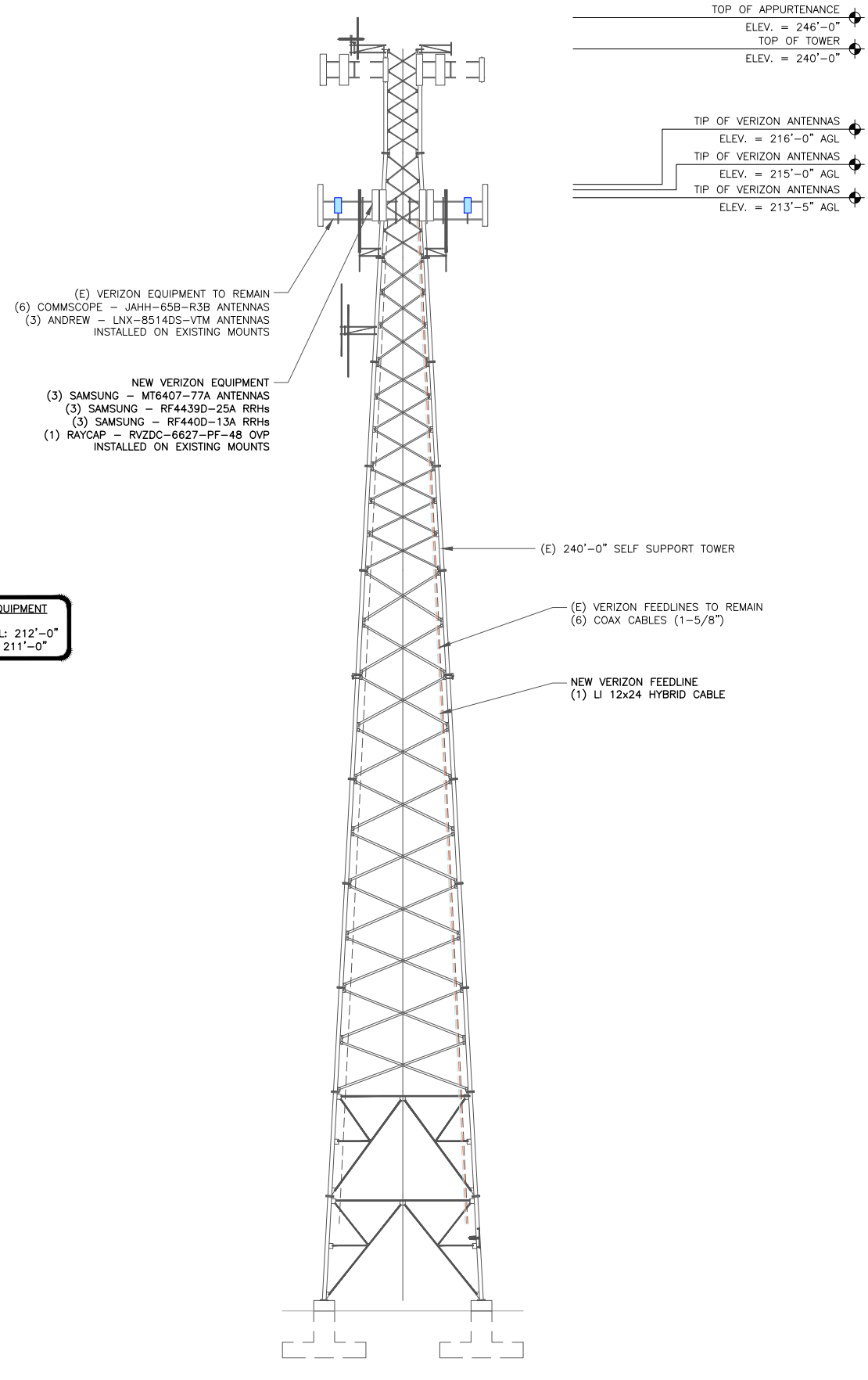
REV	DATE	DRWN	DESCRIPTION	DES/QA
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1	02/08/2022	AO	CLIENT COMMENTS	DG
2	02/16/2022	CP	REVISED SCOPE	DG



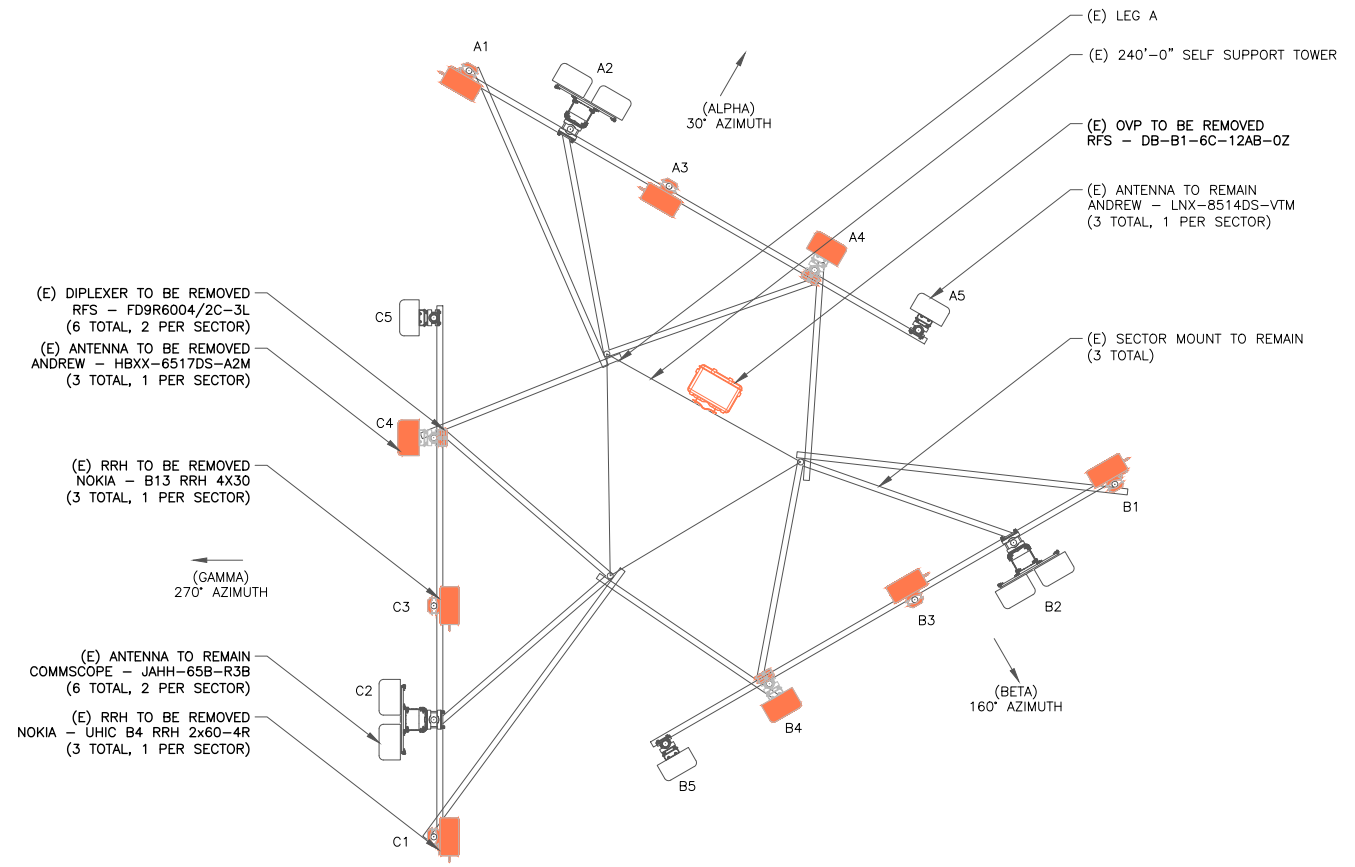
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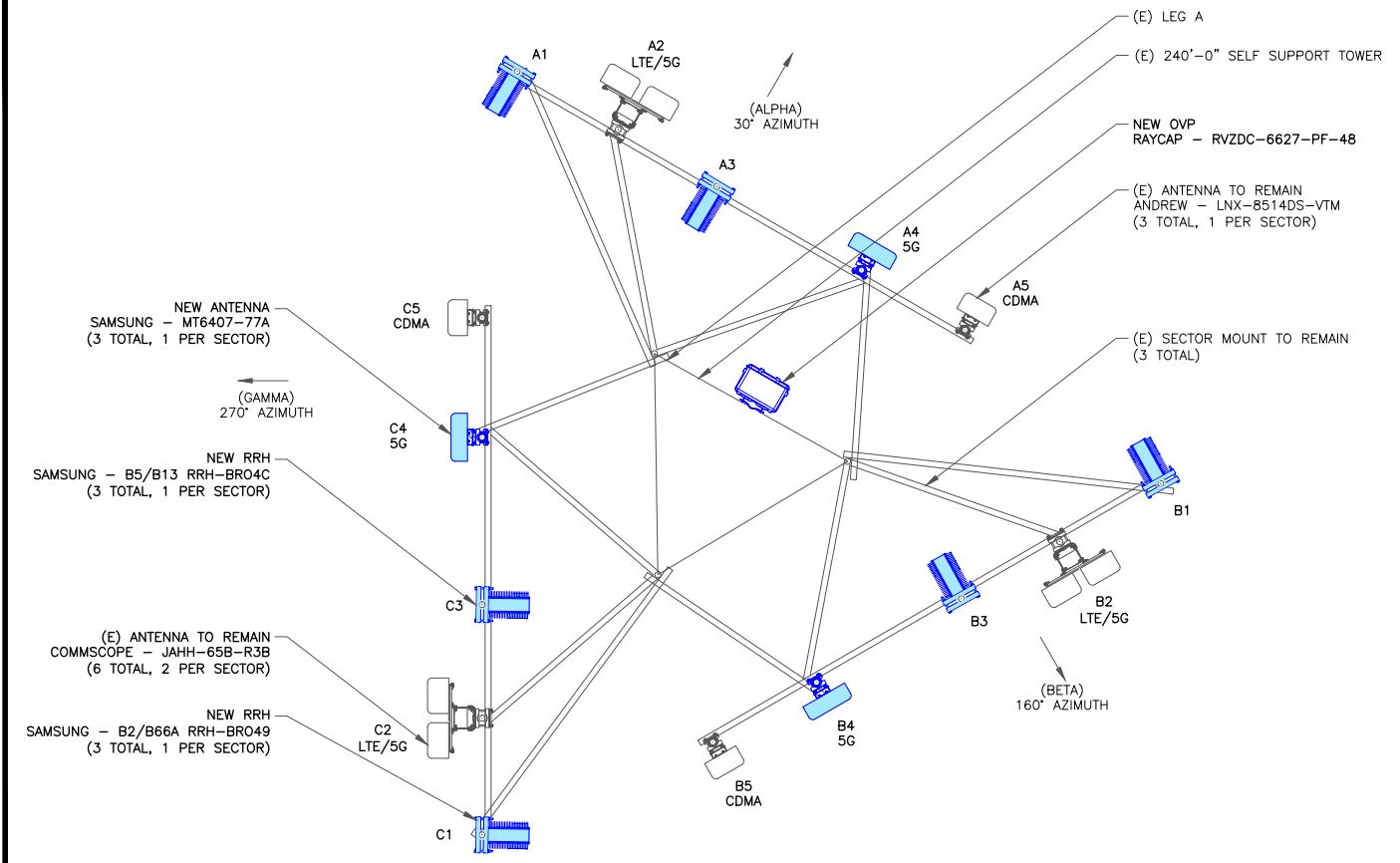
SHEET NUMBER: **C-1** REVISION: **2**



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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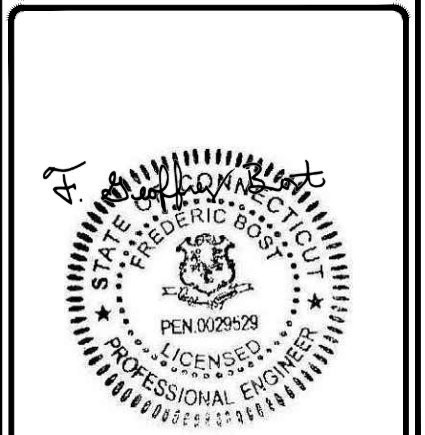
BU #: 841294
MONROE-GUINEA ROAD

226 GUINEA ROAD
 MONROE, CT 06468

EXISTING 240'-0" SELF
 SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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1	02/08/2022	AO	CLIENT COMMENTS	DG
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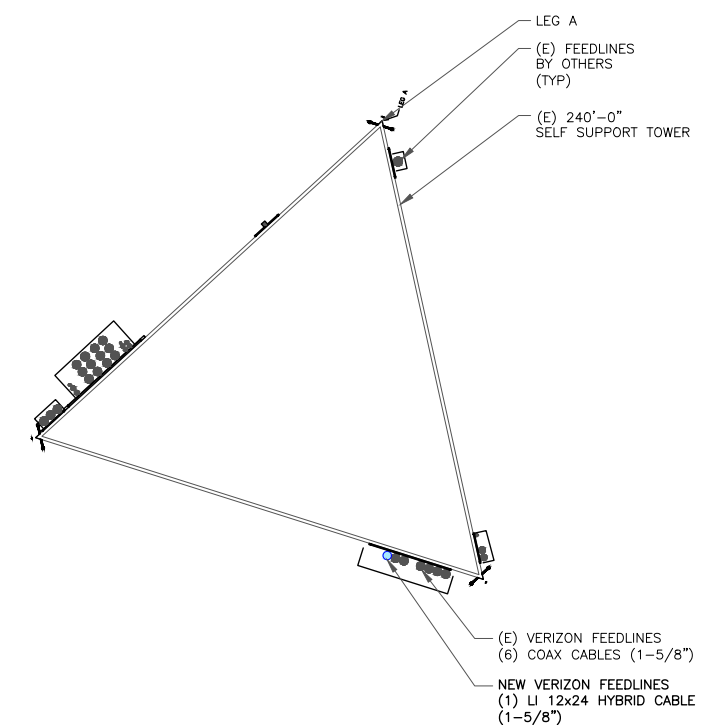
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	--	--	--	--	--	--	--	SAMSUNG	(1) B2/B66A RRH-BR049 (RF4439D-25A)
A2	EXISTING	COMMSCOPE	JAHH-65B-R3B	212'-0"	30°	0°	2'/2'/2'/2'	--	--
	EXISTING	COMMSCOPE	JAHH-65B-R3B	212'-0"	30°	0°	2'/2'/2'/2'	--	--
A3	--	--	--	--	--	--	--	SAMSUNG	(1) B5/B13 RRH-BR04C (RF4440D-13A)
A4	NEW	SAMSUNG	MT6407-77A	212'-0"	30°	0°	6'	--	--
A5	EXISTING	ANDREW	LNx-8514DS-VTM	212'-0"	30°	--	4'	RAYCAP	(1) RVZDC-6627-PF-48
B1	--	--	--	--	--	--	--	SAMSUNG	(1) B2/B66A RRH-BR049 (RF4439D-25A)
B2	EXISTING	COMMSCOPE	JAHH-65B-R3B	212'-0"	160°	0°	2'/2'/2'/2'	--	--
	EXISTING	COMMSCOPE	JAHH-65B-R3B	212'-0"	160°	0°	2'/2'/2'/2'	--	--
B3	--	--	--	--	--	--	--	SAMSUNG	(1) B5/B13 RRH-BR04C (RF4440D-13A)
B4	NEW	SAMSUNG	MT6407-77A	212'-0"	160°	0°	6'	--	--
B5	EXISTING	ANDREW	LNx-8514DS-VTM	212'-0"	160°	--	4'	--	--
C1	--	--	--	--	--	--	--	SAMSUNG	(1) B2/B66A RRH-BR049 (RF4439D-25A)
C2	EXISTING	COMMSCOPE	JAHH-65B-R3B	212'-0"	270°	0°	2'/2'/2'/2'	--	--
	EXISTING	COMMSCOPE	JAHH-65B-R3B	212'-0"	270°	0°	2'/2'/2'/2'	--	--
C3	--	--	--	--	--	--	--	SAMSUNG	(1) B5/B13 RRH-BR04C (RF4440D-13A)
C4	NEW	SAMSUNG	MT6407-77A	212'-0"	270°	0°	6'	--	--
C5	EXISTING	ANDREW	LNx-8514DS-VTM	212'-0"	270°	--	4'	--	--

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	268'-0"±	6
NEW	HYBRID	1-5/8"	268'-0"±	1
TOTAL CABLE QTY:				7



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE



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VERIZON SITE NUMBER:
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BU #: 841294
MONROE-GUINEA ROAD

226 GUINEA ROAD
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EXISTING 240'-0" SELF
SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
0	10/01/2021	CP	CONSTRUCTION	DG
1	02/08/2022	AO	CLIENT COMMENTS	DG
2	02/16/2022	CP	REVISED SCOPE	DG



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C-3

REVISION:
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CASTLE**

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VERIZON SITE NUMBER:
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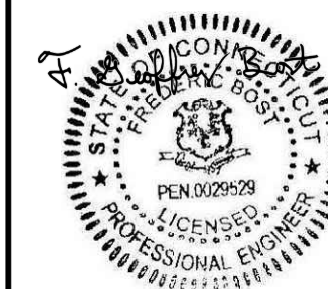
BU #: 841294
MONROE-GUINEA ROAD

226 GUINEA ROAD
MONROE, CT 06468

EXISTING 240'-0" SELF
SUPPORT TOWER

ISSUED FOR:

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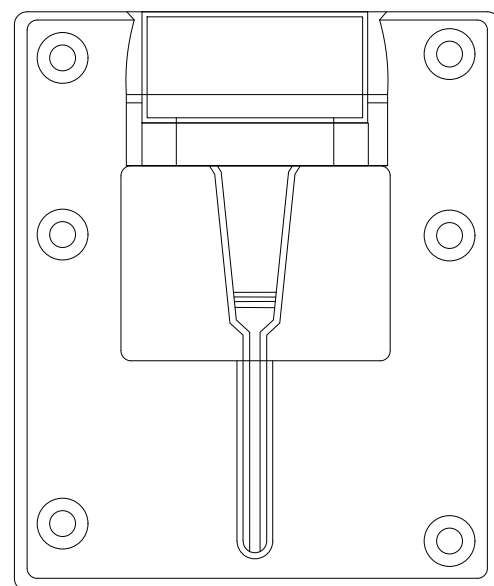
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C-4

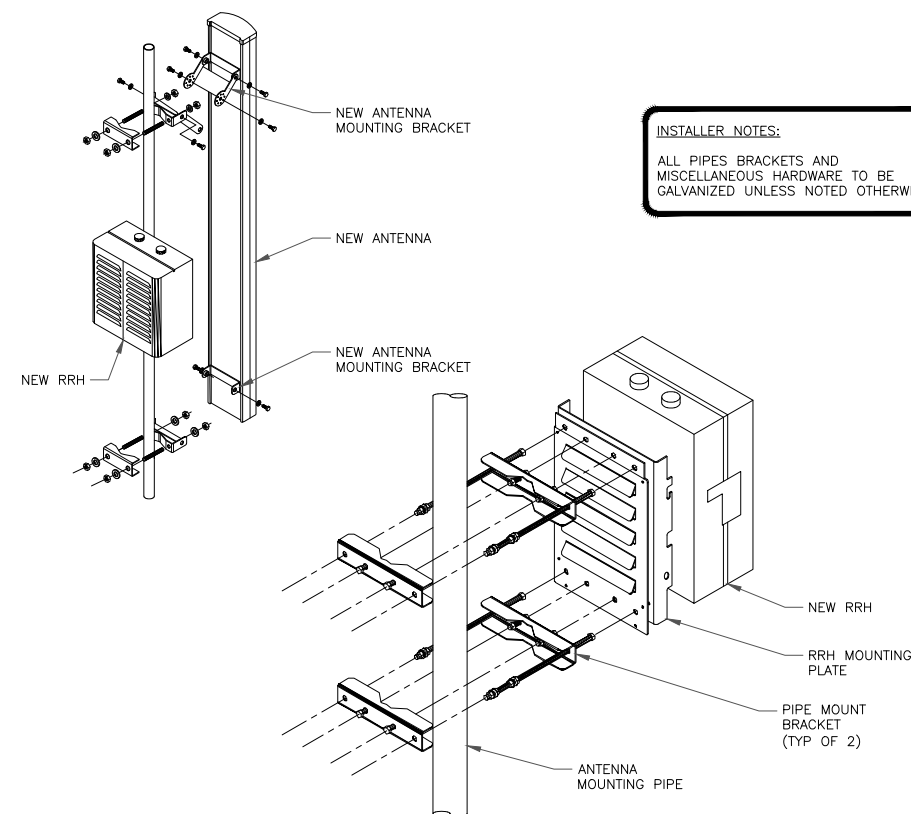
REVISION:
2

1 NOT USED
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE

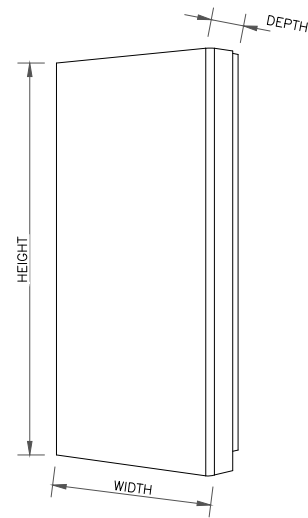


3 SAMSUNG - EP97-01585A BRACKET DETAIL
SCALE: NOT TO SCALE



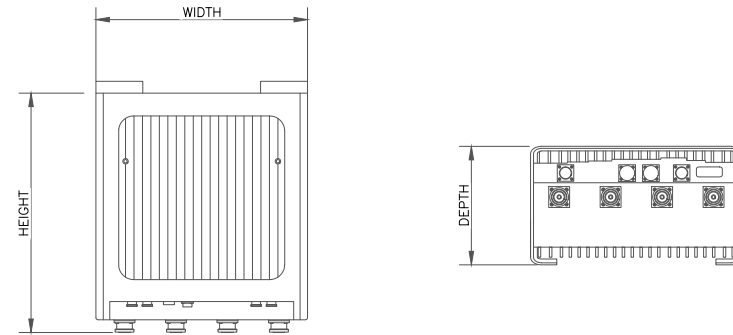
4 ANTENNA & RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

HEIGHT	WIDTH	DEPTH	WEIGHT
35.06"	16.06"	5.51"	81.57 LBS



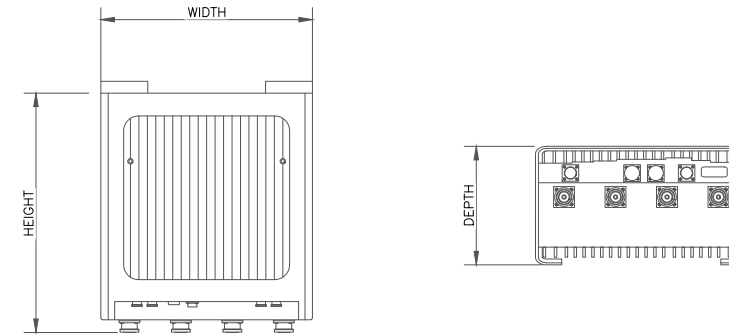
1 SAMSUNG - MT6407-77A
SCALE: NOT TO SCALE

HEIGHT	WIDTH	DEPTH	WEIGHT
15.00"	15.00"	10.00"	84.40 LBS



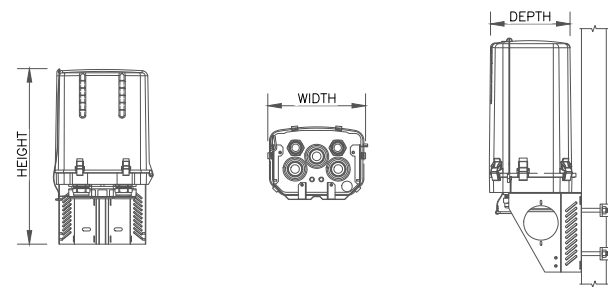
2 SAMSUNG - B2/B66A RRH-BR049
SCALE: NOT TO SCALE

HEIGHT	WIDTH	DEPTH	WEIGHT
15.00"	15.00"	8.10"	70.30 LBS



3 SAMSUNG - B5/B13 RRH-BR04C
SCALE: NOT TO SCALE

HEIGHT	WIDTH	DEPTH	WEIGHT
29.50"	16.50"	12.60"	32.00 LBS



4 RAYCAP - RVZDC-6627-PF-48
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
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BU #: 841294
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EXISTING 240'-0" SELF
SUPPORT TOWER

ISSUED FOR:

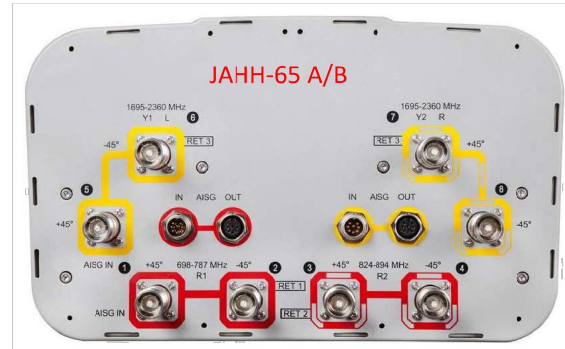
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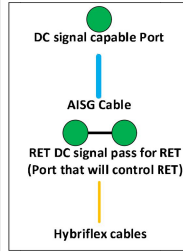
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Sector Design

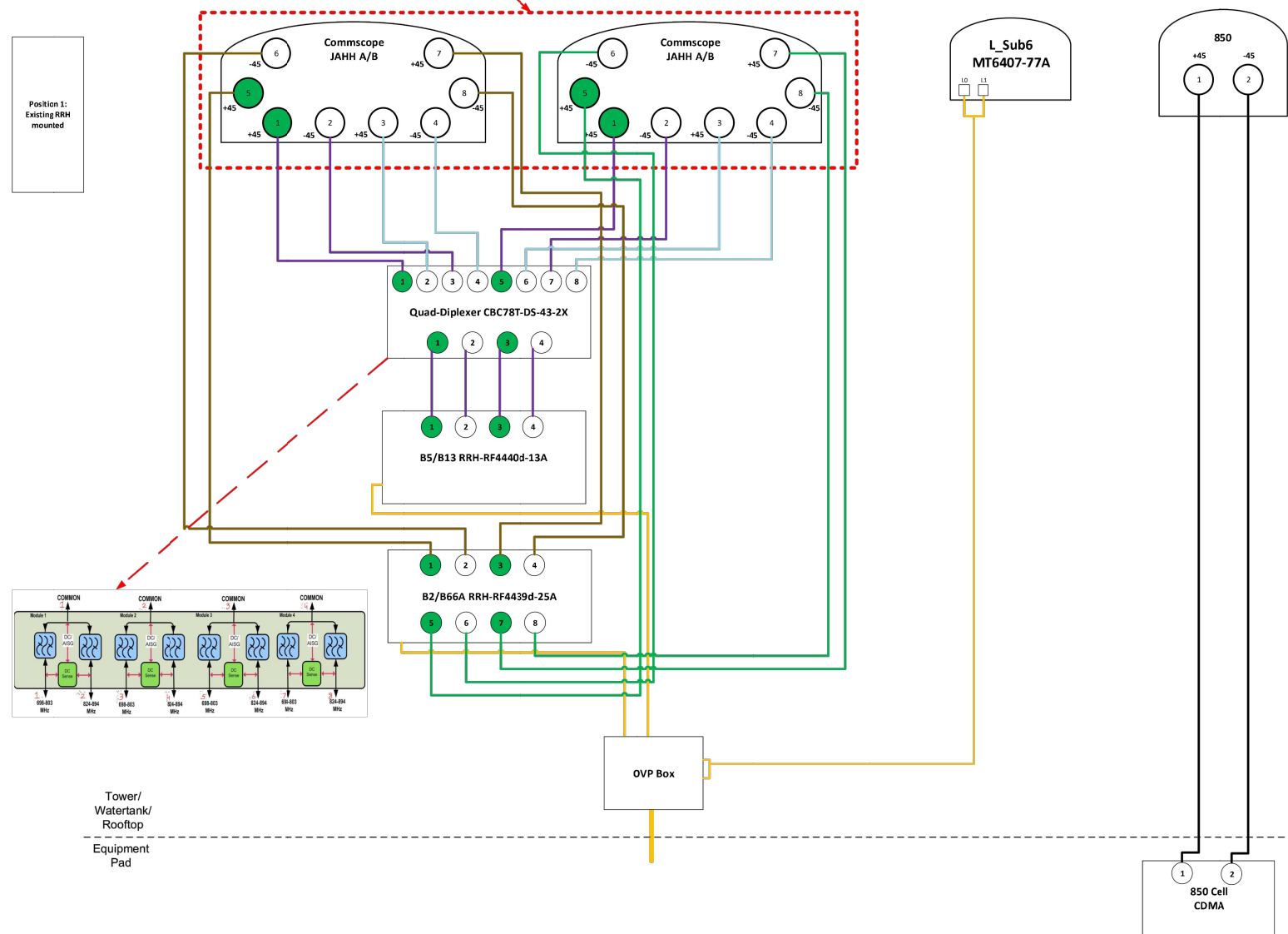


- Port 1 & 2 are for low band (698-787 MHz).
- Port 3 & 4 are for low band (824-894 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Antenna Smart Bias Tee (SBT) is through port 1 for low band and port 5 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.



Comments:
 Diagram shows configuration as viewed from standing behind the antennas.
 Antennas will be installed in that order from left to right.
 Antenna position: 1,2,3,4.
 Cap and weatherproof unused antenna ports.
 All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)

2" Side By Side Mount



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VERIZON SITE NUMBER:
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MONROE-GUINEA ROAD
 226 GUINEA ROAD
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 EXISTING 240'-0" SELF SUPPORT TOWER

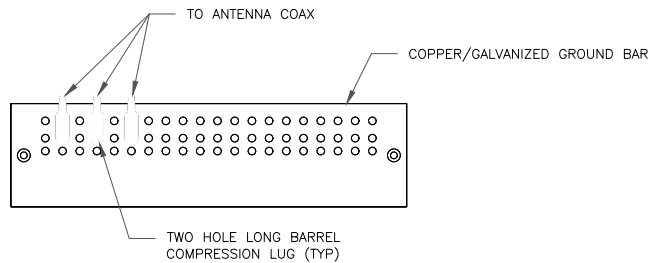
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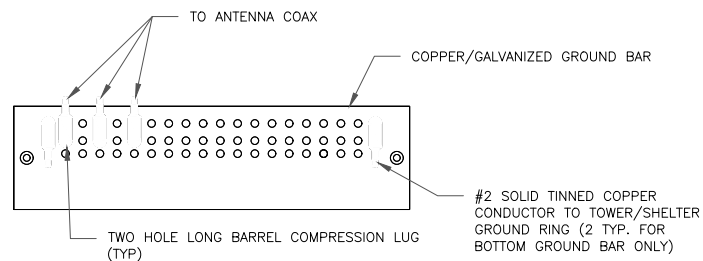
SHEET NUMBER: **C-6** REVISION: **2**



NOTES:

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

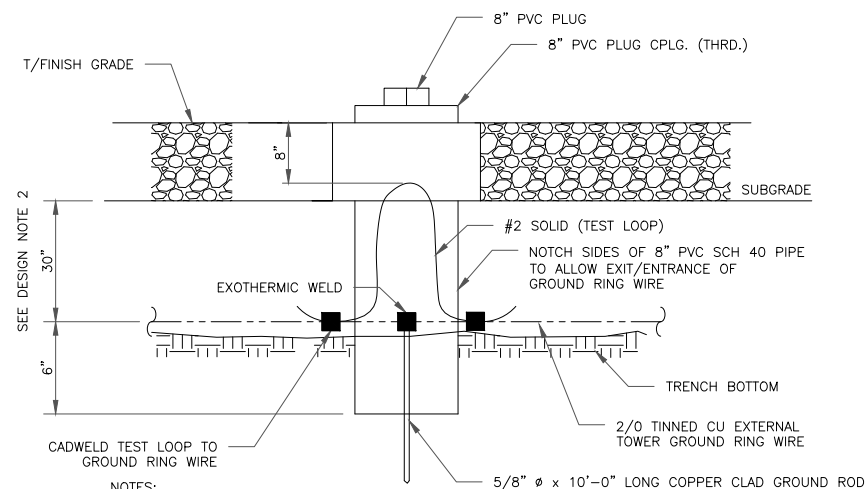
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

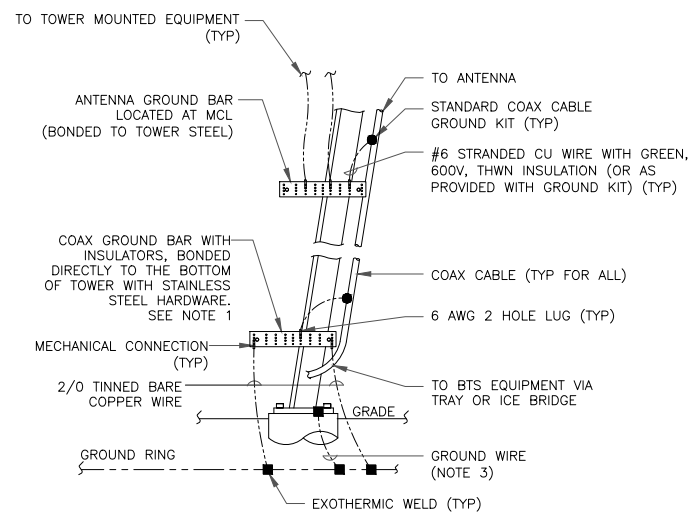
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- 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)

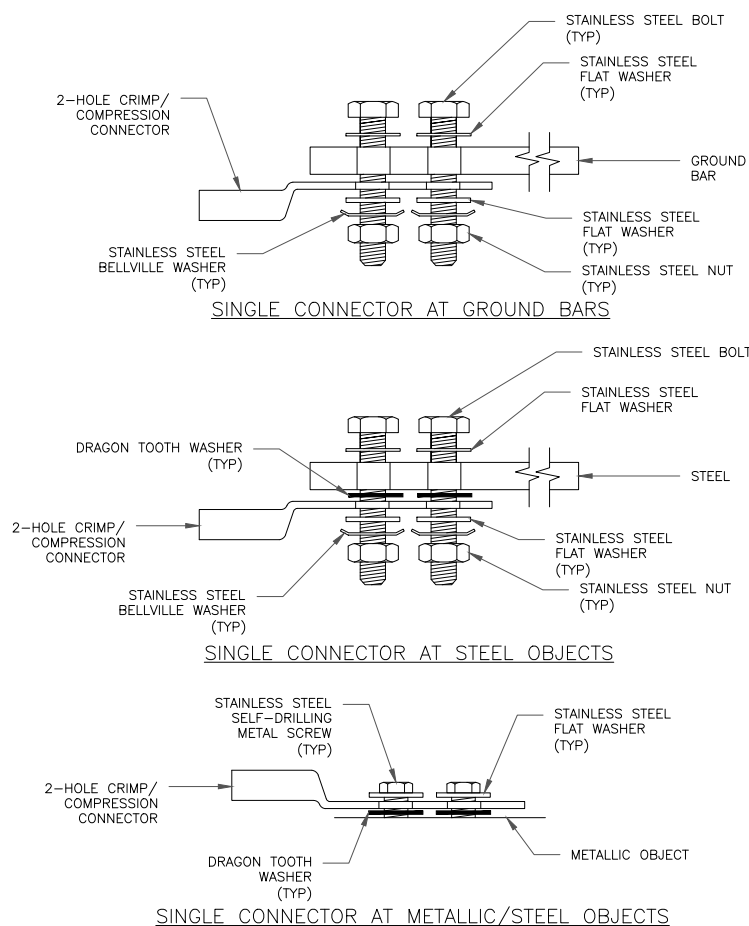
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



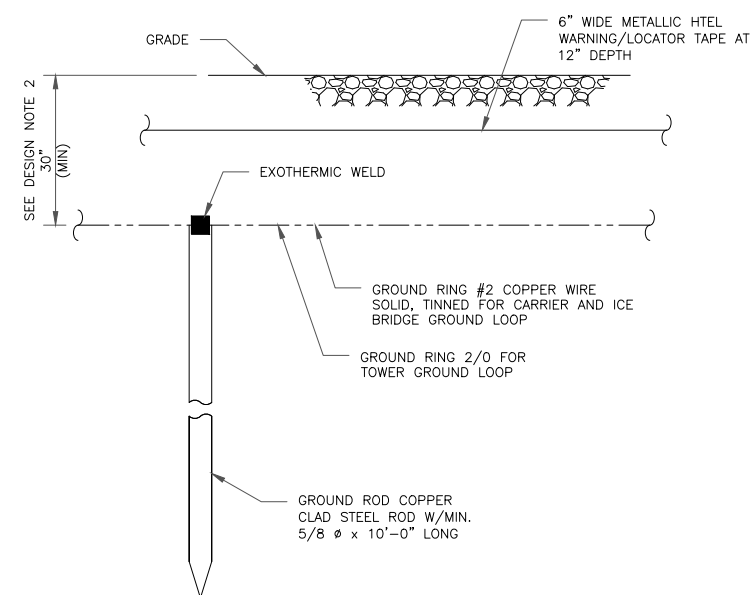
NOTES:

- 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.
- 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.
- 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:

- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- 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

verizon

20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492

CROWN CASTLE

1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

ENGINEERED TOWER SOLUTIONS

3227 WELLINGTON COURT
RALEIGH, NC 27615
919-782-2710
www.engineeredtowersolutions.com

VERIZON SITE NUMBER:
324390

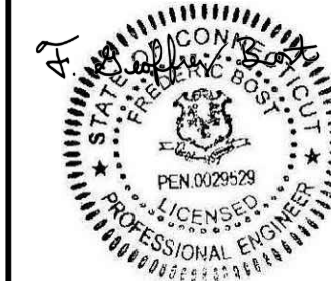
BU #: 841294
MONROE-GUINEA ROAD

226 GUINEA ROAD
MONROE, CT 06468

EXISTING 240'-0" SELF
SUPPORT TOWER

ISSUED FOR:

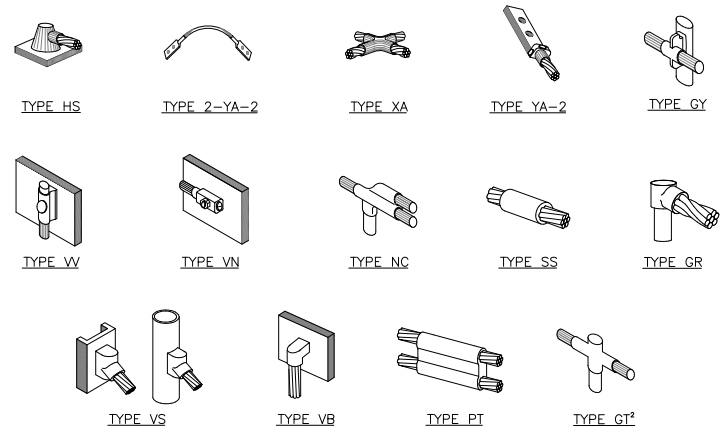
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0	10/01/2021	CP	CONSTRUCTION	DG
1	02/08/2022	AO	CLIENT COMMENTS	DG
2	02/16/2022	CP	REVISED SCOPE	DG



02/16/2022

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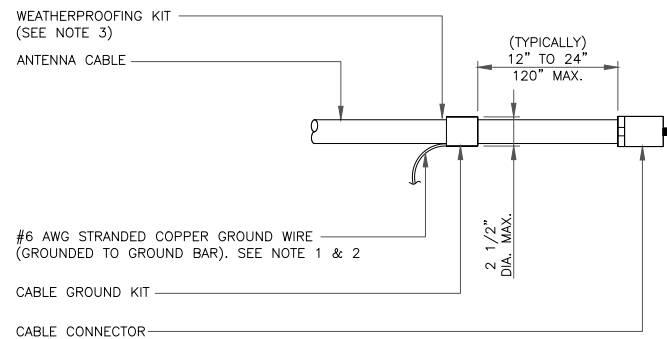
SHEET NUMBER: **G-1** REVISION: **2**



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.

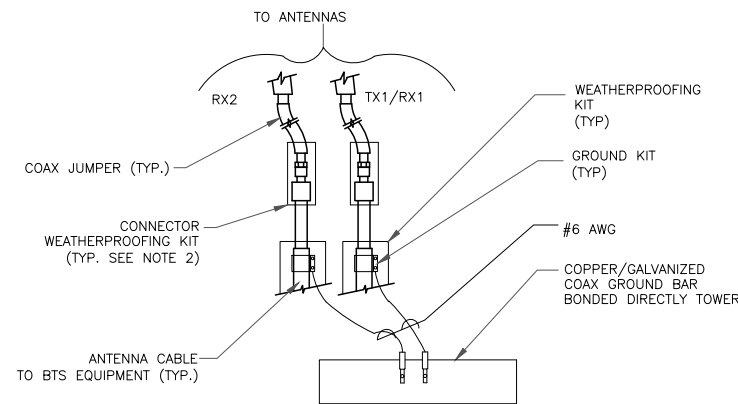
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



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.

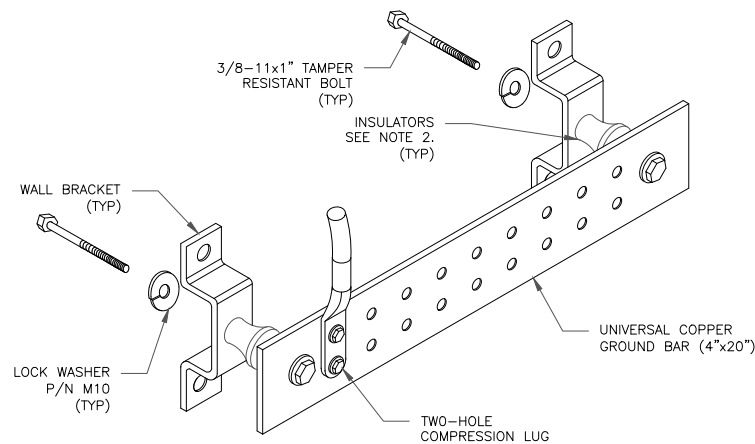
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



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.

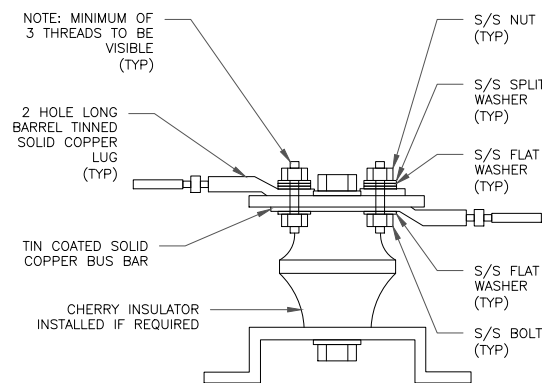
4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



NOTES:

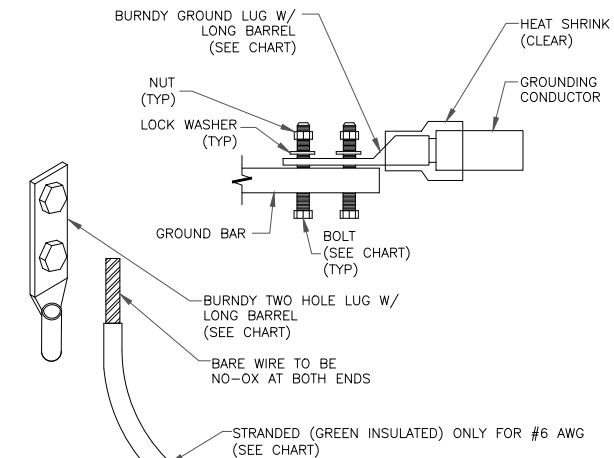
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR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

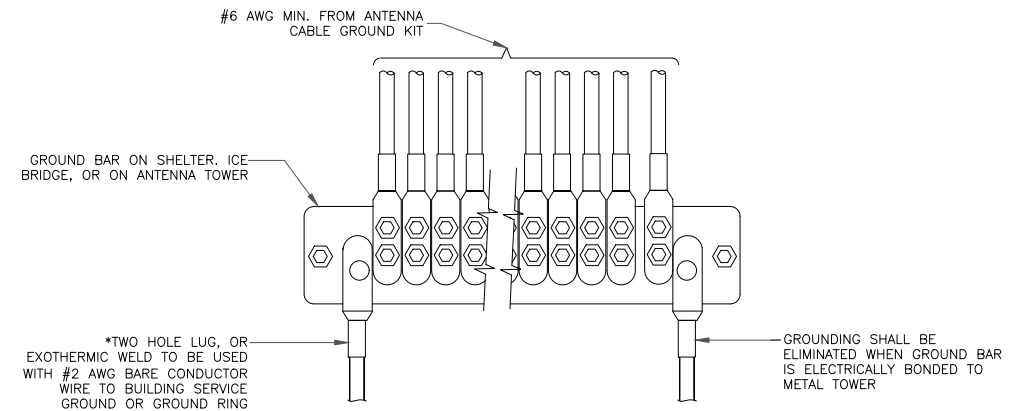
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



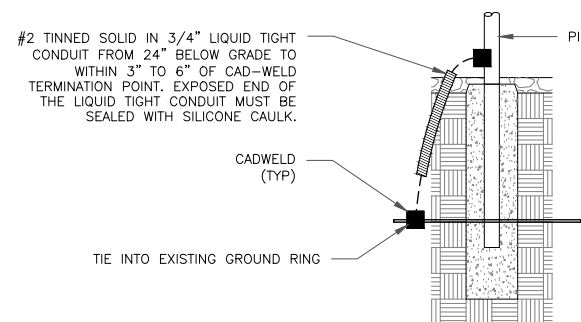
NOTES:

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



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE



VERIZON SITE NUMBER:
324390

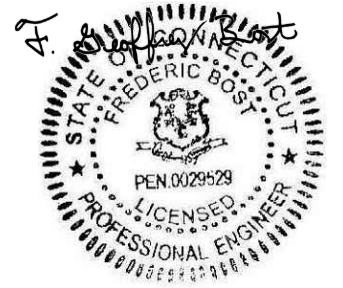
BU #: 841294
MONROE-GUINEA ROAD

226 GUINEA ROAD
MONROE, CT 06468

EXISTING 240'-0" SELF
SUPPORT TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/01/2021	CP	CONSTRUCTION	DG
1	02/08/2022	AO	CLIENT COMMENTS	DG
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SHEET NUMBER:

G-2

REVISION:

2

Exhibit D

Structural Analysis Report

Date: **October 10, 2021**

Paul J. Ford and Company
250 E. Broad St., Ste 600
Columbus, OH 43215
614-221-6679

Subject: Structural Analysis Report

Carrier Designation: Verizon Wireless Co-Locate
Site Number: 467875
Site Name: MONROE CT

Crown Castle Designation: BU Number: 841294
Site Name: MONROE-GUINEA ROAD
JDE Job Number: 690875
Work Order Number: 2031412
Order Number: 591226 Rev. 0

Engineering Firm Designation: Paul J. Ford and Company Project Number: 37521-1067.003.8700

Site Data: 230 GUINEA ROAD, MONROE, Fairfield County, CT
Latitude 41° 20' 30.68", Longitude -73° 16' 28.28"
242.917 Foot - Self Support Tower

Paul J. Ford and Company is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above-mentioned tower.

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

LC7: Proposed Equipment Configuration

Sufficient Capacity

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as required by the 2018 Connecticut State Building Code and Appendix N. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:


Safa Mansoori
Structural Designer
smansoori@pauljford.com

AKT

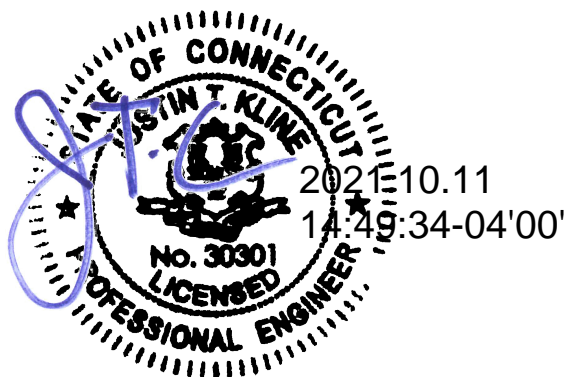


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1) INTRODUCTION

This tower is a 242.917 ft Self Support tower designed by Rohn in 1990.

The modifications designed by GPD (Job #: 2009268.80 Rev. A, dated 10/20/2009), have been considered in this analysis. The modifications consist of replacing the diagonal members from 20.3' to 40.7'.

The modifications designed by GPD (Project #: 2014777.841294.04, dated 9/22/2014) were considered in the analysis. They consist of replacing the bent top girts at 242.9', replacing the diagonals from 121.8'-162.2', and replacing the diagonal bolts from 101.6'-121.8' and 162'-182.4'.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	B
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)
215.0	215.0	1	tower mounts	Sector Mount [SM 505-3]	8	1-5/8
	212.0	3	andrew	LNX-8514DS-A1M w/ Mount Pipe		
		6	jma wireless	MX06FRO660-03 w/ Mount Pipe		
		2	raycap	RRFDC-3315-PF-48		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		

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)
240.0	240.0	1	tower mounts	Side Arm Mount [SO 303-3]	1	1/2
	238.0	1	decibel	DB806-XC		
		1	kathrein	FMO		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
236.0	236.0	3	cci antennas	DMP65R-BU6D w/ Mount Pipe	12 4 1	1 5/8 3/4 3/8
		3	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe		
		3	cci antennas	OPA65R-BU6D w/ Mount Pipe		
		3	ericsson	RADIO 4449 B5/B12		
		3	ericsson	RRUS 32 B2		
		3	ericsson	RRUS 4478 B14		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		6	powerwave technologies	LGP13519		
		2	raycap	DC6-48-60-18-8F		
		1	tower mounts	Sector Mount [SM 201-3]		
201.0	207.0	2	kathrein	OG-4	2	1 1/4
	201.0	2	tower mounts	Side Arm Mount [SO 306-1]		
186.0	188.0	1	andrew	DB589-A	1 2	1/2 7/8
	186.0	1	tower mounts	Side Arm Mount [SO 301-1]		
	184.0	1	andrew	DB589-A		
165.0	165.0	1	fujitsu	TA08025-B604	1	1 3/4
		1	fujitsu	TA08025-B605		
		3	jma wireless	MX08FRO665-21 w/ Mount Pipe		
		1	mounts	Commscope_MTC3975083_Sector_(3)		
		1	raycap	RDIDC-9181-PF-48		
12.0	12.0	1	scala	TY-840	1	1/2

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-TOWER MANUFACTURER DRAWINGS	Rohn, C010166, 2/20/21	4841385	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	GPD, 2015777.841294.06, 6/11/15	4468667	CCISITES
4-GEOTECHNICAL REPORTS	GPD, 2015777.841294.07, 6/17/15	4468666	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	GPD, 2009268.80, 10/20/09	4601540	CCISITES
4-POST-MODIFICATION INSPECTION	GPD, 2009591.00, 1/13/10	4601541	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	GPD, 2014777.841294.01, 9/22/14	5306639	CCISITES
4-POST-MODIFICATION INSPECTION	GPD, 2015777.841294.05, 6/17/15	5750961	CCISITES

3.1) Analysis Method

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

3.2) Assumptions

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

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company 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
T1	244.917 - 224.792	Leg	Pipe 2.875" x 0.203" (2.5 STD)	1	-13.40	66.58	20.1	Pass
T2	224.792 - 204.625	Leg	Pipe 3.5" x 0.300" (3 EH)	37	-37.33	115.74	32.3	Pass
T3	204.625 - 184.438	Leg	Pipe 4" x 0.318" (3.5 EH)	69	-61.77	131.32	47.0	Pass
T4	184.438 - 164.229	Leg	Pipe 4.5" x 0.337" (4 EH)	90	-87.28	167.14	52.2	Pass
T5	164.229 - 144.021	Leg	Pipe 5.563" x 0.375" (5 EH)	111	-113.28	250.61	45.2	Pass
T6	144.021 - 123.813	Leg	Pipe 5.563" x 0.375" (5 EH)	132	-136.24	209.91	64.9	Pass
T7	123.813 - 103.604	Leg	Pipe 6.625" x 0.432" (6 EH)	147	-160.95	317.44	50.7	Pass
T8	103.604 - 83.3333	Leg	Pipe 6.625" x 0.432" (6 EH)	162	-185.63	317.01	58.6	Pass
T9	83.3333 - 63	Leg	Pipe 6.625" x 0.432" (6 EH)	177	-210.59	316.57	66.5	Pass
T10	63 - 42.6667	Leg	Pipe 8.625" x 0.375" (8 EHS)	192	-239.59	404.12	59.3	Pass
T11	42.6667 - 22.3334	Leg	Pipe 8.625" x 0.375" (8 EHS)	207	-247.21	406.05	60.9	Pass
T12	22.3334 - 2	Leg	Pipe 8.75" x 0.500" (8 EH)	240	-269.05	541.51	49.7	Pass
T1	244.917 - 224.792	Diagonal	L 1.75 x 1.75 x 3/16	11	-2.64	11.77	22.5	Pass
T2	224.792 - 204.625	Diagonal	L 1.75 x 1.75 x 3/16	47	-3.57	6.64	53.8	Pass
T3	204.625 - 184.438	Diagonal	L 2.5 x 2.5 x 3/16	71	-4.24	12.21	34.8	Pass
T4	184.438 - 164.229	Diagonal	L 2.5 x 2.5 x 1/4	92	-4.76	12.04	39.6	Pass
T5	164.229 - 144.021	Diagonal	L 2.5 x 2.5 x 5/16	113	-5.23	11.51	45.5	Pass
T6	144.021 - 123.813	Diagonal	L 3 x 3 x 5/16	134	-6.11	13.72	44.6	Pass
T7	123.813 - 103.604	Diagonal	L 3.5 x 3.5 x 1/4	149	-6.64	15.14	43.9	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail	
T8	103.604 - 83.3333	Diagonal	L 3.5 x 3.5 x 1/4	164	-7.13	12.76	55.9	Pass	
T9	83.3333 - 63	Diagonal	L 4 x 4 x 5/16	179	-7.76	19.99	38.8	Pass	
T10	63 - 42.6667	Diagonal	L 4 x 4 x 5/16	194	-11.06	18.32	60.4	Pass	
T11	42.6667 - 22.3334	Diagonal	Pipe 3.5" x 0.216" (3 STD)	212	-13.60	33.77	40.3	Pass	
T12	22.3334 - 2	Diagonal	Pipe 3.5" x 0.216" (3 STD)	245	-12.54	31.82	39.4	Pass	
T11	42.6667 - 22.3334	Horizontal	Pipe 2.875" x 0.203" (2.5 STD)	208	-7.43	16.78	44.3	Pass	
T12	22.3334 - 2	Horizontal	Pipe 3.5" x 0.216" (3 STD)	241	-7.16	27.27	26.2	Pass	
T1	244.917 - 224.792	Top Girt	L 2 x 2 x 1/8	4	-0.03	4.27	0.7	Pass	
T2	224.792 - 204.625	Top Girt	L 2 x 2 x 1/8	42	-0.65	4.35	14.9	Pass	
T11	42.6667 - 22.3334	Redund Horz 1 Bracing	Rohn 1.5" x 11 ga	220	-4.32	5.81	74.4	Pass	
T12	22.3334 - 2	Redund Horz 1 Bracing	Pipe 1.9" x 0.145" (1.5 STD)	253	-4.68	11.84	39.6	Pass	
T11	42.6667 - 22.3334	Redund Diag 1 Bracing	Pipe 1.9" x 0.145" (1.5 STD)	227	-3.93	4.41	89.1	Pass	
T12	22.3334 - 2	Redund Diag 1 Bracing	Rohn 2.25" x 14 ga	254	-3.99	4.42	90.1	Pass	
T11	42.6667 - 22.3334	Redund Hip 1 Bracing	Rohn 1.5" x 11 ga	233	-0.02	5.17	0.5	Pass	
T12	22.3334 - 2	Redund Hip 1 Bracing	Pipe 1.9" x 0.145" (1.5 STD)	264	-0.02	10.62	0.2	Pass	
T11	42.6667 - 22.3334	Redund Hip Diagonal 1 Bracing	Pipe 2.875" x 0.203" (2.5 STD)	232	-0.08	11.11	0.7	Pass	
T12	22.3334 - 2	Redund Hip Diagonal 1 Bracing	Pipe 2.875" x 0.203" (2.5 STD)	265	-0.08	9.99	0.8	Pass	
T11	42.6667 - 22.3334	Inner Bracing	Pipe 2.375" x 0.154" (2 STD)	235	-0.01	6.89	0.5	Pass	
T12	22.3334 - 2	Inner Bracing	Pipe 3.5" x 0.216" (3 STD)	268	-0.02	25.86	0.4	Pass	
							Summary		
							Leg (T9)	66.5	Pass
							Diagonal (T10)	60.4	Pass
							Horizontal (T11)	44.3	Pass
							Top Girt (T2)	14.9	Pass
							Redund Horz 1 Bracing (T11)	74.4	Pass
							Redund Diag 1 Bracing (T12)	90.1	Pass
							Redund Hip 1 Bracing (T11)	0.5	Pass
							Redund Hip Diagonal 1 Bracing (T12)	0.8	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
						Inner Bracing (T11)	0.5	Pass
						Bolt Checks	64.4	Pass
						Rating =	90.1	Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	39.2	Pass
1	Base Foundation (Structure)	0	46.6	Pass
1	Base Foundation (Soil Interaction)	0	46.9	Pass

Structure Rating (max from all components) =	90.1%
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Notes:

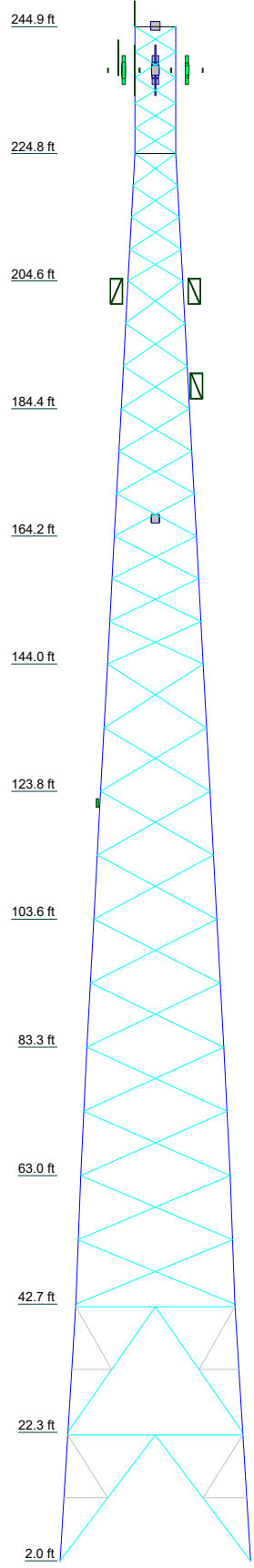
- All structural ratings are per TIA-222-H Section 15.5
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

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

APPENDIX A
TNXTOWER OUTPUT

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12
Legs	Pipe 5.563" x 0.375" (5 EH)	Pipe 6.625" x 0.432" (6 EH)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)	Pipe 8.625" x 0.375" (8 EHS)
Leg Grade	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50
Diagonals	L 2.5 x 2.5 x 3/16	L 2.5 x 2.5 x 3/16	L 2.5 x 2.5 x 1/4	L 2.5 x 2.5 x 1/4	L 2.5 x 2.5 x 5/16	L 3 x 3 x 5/16	L 3.5 x 3.5 x 1/4	L 4 x 4 x 5/16	L 4 x 4 x 5/16	L 4 x 4 x 5/16	L 4 x 4 x 5/16	L 4 x 4 x 5/16
Diagonal Grade	A36	A36	A36	A36	A36	A36	A36	A36	A36	A36	A36	A36
Top Girts	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8	L 2 x 2 x 1/8
Horizontals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Red. Horizontals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Red. Diagonals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Red. Hips	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Inner Bracing	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Face Width (ft)	30.1771	27.6771	25.1771	23.7367	21.59	19.4432	17.2964	15.1496	13.0028	10.8561	8.70928	6.5625
# Panels @ (ft)	1 @ 19.9167	1 @ 19.9167	1 @ 19.9167	4 @ 10.1667	4 @ 10.1667	2 @ 10.1354	4 @ 10.1042	6 @ 6.73611	6 @ 6.73611	3 @ 6.72917	4 @ 5.04167	5 @ 4.025
Weight (K)	36.5	5.9	4.7	4.6	4.2	3.3	3.2	2.7	2.7	1.9	1.4	0.9



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	Pipe 2.875" x 0.203" (2.5 STD)	E	Pipe 8.75" x 0.500" (8 EH)
B	Pipe 3.5" x 0.300" (3 EH)	F	Pipe 3.5" x 0.216" (3 STD)
C	Pipe 4" x 0.318" (3.5 EH)	G	Pipe 1.9" x 0.145" (1.5 STD)
D	Pipe 4.5" x 0.337" (4 EH)	H	Pipe 2.375" x 0.154" (2 STD)

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A500-50	50 ksi	62 ksi
A36	36 ksi	58 ksi	A618-50	50 ksi	70 ksi

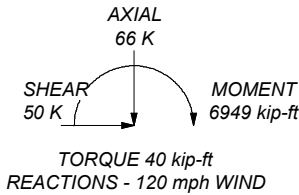
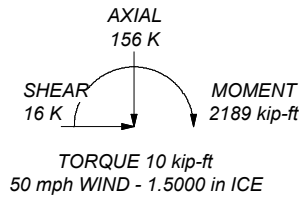
TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 90.1%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 288 K
SHEAR: 32 K

UPLIFT: -234 K
SHEAR: 26 K



Paul J. Ford and Company
250 E. Broad St., Ste 600
Columbus, OH 43215
Phone: 614-221-6679
FAX:

Job: **244' SST Monroe CT MONROE-GUINEA ROAD**
Project: **BU841294 (PJF37521-1067)**
Client: Crown Castle, Inc
Code: TIA-222-H
Path:
Drawn by: Sara Mansoori
Date: 10/10/21
App'd:
Scale: NTS
Dwg No. E-1

Tower Input Data

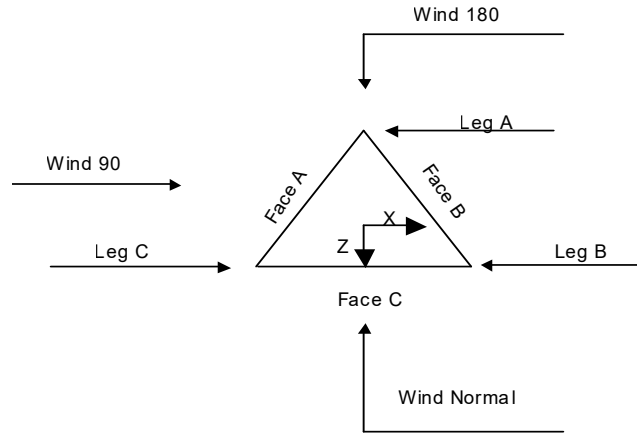
The main tower is a 3x free standing tower with an overall height of 244.92 ft above the ground line.
 The base of the tower is set at an elevation of 2.00 ft above the ground line.
 The face width of the tower is 6.56 ft at the top and 30.18 ft at the base.
 This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in Fairfield County, Connecticut.
- Tower base elevation above sea level: 585.00 ft.
- Basic wind speed of 120 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.5000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t) = 0.85$.
- 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 Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification ✓ Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section ✓ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned ✓ Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area ✓ Use Clear Spans For KL/r Retension Guys To Initial Tension ✓ Bypass Mast Stability Checks ✓ Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination ✓ Sort Capacity Reports By Component ✓ Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules ✓ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque ✓ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <div style="text-align: center; background-color: #e0e0e0; padding: 2px;">Poles</div> Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
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Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	244.92-224.79			6.56	1	20.13
T2	224.79-204.63			6.56	1	20.17
T3	204.63-184.44			8.71	1	20.19
T4	184.44-164.23			10.86	1	20.21
T5	164.23-144.02			13.00	1	20.21
T6	144.02-123.81			15.15	1	20.21
T7	123.81-103.60			17.30	1	20.21
T8	103.60-83.33			19.44	1	20.27
T9	83.33-63.00			21.59	1	20.33
T10	63.00-42.67			23.74	1	20.33
T11	42.67-22.33		K034	25.18	1	20.33
T12	22.33-2.00		L075	27.68	1	20.33

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	244.92-224.79	4.03	X Brace	No	No	0.0000	0.0000
T2	224.79-204.63	5.04	X Brace	No	No	0.0000	0.0000
T3	204.63-184.44	6.73	X Brace	No	No	0.0000	0.0000
T4	184.44-164.23	6.74	X Brace	No	No	0.0000	0.0000
T5	164.23-144.02	6.74	X Brace	No	No	0.0000	0.0000
T6	144.02-123.81	10.10	X Brace	No	No	0.0000	0.0000
T7	123.81-103.60	10.10	X Brace	No	No	0.0000	0.0000
T8	103.60-83.33	10.14	X Brace	No	No	0.0000	0.0000
T9	83.33-63.00	10.17	X Brace	No	No	0.0000	0.0000
T10	63.00-42.67	10.17	X Brace	No	No	0.0000	0.0000
T11	42.67-22.33	19.92	K1 Down	No	Yes	5.0000	0.0000

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T12	22.33-2.00	19.92	K1 Down	No	Yes	5.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 244.92-224.79	Pipe	Pipe 2.875" x 0.203" (2.5 STD)	A572-50 (50 ksi)	Equal Angle	L 1.75 x 1.75 x 3/16	A36 (36 ksi)
T2 224.79-204.63	Pipe	Pipe 3.5" x 0.300" (3 EH)	A572-50 (50 ksi)	Equal Angle	L 1.75 x 1.75 x 3/16	A36 (36 ksi)
T3 204.63-184.44	Pipe	Pipe 4" x 0.318" (3.5 EH)	A572-50 (50 ksi)	Equal Angle	L 2.5 x 2.5 x 3/16	A36 (36 ksi)
T4 184.44-164.23	Pipe	Pipe 4.5" x 0.337" (4 EH)	A572-50 (50 ksi)	Equal Angle	L 2.5 x 2.5 x 1/4	A36 (36 ksi)
T5 164.23-144.02	Pipe	Pipe 5.563" x 0.375" (5 EH)	A572-50 (50 ksi)	Equal Angle	L 2.5 x 2.5 x 5/16	A36 (36 ksi)
T6 144.02-123.81	Pipe	Pipe 5.563" x 0.375" (5 EH)	A572-50 (50 ksi)	Equal Angle	L 3 x 3 x 5/16	A36 (36 ksi)
T7 123.81-103.60	Pipe	Pipe 6.625" x 0.432" (6 EH)	A572-50 (50 ksi)	Equal Angle	L 3.5 x 3.5 x 1/4	A572-50 (50 ksi)
T8 103.60-83.33	Pipe	Pipe 6.625" x 0.432" (6 EH)	A572-50 (50 ksi)	Equal Angle	L 3.5 x 3.5 x 1/4	A572-50 (50 ksi)
T9 83.33-63.00	Pipe	Pipe 6.625" x 0.432" (6 EH)	A572-50 (50 ksi)	Equal Angle	L 4 x 4 x 5/16	A572-50 (50 ksi)
T10 63.00-42.67	Pipe	Pipe 8.625" x 0.375" (8 EHS)	A572-50 (50 ksi)	Equal Angle	L 4 x 4 x 5/16	A572-50 (50 ksi)
T11 42.67-22.33	Pipe	Pipe 8.625" x 0.375" (8 EHS)	A500-50 (50 ksi)	Pipe	Pipe 3.5" x 0.216" (3 STD)	A618-50 (50 ksi)
T12 22.33-2.00	Pipe	Pipe 8.75" x 0.500" (8 EH)	A500-50 (50 ksi)	Pipe	Pipe 3.5" x 0.216" (3 STD)	A618-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 244.92-224.79	Equal Angle	L 2 x 2 x 1/8	A36 (36 ksi)	Flat Bar		A36 (36 ksi)
T2 224.79-204.63	Equal Angle	L 2 x 2 x 1/8	A36 (36 ksi)	Equal Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T11 42.67-22.33	None	Pipe		A618-50 (50 ksi)	Pipe	Pipe 2.875" x 0.203" (2.5 STD)	A618-50 (50 ksi)
T12 22.33-2.00	None	Pipe		A618-50 (50 ksi)	Pipe	Pipe 3.5" x 0.216" (3 STD)	A618-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T11 42.67-22.33	Pipe		A618-50 (50 ksi)	Pipe	Pipe 2.375" x 0.154" (2 STD)	A618-50 (50 ksi)
T12 22.33-2.00	Pipe		A618-50 (50 ksi)	Pipe	Pipe 3.5" x 0.216" (3 STD)	A618-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Redundant Bracing Grade	Redundant Type	Redundant Size	K Factor
T11 42.67-22.33	A618-50 (50 ksi)	Horizontal (1)	Pipe Rohn 1.5" x 11 ga	1
		Diagonal (1)	Pipe 1.9" x 0.145" (1.5 STD)	1
		Hip (1)	Pipe 1.9" x 0.145" (1.5 STD)	1
		Hip Diagonal (1)	Pipe Rohn 1.5" x 11 ga Pipe 2.875" x 0.203" (2.5 STD)	1
T12 22.33-2.00	A618-50 (50 ksi)	Horizontal (1)	Pipe 1.9" x 0.145" (1.5 STD)	1
		Diagonal (1)	Pipe 1.9" x 0.145" (1.5 STD)	1
		Hip (1)	Pipe Rohn 2.25" x 14 ga	1
		Hip Diagonal (1)	Pipe 1.9" x 0.145" (1.5 STD) Pipe 2.875" x 0.203" (2.5 STD)	1

Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Grade Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
T1 244.92-224.79	0.00	0.1875	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T2 224.79-204.63	0.00	0.1875	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T3 204.63-184.44	0.00	0.1875	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T4 184.44-164.23	0.00	0.2500	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T5 164.23-144.02	0.00	0.3125	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T6 144.02-123.81	0.00	0.3125	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T7 123.81-103.60	0.00	0.2500	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T8 103.60-83.33	0.00	0.3125	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T9 83.33-63.00	0.00	0.3125	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T10 63.00-42.67	0.00	0.3125	A36 (36 ksi)	1.03	1	1	36.0000	36.0000	36.0000
T11 42.67-22.33	0.00	0.3750	A36 (36 ksi)	1	1.03	1.1	36.0000	36.0000	36.0000
T12 22.33-2.00	0.00	0.3750	A36 (36 ksi)	1	1.03	1.1	36.0000	36.0000	36.0000

Tower Section Geometry (cont'd)

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹								
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace		
				X Y	X Y	X Y	X Y	X Y	X Y	X Y		
T1 244.92-224.79	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T2 224.79-204.63	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T3 204.63-184.44	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T4 184.44-164.23	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T5 164.23-144.02	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T6 144.02-123.81	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T7 123.81-103.60	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T8 103.60-83.33	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T9 83.33-63.00	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T10 63.00-42.67	Yes	Yes	1	1	1	1	1	1	1	1	1	1
T11 42.67-22.33	No	No	1	1	1	1	1	1	1	1	1	1
T12 22.33-2.00	No	No	1	1	1	1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 244.92-224.79	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T2 224.79-204.63	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 204.63-184.44	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 184.44-164.23	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 164.23-144.02	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 144.02-123.81	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 123.81-103.60	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 103.60-83.33	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 83.33-63.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 63.00-42.67	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T11 42.67-22.33	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	1
T12 22.33-2.00	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	1	0.0000	1

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 244.92-224.79	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T2 224.79-204.63	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 204.63-184.44	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 184.44-164.23	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 164.23-144.02	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 144.02-123.81	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 123.81-103.60	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 103.60-83.33	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 83.33-63.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 63.00-42.67	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T11 42.67-22.33	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T12 22.33-2.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 244.92-224.79	Flange	0.7500	4	0.5000	1	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T2 224.79-204.63	Flange	0.8750	4	0.5000	1	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T3 204.63-184.44	Flange	0.8750	4	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T4 184.44-164.23	Flange	1.0000	4	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325X		A325N		A325N		A325N		A325N		A325N	
T5 164.23-144.02	Flange	1.0000	4	0.5000	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325X		A325N		A325N		A325N		A325N		A325N	
T6 144.02-123.81	Flange	1.0000	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325X		A325N		A325N		A325N		A325N		A325N	
T7 123.81-103.60	Flange	1.0000	6	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
		A325N		A325X		A325N		A325N		A325N		A325N		A325N	

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T8 103.60-83.33	Flange	1.0000	6	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T9 83.33-63.00	Flange	1.0000	8	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T10 63.00-42.67	Flange	1.0000	8	0.7500	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T11 42.67-22.33	Flange	1.0000	8	0.7500	3	0.0000	0	0.0000	0	0.0000	0	0.7500	2	0.6250	1
T12 22.33-2.00	Flange	1.0000	0	0.7500	3	0.0000	0	0.0000	0	0.0000	0	0.7500	2	0.6250	1

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
1/4" x 2" Climb Ladder Rail	A	No	No	Af (CaAa)	202.00 - 10.00	9.0000	0.5	2	1	0.2500	0.2500	12.0000	4.00
Safety Line 3/8	A	No	No	Ar (CaAa)	202.00 - 10.00	9.0000	0.5	1	1	0.3750	0.3750		0.22
5/8" ladder rung (18" long 12" oc)	A	No	No	Ar (CaAa)	202.00 - 10.00	9.0000	0.5	1	1	0.6250	0.6250		1.56
3/4" lighting conduit (1/2" EMT) ***	A	No	No	Ar (CaAa)	242.00 - 10.00	0.0000	0.48	1	1	0.7060	0.7060		0.30
1.5" flat Cable Ladder Rail	A	No	No	Af (CaAa)	238.00 - 10.00	0.0000	-0.4	2	2	24.0000	1.5000	0	1.80
LDF7-50A(1-5/8)	A	No	No	Ar (CaAa)	238.00 - 10.00	0.0000	-0.4	12	4	0.2700	1.9800	0.5000	0.82
FB-L98B-034-XXX(3/8)	A	No	No	Ar (CaAa)	238.00 - 10.00	0.0000	-0.35	1	1	0.3937	0.3937		0.06
WR-VG86ST-BRD (3/4")	A	No	No	Ar (CaAa)	238.00 - 10.00	0.0000	-0.35	4	1	0.7950	0.7740		0.88
AVA5-50(7/8)	A	No	No	Ar (CaAa)	188.00 - 10.00	0.0000	-0.44	2	1	1.0000	1.1020		0.30
LDF4-50A(1/2")	A	No	No	Ar (CaAa)	188.00 - 10.00	0.0000	-0.44	2	2	0.6300	0.6300		0.15
LDF4-50A(1/2") *	A	No	No	Ar (CaAa)	242.00 - 188.00	0.0000	-0.44	1	1	0.6300	0.6300		0.15
LDF6-50A(1-1/4) **	B	No	No	Ar (CaAa)	203.00 - 10.00	0.0000	0.49	2	2	1.0000	1.5500		0.60
1.5" flat Cable Ladder Rail	C	No	No	Af (CaAa)	217.00 - 10.00	0.0000	-0.4	2	2	30.0000	1.5000	0	1.80
AVA7-50 (1-5/8 LOW DENS. FOAM) **	C	No	No	Ar (CaAa)	217.00 - 10.00	0.0000	-0.4	8	8	0.2700	1.9800	0.5000	0.72
LDF4-50A(1/2") ***	B	No	No	Ar (CaAa)	14.00 - 10.00	0.0000	0.45	1	1	0.6300	0.6300		0.15
CU12PSM6P 4XXX(1-3/4)	B	No	No	Ar (CaAa)	167.00 - 10.00	0.0000	-0.45	1	1	1.7500	1.7500		2.72

Feed Line/Linear Appurtenances Section Areas

Tower Sectio n	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
T1	244.92-224.79	A	0.000	0.000	44.896	0.000	0.23
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T2	224.79-204.63	A	0.000	0.000	67.731	0.000	0.35
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	25.790	0.000	0.12
T3	204.63-184.44	A	0.000	0.000	72.031	0.000	0.53
		B	0.000	0.000	5.754	0.000	0.02
		C	0.000	0.000	42.071	0.000	0.19
T4	184.44-164.23	A	0.000	0.000	77.303	0.000	0.57
		B	0.000	0.000	6.749	0.000	0.03
		C	0.000	0.000	42.114	0.000	0.19
T5	164.23-144.02	A	0.000	0.000	77.303	0.000	0.57
		B	0.000	0.000	9.801	0.000	0.08
		C	0.000	0.000	42.114	0.000	0.19
T6	144.02-123.81	A	0.000	0.000	77.303	0.000	0.57
		B	0.000	0.000	9.801	0.000	0.08
		C	0.000	0.000	42.114	0.000	0.19
T7	123.81-103.60	A	0.000	0.000	77.303	0.000	0.57
		B	0.000	0.000	9.801	0.000	0.08
		C	0.000	0.000	42.114	0.000	0.19
T8	103.60-83.33	A	0.000	0.000	77.542	0.000	0.57
		B	0.000	0.000	9.831	0.000	0.08
		C	0.000	0.000	42.244	0.000	0.19
T9	83.33-63.00	A	0.000	0.000	77.781	0.000	0.57
		B	0.000	0.000	9.862	0.000	0.08
		C	0.000	0.000	42.375	0.000	0.19
T10	63.00-42.67	A	0.000	0.000	77.781	0.000	0.57
		B	0.000	0.000	9.862	0.000	0.08
		C	0.000	0.000	42.375	0.000	0.19
T11	42.67-22.33	A	0.000	0.000	77.781	0.000	0.57
		B	0.000	0.000	9.862	0.000	0.08
		C	0.000	0.000	42.375	0.000	0.19
T12	22.33-2.00	A	0.000	0.000	47.179	0.000	0.35
		B	0.000	0.000	6.234	0.000	0.05
		C	0.000	0.000	25.703	0.000	0.12

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
T1	244.92-224.79	A	1.551	0.000	0.000	73.573	0.000	1.24
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
T2	224.79-204.63	A	1.538	0.000	0.000	107.256	0.000	1.82
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	46.918	0.000	0.65
T3	204.63-184.44	A	1.523	0.000	0.000	166.507	0.000	2.37
		B		0.000	0.000	19.711	0.000	0.20
		C		0.000	0.000	76.324	0.000	1.05
T4	184.44-164.23	A	1.506	0.000	0.000	196.214	0.000	2.62
		B		0.000	0.000	22.662	0.000	0.24
		C		0.000	0.000	76.168	0.000	1.04
T5	164.23-144.02	A	1.487	0.000	0.000	195.146	0.000	2.58
		B		0.000	0.000	30.762	0.000	0.39
		C		0.000	0.000	75.906	0.000	1.03
T6	144.02-123.81	A	1.467	0.000	0.000	193.944	0.000	2.55
		B		0.000	0.000	30.534	0.000	0.38

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
T7	123.81-103.60	C	1.443	0.000	0.000	75.612	0.000	1.02
		A		0.000	0.000	192.566	0.000	2.50
		B		0.000	0.000	30.272	0.000	0.37
T8	103.60-83.33	C	1.415	0.000	0.000	75.275	0.000	1.00
		A		0.000	0.000	191.535	0.000	2.46
		B		0.000	0.000	30.056	0.000	0.37
T9	83.33-63.00	C	1.381	0.000	0.000	75.110	0.000	0.99
		A		0.000	0.000	190.133	0.000	2.41
		B		0.000	0.000	29.769	0.000	0.36
T10	63.00-42.67	C	1.336	0.000	0.000	74.854	0.000	0.97
		A		0.000	0.000	187.560	0.000	2.33
		B		0.000	0.000	29.280	0.000	0.35
T11	42.67-22.33	C	1.273	0.000	0.000	74.225	0.000	0.94
		A		0.000	0.000	183.876	0.000	2.22
		B		0.000	0.000	28.578	0.000	0.33
T12	22.33-2.00	C	1.154	0.000	0.000	73.324	0.000	0.90
		A		0.000	0.000	107.338	0.000	1.23
		B		0.000	0.000	17.539	0.000	0.19
		C		0.000	0.000	43.450	0.000	0.51

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
T1	244.92-224.79	-8.5758	3.0903	-10.4451	2.5486
T2	224.79-204.63	-3.9868	5.9014	-6.2437	5.8293
T3	204.63-184.44	0.8302	6.6954	-2.4903	1.5924
T4	184.44-164.23	-0.2848	7.8137	-4.5573	1.9471
T5	164.23-144.02	-0.1507	6.9718	-4.5267	0.2729
T6	144.02-123.81	-0.0952	8.0205	-4.9223	0.4595
T7	123.81-103.60	-0.0366	8.0896	-4.8971	0.6014
T8	103.60-83.33	0.0113	8.6238	-5.0239	0.7611
T9	83.33-63.00	0.0518	8.5514	-4.9593	0.8960
T10	63.00-42.67	0.0827	8.7993	-4.8494	1.0151
T11	42.67-22.33	0.1665	12.7189	-5.7630	1.4069
T12	22.33-2.00	0.3525	9.0780	-3.6451	1.4894

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	4	3/4" lighting conduit (1/2" EMT)	224.79 - 242.00	0.6000	0.6000
T1	6	1.5" flat Cable Ladder Rail	224.79 - 238.00	0.6000	0.6000
T1	7	LDF7-50A(1-5/8)	224.79 - 238.00	0.6000	0.6000
T1	8	FB-L98B-034-XXX(3/8)	224.79 - 238.00	0.6000	0.6000
T1	9	WR-VG86ST-BRD (3/4")	224.79 - 238.00	0.6000	0.6000
T1	12	LDF4-50A(1/2")	224.79 - 242.00	0.6000	0.6000
T2	4	3/4" lighting conduit (1/2" EMT)	204.63 - 224.79	0.6000	0.6000
T2	6	1.5" flat Cable Ladder Rail	204.63 - 224.79	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T2	7	LDF7-50A(1-5/8)	204.63 - 224.79	0.6000	0.6000
T2	8	FB-L98B-034-XXX(3/8)	204.63 - 224.79	0.6000	0.6000
T2	9	WR-VG86ST-BRD (3/4")	204.63 - 224.79	0.6000	0.6000
T2	12	LDF4-50A(1/2")	204.63 - 224.79	0.6000	0.6000
T2	16	1.5" flat Cable Ladder Rail	204.63 - 217.00	0.6000	0.6000
T2	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	204.63 - 217.00	0.6000	0.6000
T3	1	1/4" x 2" Climb Ladder Rail	184.44 - 202.00	0.6000	0.6000
T3	2	Safety Line 3/8	184.44 - 202.00	0.6000	0.6000
T3	3	5/8" ladder rung (18" long 12" oc)	184.44 - 202.00	0.6000	0.6000
T3	4	3/4" lighting conduit (1/2" EMT)	184.44 - 204.63	0.6000	0.6000
T3	6	1.5" flat Cable Ladder Rail	184.44 - 204.63	0.6000	0.6000
T3	7	LDF7-50A(1-5/8)	184.44 - 204.63	0.6000	0.6000
T3	8	FB-L98B-034-XXX(3/8)	184.44 - 204.63	0.6000	0.6000
T3	9	WR-VG86ST-BRD (3/4")	184.44 - 204.63	0.6000	0.6000
T3	10	AVA5-50(7/8)	184.44 - 188.00	0.6000	0.6000
T3	11	LDF4-50A(1/2")	184.44 - 188.00	0.6000	0.6000
T3	12	LDF4-50A(1/2")	188.00 - 204.63	0.6000	0.6000
T3	14	LDF6-50A(1-1/4)	184.44 - 203.00	0.6000	0.6000
T3	16	1.5" flat Cable Ladder Rail	184.44 - 204.63	0.6000	0.6000
T3	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	184.44 - 204.63	0.6000	0.6000
T4	1	1/4" x 2" Climb Ladder Rail	164.23 - 184.44	0.6000	0.6000
T4	2	Safety Line 3/8	164.23 - 184.44	0.6000	0.6000
T4	3	5/8" ladder rung (18" long 12" oc)	164.23 - 184.44	0.6000	0.6000
T4	4	3/4" lighting conduit (1/2" EMT)	164.23 - 184.44	0.6000	0.6000
T4	6	1.5" flat Cable Ladder Rail	164.23 - 184.44	0.6000	0.6000
T4	7	LDF7-50A(1-5/8)	164.23 - 184.44	0.6000	0.6000
T4	8	FB-L98B-034-XXX(3/8)	164.23 - 184.44	0.6000	0.6000
T4	9	WR-VG86ST-BRD (3/4")	164.23 - 184.44	0.6000	0.6000
T4	10	AVA5-50(7/8)	164.23 - 184.44	0.6000	0.6000
T4	11	LDF4-50A(1/2")	164.23 - 184.44	0.6000	0.6000
T4	14	LDF6-50A(1-1/4)	164.23 - 184.44	0.6000	0.6000
T4	16	1.5" flat Cable Ladder Rail	164.23 - 184.44	0.6000	0.6000
T4	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	164.23 - 184.44	0.6000	0.6000
T4	22	CU12PSM6P4XXX(1-3/4)	164.23 - 167.00	0.6000	0.6000
T5	1	1/4" x 2" Climb Ladder Rail	144.02 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T5	2	Safety Line 3/8	164.23 144.02 - 164.23	0.6000	0.6000
T5	3	5/8" ladder rung (18" long 12" oc)	144.02 - 164.23	0.6000	0.6000
T5	4	3/4" lighting conduit (1/2" EMT)	144.02 - 164.23	0.6000	0.6000
T5	6	1.5" flat Cable Ladder Rail	144.02 - 164.23	0.6000	0.6000
T5	7	LDF7-50A(1-5/8)	144.02 - 164.23	0.6000	0.6000
T5	8	FB-L98B-034-XXX(3/8)	144.02 - 164.23	0.6000	0.6000
T5	9	WR-VG86ST-BRD (3/4")	144.02 - 164.23	0.6000	0.6000
T5	10	AVA5-50(7/8)	144.02 - 164.23	0.6000	0.6000
T5	11	LDF4-50A(1/2")	144.02 - 164.23	0.6000	0.6000
T5	14	LDF6-50A(1-1/4)	144.02 - 164.23	0.6000	0.6000
T5	16	1.5" flat Cable Ladder Rail	144.02 - 164.23	0.6000	0.6000
T5	17	AVA7-50 (1-5/8 LOW DENSI. FOAM)	144.02 - 164.23	0.6000	0.6000
T5	22	CU12PSM6P4XXX(1-3/4)	144.02 - 164.23	0.6000	0.6000
T6	1	1/4" x 2" Climb Ladder Rail	123.81 - 144.02	0.6000	0.6000
T6	2	Safety Line 3/8	123.81 - 144.02	0.6000	0.6000
T6	3	5/8" ladder rung (18" long 12" oc)	123.81 - 144.02	0.6000	0.6000
T6	4	3/4" lighting conduit (1/2" EMT)	123.81 - 144.02	0.6000	0.6000
T6	6	1.5" flat Cable Ladder Rail	123.81 - 144.02	0.6000	0.6000
T6	7	LDF7-50A(1-5/8)	123.81 - 144.02	0.6000	0.6000
T6	8	FB-L98B-034-XXX(3/8)	123.81 - 144.02	0.6000	0.6000
T6	9	WR-VG86ST-BRD (3/4")	123.81 - 144.02	0.6000	0.6000
T6	10	AVA5-50(7/8)	123.81 - 144.02	0.6000	0.6000
T6	11	LDF4-50A(1/2")	123.81 - 144.02	0.6000	0.6000
T6	14	LDF6-50A(1-1/4)	123.81 - 144.02	0.6000	0.6000
T6	16	1.5" flat Cable Ladder Rail	123.81 - 144.02	0.6000	0.6000
T6	17	AVA7-50 (1-5/8 LOW DENSI. FOAM)	123.81 - 144.02	0.6000	0.6000
T6	22	CU12PSM6P4XXX(1-3/4)	123.81 - 144.02	0.6000	0.6000
T7	1	1/4" x 2" Climb Ladder Rail	103.60 - 123.81	0.6000	0.6000
T7	2	Safety Line 3/8	103.60 - 123.81	0.6000	0.6000
T7	3	5/8" ladder rung (18" long 12" oc)	103.60 - 123.81	0.6000	0.6000
T7	4	3/4" lighting conduit (1/2" EMT)	103.60 - 123.81	0.6000	0.6000
T7	6	1.5" flat Cable Ladder Rail	103.60 - 123.81	0.6000	0.6000
T7	7	LDF7-50A(1-5/8)	103.60 - 123.81	0.6000	0.6000
T7	8	FB-L98B-034-XXX(3/8)	103.60 - 123.81	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T7	9	WR-VG86ST-BRD (3/4")	103.60 - 123.81	0.6000	0.6000
T7	10	AVA5-50(7/8)	103.60 - 123.81	0.6000	0.6000
T7	11	LDF4-50A(1/2")	103.60 - 123.81	0.6000	0.6000
T7	14	LDF6-50A(1-1/4)	103.60 - 123.81	0.6000	0.6000
T7	16	1.5" flat Cable Ladder Rail	103.60 - 123.81	0.6000	0.6000
T7	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	103.60 - 123.81	0.6000	0.6000
T7	22	CU12PSM6P4XXX(1-3/4)	103.60 - 123.81	0.6000	0.6000
T8	1	1/4" x 2" Climb Ladder Rail	83.33 - 103.60	0.6000	0.6000
T8	2	Safety Line 3/8	83.33 - 103.60	0.6000	0.6000
T8	3	5/8" ladder rung (18" long 12" oc)	83.33 - 103.60	0.6000	0.6000
T8	4	3/4" lighting conduit (1/2" EMT)	83.33 - 103.60	0.6000	0.6000
T8	6	1.5" flat Cable Ladder Rail	83.33 - 103.60	0.6000	0.6000
T8	7	LDF7-50A(1-5/8)	83.33 - 103.60	0.6000	0.6000
T8	8	FB-L98B-034-XXX(3/8)	83.33 - 103.60	0.6000	0.6000
T8	9	WR-VG86ST-BRD (3/4")	83.33 - 103.60	0.6000	0.6000
T8	10	AVA5-50(7/8)	83.33 - 103.60	0.6000	0.6000
T8	11	LDF4-50A(1/2")	83.33 - 103.60	0.6000	0.6000
T8	14	LDF6-50A(1-1/4)	83.33 - 103.60	0.6000	0.6000
T8	16	1.5" flat Cable Ladder Rail	83.33 - 103.60	0.6000	0.6000
T8	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	83.33 - 103.60	0.6000	0.6000
T8	22	CU12PSM6P4XXX(1-3/4)	83.33 - 103.60	0.6000	0.6000
T9	1	1/4" x 2" Climb Ladder Rail	63.00 - 83.33	0.6000	0.6000
T9	2	Safety Line 3/8	63.00 - 83.33	0.6000	0.6000
T9	3	5/8" ladder rung (18" long 12" oc)	63.00 - 83.33	0.6000	0.6000
T9	4	3/4" lighting conduit (1/2" EMT)	63.00 - 83.33	0.6000	0.6000
T9	6	1.5" flat Cable Ladder Rail	63.00 - 83.33	0.6000	0.6000
T9	7	LDF7-50A(1-5/8)	63.00 - 83.33	0.6000	0.6000
T9	8	FB-L98B-034-XXX(3/8)	63.00 - 83.33	0.6000	0.6000
T9	9	WR-VG86ST-BRD (3/4")	63.00 - 83.33	0.6000	0.6000
T9	10	AVA5-50(7/8)	63.00 - 83.33	0.6000	0.6000
T9	11	LDF4-50A(1/2")	63.00 - 83.33	0.6000	0.6000
T9	14	LDF6-50A(1-1/4)	63.00 - 83.33	0.6000	0.6000
T9	16	1.5" flat Cable Ladder Rail	63.00 - 83.33	0.6000	0.6000
T9	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	63.00 - 83.33	0.6000	0.6000
T9	22	CU12PSM6P4XXX(1-3/4)	63.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			83.33		
T10	1	1/4" x 2" Climb Ladder Rail	42.67 - 63.00	0.6000	0.6000
T10	2	Safety Line 3/8	42.67 - 63.00	0.6000	0.6000
T10	3	5/8" ladder rung (18" long 12" oc)	42.67 - 63.00	0.6000	0.6000
T10	4	3/4" lighting conduit (1/2" EMT)	42.67 - 63.00	0.6000	0.6000
T10	6	1.5" flat Cable Ladder Rail	42.67 - 63.00	0.6000	0.6000
T10	7	LDF7-50A(1-5/8)	42.67 - 63.00	0.6000	0.6000
T10	8	FB-L98B-034-XXX(3/8)	42.67 - 63.00	0.6000	0.6000
T10	9	WR-VG86ST-BRD (3/4")	42.67 - 63.00	0.6000	0.6000
T10	10	AVA5-50(7/8)	42.67 - 63.00	0.6000	0.6000
T10	11	LDF4-50A(1/2")	42.67 - 63.00	0.6000	0.6000
T10	14	LDF6-50A(1-1/4)	42.67 - 63.00	0.6000	0.6000
T10	16	1.5" flat Cable Ladder Rail	42.67 - 63.00	0.6000	0.6000
T10	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	42.67 - 63.00	0.6000	0.6000
T10	22	CU12PSM6P4XXX(1-3/4)	42.67 - 63.00	0.6000	0.6000
T11	1	1/4" x 2" Climb Ladder Rail	22.33 - 42.67	0.6000	0.6000
T11	2	Safety Line 3/8	22.33 - 42.67	0.6000	0.6000
T11	3	5/8" ladder rung (18" long 12" oc)	22.33 - 42.67	0.6000	0.6000
T11	4	3/4" lighting conduit (1/2" EMT)	22.33 - 42.67	0.6000	0.6000
T11	6	1.5" flat Cable Ladder Rail	22.33 - 42.67	0.6000	0.6000
T11	7	LDF7-50A(1-5/8)	22.33 - 42.67	0.6000	0.6000
T11	8	FB-L98B-034-XXX(3/8)	22.33 - 42.67	0.6000	0.6000
T11	9	WR-VG86ST-BRD (3/4")	22.33 - 42.67	0.6000	0.6000
T11	10	AVA5-50(7/8)	22.33 - 42.67	0.6000	0.6000
T11	11	LDF4-50A(1/2")	22.33 - 42.67	0.6000	0.6000
T11	14	LDF6-50A(1-1/4)	22.33 - 42.67	0.6000	0.6000
T11	16	1.5" flat Cable Ladder Rail	22.33 - 42.67	0.6000	0.6000
T11	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	22.33 - 42.67	0.6000	0.6000
T11	22	CU12PSM6P4XXX(1-3/4)	22.33 - 42.67	0.6000	0.6000
T12	1	1/4" x 2" Climb Ladder Rail	10.00 - 22.33	0.6000	0.6000
T12	2	Safety Line 3/8	10.00 - 22.33	0.6000	0.6000
T12	3	5/8" ladder rung (18" long 12" oc)	10.00 - 22.33	0.6000	0.6000
T12	4	3/4" lighting conduit (1/2" EMT)	10.00 - 22.33	0.6000	0.6000
T12	6	1.5" flat Cable Ladder Rail	10.00 - 22.33	0.6000	0.6000
T12	7	LDF7-50A(1-5/8)	10.00 - 22.33	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T12	8	FB-L98B-034-XXX(3/8)	10.00 - 22.33	0.6000	0.6000
T12	9	WR-VG86ST-BRD (3/4")	10.00 - 22.33	0.6000	0.6000
T12	10	AVA5-50(7/8)	10.00 - 22.33	0.6000	0.6000
T12	11	LDF4-50A(1/2")	10.00 - 22.33	0.6000	0.6000
T12	14	LDF6-50A(1-1/4)	10.00 - 22.33	0.6000	0.6000
T12	16	1.5" flat Cable Ladder Rail	10.00 - 22.33	0.6000	0.6000
T12	17	AVA7-50 (1-5/8 LOW DENS. FOAM)	10.00 - 22.33	0.6000	0.6000
T12	20	LDF4-50A(1/2")	10.00 - 14.00	0.6000	0.6000
T12	22	CU12PSM6P4XXX(1-3/4)	10.00 - 22.33	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
Strobe Light	A	From Leg	0.00 0.00 0.00	0.0000	245.00	No Ice	1.08	1.08	0.05
						1/2" Ice	1.68	1.68	0.08
						1" Ice	1.87	1.87	0.10
						1" Ice	2.27	2.27	0.17
						2" Ice			
5/8" x 4' Lightning Rod	C	From Leg	0.00 0.00 2.00	0.0000	245.00	No Ice	0.25	0.25	0.01
						1/2" Ice	0.66	0.66	0.01
						1" Ice	0.97	0.97	0.02
						1" Ice	1.49	1.49	0.03
						2" Ice			
Obstruction light	C	From Leg	0.50 0.00 0.00	0.0000	122.00	No Ice	0.50	0.50	0.01
						1/2" Ice	0.83	0.83	0.02
						1" Ice	0.96	0.96	0.03
						1" Ice	1.26	1.26	0.06
						2" Ice			
Obstruction light	C	From Leg	0.50 0.00 0.00	0.0000	122.00	No Ice	0.50	0.50	0.01
						1/2" Ice	0.83	0.83	0.02
						1" Ice	0.96	0.96	0.03
						1" Ice	1.26	1.26	0.06
						2" Ice			
Obstruction light	C	From Leg	0.50 0.00 0.00	0.0000	122.00	No Ice	0.50	0.50	0.01
						1/2" Ice	0.83	0.83	0.02
						1" Ice	0.96	0.96	0.03
						1" Ice	1.26	1.26	0.06
						2" Ice			
* Side Arm Mount [SO 303-3]	B	None		0.0000	242.00	No Ice	7.67	7.67	0.34
						1/2" Ice	11.04	11.04	0.48
						1" Ice	14.57	14.57	0.65
						1" Ice	22.36	22.36	1.14
						2" Ice			
DB806-XC	C	From Leg	3.00	0.0000	242.00	No Ice	1.14	1.14	0.02
			0.00			1/2" Ice	1.68	1.68	0.03
			-2.00			1" Ice	2.03	2.03	0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
						1" Ice 2" Ice	2.75 2.75	0.08	
FMO	C	From Leg	3.00 0.00 -2.00	0.0000	242.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.40 8.81 9.24 10.10 10.10	0.01 0.18 0.36 0.75	
*									
OPA65R-BU6D w/ Mount Pipe	A	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34 8.79	6.05 6.71 7.39 8.79	0.09 0.18 0.27 0.51
OPA65R-BU6D w/ Mount Pipe	B	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34 8.79	6.05 6.71 7.39 8.79	0.09 0.18 0.27 0.51
OPA65R-BU6D w/ Mount Pipe	C	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34 8.79	6.05 6.71 7.39 8.79	0.09 0.18 0.27 0.51
7770.00 w/ Mount Pipe	A	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49 7.16	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	B	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49 7.16	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	C	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49 7.16	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
DMP65R-BU6D w/ Mount Pipe	A	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02 8.69	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
DMP65R-BU6D w/ Mount Pipe	B	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02 8.69	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
DMP65R-BU6D w/ Mount Pipe	C	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.96 12.70 13.46 15.02 8.69	5.97 6.63 7.30 8.69	0.11 0.20 0.30 0.53
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	9.22 9.98 10.76 12.36 9.22	6.25 6.96 7.70 9.22	0.07 0.14 0.22 0.42
HPA-65R-BUU-H6 w/ Mount Pipe	C	From Leg	2.00 0.00 0.00	0.0000	238.00	No Ice 1/2" Ice 1" Ice 2" Ice	9.22 9.98 10.76 12.36 9.22	6.25 6.96 7.70 9.22	0.07 0.14 0.22 0.42
HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	2.00 0.00	0.0000	238.00	No Ice 1/2"	9.22 9.98	6.25 6.96	0.07 0.14

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			0.00			Ice 10.76	7.70	0.22
						1" Ice 12.36	9.22	0.42
						2" Ice		
(2) LGP13519	A	From Leg	2.00	0.0000	238.00	No Ice 0.29	0.18	0.01
			0.00			1/2" 0.36	0.24	0.01
			0.00			Ice 0.44	0.31	0.01
						1" Ice 0.62	0.47	0.02
						2" Ice		
(2) LGP13519	B	From Leg	2.00	0.0000	238.00	No Ice 0.29	0.18	0.01
			0.00			1/2" 0.36	0.24	0.01
			0.00			Ice 0.44	0.31	0.01
						1" Ice 0.62	0.47	0.02
						2" Ice		
(2) LGP13519	C	From Leg	2.00	0.0000	238.00	No Ice 0.29	0.18	0.01
			0.00			1/2" 0.36	0.24	0.01
			0.00			Ice 0.44	0.31	0.01
						1" Ice 0.62	0.47	0.02
						2" Ice		
RRUS 32 B2	A	From Leg	2.00	0.0000	238.00	No Ice 2.74	1.67	0.05
			0.00			1/2" 2.96	1.86	0.07
			0.00			Ice 3.19	2.05	0.10
						1" Ice 3.68	2.46	0.16
						2" Ice		
RRUS 32 B2	B	From Leg	2.00	0.0000	238.00	No Ice 2.74	1.67	0.05
			0.00			1/2" 2.96	1.86	0.07
			0.00			Ice 3.19	2.05	0.10
						1" Ice 3.68	2.46	0.16
						2" Ice		
RRUS 32 B2	C	From Leg	2.00	0.0000	238.00	No Ice 2.74	1.67	0.05
			0.00			1/2" 2.96	1.86	0.07
			0.00			Ice 3.19	2.05	0.10
						1" Ice 3.68	2.46	0.16
						2" Ice		
RRUS 4478 B14	A	From Leg	2.00	0.0000	238.00	No Ice 2.02	1.25	0.06
			0.00			1/2" 2.20	1.40	0.08
			0.00			Ice 2.39	1.55	0.10
						1" Ice 2.78	1.89	0.15
						2" Ice		
RRUS 4478 B14	B	From Leg	2.00	0.0000	238.00	No Ice 2.02	1.25	0.06
			0.00			1/2" 2.20	1.40	0.08
			0.00			Ice 2.39	1.55	0.10
						1" Ice 2.78	1.89	0.15
						2" Ice		
RRUS 4478 B14	C	From Leg	2.00	0.0000	238.00	No Ice 2.02	1.25	0.06
			0.00			1/2" 2.20	1.40	0.08
			0.00			Ice 2.39	1.55	0.10
						1" Ice 2.78	1.89	0.15
						2" Ice		
RADIO 4449 B5/B12	A	From Leg	2.00	0.0000	238.00	No Ice 1.64	1.30	0.07
			0.00			1/2" 1.80	1.45	0.09
			0.00			Ice 1.97	1.60	0.11
						1" Ice 2.33	1.92	0.16
						2" Ice		
RADIO 4449 B5/B12	B	From Leg	2.00	0.0000	238.00	No Ice 1.64	1.30	0.07
			0.00			1/2" 1.80	1.45	0.09
			0.00			Ice 1.97	1.60	0.11
						1" Ice 2.33	1.92	0.16
						2" Ice		
RADIO 4449 B5/B12	C	From Leg	2.00	0.0000	238.00	No Ice 1.64	1.30	0.07
			0.00			1/2" 1.80	1.45	0.09
			0.00			Ice 1.97	1.60	0.11
						1" Ice 2.33	1.92	0.16
						2" Ice		
DC6-48-60-18-8F	A	From Leg	2.00	0.0000	238.00	No Ice 1.21	1.21	0.03
			0.00			1/2" 1.89	1.89	0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			0.00			Ice 2.11	2.11	0.08
						1" Ice 2.57	2.57	0.14
						2" Ice		
DC6-48-60-18-8F	C	From Leg	2.00	0.0000	238.00	No Ice 1.21	1.21	0.03
			0.00			1/2" 1.89	1.89	0.05
			0.00			Ice 2.11	2.11	0.08
						1" Ice 2.57	2.57	0.14
						2" Ice		
Sector Mount [SM 201-3]	B	None		0.0000	238.00	No Ice 24.76	24.76	1.08
						1/2" 33.89	33.89	1.52
						Ice 43.00	43.00	2.10
						1" Ice 61.44	61.44	3.64
						2" Ice		
8' x 2" Mount Pipe	A	From Leg	0.00	0.0000	238.00	No Ice 1.90	1.90	0.03
			0.00			1/2" 2.73	2.73	0.04
			0.00			Ice 3.40	3.40	0.06
						1" Ice 4.40	4.40	0.12
						2" Ice		
8' x 2" Mount Pipe	C	From Leg	0.00	0.0000	238.00	No Ice 1.90	1.90	0.03
			0.00			1/2" 2.73	2.73	0.04
			0.00			Ice 3.40	3.40	0.06
						1" Ice 4.40	4.40	0.12
						2" Ice		
* Sector Mount [SM 505-3]	B	None		0.0000	217.00	No Ice 31.66	31.66	1.73
						1/2" 44.64	44.64	2.36
						Ice 57.44	57.44	3.19
						1" Ice 82.68	82.68	5.45
						2" Ice		
LNx-8514DS-A1M w/ Mount Pipe	A	From Leg	4.00	0.0000	217.00	No Ice 5.56	4.47	0.08
			0.00			1/2" 6.07	4.97	0.17
			-3.00			Ice 6.59	5.47	0.26
						1" Ice 7.65	6.52	0.49
						2" Ice		
LNx-8514DS-A1M w/ Mount Pipe	B	From Leg	4.00	0.0000	217.00	No Ice 5.56	4.47	0.08
			0.00			1/2" 6.07	4.97	0.17
			-3.00			Ice 6.59	5.47	0.26
						1" Ice 7.65	6.52	0.49
						2" Ice		
LNx-8514DS-A1M w/ Mount Pipe	C	From Leg	4.00	0.0000	217.00	No Ice 5.56	4.47	0.08
			0.00			1/2" 6.07	4.97	0.17
			-3.00			Ice 6.59	5.47	0.26
						1" Ice 7.65	6.52	0.49
						2" Ice		
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	4.00	0.0000	217.00	No Ice 6.54	5.55	0.10
			0.00			1/2" 7.06	6.05	0.18
			-3.00			Ice 7.60	6.57	0.28
						1" Ice 8.70	7.65	0.50
						2" Ice		
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.00	0.0000	217.00	No Ice 6.54	5.55	0.10
			0.00			1/2" 7.06	6.05	0.18
			-3.00			Ice 7.60	6.57	0.28
						1" Ice 8.70	7.65	0.50
						2" Ice		
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.00	0.0000	217.00	No Ice 6.54	5.55	0.10
			0.00			1/2" 7.06	6.05	0.18
			-3.00			Ice 7.60	6.57	0.28
						1" Ice 8.70	7.65	0.50
						2" Ice		
MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	217.00	No Ice 4.91	2.68	0.10
			0.00			1/2" 5.26	3.14	0.14
			-3.00			Ice 5.61	3.62	0.18
						1" Ice 6.36	4.63	0.29
						2" Ice		
MT6407-77A w/ Mount	B	From Leg	4.00	0.0000	217.00	No Ice 4.91	2.68	0.10

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
Pipe			0.00 -3.00			1/2" Ice 1" Ice 2" Ice	5.26 3.14 5.61 3.62 6.36 4.63	0.14 0.18 0.29	
MT6407-77A w/ Mount Pipe	C	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
RFV01U-D1A	A	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
RFV01U-D1A	B	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
RFV01U-D1A	C	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
RFV01U-D2A	A	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
RFV01U-D2A	B	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
RFV01U-D2A	C	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
*									
Side Arm Mount [SO 306-1]	B	From Leg	2.00 0.00 0.00	0.0000	203.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.41 0.81 1.23 2.08	2.26 3.83 5.48 9.37	0.04 0.06 0.09 0.19
Side Arm Mount [SO 306-1]	C	From Leg	2.00 0.00 0.00	0.0000	203.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.41 0.81 1.23 2.08	2.26 3.83 5.48 9.37	0.04 0.06 0.09 0.19
OG-4	B	From Leg	4.00 0.00 6.00	0.0000	203.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.31 7.14 7.86 9.34	4.31 7.14 7.86 9.34	0.02 0.06 0.11 0.23
OG-4	C	From Leg	4.00 0.00 6.00	0.0000	203.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.31 7.14 7.86 9.34	4.31 7.14 7.86 9.34	0.02 0.06 0.11 0.23
*									
Side Arm Mount [SO 301-1]	B	From Leg	1.50 0.00 0.00	0.0000	188.00	No Ice 1/2" Ice 1" Ice	0.46 0.65 0.87 1.41	0.91 1.30 1.71 2.62	0.02 0.03 0.05 0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
DB589-A	B	From Leg	3.00 0.00 2.00	0.0000	188.00	2" Ice			
						No Ice	2.76	2.76	0.01
						1/2"	4.17	4.17	0.03
						Ice	5.59	5.59	0.06
						1" Ice	8.49	8.49	0.15
DB589-A	B	From Leg	3.00 0.00 -2.00	0.0000	188.00	2" Ice			
						No Ice	2.76	2.76	0.01
						1/2"	4.17	4.17	0.03
						Ice	5.59	5.59	0.06
						1" Ice	8.49	8.49	0.15
* MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	167.00	No Ice	8.01	4.23	0.11
						1/2"	8.52	4.69	0.19
						Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	167.00	No Ice	8.01	4.23	0.11
						1/2"	8.52	4.69	0.19
						Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	167.00	No Ice	8.01	4.23	0.11
						1/2"	8.52	4.69	0.19
						Ice	9.04	5.16	0.29
						1" Ice	10.11	6.12	0.52
						2" Ice			
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.0000	167.00	No Ice	1.96	0.98	0.06
						1/2"	2.14	1.11	0.08
						Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
						2" Ice			
TA08025-B605	A	From Leg	4.00 0.00 0.00	0.0000	167.00	No Ice	1.96	1.13	0.08
						1/2"	2.14	1.27	0.09
						Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
						2" Ice			
RDIDC-9181-PF-48	A	From Leg	4.00 0.00 0.00	0.0000	167.00	No Ice	2.01	1.17	0.02
						1/2"	2.19	1.31	0.04
						Ice	2.37	1.46	0.06
						1" Ice	2.76	1.78	0.11
						2" Ice			
Commscope_MTC397508 3_Sector_(3)	A	None		0.0000	167.00	No Ice	23.85	23.85	1.26
						1/2"	34.12	34.12	1.80
						Ice	44.39	44.39	2.35
						1" Ice	64.93	64.93	3.43
						2" Ice			
*** TY-840	B	From Face	1.00 0.00 0.00	0.0000	14.00	No Ice	0.25	0.25	0.00
						1/2"	0.45	0.45	0.00
						Ice	0.65	0.65	0.00
						1" Ice	1.05	1.05	0.01
						2" Ice			
**** RRFDC-3315-PF-48	A	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice	3.36	2.19	0.03
						1/2"	3.60	2.39	0.06
						Ice	3.84	2.61	0.09
						1" Ice	4.34	3.05	0.17
						2" Ice			
RRFDC-3315-PF-48	B	From Leg	4.00 0.00 -3.00	0.0000	217.00	No Ice	3.36	2.19	0.03
						1/2"	3.60	2.39	0.06
						Ice	3.84	2.61	0.09
						1" Ice	4.34	3.05	0.17
						2" Ice			
Miscellaneous [NA 510-2]	C	None		0.0000	217.00	No Ice	16.79	16.79	0.46

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K	
Miscellaneous [NA 507-3]	C	None		0.0000	217.00	1/2"	20.35	20.35	0.67
						Ice	23.72	23.72	0.94
						1" Ice	30.06	30.06	1.63
						2" Ice			
						No Ice	12.17	12.17	0.51
						1/2"	16.47	16.47	0.70
						Ice	20.42	20.42	0.95
						1" Ice	27.62	27.62	1.65
						2" Ice			

Load Combinations

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

Comb. No.	Description
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 Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	275.95	26.33	-14.74
	Max. H _x	18	275.95	26.33	-14.74
	Max. H _z	5	-197.37	-18.83	12.21
	Min. Vert	7	-221.41	-21.80	12.11
	Min. H _x	7	-221.41	-21.80	12.11
	Min. H _z	18	275.95	26.33	-14.74
Leg B	Max. Vert	10	272.05	-26.21	-14.24
	Max. H _x	23	-219.97	21.71	11.65
	Max. H _z	25	-203.87	19.35	12.57
	Min. Vert	23	-219.97	21.71	11.65
	Min. H _x	10	272.05	-26.21	-14.24
	Min. H _z	12	240.73	-22.26	-14.25
Leg A	Max. Vert	2	287.76	-0.07	31.67
	Max. H _x	21	16.58	2.65	1.46
	Max. H _z	2	287.76	-0.07	31.67
	Min. Vert	15	-233.98	0.04	-26.45
	Min. H _x	8	21.97	-2.67	1.93
	Min. H _z	15	-233.98	0.04	-26.45

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturing Moment, M _x kip-ft	Overturing Moment, M _z kip-ft	Torque kip-ft
Dead Only	54.64	-0.00	0.00	-3.88	17.69	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	65.57	-0.01	-50.19	-6949.11	22.79	-2.89
0.9 Dead+1.0 Wind 0 deg - No Ice	49.17	-0.01	-50.19	-6947.94	17.48	-2.89
1.2 Dead+1.0 Wind 30 deg - No Ice	65.57	23.22	-40.34	-5615.01	-3204.34	29.40
0.9 Dead+1.0 Wind 30 deg - No Ice	49.17	23.22	-40.34	-5613.85	-3209.64	29.40
1.2 Dead+1.0 Wind 60 deg - No Ice	65.57	38.50	-22.29	-3126.92	-5366.29	21.31
0.9 Dead+1.0 Wind 60 deg - No Ice	49.17	38.50	-22.29	-3125.75	-5371.59	21.31
1.2 Dead+1.0 Wind 90 deg - No Ice	65.57	42.92	0.01	-3.10	-6022.27	24.13
0.9 Dead+1.0 Wind 90 deg - No Ice	49.17	42.92	0.01	-1.94	-6027.58	24.13
1.2 Dead+1.0 Wind 120 deg - No Ice	65.57	40.69	23.56	3285.16	-5653.39	40.42
0.9 Dead+1.0 Wind 120 deg - No Ice	49.17	40.69	23.56	3286.32	-5658.70	40.42
1.2 Dead+1.0 Wind 150 deg - No Ice	65.57	23.82	41.37	5746.31	-3287.31	29.18
0.9 Dead+1.0 Wind 150 deg - No Ice	49.17	23.82	41.37	5747.47	-3292.62	29.18
1.2 Dead+1.0 Wind 180 deg - No Ice	65.57	0.01	47.08	6542.09	19.67	2.89
0.9 Dead+1.0 Wind 180 deg - No Ice	49.17	0.01	47.08	6543.25	14.37	2.89

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
- No Ice						
1.2 Dead+1.0 Wind 210 deg	65.57	-23.22	40.34	5605.69	3246.80	-29.40
- No Ice						
0.9 Dead+1.0 Wind 210 deg	49.17	-23.22	40.34	5606.86	3241.49	-29.40
- No Ice						
1.2 Dead+1.0 Wind 240 deg	65.57	-41.20	23.85	3316.45	5753.17	-21.31
- No Ice						
0.9 Dead+1.0 Wind 240 deg	49.17	-41.20	23.85	3317.62	5747.86	-21.31
- No Ice						
1.2 Dead+1.0 Wind 270 deg	65.57	-42.92	-0.01	-6.21	6064.73	-24.13
- No Ice						
0.9 Dead+1.0 Wind 270 deg	49.17	-42.92	-0.01	-5.05	6059.42	-24.13
- No Ice						
1.2 Dead+1.0 Wind 300 deg	65.57	-38.00	-22.01	-3095.63	5351.44	-40.42
- No Ice						
0.9 Dead+1.0 Wind 300 deg	49.17	-38.00	-22.01	-3094.46	5346.13	-40.42
- No Ice						
1.2 Dead+1.0 Wind 330 deg	65.57	-23.82	-41.37	-5755.62	3329.77	-29.18
- No Ice						
0.9 Dead+1.0 Wind 330 deg	49.17	-23.82	-41.37	-5754.46	3324.47	-29.18
- No Ice						
1.2 Dead+1.0 Ice+1.0 Temp	156.10	-0.00	0.00	47.16	77.76	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	156.10	-0.00	-15.89	-2138.62	77.83	-5.39
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	156.10	7.65	-13.28	-1780.83	-973.02	-4.78
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	156.10	12.73	-7.37	-975.16	-1685.10	-4.77
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	156.10	13.63	0.00	47.22	-1832.71	2.20
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	156.10	12.25	7.10	1040.34	-1634.52	10.34
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	156.10	7.29	12.67	1809.68	-935.31	8.70
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	156.10	0.00	15.42	2173.28	77.69	5.39
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	156.10	-7.65	13.28	1875.14	1128.54	4.78
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	156.10	-13.14	7.61	1099.30	1892.28	4.77
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	156.10	-13.63	-0.00	47.09	1988.23	-2.20
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	156.10	-11.84	-6.86	-916.21	1738.37	-10.34
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	156.10	-7.29	-12.67	-1715.37	1090.83	-8.70
Dead+Wind 0 deg - Service	54.64	-0.00	-13.61	-1861.09	18.10	-0.79
Dead+Wind 30 deg - Service	54.64	6.31	-10.96	-1506.03	-846.00	7.72
Dead+Wind 60 deg - Service	54.64	10.48	-6.07	-840.39	-1425.82	5.60
Dead+Wind 90 deg - Service	54.64	11.69	0.00	-3.47	-1602.43	6.36
Dead+Wind 120 deg - Service	54.64	11.06	6.40	876.72	-1501.37	10.67
Dead+Wind 150 deg - Service	54.64	6.47	11.23	1535.27	-867.84	7.71
Dead+Wind 180 deg - Service	54.64	0.00	12.79	1748.67	17.28	0.79
Dead+Wind 210 deg - Service	54.64	-6.31	10.96	1498.27	881.39	-7.72
Dead+Wind 240 deg - Service	54.64	-11.19	6.48	884.96	1551.84	-5.60
Dead+Wind 270 deg - Service	54.64	-11.69	-0.00	-4.29	1637.81	-6.36
Dead+Wind 300 deg - Service	54.64	-10.35	-5.99	-832.16	1446.12	-10.67
Dead+Wind 330 deg - Service	54.64	-6.47	-11.23	-1543.03	903.22	-7.71

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-54.64	0.00	0.00	54.64	0.00	0.000%
2	-0.01	-65.57	-50.19	0.01	65.57	50.19	0.000%
3	-0.01	-49.17	-50.19	0.01	49.17	50.19	0.000%
4	23.22	-65.57	-40.34	-23.22	65.57	40.34	0.000%
5	23.22	-49.17	-40.34	-23.22	49.17	40.34	0.000%
6	38.50	-65.57	-22.29	-38.50	65.57	22.29	0.000%
7	38.50	-49.17	-22.29	-38.50	49.17	22.29	0.000%
8	42.92	-65.57	0.01	-42.92	65.57	-0.01	0.000%
9	42.92	-49.17	0.01	-42.92	49.17	-0.01	0.000%
10	40.69	-65.57	23.56	-40.69	65.57	-23.56	0.000%
11	40.69	-49.17	23.56	-40.69	49.17	-23.56	0.000%
12	23.82	-65.57	41.37	-23.82	65.57	-41.37	0.000%
13	23.82	-49.17	41.37	-23.82	49.17	-41.37	0.000%
14	0.01	-65.57	47.08	-0.01	65.57	-47.08	0.000%
15	0.01	-49.17	47.08	-0.01	49.17	-47.08	0.000%
16	-23.22	-65.57	40.34	23.22	65.57	-40.34	0.000%
17	-23.22	-49.17	40.34	23.22	49.17	-40.34	0.000%
18	-41.20	-65.57	23.85	41.20	65.57	-23.85	0.000%
19	-41.20	-49.17	23.85	41.20	49.17	-23.85	0.000%
20	-42.92	-65.57	-0.01	42.92	65.57	0.01	0.000%
21	-42.92	-49.17	-0.01	42.92	49.17	0.01	0.000%
22	-38.00	-65.57	-22.01	38.00	65.57	22.01	0.000%
23	-38.00	-49.17	-22.01	38.00	49.17	22.01	0.000%
24	-23.82	-65.57	-41.37	23.82	65.57	41.37	0.000%
25	-23.82	-49.17	-41.37	23.82	49.17	41.37	0.000%
26	0.00	-156.10	0.00	0.00	156.10	-0.00	0.000%
27	-0.00	-156.10	-15.89	0.00	156.10	15.89	0.000%
28	7.65	-156.10	-13.28	-7.65	156.10	13.28	0.000%
29	12.73	-156.10	-7.37	-12.73	156.10	7.37	0.000%
30	13.63	-156.10	0.00	-13.63	156.10	-0.00	0.000%
31	12.25	-156.10	7.10	-12.25	156.10	-7.10	0.000%
32	7.29	-156.10	12.67	-7.29	156.10	-12.67	0.000%
33	0.00	-156.10	15.42	-0.00	156.10	-15.42	0.000%
34	-7.65	-156.10	13.28	7.65	156.10	-13.28	0.000%
35	-13.14	-156.10	7.61	13.14	156.10	-7.61	0.000%
36	-13.63	-156.10	-0.00	13.63	156.10	0.00	0.000%
37	-11.84	-156.10	-6.86	11.84	156.10	6.86	0.000%
38	-7.29	-156.10	-12.67	7.29	156.10	12.67	0.000%
39	-0.00	-54.64	-13.61	0.00	54.64	13.61	0.000%
40	6.31	-54.64	-10.96	-6.31	54.64	10.96	0.000%
41	10.48	-54.64	-6.07	-10.48	54.64	6.07	0.000%
42	11.69	-54.64	0.00	-11.69	54.64	-0.00	0.000%
43	11.06	-54.64	6.40	-11.06	54.64	-6.40	0.000%
44	6.47	-54.64	11.23	-6.47	54.64	-11.23	0.000%
45	0.00	-54.64	12.79	-0.00	54.64	-12.79	0.000%
46	-6.31	-54.64	10.96	6.31	54.64	-10.96	0.000%
47	-11.19	-54.64	6.48	11.19	54.64	-6.48	0.000%
48	-11.69	-54.64	-0.00	11.69	54.64	0.00	0.000%
49	-10.35	-54.64	-5.99	10.35	54.64	5.99	0.000%
50	-6.47	-54.64	-11.23	6.47	54.64	11.23	0.000%

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	244.917 - 224.792	5.507	39	0.2112	0.0326
T2	224.792 - 204.625	4.612	39	0.2037	0.0286
T3	204.625 - 184.438	3.759	39	0.1867	0.0233

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T4	184.438 - 164.229	2.995	39	0.1634	0.0189
T5	164.229 - 144.021	2.334	39	0.1391	0.0157
T6	144.021 - 123.813	1.766	39	0.1192	0.0132
T7	123.813 - 103.604	1.290	39	0.0973	0.0114
T8	103.604 - 83.3333	0.891	39	0.0807	0.0094
T9	83.3333 - 63	0.560	39	0.0634	0.0074
T10	63 - 42.6667	0.308	39	0.0453	0.0060
T11	42.6667 - 22.3334	0.123	39	0.0289	0.0045
T12	22.3334 - 2	0.033	39	0.0123	0.0021

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
245.00	Strobe Light	39	5.507	0.2112	0.0326	407228
242.00	Side Arm Mount [SO 303-3]	39	5.376	0.2104	0.0321	407228
238.00	OPA65R-BU6D w/ Mount Pipe	39	5.197	0.2093	0.0313	294382
217.00	Sector Mount [SM 505-3]	39	4.275	0.1982	0.0266	72801
203.00	Side Arm Mount [SO 306-1]	39	3.694	0.1850	0.0229	49699
188.00	Side Arm Mount [SO 301-1]	39	3.122	0.1677	0.0196	44150
167.00	MX08FRO665-21 w/ Mount Pipe	39	2.419	0.1421	0.0161	55063
122.00	Obstruction light	39	1.251	0.0956	0.0112	64946
14.00	TY-840	39	0.016	0.0068	0.0012	153093

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	244.917 - 224.792	20.748	2	0.7989	0.1235
T2	224.792 - 204.625	17.363	2	0.7703	0.1082
T3	204.625 - 184.438	14.140	2	0.7056	0.0881
T4	184.438 - 164.229	11.253	2	0.6163	0.0716
T5	164.229 - 144.021	8.762	2	0.5238	0.0593
T6	144.021 - 123.813	6.621	2	0.4484	0.0498
T7	123.813 - 103.604	4.831	2	0.3658	0.0428
T8	103.604 - 83.3333	3.334	2	0.3032	0.0353
T9	83.3333 - 63	2.093	2	0.2380	0.0278
T10	63 - 42.6667	1.148	2	0.1699	0.0225
T11	42.6667 - 22.3334	0.453	3	0.1082	0.0170
T12	22.3334 - 2	0.121	3	0.0459	0.0078

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
245.00	Strobe Light	2	20.748	0.7989	0.1235	115200
242.00	Side Arm Mount [SO 303-3]	2	20.253	0.7959	0.1215	115200
238.00	OPA65R-BU6D w/ Mount Pipe	2	19.576	0.7915	0.1187	83277
217.00	Sector Mount [SM 505-3]	2	16.087	0.7497	0.1006	19910
203.00	Side Arm Mount [SO 306-1]	2	13.893	0.6990	0.0865	13303
188.00	Side Arm Mount [SO 301-1]	2	11.733	0.6330	0.0741	11735
167.00	MX08FRO665-21 w/ Mount Pipe	2	9.082	0.5354	0.0608	14489
122.00	Obstruction light	2	4.686	0.3593	0.0421	17160
14.00	TY-840	3	0.058	0.0253	0.0044	40818

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	244.917	Leg	A325N	0.7500	4	2.53	30.10	0.084	1.05	Bolt Tension
		Diagonal	A325N	0.5000	1	2.54	6.20	0.410	1.05	Gusset Bearing
		Top Girt	A325N	0.5000	1	0.03	4.13	0.008	1.05	Member Bearing
T2	224.792	Leg	A325N	0.8750	4	7.29	41.56	0.175	1.05	Bolt Tension
		Diagonal	A325N	0.5000	1	3.84	6.20	0.619	1.05	Member Bearing
		Top Girt	A325N	0.5000	1	0.65	4.13	0.157	1.05	Member Bearing
T3	204.625	Leg	A325N	0.8750	4	12.92	41.56	0.311	1.05	Bolt Tension
T4	184.438	Diagonal	A325N	0.5000	1	4.19	6.20	0.677	1.05	Gusset Bearing
		Leg	A325N	1.0000	4	18.34	54.52	0.336	1.05	Bolt Tension
T5	164.229	Diagonal	A325X	0.5000	1	4.64	8.27	0.561	1.05	Gusset Bearing
		Leg	A325N	1.0000	4	23.75	54.52	0.436	1.05	Bolt Tension
T6	144.021	Diagonal	A325X	0.5000	1	5.24	10.33	0.507	1.05	Gusset Bearing
		Leg	A325N	1.0000	6	19.08	54.52	0.350	1.05	Bolt Tension
T7	123.813	Diagonal	A325X	0.6250	1	6.06	13.05	0.465	1.05	Gusset Bearing
		Leg	A325N	1.0000	6	22.51	54.52	0.413	1.05	Bolt Tension
T8	103.604	Diagonal	A325X	0.6250	1	6.48	10.44	0.620	1.05	Gusset Bearing
		Leg	A325N	1.0000	6	25.88	54.52	0.475	1.05	Bolt Tension
T9	83.3333	Diagonal	A325N	0.7500	1	6.93	14.14	0.490	1.05	Member Bearing
		Leg	A325N	1.0000	8	21.89	54.52	0.402	1.05	Bolt Tension
T10	63	Diagonal	A325N	0.7500	1	7.61	15.77	0.482	1.05	Gusset Bearing
		Leg	A325N	1.0000	8	24.83	54.52	0.455	1.05	Bolt Tension
T11	42.6667	Diagonal	A325N	0.7500	1	10.28	15.77	0.652	1.05	Gusset Bearing
		Leg	A325X	1.0000	8	25.38	54.52	0.466	1.05	Bolt Tension
T12	22.3334	Diagonal	A325X	0.7500	3	4.53	24.85	0.182	1.05	Bolt Shear
		Horizontal	A325X	0.7500	2	3.72	24.85	0.149	1.05	Bolt Shear
		Diagonal	A325X	0.7500	3	4.18	24.85	0.168	1.05	Bolt Shear
		Horizontal	A325X	0.7500	2	3.58	24.85	0.144	1.05	Bolt Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
T1	244.917 - 224.792	Pipe 2.875" x 0.203" (2.5 STD)	20.13	4.02	51.0 K=1.00	1.7040	-13.40	63.41	0.211 ¹
T2	224.792 - 204.625	Pipe 3.5" x 0.300" (3 EH)	20.20	5.05	53.3 K=1.00	3.0159	-37.33	110.22	0.339 ¹
T3	204.625 - 184.438	Pipe 4" x 0.318" (3.5 EH)	20.23	6.74	61.9 K=1.00	3.6784	-61.77	125.07	0.494 ¹
T4	184.438 - 164.229	Pipe 4.5" x 0.337" (4 EH)	20.25	6.75	54.8 K=1.00	4.4074	-87.28	159.18	0.548 ¹
T5	164.229 - 144.021	Pipe 5.563" x 0.375" (5 EH)	20.25	6.75	44.0 K=1.00	6.1120	-113.28	238.68	0.475 ¹
T6	144.021 - 123.813	Pipe 5.563" x 0.375" (5 EH)	20.25	10.12	66.1 K=1.00	6.1120	-136.24	199.91	0.681 ¹
T7	123.813 - 103.604	Pipe 6.625" x 0.432" (6 EH)	20.25	10.12	55.3 K=1.00	8.4049	-160.95	302.33	0.532 ¹
T8	103.604 - 83.3333	Pipe 6.625" x 0.432" (6 EH)	20.31	10.15	55.5 K=1.00	8.4049	-185.63	301.91	0.615 ¹
T9	83.3333 - 63	Pipe 6.625" x 0.432" (6 EH)	20.37	10.19	55.7 K=1.00	8.4049	-210.59	301.49	0.698 ¹
T10	63 - 42.6667	Pipe 8.625" x 0.375" (8 EHS)	20.35	10.18	41.8 K=1.00	9.7193	-239.59	384.87	0.623 ¹
T11	42.6667 - 22.3334	Pipe 8.625" x 0.375" (8 EHS)	20.38	9.98	41.0 K=1.00	9.7193	-247.21	386.71	0.639 ¹
T12	22.3334 - 2	Pipe 8.75" x 0.500" (8 EH)	20.38	9.98	41.0 K=1.00	12.959 1	-269.05	515.72	0.522 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
T1	244.917 - 224.792	L 1.75 x 1.75 x 3/16	7.70	3.60	125.9 K=1.00	0.6211	-2.64	11.21	0.236 ¹
T2	224.792 - 204.625	L 1.75 x 1.75 x 3/16	9.83	4.80	167.7 K=1.00	0.6211	-3.57	6.32	0.565 ¹
T3	204.625 - 184.438	L 2.5 x 2.5 x 3/16	12.47	6.15	149.0 K=1.00	0.9020	-4.24	11.63	0.365 ¹
T4	184.438 - 164.229	L 2.5 x 2.5 x 1/4	14.33	7.05	172.3 K=1.00	1.1900	-4.76	11.47	0.415 ¹
T5	164.229 - 144.021	L 2.5 x 2.5 x 5/16	16.25	7.95	195.2 K=1.00	1.4600	-5.23	10.97	0.477 ¹
T6	144.021 - 123.813	L 3 x 3 x 5/16	19.57	9.69	197.5 K=1.00	1.7800	-6.11	13.06	0.468 ¹
T7	123.813 - 103.604	L 3.5 x 3.5 x 1/4	21.44	10.59	183.1 K=1.00	1.6900	-6.64	14.42	0.461 ¹
T8	103.604 - 83.3333	L 3.5 x 3.5 x 1/4	23.37	11.54	199.5 K=1.00	1.6900	-7.13	12.15	0.587 ¹
T9	83.3333 - 63	L 4 x 4 x 5/16	25.33	12.52	190.0 K=1.00	2.4000	-7.76	19.03	0.408 ¹
T10	63 - 42.6667	L 4 x 4 x 5/16	26.82	13.08	198.4 K=1.00	2.4000	-11.06	17.44	0.634 ¹
T11	42.6667 - 22.3334	Pipe 3.5" x 0.216" (3 STD)	24.26	12.13	125.1 K=1.00	2.2285	-13.60	32.16	0.423 ¹
T12	22.3334 - 2	Pipe 3.5" x 0.216" (3 STD)	25.00	12.50	128.9 K=1.00	2.2285	-12.54	30.30	0.414 ¹

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Pipe 2.875" x 0.203" (2.5 STD)	25.23	12.25	155.2 K=1.00	1.7040	-7.43	15.98	0.465 ¹
T12	22.3334 - 2	Pipe 3.5" x 0.216" (3 STD)	27.73	13.50	139.2 K=1.00	2.2285	-7.16	25.97	0.275 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	244.917 - 224.792	L 2 x 2 x 1/8	6.56	6.11	184.6 K=1.00	0.4844	-0.03	4.07	0.008 ¹
T2	224.792 - 204.625	L 2 x 2 x 1/8	6.56	6.06	183.0 K=1.00	0.4844	-0.65	4.14	0.156 ¹

¹ P_u / φP_n controls

Redundant Horizontal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Rohn 1.5" x 11 ga	6.31	5.95	145.7 K=1.00	0.5202	-4.32	5.53	0.781 ¹
T12	22.3334 - 2	Pipe 1.9" x 0.145" (1.5 STD)	6.93	6.57	126.6 K=1.00	0.7995	-4.68	11.27	0.415 ¹

¹ P_u / φP_n controls

Redundant Diagonal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Pipe 1.9" x 0.145" (1.5 STD)	11.48	10.75	207.3 K=1.00	0.7995	-3.93	4.20	0.936 ¹
T12	22.3334 - 2	Rohn 2.25" x 14 ga	11.80	11.12	174.0 K=1.00	0.5651	-3.99	4.21	0.946 ¹

¹ P_u / φP_n controls

Redundant Hip (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 -	Rohn 1.5" x 11 ga	6.31	6.31	154.5	0.5202	-0.02	4.92	0.005 ¹

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T12	22.3334 - 22.3334	Pipe 1.9" x 0.145" (1.5 STD)	6.93	6.93	K=1.00 133.6 K=1.00	0.7995	-0.02	10.12	0.002 ¹

¹ P_u / φP_n controls

Redundant Hip Diagonal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Pipe 2.875" x 0.203" (2.5 STD)	15.06	15.06	190.7 K=1.00	1.7040	-0.08	10.58	0.008 ¹
T12	22.3334 - 2	Pipe 2.875" x 0.203" (2.5 STD)	15.88	15.88	201.2 K=1.00	1.7040	-0.08	9.51	0.008 ¹

¹ P_u / φP_n controls

Inner Bracing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Pipe 2.375" x 0.154" (2 STD)	12.61	12.61	192.3 K=1.00	1.0745	-0.01	6.56	0.002 ¹
T12	22.3334 - 2	Pipe 3.5" x 0.216" (3 STD)	13.86	13.86	143.0 K=1.00	2.2285	-0.02	24.63	0.001 ¹

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	244.917 - 224.792	Pipe 2.875" x 0.203" (2.5 STD)	20.13	4.02	51.0	1.7040	10.11	76.68	0.132 ¹
T2	224.792 - 204.625	Pipe 3.5" x 0.300" (3 EH)	20.20	5.05	53.3	3.0159	29.17	135.72	0.215 ¹
T3	204.625 - 184.438	Pipe 4" x 0.318" (3.5 EH)	20.23	6.74	61.9	3.6784	51.67	165.53	0.312 ¹
T4	184.438 - 164.229	Pipe 4.5" x 0.337" (4 EH)	20.25	6.75	54.8	4.4074	73.34	198.34	0.370 ¹
T5	164.229 - 144.021	Pipe 5.563" x 0.375" (5 EH)	20.25	6.75	44.0	6.1120	95.00	275.04	0.345 ¹
T6	144.021 - 123.813	Pipe 5.563" x 0.375" (5 EH)	20.25	10.12	66.1	6.1120	114.50	275.04	0.416 ¹
T7	123.813 - 103.604	Pipe 6.625" x 0.432" (6 EH)	20.25	10.12	55.3	8.4049	135.05	378.22	0.357 ¹
T8	103.604 - 83.3333	Pipe 6.625" x 0.432" (6 EH)	20.31	10.15	55.5	8.4049	155.29	378.22	0.411 ¹

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
T9	83.3333 - 63	Pipe 6.625" x 0.432" (6 EH)	20.37	10.19	55.7	8.4049	175.16	378.22	0.463 ¹
T10	63 - 42.6667	Pipe 8.625" x 0.375" (8 EHS)	20.35	10.18	41.8	9.7193	198.61	437.37	0.454 ¹
T11	42.6667 - 22.3334	Pipe 8.625" x 0.375" (8 EHS)	20.38	0.42	1.7	9.7193	206.33	437.37	0.472 ¹
T12	22.3334 - 2	Pipe 8.75" x 0.500" (8 EH)	20.38	0.42	1.7	12.959 1	221.60	583.16	0.380 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
T1	244.917 - 224.792	L 1.75 x 1.75 x 3/16	7.70	3.60	82.9	0.3779	2.54	16.44	0.155 ¹
T2	224.792 - 204.625	L 1.75 x 1.75 x 3/16	9.38	4.57	104.5	0.3779	3.84	16.44	0.233 ¹
T3	204.625 - 184.438	L 2.5 x 2.5 x 3/16	12.47	6.15	96.4	0.5886	4.19	25.60	0.164 ¹
T4	184.438 - 164.229	L 2.5 x 2.5 x 1/4	14.33	7.05	111.6	0.7753	4.64	33.73	0.138 ¹
T5	164.229 - 144.021	L 2.5 x 2.5 x 5/16	16.25	7.95	127.2	0.9485	5.24	41.26	0.127 ¹
T6	144.021 - 123.813	L 3 x 3 x 5/16	19.57	9.69	127.9	1.1592	6.06	50.43	0.120 ¹
T7	123.813 - 103.604	L 3.5 x 3.5 x 1/4	21.44	10.59	117.9	1.1269	6.48	54.94	0.118 ¹
T8	103.604 - 83.3333	L 3.5 x 3.5 x 1/4	23.37	11.54	128.5	1.1034	6.93	53.79	0.129 ¹
T9	83.3333 - 63	L 4 x 4 x 5/16	25.33	12.52	122.5	1.5949	7.61	77.75	0.098 ¹
T10	63 - 42.6667	L 4 x 4 x 5/16	26.15	12.75	124.7	1.5949	10.28	77.75	0.132 ¹
T11	42.6667 - 22.3334	Pipe 3.5" x 0.216" (3 STD)	24.26	12.13	125.1	2.2285	11.91	100.28	0.119 ¹
T12	22.3334 - 2	Pipe 3.5" x 0.216" (3 STD)	25.00	12.50	128.9	2.2285	11.04	100.28	0.110 ¹

¹ P_u / φP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
T11	42.6667 - 22.3334	Pipe 2.875" x 0.203" (2.5 STD)	25.23	12.25	155.2	1.7040	6.69	76.68	0.087 ¹
T12	22.3334 - 2	Pipe 3.5" x 0.216" (3 STD)	27.73	13.50	139.2	2.2285	6.60	100.28	0.066 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	244.917 - 224.792	L 2 x 2 x 1/8	6.56	6.11	121.2	0.3047	0.03	13.25	0.003 ¹
T2	224.792 - 204.625	L 2 x 2 x 1/8	6.56	6.06	120.2	0.3047	0.65	13.25	0.049 ¹

¹ P_u / φP_n controls

Redundant Horizontal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Rohn 1.5" x 11 ga	6.31	5.95	145.7	0.5202	4.32	23.41	0.185 ¹
T12	22.3334 - 2	Pipe 1.9" x 0.145" (1.5 STD)	6.93	6.57	126.6	0.7995	4.68	35.98	0.130 ¹

¹ P_u / φP_n controls

Redundant Diagonal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Pipe 1.9" x 0.145" (1.5 STD)	11.48	10.75	207.3	0.7995	3.93	35.98	0.109 ¹
T12	22.3334 - 2	Rohn 2.25" x 14 ga	11.80	11.12	174.0	0.5651	3.99	25.43	0.157 ¹

¹ P_u / φP_n controls

Redundant Hip (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Rohn 1.5" x 11 ga	6.31	6.31	154.5	0.5202	0.01	23.41	0.001 ¹
T12	22.3334 - 2	Pipe 1.9" x 0.145" (1.5 STD)	6.93	6.93	133.6	0.7995	0.01	35.98	0.000 ¹

¹ P_u / φP_n controls

Redundant Hip Diagonal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T11	42.6667 - 22.3334	Pipe 2.875" x 0.203" (2.5 STD)	15.06	15.06	190.7	1.7040	0.07	76.68	0.001 ¹
T12	22.3334 - 2	Pipe 2.875" x 0.203" (2.5 STD)	15.88	15.88	201.2	1.7040	0.07	76.68	0.001 ¹

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
STD)									

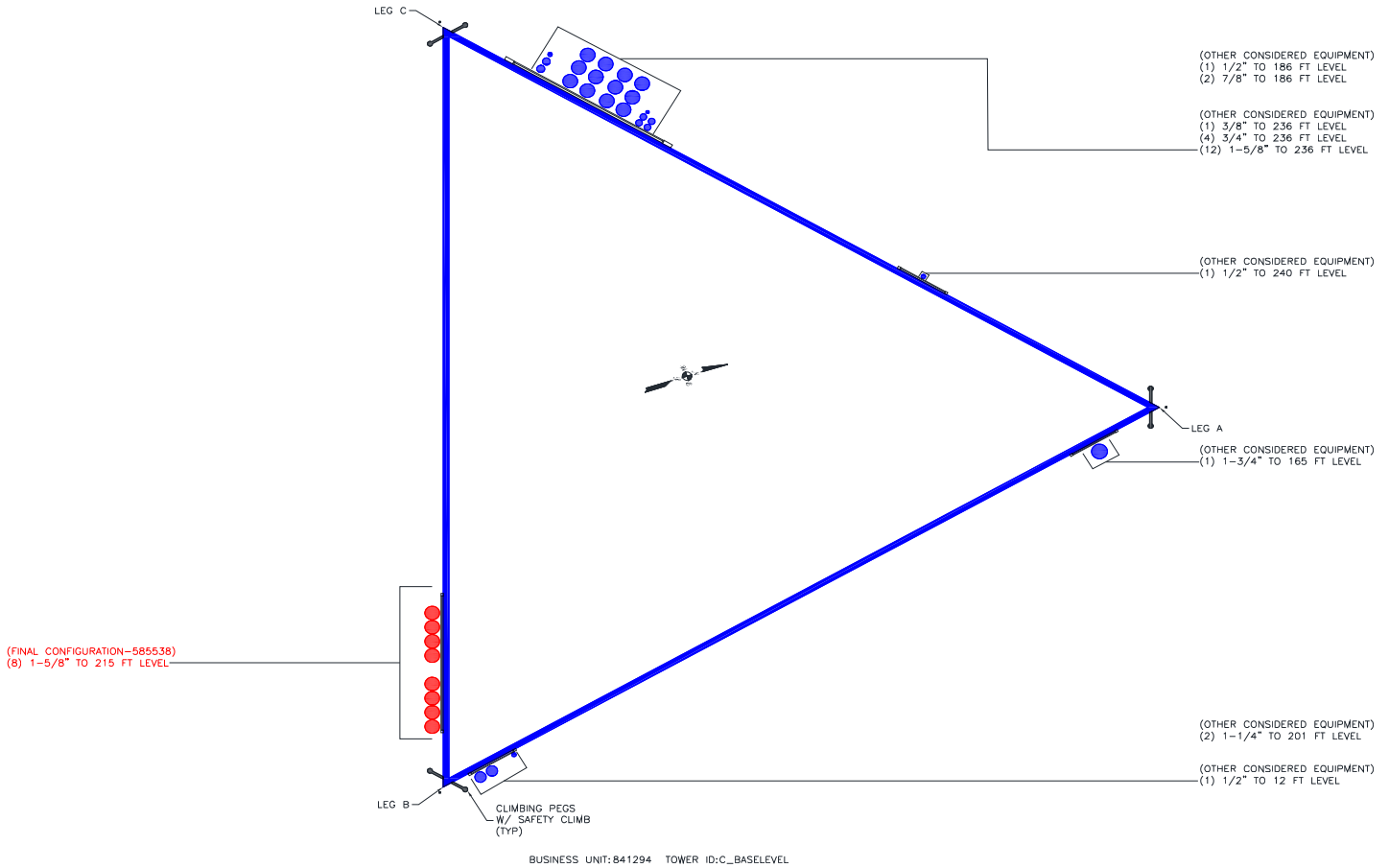
¹ $P_u / \phi P_n$ controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	244.917 - 224.792	Leg	Pipe 2.875" x 0.203" (2.5 STD)	1	-13.40	66.58	20.1	Pass
T2	224.792 - 204.625	Leg	Pipe 3.5" x 0.300" (3 EH)	37	-37.33	115.74	32.3	Pass
T3	204.625 - 184.438	Leg	Pipe 4" x 0.318" (3.5 EH)	69	-61.77	131.32	47.0	Pass
T4	184.438 - 164.229	Leg	Pipe 4.5" x 0.337" (4 EH)	90	-87.28	167.14	52.2	Pass
T5	164.229 - 144.021	Leg	Pipe 5.563" x 0.375" (5 EH)	111	-113.28	250.61	45.2	Pass
T6	144.021 - 123.813	Leg	Pipe 5.563" x 0.375" (5 EH)	132	-136.24	209.91	64.9	Pass
T7	123.813 - 103.604	Leg	Pipe 6.625" x 0.432" (6 EH)	147	-160.95	317.44	50.7	Pass
T8	103.604 - 83.3333	Leg	Pipe 6.625" x 0.432" (6 EH)	162	-185.63	317.01	58.6	Pass
T9	83.3333 - 63	Leg	Pipe 6.625" x 0.432" (6 EH)	177	-210.59	316.57	66.5	Pass
T10	63 - 42.6667	Leg	Pipe 8.625" x 0.375" (8 EHS)	192	-239.59	404.12	59.3	Pass
T11	42.6667 - 22.3334	Leg	Pipe 8.625" x 0.375" (8 EHS)	207	-247.21	406.05	60.9	Pass
T12	22.3334 - 2	Leg	Pipe 8.75" x 0.500" (8 EH)	240	-269.05	541.51	49.7	Pass
T1	244.917 - 224.792	Diagonal	L 1.75 x 1.75 x 3/16	11	-2.64	11.77	22.5	Pass
T2	224.792 - 204.625	Diagonal	L 1.75 x 1.75 x 3/16	47	-3.57	6.64	53.8	Pass
T3	204.625 - 184.438	Diagonal	L 2.5 x 2.5 x 3/16	71	-4.24	12.21	34.8	Pass
T4	184.438 - 164.229	Diagonal	L 2.5 x 2.5 x 1/4	92	-4.76	12.04	39.6	Pass
T5	164.229 - 144.021	Diagonal	L 2.5 x 2.5 x 5/16	113	-5.23	11.51	45.5	Pass
T6	144.021 - 123.813	Diagonal	L 3 x 3 x 5/16	134	-6.11	13.72	44.6	Pass
T7	123.813 - 103.604	Diagonal	L 3.5 x 3.5 x 1/4	149	-6.64	15.14	43.9	Pass
T8	103.604 - 83.3333	Diagonal	L 3.5 x 3.5 x 1/4	164	-7.13	12.76	55.9	Pass
T9	83.3333 - 63	Diagonal	L 4 x 4 x 5/16	179	-7.76	19.99	38.8	Pass
T10	63 - 42.6667	Diagonal	L 4 x 4 x 5/16	194	-11.06	18.32	60.4	Pass
T11	42.6667 - 22.3334	Diagonal	Pipe 3.5" x 0.216" (3 STD)	212	-13.60	33.77	40.3	Pass
T12	22.3334 - 2	Diagonal	Pipe 3.5" x 0.216" (3 STD)	245	-12.54	31.82	39.4	Pass
T11	42.6667 - 22.3334	Horizontal	Pipe 2.875" x 0.203" (2.5 STD)	208	-7.43	16.78	44.3	Pass
T12	22.3334 - 2	Horizontal	Pipe 3.5" x 0.216" (3 STD)	241	-7.16	27.27	26.2	Pass
T1	244.917 - 224.792	Top Girt	L 2 x 2 x 1/8	4	-0.03	4.27	0.7	Pass
T2	224.792 - 204.625	Top Girt	L 2 x 2 x 1/8	42	-0.65	4.35	14.9	Pass
T11	42.6667 - 22.3334	Redund Horz 1 Bracing	Rohn 1.5" x 11 ga	220	-4.32	5.81	74.4	Pass
T12	22.3334 - 2	Redund Horz 1 Bracing	Pipe 1.9" x 0.145" (1.5 STD)	253	-4.68	11.84	39.6	Pass
T11	42.6667 - 22.3334	Redund Diag 1 Bracing	Pipe 1.9" x 0.145" (1.5 STD)	227	-3.93	4.41	89.1	Pass
T12	22.3334 - 2	Redund Diag 1	Rohn 2.25" x 14 ga	254	-3.99	4.42	90.1	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow} / K$	% Capacity	Pass Fail	
T11	42.6667 - 22.3334	Bracing Redund Hip 1	Rohn 1.5" x 11 ga	233	-0.02	5.17	0.5	Pass	
T12	22.3334 - 2	Bracing Redund Hip 1	Pipe 1.9" x 0.145" (1.5 STD)	264	-0.02	10.62	0.2	Pass	
T11	42.6667 - 22.3334	Redund Hip Diagonal 1 Bracing	Pipe 2.875" x 0.203" (2.5 STD)	232	-0.08	11.11	0.7	Pass	
T12	22.3334 - 2	Redund Hip Diagonal 1 Bracing	Pipe 2.875" x 0.203" (2.5 STD)	265	-0.08	9.99	0.8	Pass	
T11	42.6667 - 22.3334	Inner Bracing	Pipe 2.375" x 0.154" (2 STD)	235	-0.01	6.89	0.5	Pass	
T12	22.3334 - 2	Inner Bracing	Pipe 3.5" x 0.216" (3 STD)	268	-0.02	25.86	0.4	Pass	
							Summary		
							Leg (T9)	66.5	Pass
							Diagonal (T10)	60.4	Pass
							Horizontal (T11)	44.3	Pass
							Top Girt (T2)	14.9	Pass
							Redund Horz 1 Bracing (T11)	74.4	Pass
							Redund Diag 1 Bracing (T12)	90.1	Pass
							Redund Hip 1 Bracing (T11)	0.5	Pass
							Redund Hip	0.8	Pass
							Diagonal 1 Bracing (T12)		
							Inner Bracing (T11)	0.5	Pass
							Bolt Checks	64.4	Pass
							RATING =	90.1	Pass

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Self Support Anchor Rod Capacity



BU #	841294
Site Name	Monroe Guinea Road
Order #	591226 Rev. 0

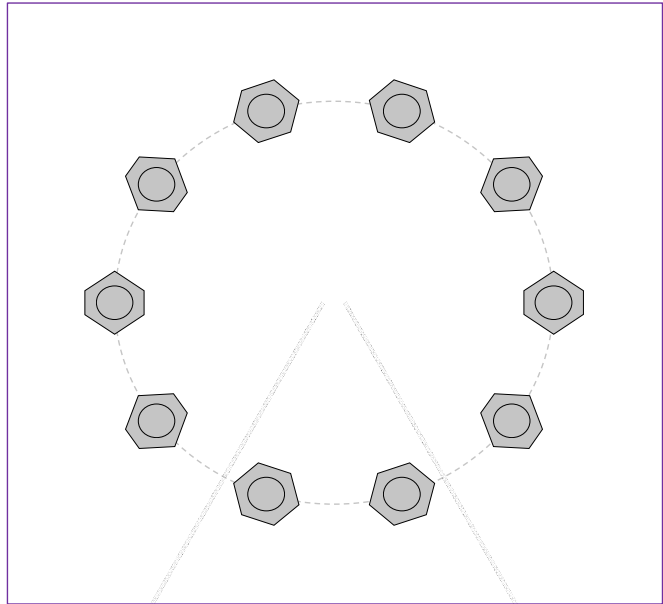
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	0.75

	Comp.	Uplift
Axial Force (kips)	288.00	234.00
Shear Force (kips)	32.00	26.00

*TIA-222-H Section 15.5 Applied

Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

*Anchor Rod Eccentricity Applied



Anchor Rod Data

(10) 1" \emptyset bolts (A354-BC N; $F_y=109$ ksi, $F_u=125$ ksi)
 l_{ar} (in): 0.75

Anchor Rod Summary

(units of kips, kip-in)

$P_{u,t} = 23.4$	$\phi P_{n,t} = 56.81$	Stress Rating
$V_u = 2.6$	$\phi V_n = 36.82$	39.2%
$M_u = n/a$	$\phi M_n = n/a$	Pass

Drilled Pier Foundation

BU # :	841294
Site Name:	Monroe-Guinea Rd
Order Number:	591226 Rev. 0
TIA-222 Revison:	H
Tower Type:	Self Support

Report File: _____



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

[Go to Soil Calculations](#)

	Comp.	Uplift
Moment (kip-ft)		
Axial Force (kips)	288	234
Shear Force (kips)	32	26

Concrete Strength, f _c :	3	ksi
Rebar Strength, F _y :	60	ksi
Tie Yield Strength, F _{yt} :	40	ksi

Depth	20	ft
Ext. Above Grade	2	ft
Pier Section 1		
<i>From 2' above grade to 20' below grade</i>		
Pier Diameter	3.5	ft
Rebar Quantity	12	
Rebar Size	9	
Clear Cover to Ties	5.5	in
Tie Size	3	
Tie Spacing	18	in

[Rebar & Pier Options](#)

[Embedded Pole Inputs](#)

[Belled Pier Inputs](#)

Soil Lateral Check	Compression	Uplift
D _{to0} (ft from TOC)	11.46	11.46
Soil Safety Factor	24.76	30.48
Max Moment (kip-ft)	313.93	255.07
Rating*	5.1%	4.2%

Soil Vertical Check	Compression	Uplift
Skin Friction (kips)	669.22	446.15
End Bearing (kips)	453.08	-
Weight of Concrete (kips)	38.10	28.57
Total Capacity (kips)	1122.30	474.72
Axial (kips)	326.10	234.00
Rating*	27.7%	46.9%

Reinforced Concrete Flexure	Compression	Uplift
Critical Depth (ft from TOC)	11.75	10.74
Critical Moment (kip-ft)	313.46	252.64
Critical Moment Capacity	1018.55	630.41
Rating*	29.3%	38.2%

Reinforced Concrete Shear	Compression	Uplift
Critical Depth (ft from TOC)	16.73	16.73
Critical Shear (kip)	59.58	48.41
Critical Shear Capacity	205.29	98.92
Rating*	27.6%	46.6%

Structural Foundation Rating*	46.6%
Soil Interaction Rating*	46.9%

*Rating per TIA-222-H Section 15.5

Groundwater Depth	N/A	# of Layers	4
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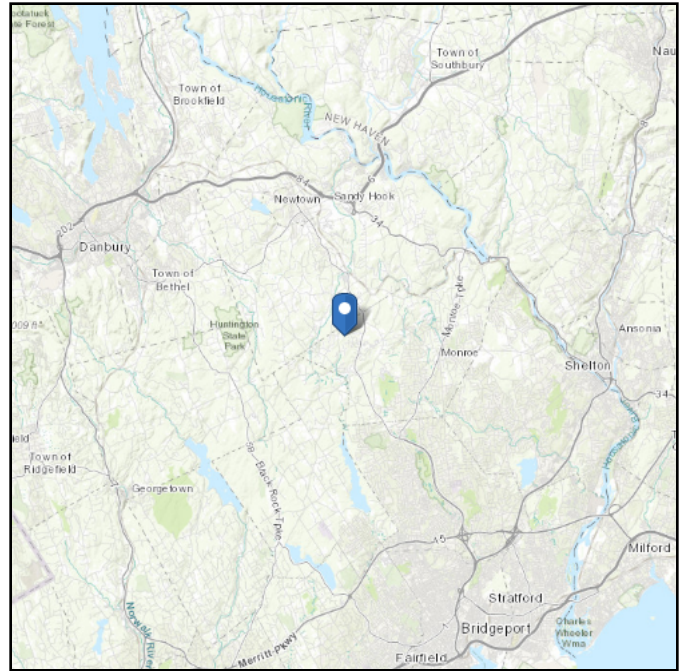
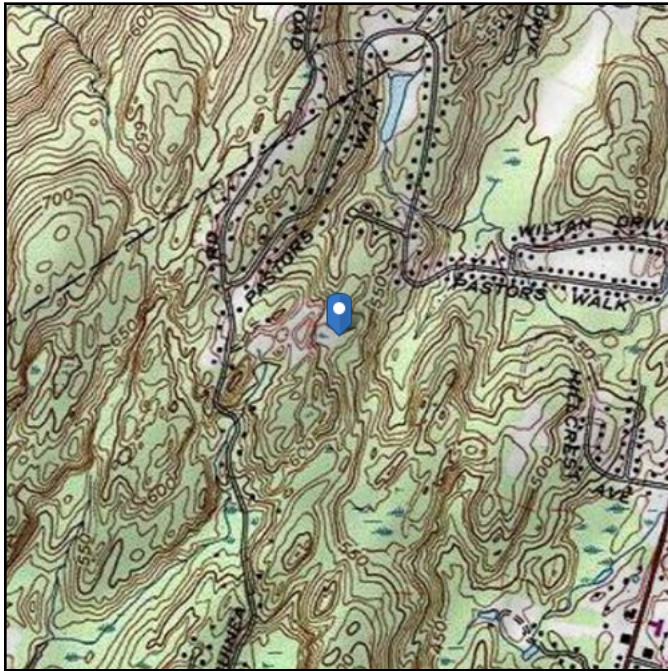
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ _{soil} (pcf)	γ _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Net Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	1.75	1.75	120	150		0	0.000	0.000	0.00	0.00			Cohesionless
2	1.75	3.5	1.75	120	150		34	0.000	0.000	0.60	0.40			Cohesionless
3	3.5	7	3.5	120	150		34	0.000	0.000	0.60	0.40			Cohesionless
4	7	20	13	150	150	10		4.500	4.500	6.00	4.00	60		Cohesive

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 583.08 ft (NAVD 88)
Latitude: 41.341856
Longitude: -73.274522



Wind

Results:

Wind Speed:	120 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

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

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

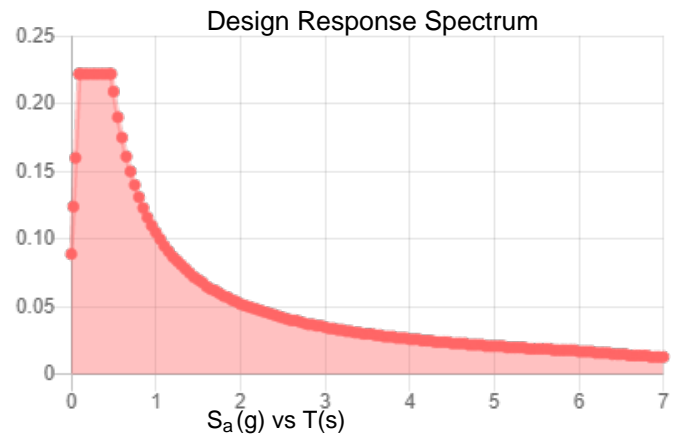
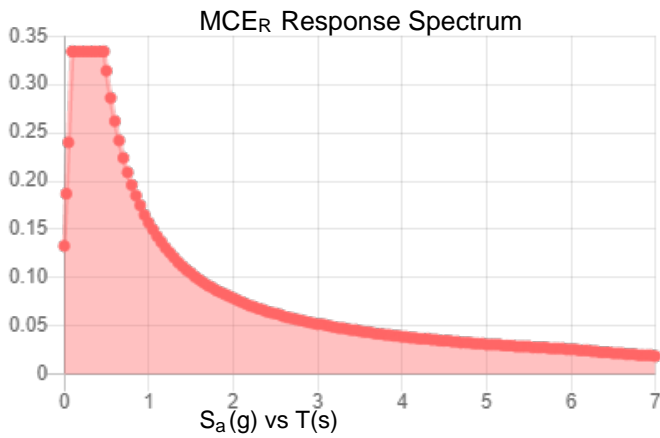
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.209	S_{DS} :	0.222
S_1 :	0.065	S_{D1} :	0.105
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.113
S_{MS} :	0.334	PGA _M :	0.177
S_{M1} :	0.157	F _{PGA} :	1.575
		I_e :	1

Seismic Design Category B



Data Accessed:

Tue Aug 31 2021

Date Source:

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

Ice

Results:

Ice Thickness: 0.75 in.
Concurrent Temperature: 15 F
Gust Speed: 50 mph

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

Date Accessed: Tue Aug 31 2021

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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Exhibit E

Mount Analysis



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

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10121058
Maser Consulting Connecticut Project #: 21777988A (Rev. 2)

December 10, 2021

Site Information

Site ID: 467875-VZW / MONROE CT
Site Name: MONROE CT
Carrier Name: Verizon Wireless
Address: 226 Guinea Rd.
Monroe, Connecticut 06468
Fairfield County
Latitude: 41.341856°
Longitude: -73.274522°

Structure Information

Tower Type: 240-Ft Self Support
Mount Type: 15.00-Ft Sector Frame

FUZE ID # 16272183

Analysis Results

Sector Frame: 70.7% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

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

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements may also be Noted on A & E drawings

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Nathan LaPorte



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
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 324390, dated October 6, 2021</i>
<i>Mount Mapping Report</i>	<i>Hudson Design Group, LLC. Site ID: 467875, dated June 2, 2021</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting Project #: 21777988A (Rev. 1), dated September 21, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 117 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.979
Seismic Parameters:	S_s : 0.21 g S_1 : 0.06 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
211.00	212.00	3	Samsung	MT6407-77A	Added
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		1	Raycap	RVZDC-6627-PF-48	Retained
		3	Andrew	LNx-8514DS-VTM	
		6	Commscope	JAHH-65B-R3B	

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to 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:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o 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
Tie Back	12.2%	Pass
Antenna Pipe	25.5%	Pass
Standoff Diagonal	15.2%	Pass
Standoff Bar	70.7%	Pass
Standoff Vertical	32.1%	Pass
Standoff Horizontal	16.5%	Pass
Face Horizontal	15.5%	Pass
Mount Connection	32.9%	Pass
Structure Rating – (Controlling Utilization of all Components)		70.7%

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	23.9	17.9	33.5	27.6
0.5	33.7	26.7	47.7	39.6
1	43.1	34.4	61.3	51.0

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector(s).
- Ka factors included in (EPA)a calculations

Recommendation:

The existing mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.

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. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage

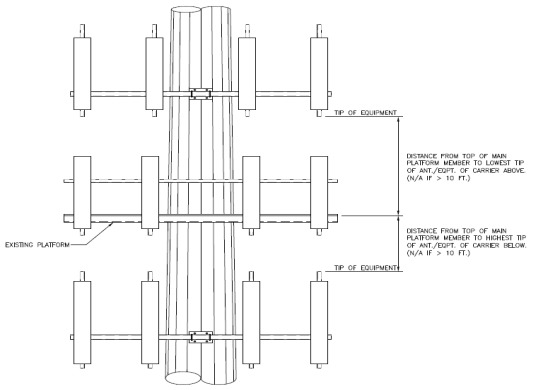


Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B										
Sector A:	50.00	Deg	Leg A:	15.00	Deg	Ant _{1a}	UHIE,B66A RRH 4X45	12.00	7.00	25.00		222.432	20.00	-7.00		4,70
Sector B:	170.00	Deg	Leg B:	135.00	Deg	Ant _{1b}										
Sector C:	290.00	Deg	Leg C:	255.00	Deg	Ant _{1c}										
Sector D:		Deg	Leg D:		Deg	Ant _{2a}										

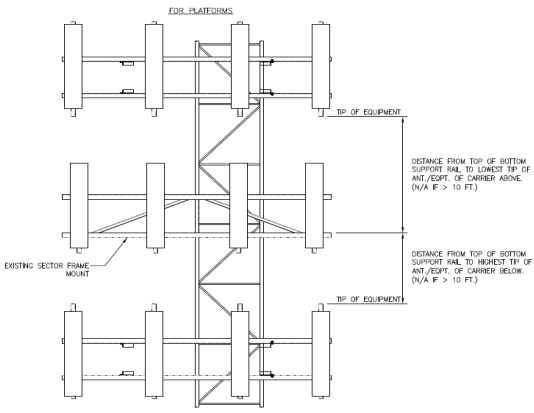
Climbing Facility Information		
Location:	15.00	Deg
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.

Ant _{2b}	(2) JAHH-65B-R3B	14.00	9.00	72.00		220.015	37.00	14.00	165.00	4,72
Ant _{2c}										
Ant _{3a}	B13 RRH 4X30	12.00	7.00	20.50		221.973	5.00	-7.00		4,72
Ant _{3b}										
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	HBXX6517DS-A2M	12.00	6.50	75.00		219.765	25.00	10.00	165.00	5,73
Ant _{4c}										
Ant _{5a}										
Ant _{5b}	UNKNOWN	12.00	7.50	96.00		219.765	25.00	7.00	165.00	5,74
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Please insert a photo of the mount centerline measurement here.

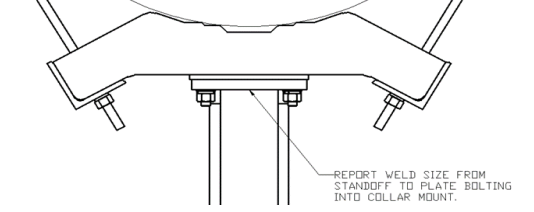


Sector C											
Ant _{1a}	UHIE,B66A RRH 4X45	12.00	7.00	25.00		222.432	20.00	-7.00		6,78	
Ant _{1b}											
Ant _{1c}											
Ant _{2a}											
Ant _{2b}	(2) JAHH-65B-R3B	14.00	9.00	72.00		220.015	37.00	14.00	275.00	6,78	
Ant _{2c}											
Ant _{3a}	B13 RRH 4X30	12.00	7.00	20.50		221.973	5.00	-7.00		6,79	
Ant _{3b}											
Ant _{3c}											
Ant _{4a}											
Ant _{4b}	HBXX6517DS-A2M	12.00	6.50	75.00		219.765	25.00	10.00	275.00	7,79	
Ant _{4c}											
Ant _{5a}											
Ant _{5b}	UNKNOWN	12.00	7.50	96.00		219.765	25.00	7.00	275.00	7,80	
Ant _{5c}											
Ant on Standoff											
Ant on Standoff											
Ant on Tower											
Ant on Tower											



Sector D											
Ant _{1a}											
Ant _{1b}											
Ant _{1c}											
Ant _{2a}											
Ant _{2b}											
Ant _{2c}											
Ant _{3a}											
Ant _{3b}											
Ant _{3c}											
Ant _{4a}											
Ant _{4b}											
Ant _{4c}											
Ant _{5a}											
Ant _{5b}											
Ant _{5c}											
Ant on Standoff											
Ant on Standoff											
Ant on Tower											
Ant on Tower											

For T-Arms/Platforms on monopoles, record the weld size from the main standoff member to the plate bolting into the collar. See below for reference.



Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System

If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.		Photo #
Description of Obstruction:		
Type of Light:	Photo #	Additional Comments:
Lighting Technology:	Photo #	
Elevation (AGL) at base of light (Ft.):	Photo #	
Is a service loop available?	Photo #	
Is beacon installed on an extension?	Photo #	

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1044917

Tower Owner:	ATT	Mapping Date:	6/2/2021
Site Name:	MONROE CT	Tower Type:	Self Support
Site Number or ID:	467875	Tower Height (Ft.):	240
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	218.89

This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

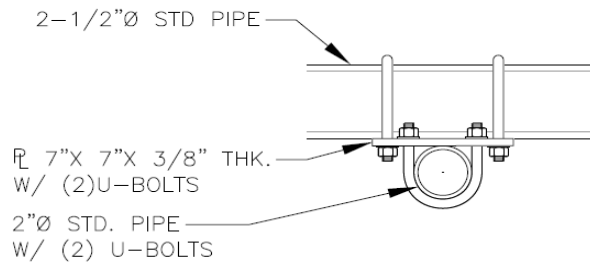
Please Insert Sketches of the Antenna Mount

DATE: 6-02-21
 Project Name: MONROE CT
 Project No.: _____
 Design By: PETER Chk'd By: _____ Page 1 of 1

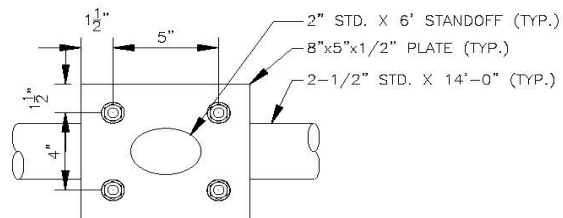
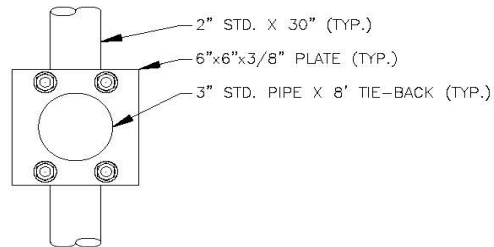
45 BEECHWOOD DRIVE
 NORTH ANDOVER, MA 01845
 TEL: (978) 557-5553
 FAX: (978) 336-5584

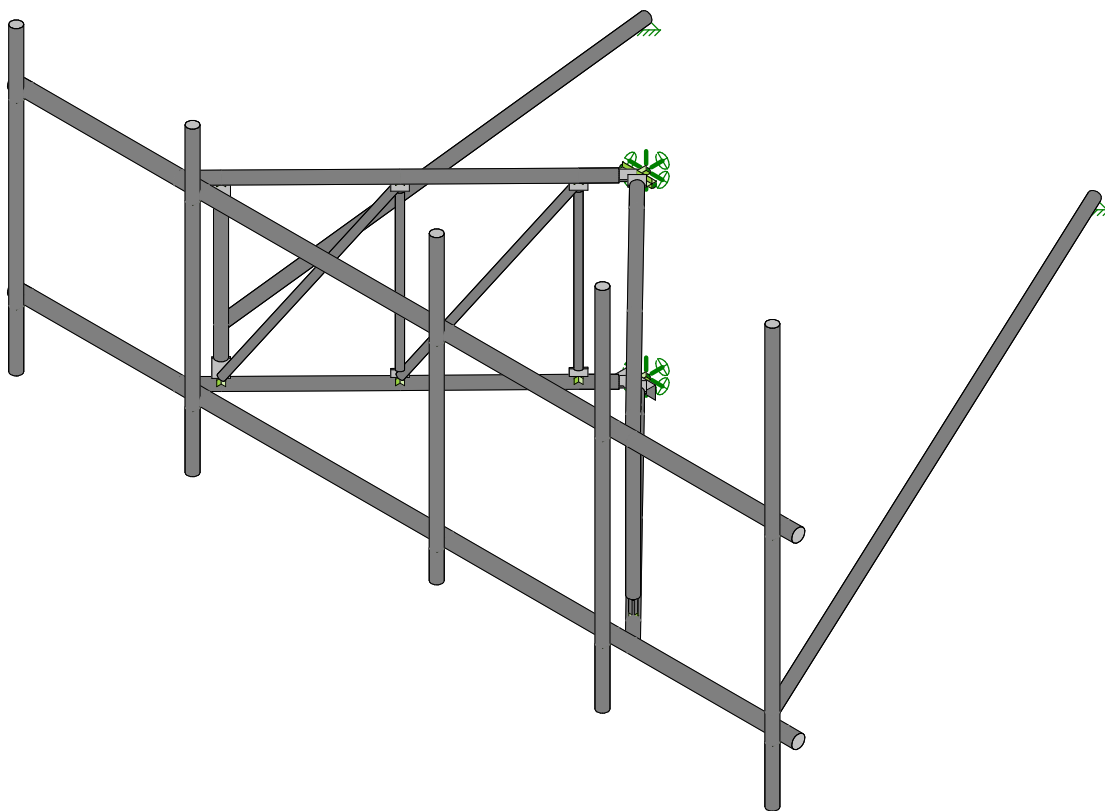
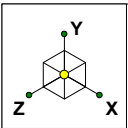
Mount CL: 218' 11"
 Ant Pipes: 2 3/8"
 Face Pipes: 2 3/8" x 15'
 O-Bolts: 1/2"
 Plates: 5" x 8" x 3/8"
 S/o Pipe: 2 3/8"
 S/o outer support: 2 3/8" w/ 6" x 3/8" x 1/4"
 S/o supports: 2 3/8"
 S/o Paddles: 6" x 3 1/2" x 5/16"
 Bolt: 3/4"
 L: 4" x 5 7/8" x 6 3/4" x 5/16"
 O-Bolt: 1/2"
 Twr Lea: 3 1/2"
 Twr Face: 7"

#1 UHI E, B66a RRH 4x45
 #2 (2) JAHH-65B-R3B
 #3 B13 RRH 4x30
 #4 HBXX6517DS-A2M
 #5 12'-7 1/2"-96"
 ① ovp on B leg



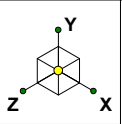
ANTENNA PIPE MAST MOUNT CONNECTION



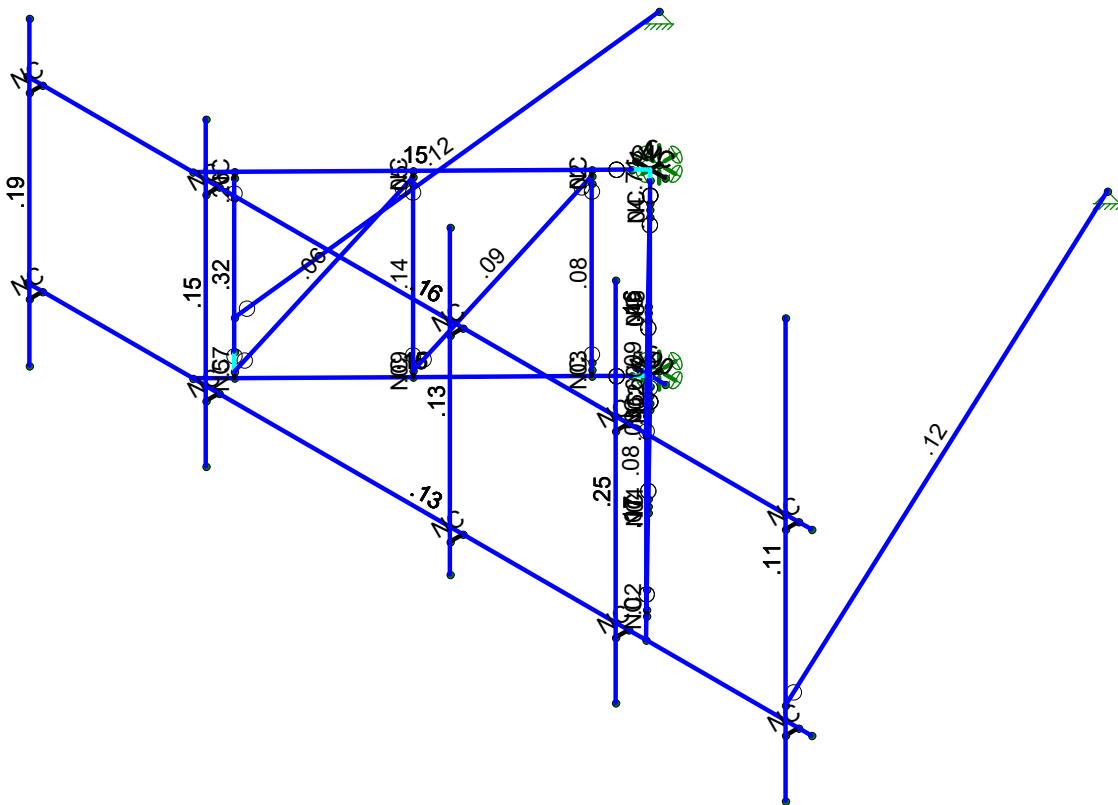


Envelope Only Solution

Maser Consulting	Mount ReAnalysis	SK - 1
NL		Dec 10, 2021 at 7:44 AM
21777988A		467875-VZW_MT_LOT_A_H.r3d



Code Check (Env)	
Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0.-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	Mount ReAnalysis	SK - 2
NL		Dec 10, 2021 at 7:45 AM
21777988A		467875-VZW_MT_LOT_A_H.r3d

Basic Load Cases

	BLC Description	Category	X Grav...	Y Grav...	Z Grav...	Joint	Point	Distrib...	Area(M...	Surfac...
1	Antenna D	None					33			
2	Antenna Di	None					33			
3	Antenna Wo (0 Deg)	None					33			
4	Antenna Wo (30 Deg)	None					33			
5	Antenna Wo (60 Deg)	None					33			
6	Antenna Wo (90 Deg)	None					33			
7	Antenna Wo (120 Deg)	None					33			
8	Antenna Wo (150 Deg)	None					33			
9	Antenna Wo (180 Deg)	None					33			
10	Antenna Wo (210 Deg)	None					33			
11	Antenna Wo (240 Deg)	None					33			
12	Antenna Wo (270 Deg)	None					33			
13	Antenna Wo (300 Deg)	None					33			
14	Antenna Wo (330 Deg)	None					33			
15	Antenna Wi (0 Deg)	None					33			
16	Antenna Wi (30 Deg)	None					33			
17	Antenna Wi (60 Deg)	None					33			
18	Antenna Wi (90 Deg)	None					33			
19	Antenna Wi (120 Deg)	None					33			
20	Antenna Wi (150 Deg)	None					33			
21	Antenna Wi (180 Deg)	None					33			
22	Antenna Wi (210 Deg)	None					33			
23	Antenna Wi (240 Deg)	None					33			
24	Antenna Wi (270 Deg)	None					33			
25	Antenna Wi (300 Deg)	None					33			
26	Antenna Wi (330 Deg)	None					33			
27	Antenna Wm (0 Deg)	None					33			
28	Antenna Wm (30 Deg)	None					33			
29	Antenna Wm (60 Deg)	None					33			
30	Antenna Wm (90 Deg)	None					33			
31	Antenna Wm (120 Deg)	None					33			
32	Antenna Wm (150 Deg)	None					33			
33	Antenna Wm (180 Deg)	None					33			
34	Antenna Wm (210 Deg)	None					33			
35	Antenna Wm (240 Deg)	None					33			
36	Antenna Wm (270 Deg)	None					33			
37	Antenna Wm (300 Deg)	None					33			
38	Antenna Wm (330 Deg)	None					33			
39	Structure D	None		-1						
40	Structure Di	None						40		
41	Structure Wo (0 Deg)	None						80		
42	Structure Wo (30 Deg)	None						80		
43	Structure Wo (60 Deg)	None						80		
44	Structure Wo (90 Deg)	None						80		
45	Structure Wo (120 Deg)	None						80		
46	Structure Wo (150 Deg)	None						80		
47	Structure Wo (180 Deg)	None						80		
48	Structure Wo (210 Deg)	None						80		
49	Structure Wo (240 Deg)	None						80		
50	Structure Wo (270 Deg)	None						80		
51	Structure Wo (300 Deg)	None						80		
52	Structure Wo (330 Deg)	None						80		
53	Structure Wi (0 Deg)	None						80		
54	Structure Wi (30 Deg)	None						80		
55	Structure Wi (60 Deg)	None						80		
56	Structure Wi (90 Deg)	None						80		

Basic Load Cases (Continued)

	BLC Description	Category	X Grav...	Y Grav...	Z Grav...	Joint	Point	Distrib...	Area(M...Surfac...
57	Structure Wi (120 Deg)	None						80	
58	Structure Wi (150 Deg)	None						80	
59	Structure Wi (180 Deg)	None						80	
60	Structure Wi (210 Deg)	None						80	
61	Structure Wi (240 Deg)	None						80	
62	Structure Wi (270 Deg)	None						80	
63	Structure Wi (300 Deg)	None						80	
64	Structure Wi (330 Deg)	None						80	
65	Structure Wm (0 Deg)	None						80	
66	Structure Wm (30 Deg)	None						80	
67	Structure Wm (60 Deg)	None						80	
68	Structure Wm (90 Deg)	None						80	
69	Structure Wm (120 Deg)	None						80	
70	Structure Wm (150 Deg)	None						80	
71	Structure Wm (180 Deg)	None						80	
72	Structure Wm (210 Deg)	None						80	
73	Structure Wm (240 Deg)	None						80	
74	Structure Wm (270 Deg)	None						80	
75	Structure Wm (300 Deg)	None						80	
76	Structure Wm (330 Deg)	None						80	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	Antenna Ev	None					33		
82	Antenna Eh (0 Deg)	None					22		
83	Antenna Eh (90 Deg)	None					22		
84	Structure Ev	ELY		-045					
85	Structure Eh (0 Deg)	ELZ	-113						
86	Structure Eh (90 Deg)	ELX			.113				

Load Combinations

	Description	Solve P...	S...	B...	Fa...	B...	Fa...	BLC Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1									
2	1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1									
3	1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1									
4	1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1									
5	1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1									
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1									
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1									
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1									
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1									
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1									
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1									
12	1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1									
13	1.2D + 1.0Di + 1.0Wi (0 ...	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1					
14	1.2D + 1.0Di + 1.0Wi (3...	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1					
15	1.2D + 1.0Di + 1.0Wi (6...	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1					
16	1.2D + 1.0Di + 1.0Wi (9...	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1					
17	1.2D + 1.0Di + 1.0Wi (1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1					
18	1.2D + 1.0Di + 1.0Wi (1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1					
19	1.2D + 1.0Di + 1.0Wi (1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1					
20	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1					
21	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1					
22	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1					

Load Combinations (Continued)

	Description	Solve P...	S...	B...	Fa...	B...	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
23	1.2D + 1.0Di + 1.0Wi (3...	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi (3...	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y	1	1.4	39	1.4																
52	1.2D + 1.0Ev + 1.0Eh (0...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	1	83		ELZ	1	E...					
53	1.2D + 1.0Ev + 1.0Eh (3...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	ELZ	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0Eh (6...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	ELZ	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0Eh (9...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82		83	1	ELZ		E...	1				
56	1.2D + 1.0Ev + 1.0Eh (1...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	ELZ	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0Eh (1...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	-.866	83	.5	ELZ	-.866	E...	.5				
58	1.2D + 1.0Ev + 1.0Eh (1...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	-1	83		ELZ	-1	E...					
59	1.2D + 1.0Ev + 1.0Eh (2...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	-.866	83	-.5	ELZ	-.866	E...	-.5				
60	1.2D + 1.0Ev + 1.0Eh (2...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.866	ELZ	-.5	E...	-.866				
61	1.2D + 1.0Ev + 1.0Eh (2...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82		83	-1	ELZ		E...	-1				
62	1.2D + 1.0Ev + 1.0Eh (3...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.866	ELZ	.5	E...	-.866				
63	1.2D + 1.0Ev + 1.0Eh (3...	Yes	Y	1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	ELZ	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0Eh (0...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	1	83		ELZ	1	E...					
65	0.9D - 1.0Ev + 1.0Eh (3...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	ELZ	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0Eh (6...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	ELZ	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0Eh (9...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82		83	1	ELZ		E...	1				
68	0.9D - 1.0Ev + 1.0Eh (1...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	ELZ	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0Eh (1...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	-.866	83	.5	ELZ	-.866	E...	.5				
70	0.9D - 1.0Ev + 1.0Eh (1...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	-1	83		ELZ	-1	E...					
71	0.9D - 1.0Ev + 1.0Eh (2...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	-.866	83	-.5	ELZ	-.866	E...	-.5				
72	0.9D - 1.0Ev + 1.0Eh (2...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.866	ELZ	-.5	E...	-.866				
73	0.9D - 1.0Ev + 1.0Eh (2...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82		83	-1	ELZ		E...	-1				
74	0.9D - 1.0Ev + 1.0Eh (3...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.866	ELZ	.5	E...	-.866				
75	0.9D - 1.0Ev + 1.0Eh (3...	Yes	Y	1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	ELZ	.866	E...	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-0.166667	0	0.166667	0	
2	N2	-0.447917	0	0.166667	0	
3	N3	0.114583	0	0.166667	0	
4	N4	-0.166667	0	0.	0	
5	N5	-0.166667	-3.416667	0.166667	0	
6	N6	-0.447917	-3.416667	0.166667	0	
7	N7	0.114583	-3.416667	0.166667	0	
8	N10	-4.5	0	4.583333	0	
9	N11	4.166667	0	4.583333	0	
10	N11A	-7.666667	0	4.583333	0	
11	N12	7.333333	0	4.583333	0	
12	N14	-4.5	-3.416667	4.583333	0	
13	N15	4.166667	-3.416667	4.583333	0	
14	N16	-7.666667	-3.416667	4.583333	0	
15	N17	7.333333	-3.416667	4.583333	0	
16	N17A	-0.341752	0	0.345119	0	
17	N18	0.008419	0	0.345119	0	
18	N19	-0.341752	-3.416667	0.345119	0	
19	N20	0.008419	-3.416667	0.345119	0	
20	N21	0.38777	-0.104167	0.731765	0	
21	N22	0.38777	-3.3125	0.731765	0	
22	N23	2.08026	-0.104167	2.456803	0	
23	N24	2.08026	-3.3125	2.456803	0	
24	N25	3.77275	-0.104167	4.181841	0	
25	N26	3.77275	-3.3125	4.181841	0	
26	N27	0.38777	-3.1875	0.731765	0	
27	N28	2.08026	-3.1875	2.456803	0	
28	N29	0.38777	-0.229167	0.731765	0	
29	N30	2.08026	-0.229167	2.456803	0	
30	N31	3.77275	-2.979167	4.181841	0	
31	N32	3.77275	-0.4375	4.181841	0	
32	N33	-0.721103	-0.104167	0.731765	0	
33	N34	-0.721103	-3.3125	0.731765	0	
34	N35	-2.413593	-0.104167	2.456803	0	
35	N36	-2.413593	-3.3125	2.456803	0	
36	N37	-4.106083	-0.104167	4.181841	0	
37	N38	-4.106083	-3.3125	4.181841	0	
38	N39	-0.721103	-3.1875	0.731765	0	
39	N40	-2.413593	-3.1875	2.456803	0	
40	N41	-0.721103	-0.229167	0.731765	0	
41	N42	-2.413593	-0.229167	2.456803	0	
42	N43	-4.106083	-2.979167	4.181841	0	
43	N44	-4.106083	-0.4375	4.181841	0	
44	N65	-0.166667	-3.416667	0.	0	
45	N46	-7.375	0	4.583333	0	
46	N47	-7.375	-3.416667	4.583333	0	
47	N48	-7.375	0	4.833333	0	
48	N49	-7.375	-3.416667	4.833333	0	
49	N50	-4	0	4.583333	0	
50	N51	-4	-3.416667	4.583333	0	
51	N52	-4	0	4.833333	0	
52	N53	-4	-3.416667	4.833333	0	
53	N54	0.666667	0	4.583333	0	
54	N55	0.666667	-3.416667	4.583333	0	
55	N56	0.666667	0	4.833333	0	
56	N57	0.666667	-3.416667	4.833333	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N62	7.083333	0	4.583333	0	
58	N63	7.083333	-3.416667	4.583333	0	
59	N64	7.083333	0	4.833333	0	
60	N65A	7.083333	-3.416667	4.833333	0	
61	N66	-7.375	1.229167	4.833333	0	
62	N67	0.666667	1.791667	4.833333	0	
63	N68	7.083333	3.5	4.833333	0	
64	N69	-7.375	-4.520833	4.833333	0	
65	N70	0.666667	-3.958333	4.833333	0	
66	N71	7.083333	-4.5	4.833333	0	
67	N72	-4	1.25	4.833333	0	
68	N73	-4	-4.5	4.833333	0	
69	N71A	3.833333	0	4.583333	0	
70	N72A	3.833333	-3.416667	4.583333	0	
71	N73A	3.833333	0	4.833333	0	
72	N74	3.833333	-3.416667	4.833333	0	
73	N75	3.833333	2.5	4.833333	0	
74	N76	3.833333	-4.5	4.833333	0	
75	N77	0.38777	0	0.731765	0	
76	N78	2.08026	0	2.456803	0	
77	N79A	3.77275	0	4.181841	0	
78	N80	-0.721103	0	0.731765	0	
79	N81	-2.413593	0	2.456803	0	
80	N82	-4.106083	0	4.181841	0	
81	N83	0.38777	-3.416667	0.731765	0	
82	N84	2.08026	-3.416667	2.456803	0	
83	N85	3.77275	-3.416667	4.181841	0	
84	N86	-0.721103	-3.416667	0.731765	0	
85	N87	-2.413593	-3.416667	2.456803	0	
86	N88	-4.106083	-3.416667	4.181841	0	
87	N89	7.083333	-2.916667	4.833333	0	
88	N90	-4.106083	-2.416667	4.181841	0	
89	N91	1.645067	-2.916667	-6.761481	0	
90	N92	-5.116414	-2.416667	-4.949747	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Standoff Horizontal	PIPE_2.0	Beam	Pipe	A500 Gr. C 50	Typical	1.02	.627	.627	1.25
3	Standoff Vertical	PIPE_2.0	Beam	Pipe	A500 Gr. C 50	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	HSS1.500x.06	Beam	Pipe	A500 Gr. C 50	Typical	.282	.073	.073	.146
5	Face Horizontal	PIPE_2.5	Beam	Pipe	A500 Gr. C 50	Typical	1.61	1.45	1.45	2.89
6	Tie Back	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
7	Standoff Bar	PL3/8X3_HRA	Beam	RECT	A36 Gr.36	Typical	1.125	.013	.844	.049
8	Mount Angle	L4X3X6	Beam	Single Angle	A572 Gr. 50	Typical	2.49	1.89	3.94	.123
9	Kickers	L2.5x2.5x3	Beam	Single Angle	A36 Gr.36	Typical	.901	.535	.535	.011
10	TES Standoff Diag...	PIPE_1.5	Beam	Single Angle	A500 Gr. C 50	Typical	.749	.293	.293	.586

Hot Rolled Steel Properties

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

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3
7	A500 Gr. C 50	29000	11154	.3	.65	.49	50	1.5	62	1.1

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N3		90	RIGID	None	None	RIGID	Typical
2	M2	N1	N4			RIGID	None	None	RIGID	Typical
3	M3	N6	N7		90	Mount Angle	Beam	Single Angle	A572 Gr. 50	Typical
4	M5	N1	N17A		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
5	M6	N1	N18		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
6	M7	N11A	N12			Face Horizontal	Beam	Pipe	A500 Gr. ...	Typical
7	M8	N5	N19		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
8	M9	N5	N20		90	Standoff Bar	Beam	RECT	A36 Gr.36	Typical
9	M10	N16	N17			Face Horizontal	Beam	Pipe	A500 Gr. ...	Typical
10	M11	N17A	N10			Standoff Horiz...	Beam	Pipe	A500 Gr. ...	Typical
11	M12	N18	N11			Standoff Horiz...	Beam	Pipe	A500 Gr. ...	Typical
12	M13	N19	N14			Standoff Horiz...	Beam	Pipe	A500 Gr. ...	Typical
13	M14	N20	N15			Standoff Horiz...	Beam	Pipe	A500 Gr. ...	Typical
14	M15	N21	N29	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
15	M17	N23	N30	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
16	M19	N26	N31	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
17	M20	N27	N22	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
18	M21	N28	N24	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
19	M22	N29	N27	N1		Standoff Diago...	Beam	Pipe	A500 Gr. ...	Typical
20	M23	N30	N28	N1		Standoff Diago...	Beam	Pipe	A500 Gr. ...	Typical
21	M24	N31	N32	N1		Standoff Vertical	Beam	Pipe	A500 Gr. ...	Typical
22	M25	N32	N25	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
23	M26	N33	N41	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
24	M27	N33	N36		90	Standoff Diago...	Beam	Pipe	A500 Gr. ...	Typical
25	M28	N35	N42	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
26	M29	N35	N38		90	Standoff Diago...	Beam	Pipe	A500 Gr. ...	Typical
27	M30	N38	N43	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
28	M31	N39	N34	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
29	M32	N40	N36	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
30	M33	N41	N39	N1		Standoff Diago...	Beam	Pipe	A500 Gr. ...	Typical
31	M34	N42	N40	N1		Standoff Diago...	Beam	Pipe	A500 Gr. ...	Typical
32	M35	N43	N44	N1		Standoff Vertical	Beam	Pipe	A500 Gr. ...	Typical
33	M36	N44	N37	N1		Standoff Bar	Beam	RECT	A36 Gr.36	Typical
34	M46A	N5	N65			RIGID	None	None	RIGID	Typical
35	M37	N46	N48			RIGID	None	None	RIGID	Typical
36	M38	N47	N49			RIGID	None	None	RIGID	Typical
37	M39	N50	N52			RIGID	None	None	RIGID	Typical
38	M40	N51	N53			RIGID	None	None	RIGID	Typical
39	M41	N54	N56			RIGID	None	None	RIGID	Typical
40	M42	N55	N57			RIGID	None	None	RIGID	Typical
41	M45	N62	N64			RIGID	None	None	RIGID	Typical
42	M46	N63	N65A			RIGID	None	None	RIGID	Typical
43	MP5A	N66	N69			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
44	MP3A	N67	N70			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
45	MP1A	N68	N71			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
46	M52	N89	N91			Tie Back	Beam	Pipe	A53 Gr. B	Typical
47	M53	N21	N24		90	Standoff Diago...	Beam	Pipe	A500 Gr. ...	Typical
48	M54	N23	N26		90	Standoff Diago...	Beam	Pipe	A500 Gr. ...	Typical
49	MP4A	N72	N73			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
50	M50	N71A	N73A			RIGID	None	None	RIGID	Typical
51	M51	N72A	N74			RIGID	None	None	RIGID	Typical
52	MP2A	N75	N76			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
53	M53A	N82	N37			RIGID	None	None	RIGID	Typical
54	M54A	N81	N35			RIGID	None	None	RIGID	Typical
55	M55	N80	N33			RIGID	None	None	RIGID	Typical
56	M56	N77	N21			RIGID	None	None	RIGID	Typical
57	M57	N78	N23			RIGID	None	None	RIGID	Typical
58	M58	N79A	N25			RIGID	None	None	RIGID	Typical
59	M59	N38	N88			RIGID	None	None	RIGID	Typical
60	M60	N36	N87			RIGID	None	None	RIGID	Typical
61	M61	N34	N86			RIGID	None	None	RIGID	Typical
62	M62	N22	N83			RIGID	None	None	RIGID	Typical
63	M63	N24	N84			RIGID	None	None	RIGID	Typical
64	M64	N26	N85			RIGID	None	None	RIGID	Typical
65	M65	N90	N92			Tie Back	Beam	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	M3						Yes				None
4	M5						Yes	Default			None
5	M6						Yes	Default			None
6	M7						Yes				None
7	M8						Yes	Default			None
8	M9						Yes	Default			None
9	M10						Yes				None
10	M11	OOOOOX					Yes				None
11	M12	OOOOOX					Yes				None
12	M13	OOOOOX					Yes				None
13	M14	OOOOOX					Yes				None
14	M15	OOOOOX					Yes				None
15	M17	OOOOOX					Yes				None
16	M19	OOOOOX					Yes				None
17	M20		OOOOOO				Yes				None
18	M21		OOOOOO				Yes				None
19	M22						Yes				None
20	M23						Yes				None
21	M24						Yes				None
22	M25		OOOOOO				Yes	Default			None
23	M26	OOOOOX					Yes				None
24	M27	BenPIN	BenPIN				Yes				None
25	M28	OOOOOX					Yes				None
26	M29	BenPIN	BenPIN				Yes	Default			None
27	M30	OOOOOX					Yes				None
28	M31		OOOOOO				Yes				None
29	M32		OOOOOO				Yes				None
30	M33						Yes				None
31	M34						Yes				None
32	M35						Yes				None
33	M36		OOOOOO				Yes				None
34	M46A						Yes	** NA **			None
35	M37						Yes	** NA **			None
36	M38						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
37	M39						Yes	** NA **			None
38	M40						Yes	** NA **			None
39	M41						Yes	** NA **			None
40	M42						Yes	** NA **			None
41	M45						Yes	** NA **			None
42	M46						Yes	** NA **			None
43	MP5A						Yes	** NA **			None
44	MP3A						Yes	** NA **			None
45	MP1A						Yes	** NA **			None
46	M52	OOOOXO					Yes	Default			None
47	M53	BenPIN	BenPIN				Yes	Default			None
48	M54	BenPIN	BenPIN				Yes	Default			None
49	MP4A						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	MP2A						Yes	** NA **			None
53	M53A						Yes	** NA **			None
54	M54A						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None
65	M65	OOOOXO					Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	Y	-43.55	1
2	MP4A	My	-.022	1
3	MP4A	Mz	0	1
4	MP4A	Y	-43.55	3
5	MP4A	My	-.022	3
6	MP4A	Mz	0	3
7	MP2A	Y	-74.7	3.5
8	MP2A	My	.025	3.5
9	MP2A	Mz	0	3.5
10	MP3A	Y	-70.3	3
11	MP3A	My	.023	3
12	MP3A	Mz	0	3
13	MP5A	Y	-19.85	.25
14	MP5A	My	-.005	.25
15	MP5A	Mz	0	.25
16	MP5A	Y	-19.85	5
17	MP5A	My	-.005	5
18	MP5A	Mz	0	5
19	M11	Y	-32	2
20	M11	My	0	2
21	M11	Mz	0	2
22	MP2A	Y	-31.65	1.25
23	MP2A	My	-.016	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
24	MP2A	Mz	.018	1.25
25	MP2A	Y	-31.65	5.5
26	MP2A	My	-.016	5.5
27	MP2A	Mz	.018	5.5
28	MP2A	Y	-31.65	1.25
29	MP2A	My	-.016	1.25
30	MP2A	Mz	-.018	1.25
31	MP2A	Y	-31.65	5.5
32	MP2A	My	-.016	5.5
33	MP2A	Mz	-.018	5.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	Y	-37.335	1
2	MP4A	My	-.019	1
3	MP4A	Mz	0	1
4	MP4A	Y	-37.335	3
5	MP4A	My	-.019	3
6	MP4A	Mz	0	3
7	MP2A	Y	-47.104	3.5
8	MP2A	My	.016	3.5
9	MP2A	Mz	0	3.5
10	MP3A	Y	-44.864	3
11	MP3A	My	.015	3
12	MP3A	Mz	0	3
13	MP5A	Y	-74.066	.25
14	MP5A	My	-.019	.25
15	MP5A	Mz	0	.25
16	MP5A	Y	-74.066	5
17	MP5A	My	-.019	5
18	MP5A	Mz	0	5
19	M11	Y	-92.089	2
20	M11	My	0	2
21	M11	Mz	0	2
22	MP2A	Y	-73.267	1.25
23	MP2A	My	-.037	1.25
24	MP2A	Mz	.043	1.25
25	MP2A	Y	-73.267	5.5
26	MP2A	My	-.037	5.5
27	MP2A	Mz	.043	5.5
28	MP2A	Y	-73.267	1.25
29	MP2A	My	-.037	1.25
30	MP2A	Mz	-.043	1.25
31	MP2A	Y	-73.267	5.5
32	MP2A	My	-.037	5.5
33	MP2A	Mz	-.043	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	1
2	MP4A	Z	-84.331	1
3	MP4A	Mx	0	1
4	MP4A	X	0	3
5	MP4A	Z	-84.331	3
6	MP4A	Mx	0	3
7	MP2A	X	0	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
8	MP2A	Z	-67.106	3.5
9	MP2A	Mx	0	3.5
10	MP3A	X	0	3
11	MP3A	Z	-67.106	3
12	MP3A	Mx	0	3
13	MP5A	X	0	.25
14	MP5A	Z	-204.907	.25
15	MP5A	Mx	0	.25
16	MP5A	X	0	5
17	MP5A	Z	-204.907	5
18	MP5A	Mx	0	5
19	M11	X	0	2
20	M11	Z	-119.791	2
21	M11	Mx	0	2
22	MP2A	X	0	1.25
23	MP2A	Z	-163.459	1.25
24	MP2A	Mx	-.095	1.25
25	MP2A	X	0	5.5
26	MP2A	Z	-163.459	5.5
27	MP2A	Mx	-.095	5.5
28	MP2A	X	0	1.25
29	MP2A	Z	-163.459	1.25
30	MP2A	Mx	.095	1.25
31	MP2A	X	0	5.5
32	MP2A	Z	-163.459	5.5
33	MP2A	Mx	.095	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	35.751	1
2	MP4A	Z	-61.923	1
3	MP4A	Mx	-.018	1
4	MP4A	X	35.751	3
5	MP4A	Z	-61.923	3
6	MP4A	Mx	-.018	3
7	MP2A	X	30.772	3.5
8	MP2A	Z	-53.299	3.5
9	MP2A	Mx	.01	3.5
10	MP3A	X	30.267	3
11	MP3A	Z	-52.425	3
12	MP3A	Mx	.01	3
13	MP5A	X	90.347	.25
14	MP5A	Z	-156.486	.25
15	MP5A	Mx	-.023	.25
16	MP5A	X	90.347	5
17	MP5A	Z	-156.486	5
18	MP5A	Mx	-.023	5
19	M11	X	55.578	2
20	M11	Z	-96.264	2
21	M11	Mx	0	2
22	MP2A	X	74.717	1.25
23	MP2A	Z	-129.414	1.25
24	MP2A	Mx	-.113	1.25
25	MP2A	X	74.717	5.5
26	MP2A	Z	-129.414	5.5
27	MP2A	Mx	-.113	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
28	MP2A	X	74.717	1.25
29	MP2A	Z	-129.414	1.25
30	MP2A	Mx	.038	1.25
31	MP2A	X	74.717	5.5
32	MP2A	Z	-129.414	5.5
33	MP2A	Mx	.038	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	39.703	1
2	MP4A	Z	-22.922	1
3	MP4A	Mx	-.02	1
4	MP4A	X	39.703	3
5	MP4A	Z	-22.922	3
6	MP4A	Mx	-.02	3
7	MP2A	X	43.665	3.5
8	MP2A	Z	-25.21	3.5
9	MP2A	Mx	.015	3.5
10	MP3A	X	41.042	3
11	MP3A	Z	-23.696	3
12	MP3A	Mx	.014	3
13	MP5A	X	114.548	.25
14	MP5A	Z	-66.134	.25
15	MP5A	Mx	-.029	.25
16	MP5A	X	114.548	5
17	MP5A	Z	-66.134	5
18	MP5A	Mx	-.029	5
19	M11	X	103.742	2
20	M11	Z	-59.896	2
21	M11	Mx	0	2
22	MP2A	X	105.121	1.25
23	MP2A	Z	-60.692	1.25
24	MP2A	Mx	-.088	1.25
25	MP2A	X	105.121	5.5
26	MP2A	Z	-60.692	5.5
27	MP2A	Mx	-.088	5.5
28	MP2A	X	105.121	1.25
29	MP2A	Z	-60.692	1.25
30	MP2A	Mx	-.017	1.25
31	MP2A	X	105.121	5.5
32	MP2A	Z	-60.692	5.5
33	MP2A	Mx	-.017	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	33.016	1
2	MP4A	Z	0	1
3	MP4A	Mx	-.017	1
4	MP4A	X	33.016	3
5	MP4A	Z	0	3
6	MP4A	Mx	-.017	3
7	MP2A	X	44.857	3.5
8	MP2A	Z	0	3.5
9	MP2A	Mx	.015	3.5
10	MP3A	X	40.82	3
11	MP3A	Z	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP3A	Mx	.014	3
13	MP5A	X	108.056	.25
14	MP5A	Z	0	.25
15	MP5A	Mx	-.027	.25
16	MP5A	X	108.056	5
17	MP5A	Z	0	5
18	MP5A	Mx	-.027	5
19	M11	X	137.061	2
20	M11	Z	0	2
21	M11	Mx	0	2
22	MP2A	X	107.358	1.25
23	MP2A	Z	0	1.25
24	MP2A	Mx	-.054	1.25
25	MP2A	X	107.358	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.054	5.5
28	MP2A	X	107.358	1.25
29	MP2A	Z	0	1.25
30	MP2A	Mx	-.054	1.25
31	MP2A	X	107.358	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	-.054	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	39.703	1
2	MP4A	Z	22.922	1
3	MP4A	Mx	-.02	1
4	MP4A	X	39.703	3
5	MP4A	Z	22.922	3
6	MP4A	Mx	-.02	3
7	MP2A	X	43.665	3.5
8	MP2A	Z	25.21	3.5
9	MP2A	Mx	.015	3.5
10	MP3A	X	41.042	3
11	MP3A	Z	23.696	3
12	MP3A	Mx	.014	3
13	MP5A	X	114.548	.25
14	MP5A	Z	66.134	.25
15	MP5A	Mx	-.029	.25
16	MP5A	X	114.548	5
17	MP5A	Z	66.134	5
18	MP5A	Mx	-.029	5
19	M11	X	126.176	2
20	M11	Z	72.848	2
21	M11	Mx	0	2
22	MP2A	X	105.121	1.25
23	MP2A	Z	60.692	1.25
24	MP2A	Mx	-.017	1.25
25	MP2A	X	105.121	5.5
26	MP2A	Z	60.692	5.5
27	MP2A	Mx	-.017	5.5
28	MP2A	X	105.121	1.25
29	MP2A	Z	60.692	1.25
30	MP2A	Mx	-.088	1.25
31	MP2A	X	105.121	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP2A	Z	60.692	5.5
33	MP2A	Mx	-.088	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	35.751	1
2	MP4A	Z	61.923	1
3	MP4A	Mx	-.018	1
4	MP4A	X	35.751	3
5	MP4A	Z	61.923	3
6	MP4A	Mx	-.018	3
7	MP2A	X	30.772	3.5
8	MP2A	Z	53.299	3.5
9	MP2A	Mx	.01	3.5
10	MP3A	X	30.267	3
11	MP3A	Z	52.425	3
12	MP3A	Mx	.01	3
13	MP5A	X	90.347	.25
14	MP5A	Z	156.486	.25
15	MP5A	Mx	-.023	.25
16	MP5A	X	90.347	5
17	MP5A	Z	156.486	5
18	MP5A	Mx	-.023	5
19	M11	X	68.531	2
20	M11	Z	118.698	2
21	M11	Mx	0	2
22	MP2A	X	74.717	1.25
23	MP2A	Z	129.414	1.25
24	MP2A	Mx	.038	1.25
25	MP2A	X	74.717	5.5
26	MP2A	Z	129.414	5.5
27	MP2A	Mx	.038	5.5
28	MP2A	X	74.717	1.25
29	MP2A	Z	129.414	1.25
30	MP2A	Mx	-.113	1.25
31	MP2A	X	74.717	5.5
32	MP2A	Z	129.414	5.5
33	MP2A	Mx	-.113	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	1
2	MP4A	Z	84.331	1
3	MP4A	Mx	0	1
4	MP4A	X	0	3
5	MP4A	Z	84.331	3
6	MP4A	Mx	0	3
7	MP2A	X	0	3.5
8	MP2A	Z	67.106	3.5
9	MP2A	Mx	0	3.5
10	MP3A	X	0	3
11	MP3A	Z	67.106	3
12	MP3A	Mx	0	3
13	MP5A	X	0	.25
14	MP5A	Z	204.907	.25
15	MP5A	Mx	0	.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP5A	X	0	5
17	MP5A	Z	204.907	5
18	MP5A	Mx	0	5
19	M11	X	0	2
20	M11	Z	119.791	2
21	M11	Mx	0	2
22	MP2A	X	0	1.25
23	MP2A	Z	163.459	1.25
24	MP2A	Mx	.095	1.25
25	MP2A	X	0	5.5
26	MP2A	Z	163.459	5.5
27	MP2A	Mx	.095	5.5
28	MP2A	X	0	1.25
29	MP2A	Z	163.459	1.25
30	MP2A	Mx	-.095	1.25
31	MP2A	X	0	5.5
32	MP2A	Z	163.459	5.5
33	MP2A	Mx	-.095	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-35.751	1
2	MP4A	Z	61.923	1
3	MP4A	Mx	.018	1
4	MP4A	X	-35.751	3
5	MP4A	Z	61.923	3
6	MP4A	Mx	.018	3
7	MP2A	X	-30.772	3.5
8	MP2A	Z	53.299	3.5
9	MP2A	Mx	-.01	3.5
10	MP3A	X	-30.267	3
11	MP3A	Z	52.425	3
12	MP3A	Mx	-.01	3
13	MP5A	X	-90.347	.25
14	MP5A	Z	156.486	.25
15	MP5A	Mx	.023	.25
16	MP5A	X	-90.347	5
17	MP5A	Z	156.486	5
18	MP5A	Mx	.023	5
19	M11	X	-55.578	2
20	M11	Z	96.264	2
21	M11	Mx	0	2
22	MP2A	X	-74.717	1.25
23	MP2A	Z	129.414	1.25
24	MP2A	Mx	.113	1.25
25	MP2A	X	-74.717	5.5
26	MP2A	Z	129.414	5.5
27	MP2A	Mx	.113	5.5
28	MP2A	X	-74.717	1.25
29	MP2A	Z	129.414	1.25
30	MP2A	Mx	-.038	1.25
31	MP2A	X	-74.717	5.5
32	MP2A	Z	129.414	5.5
33	MP2A	Mx	-.038	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-39.703	1
2	MP4A	Z	22.922	1
3	MP4A	Mx	.02	1
4	MP4A	X	-39.703	3
5	MP4A	Z	22.922	3
6	MP4A	Mx	.02	3
7	MP2A	X	-43.665	3.5
8	MP2A	Z	25.21	3.5
9	MP2A	Mx	-.015	3.5
10	MP3A	X	-41.042	3
11	MP3A	Z	23.696	3
12	MP3A	Mx	-.014	3
13	MP5A	X	-114.548	.25
14	MP5A	Z	66.134	.25
15	MP5A	Mx	.029	.25
16	MP5A	X	-114.548	5
17	MP5A	Z	66.134	5
18	MP5A	Mx	.029	5
19	M11	X	-103.742	2
20	M11	Z	59.896	2
21	M11	Mx	0	2
22	MP2A	X	-105.121	1.25
23	MP2A	Z	60.692	1.25
24	MP2A	Mx	.088	1.25
25	MP2A	X	-105.121	5.5
26	MP2A	Z	60.692	5.5
27	MP2A	Mx	.088	5.5
28	MP2A	X	-105.121	1.25
29	MP2A	Z	60.692	1.25
30	MP2A	Mx	.017	1.25
31	MP2A	X	-105.121	5.5
32	MP2A	Z	60.692	5.5
33	MP2A	Mx	.017	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-33.016	1
2	MP4A	Z	0	1
3	MP4A	Mx	.017	1
4	MP4A	X	-33.016	3
5	MP4A	Z	0	3
6	MP4A	Mx	.017	3
7	MP2A	X	-44.857	3.5
8	MP2A	Z	0	3.5
9	MP2A	Mx	-.015	3.5
10	MP3A	X	-40.82	3
11	MP3A	Z	0	3
12	MP3A	Mx	-.014	3
13	MP5A	X	-108.056	.25
14	MP5A	Z	0	.25
15	MP5A	Mx	.027	.25
16	MP5A	X	-108.056	5
17	MP5A	Z	0	5
18	MP5A	Mx	.027	5
19	M11	X	-137.061	2
20	M11	Z	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	M11	Mx	0	2
22	MP2A	X	-107.358	1.25
23	MP2A	Z	0	1.25
24	MP2A	Mx	.054	1.25
25	MP2A	X	-107.358	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.054	5.5
28	MP2A	X	-107.358	1.25
29	MP2A	Z	0	1.25
30	MP2A	Mx	.054	1.25
31	MP2A	X	-107.358	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	.054	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-39.703	1
2	MP4A	Z	-22.922	1
3	MP4A	Mx	.02	1
4	MP4A	X	-39.703	3
5	MP4A	Z	-22.922	3
6	MP4A	Mx	.02	3
7	MP2A	X	-43.665	3.5
8	MP2A	Z	-25.21	3.5
9	MP2A	Mx	-.015	3.5
10	MP3A	X	-41.042	3
11	MP3A	Z	-23.696	3
12	MP3A	Mx	-.014	3
13	MP5A	X	-114.548	.25
14	MP5A	Z	-66.134	.25
15	MP5A	Mx	.029	.25
16	MP5A	X	-114.548	5
17	MP5A	Z	-66.134	5
18	MP5A	Mx	.029	5
19	M11	X	-126.176	2
20	M11	Z	-72.848	2
21	M11	Mx	0	2
22	MP2A	X	-105.121	1.25
23	MP2A	Z	-60.692	1.25
24	MP2A	Mx	.017	1.25
25	MP2A	X	-105.121	5.5
26	MP2A	Z	-60.692	5.5
27	MP2A	Mx	.017	5.5
28	MP2A	X	-105.121	1.25
29	MP2A	Z	-60.692	1.25
30	MP2A	Mx	.088	1.25
31	MP2A	X	-105.121	5.5
32	MP2A	Z	-60.692	5.5
33	MP2A	Mx	.088	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-35.751	1
2	MP4A	Z	-61.923	1
3	MP4A	Mx	.018	1
4	MP4A	X	-35.751	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP4A	Z	-61.923	3
6	MP4A	Mx	.018	3
7	MP2A	X	-30.772	3.5
8	MP2A	Z	-53.299	3.5
9	MP2A	Mx	-.01	3.5
10	MP3A	X	-30.267	3
11	MP3A	Z	-52.425	3
12	MP3A	Mx	-.01	3
13	MP5A	X	-90.347	.25
14	MP5A	Z	-156.486	.25
15	MP5A	Mx	.023	.25
16	MP5A	X	-90.347	5
17	MP5A	Z	-156.486	5
18	MP5A	Mx	.023	5
19	M11	X	-68.531	2
20	M11	Z	-118.698	2
21	M11	Mx	0	2
22	MP2A	X	-74.717	1.25
23	MP2A	Z	-129.414	1.25
24	MP2A	Mx	-.038	1.25
25	MP2A	X	-74.717	5.5
26	MP2A	Z	-129.414	5.5
27	MP2A	Mx	-.038	5.5
28	MP2A	X	-74.717	1.25
29	MP2A	Z	-129.414	1.25
30	MP2A	Mx	.113	1.25
31	MP2A	X	-74.717	5.5
32	MP2A	Z	-129.414	5.5
33	MP2A	Mx	.113	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	1
2	MP4A	Z	-17.488	1
3	MP4A	Mx	0	1
4	MP4A	X	0	3
5	MP4A	Z	-17.488	3
6	MP4A	Mx	0	3
7	MP2A	X	0	3.5
8	MP2A	Z	-14.774	3.5
9	MP2A	Mx	0	3.5
10	MP3A	X	0	3
11	MP3A	Z	-14.774	3
12	MP3A	Mx	0	3
13	MP5A	X	0	.25
14	MP5A	Z	-41.073	.25
15	MP5A	Mx	0	.25
16	MP5A	X	0	5
17	MP5A	Z	-41.073	5
18	MP5A	Mx	0	5
19	M11	X	0	2
20	M11	Z	-25.36	2
21	M11	Mx	0	2
22	MP2A	X	0	1.25
23	MP2A	Z	-32.841	1.25
24	MP2A	Mx	-.019	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP2A	X	0	5.5
26	MP2A	Z	-32.841	5.5
27	MP2A	Mx	-.019	5.5
28	MP2A	X	0	1.25
29	MP2A	Z	-32.841	1.25
30	MP2A	Mx	.019	1.25
31	MP2A	X	0	5.5
32	MP2A	Z	-32.841	5.5
33	MP2A	Mx	.019	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	7.492	1
2	MP4A	Z	-12.977	1
3	MP4A	Mx	-.004	1
4	MP4A	X	7.492	3
5	MP4A	Z	-12.977	3
6	MP4A	Mx	-.004	3
7	MP2A	X	6.827	3.5
8	MP2A	Z	-11.825	3.5
9	MP2A	Mx	.002	3.5
10	MP3A	X	6.726	3
11	MP3A	Z	-11.65	3
12	MP3A	Mx	.002	3
13	MP5A	X	18.265	.25
14	MP5A	Z	-31.636	.25
15	MP5A	Mx	-.005	.25
16	MP5A	X	18.265	5
17	MP5A	Z	-31.636	5
18	MP5A	Mx	-.005	5
19	M11	X	11.857	2
20	M11	Z	-20.537	2
21	M11	Mx	0	2
22	MP2A	X	15.12	1.25
23	MP2A	Z	-26.189	1.25
24	MP2A	Mx	-.023	1.25
25	MP2A	X	15.12	5.5
26	MP2A	Z	-26.189	5.5
27	MP2A	Mx	-.023	5.5
28	MP2A	X	15.12	1.25
29	MP2A	Z	-26.189	1.25
30	MP2A	Mx	.008	1.25
31	MP2A	X	15.12	5.5
32	MP2A	Z	-26.189	5.5
33	MP2A	Mx	.008	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	8.642	1
2	MP4A	Z	-4.99	1
3	MP4A	Mx	-.004	1
4	MP4A	X	8.642	3
5	MP4A	Z	-4.99	3
6	MP4A	Mx	-.004	3
7	MP2A	X	9.885	3.5
8	MP2A	Z	-5.707	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP2A	Mx	.003	3.5
10	MP3A	X	9.361	3
11	MP3A	Z	-5.405	3
12	MP3A	Mx	.003	3
13	MP5A	X	23.769	.25
14	MP5A	Z	-13.723	.25
15	MP5A	Mx	-.006	.25
16	MP5A	X	23.769	5
17	MP5A	Z	-13.723	5
18	MP5A	Mx	-.006	5
19	M11	X	21.962	2
20	M11	Z	-12.68	2
21	M11	Mx	0	2
22	MP2A	X	21.684	1.25
23	MP2A	Z	-12.519	1.25
24	MP2A	Mx	-.018	1.25
25	MP2A	X	21.684	5.5
26	MP2A	Z	-12.519	5.5
27	MP2A	Mx	-.018	5.5
28	MP2A	X	21.684	1.25
29	MP2A	Z	-12.519	1.25
30	MP2A	Mx	-.004	1.25
31	MP2A	X	21.684	5.5
32	MP2A	Z	-12.519	5.5
33	MP2A	Mx	-.004	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	7.477	1
2	MP4A	Z	0	1
3	MP4A	Mx	-.004	1
4	MP4A	X	7.477	3
5	MP4A	Z	0	3
6	MP4A	Mx	-.004	3
7	MP2A	X	10.295	3.5
8	MP2A	Z	0	3.5
9	MP2A	Mx	.003	3.5
10	MP3A	X	9.488	3
11	MP3A	Z	0	3
12	MP3A	Mx	.003	3
13	MP5A	X	22.904	.25
14	MP5A	Z	0	.25
15	MP5A	Mx	-.006	.25
16	MP5A	X	22.904	5
17	MP5A	Z	0	5
18	MP5A	Mx	-.006	5
19	M11	X	28.651	2
20	M11	Z	0	2
21	M11	Mx	0	2
22	MP2A	X	22.438	1.25
23	MP2A	Z	0	1.25
24	MP2A	Mx	-.011	1.25
25	MP2A	X	22.438	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.011	5.5
28	MP2A	X	22.438	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP2A	Z	0	1.25
30	MP2A	Mx	-.011	1.25
31	MP2A	X	22.438	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	-.011	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	8.642	1
2	MP4A	Z	4.99	1
3	MP4A	Mx	-.004	1
4	MP4A	X	8.642	3
5	MP4A	Z	4.99	3
6	MP4A	Mx	-.004	3
7	MP2A	X	9.885	3.5
8	MP2A	Z	5.707	3.5
9	MP2A	Mx	.003	3.5
10	MP3A	X	9.361	3
11	MP3A	Z	5.405	3
12	MP3A	Mx	.003	3
13	MP5A	X	23.769	.25
14	MP5A	Z	13.723	.25
15	MP5A	Mx	-.006	.25
16	MP5A	X	23.769	5
17	MP5A	Z	13.723	5
18	MP5A	Mx	-.006	5
19	M11	X	26.238	2
20	M11	Z	15.148	2
21	M11	Mx	0	2
22	MP2A	X	21.684	1.25
23	MP2A	Z	12.519	1.25
24	MP2A	Mx	-.004	1.25
25	MP2A	X	21.684	5.5
26	MP2A	Z	12.519	5.5
27	MP2A	Mx	-.004	5.5
28	MP2A	X	21.684	1.25
29	MP2A	Z	12.519	1.25
30	MP2A	Mx	-.018	1.25
31	MP2A	X	21.684	5.5
32	MP2A	Z	12.519	5.5
33	MP2A	Mx	-.018	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	7.492	1
2	MP4A	Z	12.977	1
3	MP4A	Mx	-.004	1
4	MP4A	X	7.492	3
5	MP4A	Z	12.977	3
6	MP4A	Mx	-.004	3
7	MP2A	X	6.827	3.5
8	MP2A	Z	11.825	3.5
9	MP2A	Mx	.002	3.5
10	MP3A	X	6.726	3
11	MP3A	Z	11.65	3
12	MP3A	Mx	.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP5A	X	18.265	.25
14	MP5A	Z	31.636	.25
15	MP5A	Mx	-.005	.25
16	MP5A	X	18.265	5
17	MP5A	Z	31.636	5
18	MP5A	Mx	-.005	5
19	M11	X	14.326	2
20	M11	Z	24.813	2
21	M11	Mx	0	2
22	MP2A	X	15.12	1.25
23	MP2A	Z	26.189	1.25
24	MP2A	Mx	.008	1.25
25	MP2A	X	15.12	5.5
26	MP2A	Z	26.189	5.5
27	MP2A	Mx	.008	5.5
28	MP2A	X	15.12	1.25
29	MP2A	Z	26.189	1.25
30	MP2A	Mx	-.023	1.25
31	MP2A	X	15.12	5.5
32	MP2A	Z	26.189	5.5
33	MP2A	Mx	-.023	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	1
2	MP4A	Z	17.488	1
3	MP4A	Mx	0	1
4	MP4A	X	0	3
5	MP4A	Z	17.488	3
6	MP4A	Mx	0	3
7	MP2A	X	0	3.5
8	MP2A	Z	14.774	3.5
9	MP2A	Mx	0	3.5
10	MP3A	X	0	3
11	MP3A	Z	14.774	3
12	MP3A	Mx	0	3
13	MP5A	X	0	.25
14	MP5A	Z	41.073	.25
15	MP5A	Mx	0	.25
16	MP5A	X	0	5
17	MP5A	Z	41.073	5
18	MP5A	Mx	0	5
19	M11	X	0	2
20	M11	Z	25.36	2
21	M11	Mx	0	2
22	MP2A	X	0	1.25
23	MP2A	Z	32.841	1.25
24	MP2A	Mx	.019	1.25
25	MP2A	X	0	5.5
26	MP2A	Z	32.841	5.5
27	MP2A	Mx	.019	5.5
28	MP2A	X	0	1.25
29	MP2A	Z	32.841	1.25
30	MP2A	Mx	-.019	1.25
31	MP2A	X	0	5.5
32	MP2A	Z	32.841	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP2A	Mx	-.019	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-7.492	1
2	MP4A	Z	12.977	1
3	MP4A	Mx	.004	1
4	MP4A	X	-7.492	3
5	MP4A	Z	12.977	3
6	MP4A	Mx	.004	3
7	MP2A	X	-6.827	3.5
8	MP2A	Z	11.825	3.5
9	MP2A	Mx	-.002	3.5
10	MP3A	X	-6.726	3
11	MP3A	Z	11.65	3
12	MP3A	Mx	-.002	3
13	MP5A	X	-18.265	.25
14	MP5A	Z	31.636	.25
15	MP5A	Mx	.005	.25
16	MP5A	X	-18.265	5
17	MP5A	Z	31.636	5
18	MP5A	Mx	.005	5
19	M11	X	-11.857	2
20	M11	Z	20.537	2
21	M11	Mx	0	2
22	MP2A	X	-15.12	1.25
23	MP2A	Z	26.189	1.25
24	MP2A	Mx	.023	1.25
25	MP2A	X	-15.12	5.5
26	MP2A	Z	26.189	5.5
27	MP2A	Mx	.023	5.5
28	MP2A	X	-15.12	1.25
29	MP2A	Z	26.189	1.25
30	MP2A	Mx	-.008	1.25
31	MP2A	X	-15.12	5.5
32	MP2A	Z	26.189	5.5
33	MP2A	Mx	-.008	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-8.642	1
2	MP4A	Z	4.99	1
3	MP4A	Mx	.004	1
4	MP4A	X	-8.642	3
5	MP4A	Z	4.99	3
6	MP4A	Mx	.004	3
7	MP2A	X	-9.885	3.5
8	MP2A	Z	5.707	3.5
9	MP2A	Mx	-.003	3.5
10	MP3A	X	-9.361	3
11	MP3A	Z	5.405	3
12	MP3A	Mx	-.003	3
13	MP5A	X	-23.769	.25
14	MP5A	Z	13.723	.25
15	MP5A	Mx	.006	.25
16	MP5A	X	-23.769	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
17	MP5A	Z	13.723	5
18	MP5A	Mx	.006	5
19	M11	X	-21.962	2
20	M11	Z	12.68	2
21	M11	Mx	0	2
22	MP2A	X	-21.684	1.25
23	MP2A	Z	12.519	1.25
24	MP2A	Mx	.018	1.25
25	MP2A	X	-21.684	5.5
26	MP2A	Z	12.519	5.5
27	MP2A	Mx	.018	5.5
28	MP2A	X	-21.684	1.25
29	MP2A	Z	12.519	1.25
30	MP2A	Mx	.004	1.25
31	MP2A	X	-21.684	5.5
32	MP2A	Z	12.519	5.5
33	MP2A	Mx	.004	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-7.477	1
2	MP4A	Z	0	1
3	MP4A	Mx	.004	1
4	MP4A	X	-7.477	3
5	MP4A	Z	0	3
6	MP4A	Mx	.004	3
7	MP2A	X	-10.295	3.5
8	MP2A	Z	0	3.5
9	MP2A	Mx	-.003	3.5
10	MP3A	X	-9.488	3
11	MP3A	Z	0	3
12	MP3A	Mx	-.003	3
13	MP5A	X	-22.904	.25
14	MP5A	Z	0	.25
15	MP5A	Mx	.006	.25
16	MP5A	X	-22.904	5
17	MP5A	Z	0	5
18	MP5A	Mx	.006	5
19	M11	X	-28.651	2
20	M11	Z	0	2
21	M11	Mx	0	2
22	MP2A	X	-22.438	1.25
23	MP2A	Z	0	1.25
24	MP2A	Mx	.011	1.25
25	MP2A	X	-22.438	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.011	5.5
28	MP2A	X	-22.438	1.25
29	MP2A	Z	0	1.25
30	MP2A	Mx	.011	1.25
31	MP2A	X	-22.438	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	.011	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-8.642	1
2	MP4A	Z	-4.99	1
3	MP4A	Mx	.004	1
4	MP4A	X	-8.642	3
5	MP4A	Z	-4.99	3
6	MP4A	Mx	.004	3
7	MP2A	X	-9.885	3.5
8	MP2A	Z	-5.707	3.5
9	MP2A	Mx	-.003	3.5
10	MP3A	X	-9.361	3
11	MP3A	Z	-5.405	3
12	MP3A	Mx	-.003	3
13	MP5A	X	-23.769	.25
14	MP5A	Z	-13.723	.25
15	MP5A	Mx	.006	.25
16	MP5A	X	-23.769	5
17	MP5A	Z	-13.723	5
18	MP5A	Mx	.006	5
19	M11	X	-26.238	2
20	M11	Z	-15.148	2
21	M11	Mx	0	2
22	MP2A	X	-21.684	1.25
23	MP2A	Z	-12.519	1.25
24	MP2A	Mx	.004	1.25
25	MP2A	X	-21.684	5.5
26	MP2A	Z	-12.519	5.5
27	MP2A	Mx	.004	5.5
28	MP2A	X	-21.684	1.25
29	MP2A	Z	-12.519	1.25
30	MP2A	Mx	.018	1.25
31	MP2A	X	-21.684	5.5
32	MP2A	Z	-12.519	5.5
33	MP2A	Mx	.018	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-7.492	1
2	MP4A	Z	-12.977	1
3	MP4A	Mx	.004	1
4	MP4A	X	-7.492	3
5	MP4A	Z	-12.977	3
6	MP4A	Mx	.004	3
7	MP2A	X	-6.827	3.5
8	MP2A	Z	-11.825	3.5
9	MP2A	Mx	-.002	3.5
10	MP3A	X	-6.726	3
11	MP3A	Z	-11.65	3
12	MP3A	Mx	-.002	3
13	MP5A	X	-18.265	.25
14	MP5A	Z	-31.636	.25
15	MP5A	Mx	.005	.25
16	MP5A	X	-18.265	5
17	MP5A	Z	-31.636	5
18	MP5A	Mx	.005	5
19	M11	X	-14.326	2
20	M11	Z	-24.813	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	M11	Mx	0	2
22	MP2A	X	-15.12	1.25
23	MP2A	Z	-26.189	1.25
24	MP2A	Mx	-.008	1.25
25	MP2A	X	-15.12	5.5
26	MP2A	Z	-26.189	5.5
27	MP2A	Mx	-.008	5.5
28	MP2A	X	-15.12	1.25
29	MP2A	Z	-26.189	1.25
30	MP2A	Mx	.023	1.25
31	MP2A	X	-15.12	5.5
32	MP2A	Z	-26.189	5.5
33	MP2A	Mx	.023	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	0	1
2	MP4A	Z	-5.544	1
3	MP4A	Mx	0	1
4	MP4A	X	0	3
5	MP4A	Z	-5.544	3
6	MP4A	Mx	0	3
7	MP2A	X	0	3.5
8	MP2A	Z	-4.412	3.5
9	MP2A	Mx	0	3.5
10	MP3A	X	0	3
11	MP3A	Z	-4.412	3
12	MP3A	Mx	0	3
13	MP5A	X	0	.25
14	MP5A	Z	-13.472	.25
15	MP5A	Mx	0	.25
16	MP5A	X	0	5
17	MP5A	Z	-13.472	5
18	MP5A	Mx	0	5
19	M11	X	0	2
20	M11	Z	-7.876	2
21	M11	Mx	0	2
22	MP2A	X	0	1.25
23	MP2A	Z	-10.747	1.25
24	MP2A	Mx	-.006	1.25
25	MP2A	X	0	5.5
26	MP2A	Z	-10.747	5.5
27	MP2A	Mx	-.006	5.5
28	MP2A	X	0	1.25
29	MP2A	Z	-10.747	1.25
30	MP2A	Mx	.006	1.25
31	MP2A	X	0	5.5
32	MP2A	Z	-10.747	5.5
33	MP2A	Mx	.006	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	2.351	1
2	MP4A	Z	-4.071	1
3	MP4A	Mx	-.001	1
4	MP4A	X	2.351	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP4A	Z	-4.071	3
6	MP4A	Mx	-.001	3
7	MP2A	X	2.023	3.5
8	MP2A	Z	-3.504	3.5
9	MP2A	Mx	.000674	3.5
10	MP3A	X	1.99	3
11	MP3A	Z	-3.447	3
12	MP3A	Mx	.000663	3
13	MP5A	X	5.94	.25
14	MP5A	Z	-10.288	.25
15	MP5A	Mx	-.001	.25
16	MP5A	X	5.94	5
17	MP5A	Z	-10.288	5
18	MP5A	Mx	-.001	5
19	M11	X	3.654	2
20	M11	Z	-6.329	2
21	M11	Mx	0	2
22	MP2A	X	4.912	1.25
23	MP2A	Z	-8.508	1.25
24	MP2A	Mx	-.007	1.25
25	MP2A	X	4.912	5.5
26	MP2A	Z	-8.508	5.5
27	MP2A	Mx	-.007	5.5
28	MP2A	X	4.912	1.25
29	MP2A	Z	-8.508	1.25
30	MP2A	Mx	.003	1.25
31	MP2A	X	4.912	5.5
32	MP2A	Z	-8.508	5.5
33	MP2A	Mx	.003	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	2.61	1
2	MP4A	Z	-1.507	1
3	MP4A	Mx	-.001	1
4	MP4A	X	2.61	3
5	MP4A	Z	-1.507	3
6	MP4A	Mx	-.001	3
7	MP2A	X	2.871	3.5
8	MP2A	Z	-1.657	3.5
9	MP2A	Mx	.000957	3.5
10	MP3A	X	2.698	3
11	MP3A	Z	-1.558	3
12	MP3A	Mx	.000899	3
13	MP5A	X	7.531	.25
14	MP5A	Z	-4.348	.25
15	MP5A	Mx	-.002	.25
16	MP5A	X	7.531	5
17	MP5A	Z	-4.348	5
18	MP5A	Mx	-.002	5
19	M11	X	6.821	2
20	M11	Z	-3.938	2
21	M11	Mx	0	2
22	MP2A	X	6.911	1.25
23	MP2A	Z	-3.99	1.25
24	MP2A	Mx	-.006	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP2A	X	6.911	5.5
26	MP2A	Z	-3.99	5.5
27	MP2A	Mx	-.006	5.5
28	MP2A	X	6.911	1.25
29	MP2A	Z	-3.99	1.25
30	MP2A	Mx	-.001	1.25
31	MP2A	X	6.911	5.5
32	MP2A	Z	-3.99	5.5
33	MP2A	Mx	-.001	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	2.171	1
2	MP4A	Z	0	1
3	MP4A	Mx	-.001	1
4	MP4A	X	2.171	3
5	MP4A	Z	0	3
6	MP4A	Mx	-.001	3
7	MP2A	X	2.949	3.5
8	MP2A	Z	0	3.5
9	MP2A	Mx	.000983	3.5
10	MP3A	X	2.684	3
11	MP3A	Z	0	3
12	MP3A	Mx	.000895	3
13	MP5A	X	7.104	.25
14	MP5A	Z	0	.25
15	MP5A	Mx	-.002	.25
16	MP5A	X	7.104	5
17	MP5A	Z	0	5
18	MP5A	Mx	-.002	5
19	M11	X	9.011	2
20	M11	Z	0	2
21	M11	Mx	0	2
22	MP2A	X	7.058	1.25
23	MP2A	Z	0	1.25
24	MP2A	Mx	-.004	1.25
25	MP2A	X	7.058	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.004	5.5
28	MP2A	X	7.058	1.25
29	MP2A	Z	0	1.25
30	MP2A	Mx	-.004	1.25
31	MP2A	X	7.058	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	-.004	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	2.61	1
2	MP4A	Z	1.507	1
3	MP4A	Mx	-.001	1
4	MP4A	X	2.61	3
5	MP4A	Z	1.507	3
6	MP4A	Mx	-.001	3
7	MP2A	X	2.871	3.5
8	MP2A	Z	1.657	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
9	MP2A	Mx	.000957	3.5
10	MP3A	X	2.698	3
11	MP3A	Z	1.558	3
12	MP3A	Mx	.000899	3
13	MP5A	X	7.531	.25
14	MP5A	Z	4.348	.25
15	MP5A	Mx	-.002	.25
16	MP5A	X	7.531	5
17	MP5A	Z	4.348	5
18	MP5A	Mx	-.002	5
19	M11	X	8.296	2
20	M11	Z	4.789	2
21	M11	Mx	0	2
22	MP2A	X	6.911	1.25
23	MP2A	Z	3.99	1.25
24	MP2A	Mx	-.001	1.25
25	MP2A	X	6.911	5.5
26	MP2A	Z	3.99	5.5
27	MP2A	Mx	-.001	5.5
28	MP2A	X	6.911	1.25
29	MP2A	Z	3.99	1.25
30	MP2A	Mx	-.006	1.25
31	MP2A	X	6.911	5.5
32	MP2A	Z	3.99	5.5
33	MP2A	Mx	-.006	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	2.351	1
2	MP4A	Z	4.071	1
3	MP4A	Mx	-.001	1
4	MP4A	X	2.351	3
5	MP4A	Z	4.071	3
6	MP4A	Mx	-.001	3
7	MP2A	X	2.023	3.5
8	MP2A	Z	3.504	3.5
9	MP2A	Mx	.000674	3.5
10	MP3A	X	1.99	3
11	MP3A	Z	3.447	3
12	MP3A	Mx	.000663	3
13	MP5A	X	5.94	.25
14	MP5A	Z	10.288	.25
15	MP5A	Mx	-.001	.25
16	MP5A	X	5.94	5
17	MP5A	Z	10.288	5
18	MP5A	Mx	-.001	5
19	M11	X	4.506	2
20	M11	Z	7.804	2
21	M11	Mx	0	2
22	MP2A	X	4.912	1.25
23	MP2A	Z	8.508	1.25
24	MP2A	Mx	.003	1.25
25	MP2A	X	4.912	5.5
26	MP2A	Z	8.508	5.5
27	MP2A	Mx	.003	5.5
28	MP2A	X	4.912	1.25

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
29	MP2A	Z	8.508	1.25
30	MP2A	Mx	-.007	1.25
31	MP2A	X	4.912	5.5
32	MP2A	Z	8.508	5.5
33	MP2A	Mx	-.007	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	1
2	MP4A	Z	5.544	1
3	MP4A	Mx	0	1
4	MP4A	X	0	3
5	MP4A	Z	5.544	3
6	MP4A	Mx	0	3
7	MP2A	X	0	3.5
8	MP2A	Z	4.412	3.5
9	MP2A	Mx	0	3.5
10	MP3A	X	0	3
11	MP3A	Z	4.412	3
12	MP3A	Mx	0	3
13	MP5A	X	0	.25
14	MP5A	Z	13.472	.25
15	MP5A	Mx	0	.25
16	MP5A	X	0	5
17	MP5A	Z	13.472	5
18	MP5A	Mx	0	5
19	M11	X	0	2
20	M11	Z	7.876	2
21	M11	Mx	0	2
22	MP2A	X	0	1.25
23	MP2A	Z	10.747	1.25
24	MP2A	Mx	.006	1.25
25	MP2A	X	0	5.5
26	MP2A	Z	10.747	5.5
27	MP2A	Mx	.006	5.5
28	MP2A	X	0	1.25
29	MP2A	Z	10.747	1.25
30	MP2A	Mx	-.006	1.25
31	MP2A	X	0	5.5
32	MP2A	Z	10.747	5.5
33	MP2A	Mx	-.006	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.351	1
2	MP4A	Z	4.071	1
3	MP4A	Mx	.001	1
4	MP4A	X	-2.351	3
5	MP4A	Z	4.071	3
6	MP4A	Mx	.001	3
7	MP2A	X	-2.023	3.5
8	MP2A	Z	3.504	3.5
9	MP2A	Mx	-.000674	3.5
10	MP3A	X	-1.99	3
11	MP3A	Z	3.447	3
12	MP3A	Mx	-.000663	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP5A	X	-5.94	.25
14	MP5A	Z	10.288	.25
15	MP5A	Mx	.001	.25
16	MP5A	X	-5.94	5
17	MP5A	Z	10.288	5
18	MP5A	Mx	.001	5
19	M11	X	-3.654	2
20	M11	Z	6.329	2
21	M11	Mx	0	2
22	MP2A	X	-4.912	1.25
23	MP2A	Z	8.508	1.25
24	MP2A	Mx	.007	1.25
25	MP2A	X	-4.912	5.5
26	MP2A	Z	8.508	5.5
27	MP2A	Mx	.007	5.5
28	MP2A	X	-4.912	1.25
29	MP2A	Z	8.508	1.25
30	MP2A	Mx	-.003	1.25
31	MP2A	X	-4.912	5.5
32	MP2A	Z	8.508	5.5
33	MP2A	Mx	-.003	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-2.61	1
2	MP4A	Z	1.507	1
3	MP4A	Mx	.001	1
4	MP4A	X	-2.61	3
5	MP4A	Z	1.507	3
6	MP4A	Mx	.001	3
7	MP2A	X	-2.871	3.5
8	MP2A	Z	1.657	3.5
9	MP2A	Mx	-.000957	3.5
10	MP3A	X	-2.698	3
11	MP3A	Z	1.558	3
12	MP3A	Mx	-.000899	3
13	MP5A	X	-7.531	.25
14	MP5A	Z	4.348	.25
15	MP5A	Mx	.002	.25
16	MP5A	X	-7.531	5
17	MP5A	Z	4.348	5
18	MP5A	Mx	.002	5
19	M11	X	-6.821	2
20	M11	Z	3.938	2
21	M11	Mx	0	2
22	MP2A	X	-6.911	1.25
23	MP2A	Z	3.99	1.25
24	MP2A	Mx	.006	1.25
25	MP2A	X	-6.911	5.5
26	MP2A	Z	3.99	5.5
27	MP2A	Mx	.006	5.5
28	MP2A	X	-6.911	1.25
29	MP2A	Z	3.99	1.25
30	MP2A	Mx	.001	1.25
31	MP2A	X	-6.911	5.5
32	MP2A	Z	3.99	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP2A	Mx	.001	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-2.171	1
2	MP4A	Z	0	1
3	MP4A	Mx	.001	1
4	MP4A	X	-2.171	3
5	MP4A	Z	0	3
6	MP4A	Mx	.001	3
7	MP2A	X	-2.949	3.5
8	MP2A	Z	0	3.5
9	MP2A	Mx	-.000983	3.5
10	MP3A	X	-2.684	3
11	MP3A	Z	0	3
12	MP3A	Mx	-.000895	3
13	MP5A	X	-7.104	.25
14	MP5A	Z	0	.25
15	MP5A	Mx	.002	.25
16	MP5A	X	-7.104	5
17	MP5A	Z	0	5
18	MP5A	Mx	.002	5
19	M11	X	-9.011	2
20	M11	Z	0	2
21	M11	Mx	0	2
22	MP2A	X	-7.058	1.25
23	MP2A	Z	0	1.25
24	MP2A	Mx	.004	1.25
25	MP2A	X	-7.058	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.004	5.5
28	MP2A	X	-7.058	1.25
29	MP2A	Z	0	1.25
30	MP2A	Mx	.004	1.25
31	MP2A	X	-7.058	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	.004	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-2.61	1
2	MP4A	Z	-1.507	1
3	MP4A	Mx	.001	1
4	MP4A	X	-2.61	3
5	MP4A	Z	-1.507	3
6	MP4A	Mx	.001	3
7	MP2A	X	-2.871	3.5
8	MP2A	Z	-1.657	3.5
9	MP2A	Mx	-.000957	3.5
10	MP3A	X	-2.698	3
11	MP3A	Z	-1.558	3
12	MP3A	Mx	-.000899	3
13	MP5A	X	-7.531	.25
14	MP5A	Z	-4.348	.25
15	MP5A	Mx	.002	.25
16	MP5A	X	-7.531	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
17	MP5A	Z	-4.348	5
18	MP5A	Mx	.002	5
19	M11	X	-8.296	2
20	M11	Z	-4.789	2
21	M11	Mx	0	2
22	MP2A	X	-6.911	1.25
23	MP2A	Z	-3.99	1.25
24	MP2A	Mx	.001	1.25
25	MP2A	X	-6.911	5.5
26	MP2A	Z	-3.99	5.5
27	MP2A	Mx	.001	5.5
28	MP2A	X	-6.911	1.25
29	MP2A	Z	-3.99	1.25
30	MP2A	Mx	.006	1.25
31	MP2A	X	-6.911	5.5
32	MP2A	Z	-3.99	5.5
33	MP2A	Mx	.006	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-2.351	1
2	MP4A	Z	-4.071	1
3	MP4A	Mx	.001	1
4	MP4A	X	-2.351	3
5	MP4A	Z	-4.071	3
6	MP4A	Mx	.001	3
7	MP2A	X	-2.023	3.5
8	MP2A	Z	-3.504	3.5
9	MP2A	Mx	-.000674	3.5
10	MP3A	X	-1.99	3
11	MP3A	Z	-3.447	3
12	MP3A	Mx	-.000663	3
13	MP5A	X	-5.94	.25
14	MP5A	Z	-10.288	.25
15	MP5A	Mx	.001	.25
16	MP5A	X	-5.94	5
17	MP5A	Z	-10.288	5
18	MP5A	Mx	.001	5
19	M11	X	-4.506	2
20	M11	Z	-7.804	2
21	M11	Mx	0	2
22	MP2A	X	-4.912	1.25
23	MP2A	Z	-8.508	1.25
24	MP2A	Mx	-.003	1.25
25	MP2A	X	-4.912	5.5
26	MP2A	Z	-8.508	5.5
27	MP2A	Mx	-.003	5.5
28	MP2A	X	-4.912	1.25
29	MP2A	Z	-8.508	1.25
30	MP2A	Mx	.007	1.25
31	MP2A	X	-4.912	5.5
32	MP2A	Z	-8.508	5.5
33	MP2A	Mx	.007	5.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 77 : Lm1) (Continued)

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

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M51	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-250	0

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Y	-1.97	1
2	MP4A	My	-.000985	1
3	MP4A	Mz	0	1
4	MP4A	Y	-1.97	3
5	MP4A	My	-.000985	3
6	MP4A	Mz	0	3
7	MP2A	Y	-3.378	3.5
8	MP2A	My	.001	3.5
9	MP2A	Mz	0	3.5
10	MP3A	Y	-3.179	3
11	MP3A	My	.001	3
12	MP3A	Mz	0	3
13	MP5A	Y	-.898	.25
14	MP5A	My	-.000224	.25
15	MP5A	Mz	0	.25
16	MP5A	Y	-.898	5
17	MP5A	My	-.000224	5
18	MP5A	Mz	0	5
19	M11	Y	-1.447	2
20	M11	My	0	2
21	M11	Mz	0	2
22	MP2A	Y	-1.431	1.25
23	MP2A	My	-.000716	1.25
24	MP2A	Mz	.000835	1.25
25	MP2A	Y	-1.431	5.5
26	MP2A	My	-.000716	5.5
27	MP2A	Mz	.000835	5.5
28	MP2A	Y	-1.431	1.25
29	MP2A	My	-.000716	1.25
30	MP2A	Mz	-.000835	1.25
31	MP2A	Y	-1.431	5.5
32	MP2A	My	-.000716	5.5
33	MP2A	Mz	-.000835	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Z	-4.924	1
2	MP4A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP4A	Z	-4.924	3
4	MP4A	Mx	0	3
5	MP2A	Z	-8.446	3.5
6	MP2A	Mx	0	3.5
7	MP3A	Z	-7.949	3
8	MP3A	Mx	0	3
9	MP5A	Z	-2.244	.25
10	MP5A	Mx	0	.25
11	MP5A	Z	-2.244	5
12	MP5A	Mx	0	5
13	M11	Z	-3.618	2
14	M11	Mx	0	2
15	MP2A	Z	-3.579	1.25
16	MP2A	Mx	-.002	1.25
17	MP2A	Z	-3.579	5.5
18	MP2A	Mx	-.002	5.5
19	MP2A	Z	-3.579	1.25
20	MP2A	Mx	.002	1.25
21	MP2A	Z	-3.579	5.5
22	MP2A	Mx	.002	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	4.924	1
2	MP4A	Mx	-.002	1
3	MP4A	X	4.924	3
4	MP4A	Mx	-.002	3
5	MP2A	X	8.446	3.5
6	MP2A	Mx	.003	3.5
7	MP3A	X	7.949	3
8	MP3A	Mx	.003	3
9	MP5A	X	2.244	.25
10	MP5A	Mx	-.000561	.25
11	MP5A	X	2.244	5
12	MP5A	Mx	-.000561	5
13	M11	X	3.618	2
14	M11	Mx	0	2
15	MP2A	X	3.579	1.25
16	MP2A	Mx	-.002	1.25
17	MP2A	X	3.579	5.5
18	MP2A	Mx	-.002	5.5
19	MP2A	X	3.579	1.25
20	MP2A	Mx	-.002	1.25
21	MP2A	X	3.579	5.5
22	MP2A	Mx	-.002	5.5

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M3	Y	-9.125	-9.125	0	%100
2	M5	Y	-6.217	-6.217	0	%100
3	M6	Y	-6.217	-6.217	0	%100
4	M7	Y	-5.999	-5.999	0	%100
5	M8	Y	-6.217	-6.217	0	%100
6	M9	Y	-6.217	-6.217	0	%100
7	M10	Y	-5.999	-5.999	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
8	M11	Y	-5.264	-5.264	0	%100
9	M12	Y	-5.264	-5.264	0	%100
10	M13	Y	-5.264	-5.264	0	%100
11	M14	Y	-5.264	-5.264	0	%100
12	M15	Y	-6.217	-6.217	0	%100
13	M17	Y	-6.217	-6.217	0	%100
14	M19	Y	-6.217	-6.217	0	%100
15	M20	Y	-6.217	-6.217	0	%100
16	M21	Y	-6.217	-6.217	0	%100
17	M22	Y	-4.565	-4.565	0	%100
18	M23	Y	-4.565	-4.565	0	%100
19	M24	Y	-5.264	-5.264	0	%100
20	M25	Y	-6.217	-6.217	0	%100
21	M26	Y	-6.217	-6.217	0	%100
22	M27	Y	-4.565	-4.565	0	%100
23	M28	Y	-6.217	-6.217	0	%100
24	M29	Y	-4.565	-4.565	0	%100
25	M30	Y	-6.217	-6.217	0	%100
26	M31	Y	-6.217	-6.217	0	%100
27	M32	Y	-6.217	-6.217	0	%100
28	M33	Y	-4.565	-4.565	0	%100
29	M34	Y	-4.565	-4.565	0	%100
30	M35	Y	-5.264	-5.264	0	%100
31	M36	Y	-6.217	-6.217	0	%100
32	MP5A	Y	-5.264	-5.264	0	%100
33	MP3A	Y	-5.264	-5.264	0	%100
34	MP1A	Y	-5.264	-5.264	0	%100
35	M52	Y	-5.264	-5.264	0	%100
36	M53	Y	-4.565	-4.565	0	%100
37	M54	Y	-4.565	-4.565	0	%100
38	MP4A	Y	-5.264	-5.264	0	%100
39	MP2A	Y	-5.999	-5.999	0	%100
40	M65	Y	-5.264	-5.264	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	-10.766	-10.766	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	-.66	-.66	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-.66	-.66	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	-10.317	-10.317	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-.66	-.66	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-.66	-.66	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	-10.317	-10.317	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	-4.18	-4.18	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	-4.18	-4.18	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	-4.18	-4.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M14	X	0	0	0	%100
22	M14	Z	-4.18	-4.18	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-1.42	-1.42	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-1.42	-1.42	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	-1.707	-1.707	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	-1.42	-1.42	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	-1.42	-1.42	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	-6.021	-6.021	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	-6.021	-6.021	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	-6.604	-6.604	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	-1.707	-1.707	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	-1.42	-1.42	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	-5.561	-5.561	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	-1.42	-1.42	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	-5.561	-5.561	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	-1.707	-1.707	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	-1.42	-1.42	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	-1.42	-1.42	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	-6.021	-6.021	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	-6.021	-6.021	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	-6.604	-6.604	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	-1.707	-1.707	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	-8.523	-8.523	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	-8.523	-8.523	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-8.523	-8.523	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-1.537	-1.537	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	-5.561	-5.561	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-5.561	-5.561	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	-8.523	-8.523	0	%100
77	MP2A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
78	MP2A	Z	-10.317	-10.317	0	%100
79	M65	X	0	0	0	%100
80	M65	Z	-.103	-.103	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	4.037	4.037	0	%100
2	M3	Z	-6.993	-6.993	0	%100
3	M5	X	.042	.042	0	%100
4	M5	Z	-.073	-.073	0	%100
5	M6	X	.625	.625	0	%100
6	M6	Z	-1.082	-1.082	0	%100
7	M7	X	3.869	3.869	0	%100
8	M7	Z	-6.701	-6.701	0	%100
9	M8	X	.042	.042	0	%100
10	M8	Z	-.073	-.073	0	%100
11	M9	X	.625	.625	0	%100
12	M9	Z	-1.082	-1.082	0	%100
13	M10	X	3.869	3.869	0	%100
14	M10	Z	-6.701	-6.701	0	%100
15	M11	X	.266	.266	0	%100
16	M11	Z	-.46	-.46	0	%100
17	M12	X	3.955	3.955	0	%100
18	M12	Z	-6.851	-6.851	0	%100
19	M13	X	.266	.266	0	%100
20	M13	Z	-.46	-.46	0	%100
21	M14	X	3.955	3.955	0	%100
22	M14	Z	-6.851	-6.851	0	%100
23	M15	X	1.878	1.878	0	%100
24	M15	Z	-3.253	-3.253	0	%100
25	M17	X	1.878	1.878	0	%100
26	M17	Z	-3.253	-3.253	0	%100
27	M19	X	1.986	1.986	0	%100
28	M19	Z	-3.44	-3.44	0	%100
29	M20	X	1.878	1.878	0	%100
30	M20	Z	-3.253	-3.253	0	%100
31	M21	X	1.878	1.878	0	%100
32	M21	Z	-3.253	-3.253	0	%100
33	M22	X	3.01	3.01	0	%100
34	M22	Z	-5.214	-5.214	0	%100
35	M23	X	3.01	3.01	0	%100
36	M23	Z	-5.214	-5.214	0	%100
37	M24	X	3.302	3.302	0	%100
38	M24	Z	-5.719	-5.719	0	%100
39	M25	X	1.986	1.986	0	%100
40	M25	Z	-3.44	-3.44	0	%100
41	M26	X	1.878	1.878	0	%100
42	M26	Z	-3.253	-3.253	0	%100
43	M27	X	2.252	2.252	0	%100
44	M27	Z	-3.9	-3.9	0	%100
45	M28	X	1.878	1.878	0	%100
46	M28	Z	-3.253	-3.253	0	%100
47	M29	X	2.252	2.252	0	%100
48	M29	Z	-3.9	-3.9	0	%100
49	M30	X	1.986	1.986	0	%100
50	M30	Z	-3.44	-3.44	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
51	M31	X	1.878	1.878	0	%100
52	M31	Z	-3.253	-3.253	0	%100
53	M32	X	1.878	1.878	0	%100
54	M32	Z	-3.253	-3.253	0	%100
55	M33	X	3.01	3.01	0	%100
56	M33	Z	-5.214	-5.214	0	%100
57	M34	X	3.01	3.01	0	%100
58	M34	Z	-5.214	-5.214	0	%100
59	M35	X	3.302	3.302	0	%100
60	M35	Z	-5.719	-5.719	0	%100
61	M36	X	1.986	1.986	0	%100
62	M36	Z	-3.44	-3.44	0	%100
63	MP5A	X	4.261	4.261	0	%100
64	MP5A	Z	-7.381	-7.381	0	%100
65	MP3A	X	4.261	4.261	0	%100
66	MP3A	Z	-7.381	-7.381	0	%100
67	MP1A	X	4.261	4.261	0	%100
68	MP1A	Z	-7.381	-7.381	0	%100
69	M52	X	2.868	2.868	0	%100
70	M52	Z	-4.968	-4.968	0	%100
71	M53	X	3.321	3.321	0	%100
72	M53	Z	-5.751	-5.751	0	%100
73	M54	X	3.321	3.321	0	%100
74	M54	Z	-5.751	-5.751	0	%100
75	MP4A	X	4.261	4.261	0	%100
76	MP4A	Z	-7.381	-7.381	0	%100
77	MP2A	X	5.159	5.159	0	%100
78	MP2A	Z	-8.935	-8.935	0	%100
79	M65	X	1.495	1.495	0	%100
80	M65	Z	-2.589	-2.589	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	2.331	2.331	0	%100
2	M3	Z	-1.346	-1.346	0	%100
3	M5	X	.084	.084	0	%100
4	M5	Z	-.048	-.048	0	%100
5	M6	X	1.093	1.093	0	%100
6	M6	Z	-.631	-.631	0	%100
7	M7	X	2.234	2.234	0	%100
8	M7	Z	-1.29	-1.29	0	%100
9	M8	X	.084	.084	0	%100
10	M8	Z	-.048	-.048	0	%100
11	M9	X	1.093	1.093	0	%100
12	M9	Z	-.631	-.631	0	%100
13	M10	X	2.234	2.234	0	%100
14	M10	Z	-1.29	-1.29	0	%100
15	M11	X	.53	.53	0	%100
16	M11	Z	-.306	-.306	0	%100
17	M12	X	6.921	6.921	0	%100
18	M12	Z	-3.996	-3.996	0	%100
19	M13	X	.53	.53	0	%100
20	M13	Z	-.306	-.306	0	%100
21	M14	X	6.921	6.921	0	%100
22	M14	Z	-3.996	-3.996	0	%100
23	M15	X	7.3	7.3	0	%100

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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
24	M15	Z	-4.215	-4.215	0	%100
25	M17	X	7.3	7.3	0	%100
26	M17	Z	-4.215	-4.215	0	%100
27	M19	X	7.362	7.362	0	%100
28	M19	Z	-4.251	-4.251	0	%100
29	M20	X	7.3	7.3	0	%100
30	M20	Z	-4.215	-4.215	0	%100
31	M21	X	7.3	7.3	0	%100
32	M21	Z	-4.215	-4.215	0	%100
33	M22	X	5.214	5.214	0	%100
34	M22	Z	-3.01	-3.01	0	%100
35	M23	X	5.214	5.214	0	%100
36	M23	Z	-3.01	-3.01	0	%100
37	M24	X	5.719	5.719	0	%100
38	M24	Z	-3.302	-3.302	0	%100
39	M25	X	7.362	7.362	0	%100
40	M25	Z	-4.251	-4.251	0	%100
41	M26	X	7.3	7.3	0	%100
42	M26	Z	-4.215	-4.215	0	%100
43	M27	X	3.921	3.921	0	%100
44	M27	Z	-2.264	-2.264	0	%100
45	M28	X	7.3	7.3	0	%100
46	M28	Z	-4.215	-4.215	0	%100
47	M29	X	3.921	3.921	0	%100
48	M29	Z	-2.264	-2.264	0	%100
49	M30	X	7.362	7.362	0	%100
50	M30	Z	-4.251	-4.251	0	%100
51	M31	X	7.3	7.3	0	%100
52	M31	Z	-4.215	-4.215	0	%100
53	M32	X	7.3	7.3	0	%100
54	M32	Z	-4.215	-4.215	0	%100
55	M33	X	5.214	5.214	0	%100
56	M33	Z	-3.01	-3.01	0	%100
57	M34	X	5.214	5.214	0	%100
58	M34	Z	-3.01	-3.01	0	%100
59	M35	X	5.719	5.719	0	%100
60	M35	Z	-3.302	-3.302	0	%100
61	M36	X	7.362	7.362	0	%100
62	M36	Z	-4.251	-4.251	0	%100
63	MP5A	X	7.381	7.381	0	%100
64	MP5A	Z	-4.261	-4.261	0	%100
65	MP3A	X	7.381	7.381	0	%100
66	MP3A	Z	-4.261	-4.261	0	%100
67	MP1A	X	7.381	7.381	0	%100
68	MP1A	Z	-4.261	-4.261	0	%100
69	M52	X	7.328	7.328	0	%100
70	M52	Z	-4.231	-4.231	0	%100
71	M53	X	5.772	5.772	0	%100
72	M53	Z	-3.332	-3.332	0	%100
73	M54	X	5.772	5.772	0	%100
74	M54	Z	-3.332	-3.332	0	%100
75	MP4A	X	7.381	7.381	0	%100
76	MP4A	Z	-4.261	-4.261	0	%100
77	MP2A	X	8.935	8.935	0	%100
78	MP2A	Z	-5.159	-5.159	0	%100
79	M65	X	6.19	6.19	0	%100
80	M65	Z	-3.574	-3.574	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	.686	.686	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	.686	.686	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	.686	.686	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	.686	.686	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	4.343	4.343	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	4.343	4.343	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	4.343	4.343	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	4.343	4.343	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	10.766	10.766	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	10.766	10.766	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	10.766	10.766	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	10.766	10.766	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	10.766	10.766	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	6.021	6.021	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	6.021	6.021	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	6.604	6.604	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	10.766	10.766	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	10.766	10.766	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	5.608	5.608	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	10.766	10.766	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	5.608	5.608	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	10.766	10.766	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	10.766	10.766	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	10.766	10.766	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	6.021	6.021	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	6.021	6.021	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M34	Z	0	0	0	%100
59	M35	X	6.604	6.604	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	10.766	10.766	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	8.523	8.523	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	8.523	8.523	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	8.523	8.523	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	6.986	6.986	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	5.608	5.608	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	5.608	5.608	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	8.523	8.523	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	10.317	10.317	0	%100
78	MP2A	Z	0	0	0	%100
79	M65	X	8.42	8.42	0	%100
80	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	2.331	2.331	0	%100
2	M3	Z	1.346	1.346	0	%100
3	M5	X	1.093	1.093	0	%100
4	M5	Z	.631	.631	0	%100
5	M6	X	.084	.084	0	%100
6	M6	Z	.048	.048	0	%100
7	M7	X	2.234	2.234	0	%100
8	M7	Z	1.29	1.29	0	%100
9	M8	X	1.093	1.093	0	%100
10	M8	Z	.631	.631	0	%100
11	M9	X	.084	.084	0	%100
12	M9	Z	.048	.048	0	%100
13	M10	X	2.234	2.234	0	%100
14	M10	Z	1.29	1.29	0	%100
15	M11	X	6.921	6.921	0	%100
16	M11	Z	3.996	3.996	0	%100
17	M12	X	.53	.53	0	%100
18	M12	Z	.306	.306	0	%100
19	M13	X	6.921	6.921	0	%100
20	M13	Z	3.996	3.996	0	%100
21	M14	X	.53	.53	0	%100
22	M14	Z	.306	.306	0	%100
23	M15	X	7.3	7.3	0	%100
24	M15	Z	4.215	4.215	0	%100
25	M17	X	7.3	7.3	0	%100
26	M17	Z	4.215	4.215	0	%100
27	M19	X	7.362	7.362	0	%100
28	M19	Z	4.251	4.251	0	%100
29	M20	X	7.3	7.3	0	%100
30	M20	Z	4.215	4.215	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	M21	X	7.3	7.3	0	%100
32	M21	Z	4.215	4.215	0	%100
33	M22	X	5.214	5.214	0	%100
34	M22	Z	3.01	3.01	0	%100
35	M23	X	5.214	5.214	0	%100
36	M23	Z	3.01	3.01	0	%100
37	M24	X	5.719	5.719	0	%100
38	M24	Z	3.302	3.302	0	%100
39	M25	X	7.362	7.362	0	%100
40	M25	Z	4.251	4.251	0	%100
41	M26	X	7.3	7.3	0	%100
42	M26	Z	4.215	4.215	0	%100
43	M27	X	5.772	5.772	0	%100
44	M27	Z	3.332	3.332	0	%100
45	M28	X	7.3	7.3	0	%100
46	M28	Z	4.215	4.215	0	%100
47	M29	X	5.772	5.772	0	%100
48	M29	Z	3.332	3.332	0	%100
49	M30	X	7.362	7.362	0	%100
50	M30	Z	4.251	4.251	0	%100
51	M31	X	7.3	7.3	0	%100
52	M31	Z	4.215	4.215	0	%100
53	M32	X	7.3	7.3	0	%100
54	M32	Z	4.215	4.215	0	%100
55	M33	X	5.214	5.214	0	%100
56	M33	Z	3.01	3.01	0	%100
57	M34	X	5.214	5.214	0	%100
58	M34	Z	3.01	3.01	0	%100
59	M35	X	5.719	5.719	0	%100
60	M35	Z	3.302	3.302	0	%100
61	M36	X	7.362	7.362	0	%100
62	M36	Z	4.251	4.251	0	%100
63	MP5A	X	7.381	7.381	0	%100
64	MP5A	Z	4.261	4.261	0	%100
65	MP3A	X	7.381	7.381	0	%100
66	MP3A	Z	4.261	4.261	0	%100
67	MP1A	X	7.381	7.381	0	%100
68	MP1A	Z	4.261	4.261	0	%100
69	M52	X	2.413	2.413	0	%100
70	M52	Z	1.393	1.393	0	%100
71	M53	X	3.921	3.921	0	%100
72	M53	Z	2.264	2.264	0	%100
73	M54	X	3.921	3.921	0	%100
74	M54	Z	2.264	2.264	0	%100
75	MP4A	X	7.381	7.381	0	%100
76	MP4A	Z	4.261	4.261	0	%100
77	MP2A	X	8.935	8.935	0	%100
78	MP2A	Z	5.159	5.159	0	%100
79	M65	X	4.792	4.792	0	%100
80	M65	Z	2.767	2.767	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	4.037	4.037	0	%100
2	M3	Z	6.993	6.993	0	%100
3	M5	X	.625	.625	0	%100

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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
4	M5	Z	1.082	1.082	0	%100
5	M6	X	.042	.042	0	%100
6	M6	Z	.073	.073	0	%100
7	M7	X	3.869	3.869	0	%100
8	M7	Z	6.701	6.701	0	%100
9	M8	X	.625	.625	0	%100
10	M8	Z	1.082	1.082	0	%100
11	M9	X	.042	.042	0	%100
12	M9	Z	.073	.073	0	%100
13	M10	X	3.869	3.869	0	%100
14	M10	Z	6.701	6.701	0	%100
15	M11	X	3.955	3.955	0	%100
16	M11	Z	6.851	6.851	0	%100
17	M12	X	.266	.266	0	%100
18	M12	Z	.46	.46	0	%100
19	M13	X	3.955	3.955	0	%100
20	M13	Z	6.851	6.851	0	%100
21	M14	X	.266	.266	0	%100
22	M14	Z	.46	.46	0	%100
23	M15	X	1.878	1.878	0	%100
24	M15	Z	3.253	3.253	0	%100
25	M17	X	1.878	1.878	0	%100
26	M17	Z	3.253	3.253	0	%100
27	M19	X	1.986	1.986	0	%100
28	M19	Z	3.44	3.44	0	%100
29	M20	X	1.878	1.878	0	%100
30	M20	Z	3.253	3.253	0	%100
31	M21	X	1.878	1.878	0	%100
32	M21	Z	3.253	3.253	0	%100
33	M22	X	3.01	3.01	0	%100
34	M22	Z	5.214	5.214	0	%100
35	M23	X	3.01	3.01	0	%100
36	M23	Z	5.214	5.214	0	%100
37	M24	X	3.302	3.302	0	%100
38	M24	Z	5.719	5.719	0	%100
39	M25	X	1.986	1.986	0	%100
40	M25	Z	3.44	3.44	0	%100
41	M26	X	1.878	1.878	0	%100
42	M26	Z	3.253	3.253	0	%100
43	M27	X	3.321	3.321	0	%100
44	M27	Z	5.751	5.751	0	%100
45	M28	X	1.878	1.878	0	%100
46	M28	Z	3.253	3.253	0	%100
47	M29	X	3.321	3.321	0	%100
48	M29	Z	5.751	5.751	0	%100
49	M30	X	1.986	1.986	0	%100
50	M30	Z	3.44	3.44	0	%100
51	M31	X	1.878	1.878	0	%100
52	M31	Z	3.253	3.253	0	%100
53	M32	X	1.878	1.878	0	%100
54	M32	Z	3.253	3.253	0	%100
55	M33	X	3.01	3.01	0	%100
56	M33	Z	5.214	5.214	0	%100
57	M34	X	3.01	3.01	0	%100
58	M34	Z	5.214	5.214	0	%100
59	M35	X	3.302	3.302	0	%100
60	M35	Z	5.719	5.719	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M36	X	1.986	1.986	0	%100
62	M36	Z	3.44	3.44	0	%100
63	MP5A	X	4.261	4.261	0	%100
64	MP5A	Z	7.381	7.381	0	%100
65	MP3A	X	4.261	4.261	0	%100
66	MP3A	Z	7.381	7.381	0	%100
67	MP1A	X	4.261	4.261	0	%100
68	MP1A	Z	7.381	7.381	0	%100
69	M52	X	.031	.031	0	%100
70	M52	Z	.053	.053	0	%100
71	M53	X	2.252	2.252	0	%100
72	M53	Z	3.9	3.9	0	%100
73	M54	X	2.252	2.252	0	%100
74	M54	Z	3.9	3.9	0	%100
75	MP4A	X	4.261	4.261	0	%100
76	MP4A	Z	7.381	7.381	0	%100
77	MP2A	X	5.159	5.159	0	%100
78	MP2A	Z	8.935	8.935	0	%100
79	M65	X	.688	.688	0	%100
80	M65	Z	1.191	1.191	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	10.766	10.766	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	.66	.66	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	.66	.66	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	10.317	10.317	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.66	.66	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	.66	.66	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	10.317	10.317	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	4.18	4.18	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	4.18	4.18	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	4.18	4.18	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	4.18	4.18	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	1.42	1.42	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	1.42	1.42	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	1.707	1.707	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	1.42	1.42	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	1.42	1.42	0	%100
33	M22	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
34	M22	Z	6.021	6.021	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	6.021	6.021	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	6.604	6.604	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	1.707	1.707	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	1.42	1.42	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	5.561	5.561	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	1.42	1.42	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	5.561	5.561	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	1.707	1.707	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	1.42	1.42	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	1.42	1.42	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	6.021	6.021	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	6.021	6.021	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	6.604	6.604	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	1.707	1.707	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	8.523	8.523	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	8.523	8.523	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	8.523	8.523	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	1.537	1.537	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	5.561	5.561	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	5.561	5.561	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	8.523	8.523	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	10.317	10.317	0	%100
79	M65	X	0	0	0	%100
80	M65	Z	.103	.103	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-4.037	-4.037	0	%100
2	M3	Z	6.993	6.993	0	%100
3	M5	X	-.042	-.042	0	%100
4	M5	Z	.073	.073	0	%100
5	M6	X	-.625	-.625	0	%100
6	M6	Z	1.082	1.082	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
7	M7	X	-3.869	-3.869	0	%100
8	M7	Z	6.701	6.701	0	%100
9	M8	X	-.042	-.042	0	%100
10	M8	Z	.073	.073	0	%100
11	M9	X	-.625	-.625	0	%100
12	M9	Z	1.082	1.082	0	%100
13	M10	X	-3.869	-3.869	0	%100
14	M10	Z	6.701	6.701	0	%100
15	M11	X	-.266	-.266	0	%100
16	M11	Z	.46	.46	0	%100
17	M12	X	-3.955	-3.955	0	%100
18	M12	Z	6.851	6.851	0	%100
19	M13	X	-.266	-.266	0	%100
20	M13	Z	.46	.46	0	%100
21	M14	X	-3.955	-3.955	0	%100
22	M14	Z	6.851	6.851	0	%100
23	M15	X	-1.878	-1.878	0	%100
24	M15	Z	3.253	3.253	0	%100
25	M17	X	-1.878	-1.878	0	%100
26	M17	Z	3.253	3.253	0	%100
27	M19	X	-1.986	-1.986	0	%100
28	M19	Z	3.44	3.44	0	%100
29	M20	X	-1.878	-1.878	0	%100
30	M20	Z	3.253	3.253	0	%100
31	M21	X	-1.878	-1.878	0	%100
32	M21	Z	3.253	3.253	0	%100
33	M22	X	-3.01	-3.01	0	%100
34	M22	Z	5.214	5.214	0	%100
35	M23	X	-3.01	-3.01	0	%100
36	M23	Z	5.214	5.214	0	%100
37	M24	X	-3.302	-3.302	0	%100
38	M24	Z	5.719	5.719	0	%100
39	M25	X	-1.986	-1.986	0	%100
40	M25	Z	3.44	3.44	0	%100
41	M26	X	-1.878	-1.878	0	%100
42	M26	Z	3.253	3.253	0	%100
43	M27	X	-2.252	-2.252	0	%100
44	M27	Z	3.9	3.9	0	%100
45	M28	X	-1.878	-1.878	0	%100
46	M28	Z	3.253	3.253	0	%100
47	M29	X	-2.252	-2.252	0	%100
48	M29	Z	3.9	3.9	0	%100
49	M30	X	-1.986	-1.986	0	%100
50	M30	Z	3.44	3.44	0	%100
51	M31	X	-1.878	-1.878	0	%100
52	M31	Z	3.253	3.253	0	%100
53	M32	X	-1.878	-1.878	0	%100
54	M32	Z	3.253	3.253	0	%100
55	M33	X	-3.01	-3.01	0	%100
56	M33	Z	5.214	5.214	0	%100
57	M34	X	-3.01	-3.01	0	%100
58	M34	Z	5.214	5.214	0	%100
59	M35	X	-3.302	-3.302	0	%100
60	M35	Z	5.719	5.719	0	%100
61	M36	X	-1.986	-1.986	0	%100
62	M36	Z	3.44	3.44	0	%100
63	MP5A	X	-4.261	-4.261	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
64	MP5A	Z	7.381	7.381	0	%100
65	MP3A	X	-4.261	-4.261	0	%100
66	MP3A	Z	7.381	7.381	0	%100
67	MP1A	X	-4.261	-4.261	0	%100
68	MP1A	Z	7.381	7.381	0	%100
69	M52	X	-2.868	-2.868	0	%100
70	M52	Z	4.968	4.968	0	%100
71	M53	X	-3.321	-3.321	0	%100
72	M53	Z	5.751	5.751	0	%100
73	M54	X	-3.321	-3.321	0	%100
74	M54	Z	5.751	5.751	0	%100
75	MP4A	X	-4.261	-4.261	0	%100
76	MP4A	Z	7.381	7.381	0	%100
77	MP2A	X	-5.159	-5.159	0	%100
78	MP2A	Z	8.935	8.935	0	%100
79	M65	X	-1.495	-1.495	0	%100
80	M65	Z	2.589	2.589	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-2.331	-2.331	0	%100
2	M3	Z	1.346	1.346	0	%100
3	M5	X	-.084	-.084	0	%100
4	M5	Z	.048	.048	0	%100
5	M6	X	-1.093	-1.093	0	%100
6	M6	Z	.631	.631	0	%100
7	M7	X	-2.234	-2.234	0	%100
8	M7	Z	1.29	1.29	0	%100
9	M8	X	-.084	-.084	0	%100
10	M8	Z	.048	.048	0	%100
11	M9	X	-1.093	-1.093	0	%100
12	M9	Z	.631	.631	0	%100
13	M10	X	-2.234	-2.234	0	%100
14	M10	Z	1.29	1.29	0	%100
15	M11	X	-.53	-.53	0	%100
16	M11	Z	.306	.306	0	%100
17	M12	X	-6.921	-6.921	0	%100
18	M12	Z	3.996	3.996	0	%100
19	M13	X	-.53	-.53	0	%100
20	M13	Z	.306	.306	0	%100
21	M14	X	-6.921	-6.921	0	%100
22	M14	Z	3.996	3.996	0	%100
23	M15	X	-7.3	-7.3	0	%100
24	M15	Z	4.215	4.215	0	%100
25	M17	X	-7.3	-7.3	0	%100
26	M17	Z	4.215	4.215	0	%100
27	M19	X	-7.362	-7.362	0	%100
28	M19	Z	4.251	4.251	0	%100
29	M20	X	-7.3	-7.3	0	%100
30	M20	Z	4.215	4.215	0	%100
31	M21	X	-7.3	-7.3	0	%100
32	M21	Z	4.215	4.215	0	%100
33	M22	X	-5.214	-5.214	0	%100
34	M22	Z	3.01	3.01	0	%100
35	M23	X	-5.214	-5.214	0	%100
36	M23	Z	3.01	3.01	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	M24	X	-5.719	-5.719	0	%100
38	M24	Z	3.302	3.302	0	%100
39	M25	X	-7.362	-7.362	0	%100
40	M25	Z	4.251	4.251	0	%100
41	M26	X	-7.3	-7.3	0	%100
42	M26	Z	4.215	4.215	0	%100
43	M27	X	-3.921	-3.921	0	%100
44	M27	Z	2.264	2.264	0	%100
45	M28	X	-7.3	-7.3	0	%100
46	M28	Z	4.215	4.215	0	%100
47	M29	X	-3.921	-3.921	0	%100
48	M29	Z	2.264	2.264	0	%100
49	M30	X	-7.362	-7.362	0	%100
50	M30	Z	4.251	4.251	0	%100
51	M31	X	-7.3	-7.3	0	%100
52	M31	Z	4.215	4.215	0	%100
53	M32	X	-7.3	-7.3	0	%100
54	M32	Z	4.215	4.215	0	%100
55	M33	X	-5.214	-5.214	0	%100
56	M33	Z	3.01	3.01	0	%100
57	M34	X	-5.214	-5.214	0	%100
58	M34	Z	3.01	3.01	0	%100
59	M35	X	-5.719	-5.719	0	%100
60	M35	Z	3.302	3.302	0	%100
61	M36	X	-7.362	-7.362	0	%100
62	M36	Z	4.251	4.251	0	%100
63	MP5A	X	-7.381	-7.381	0	%100
64	MP5A	Z	4.261	4.261	0	%100
65	MP3A	X	-7.381	-7.381	0	%100
66	MP3A	Z	4.261	4.261	0	%100
67	MP1A	X	-7.381	-7.381	0	%100
68	MP1A	Z	4.261	4.261	0	%100
69	M52	X	-7.328	-7.328	0	%100
70	M52	Z	4.231	4.231	0	%100
71	M53	X	-5.772	-5.772	0	%100
72	M53	Z	3.332	3.332	0	%100
73	M54	X	-5.772	-5.772	0	%100
74	M54	Z	3.332	3.332	0	%100
75	MP4A	X	-7.381	-7.381	0	%100
76	MP4A	Z	4.261	4.261	0	%100
77	MP2A	X	-8.935	-8.935	0	%100
78	MP2A	Z	5.159	5.159	0	%100
79	M65	X	-6.19	-6.19	0	%100
80	M65	Z	3.574	3.574	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	-686	-686	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	-686	-686	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	-686	-686	0	%100

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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
10	M8	Z	0	0	0	%100
11	M9	X	-686	-686	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	-4.343	-4.343	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	-4.343	-4.343	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	-4.343	-4.343	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	-4.343	-4.343	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	-10.766	-10.766	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	-10.766	-10.766	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	-10.766	-10.766	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	-10.766	-10.766	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	-10.766	-10.766	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	-6.021	-6.021	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-6.021	-6.021	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	-6.604	-6.604	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	-10.766	-10.766	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	-10.766	-10.766	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	-5.608	-5.608	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	-10.766	-10.766	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	-5.608	-5.608	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	-10.766	-10.766	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	-10.766	-10.766	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	-10.766	-10.766	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	-6.021	-6.021	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	-6.021	-6.021	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	-6.604	-6.604	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	-10.766	-10.766	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	-8.523	-8.523	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	-8.523	-8.523	0	%100
66	MP3A	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,F...	Start Location[ft, %]	End Location[ft, %]
67	MP1A	X	-8.523	-8.523	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	-6.986	-6.986	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	-5.608	-5.608	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	-5.608	-5.608	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	-8.523	-8.523	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	-10.317	-10.317	0	%100
78	MP2A	Z	0	0	0	%100
79	M65	X	-8.42	-8.42	0	%100
80	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-2.331	-2.331	0	%100
2	M3	Z	-1.346	-1.346	0	%100
3	M5	X	-1.093	-1.093	0	%100
4	M5	Z	-.631	-.631	0	%100
5	M6	X	-.084	-.084	0	%100
6	M6	Z	-.048	-.048	0	%100
7	M7	X	-2.234	-2.234	0	%100
8	M7	Z	-1.29	-1.29	0	%100
9	M8	X	-1.093	-1.093	0	%100
10	M8	Z	-.631	-.631	0	%100
11	M9	X	-.084	-.084	0	%100
12	M9	Z	-.048	-.048	0	%100
13	M10	X	-2.234	-2.234	0	%100
14	M10	Z	-1.29	-1.29	0	%100
15	M11	X	-6.921	-6.921	0	%100
16	M11	Z	-3.996	-3.996	0	%100
17	M12	X	-.53	-.53	0	%100
18	M12	Z	-.306	-.306	0	%100
19	M13	X	-6.921	-6.921	0	%100
20	M13	Z	-3.996	-3.996	0	%100
21	M14	X	-.53	-.53	0	%100
22	M14	Z	-.306	-.306	0	%100
23	M15	X	-7.3	-7.3	0	%100
24	M15	Z	-4.215	-4.215	0	%100
25	M17	X	-7.3	-7.3	0	%100
26	M17	Z	-4.215	-4.215	0	%100
27	M19	X	-7.362	-7.362	0	%100
28	M19	Z	-4.251	-4.251	0	%100
29	M20	X	-7.3	-7.3	0	%100
30	M20	Z	-4.215	-4.215	0	%100
31	M21	X	-7.3	-7.3	0	%100
32	M21	Z	-4.215	-4.215	0	%100
33	M22	X	-5.214	-5.214	0	%100
34	M22	Z	-3.01	-3.01	0	%100
35	M23	X	-5.214	-5.214	0	%100
36	M23	Z	-3.01	-3.01	0	%100
37	M24	X	-5.719	-5.719	0	%100
38	M24	Z	-3.302	-3.302	0	%100
39	M25	X	-7.362	-7.362	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
40	M25	Z	-4.251	-4.251	0	%100
41	M26	X	-7.3	-7.3	0	%100
42	M26	Z	-4.215	-4.215	0	%100
43	M27	X	-5.772	-5.772	0	%100
44	M27	Z	-3.332	-3.332	0	%100
45	M28	X	-7.3	-7.3	0	%100
46	M28	Z	-4.215	-4.215	0	%100
47	M29	X	-5.772	-5.772	0	%100
48	M29	Z	-3.332	-3.332	0	%100
49	M30	X	-7.362	-7.362	0	%100
50	M30	Z	-4.251	-4.251	0	%100
51	M31	X	-7.3	-7.3	0	%100
52	M31	Z	-4.215	-4.215	0	%100
53	M32	X	-7.3	-7.3	0	%100
54	M32	Z	-4.215	-4.215	0	%100
55	M33	X	-5.214	-5.214	0	%100
56	M33	Z	-3.01	-3.01	0	%100
57	M34	X	-5.214	-5.214	0	%100
58	M34	Z	-3.01	-3.01	0	%100
59	M35	X	-5.719	-5.719	0	%100
60	M35	Z	-3.302	-3.302	0	%100
61	M36	X	-7.362	-7.362	0	%100
62	M36	Z	-4.251	-4.251	0	%100
63	MP5A	X	-7.381	-7.381	0	%100
64	MP5A	Z	-4.261	-4.261	0	%100
65	MP3A	X	-7.381	-7.381	0	%100
66	MP3A	Z	-4.261	-4.261	0	%100
67	MP1A	X	-7.381	-7.381	0	%100
68	MP1A	Z	-4.261	-4.261	0	%100
69	M52	X	-2.413	-2.413	0	%100
70	M52	Z	-1.393	-1.393	0	%100
71	M53	X	-3.921	-3.921	0	%100
72	M53	Z	-2.264	-2.264	0	%100
73	M54	X	-3.921	-3.921	0	%100
74	M54	Z	-2.264	-2.264	0	%100
75	MP4A	X	-7.381	-7.381	0	%100
76	MP4A	Z	-4.261	-4.261	0	%100
77	MP2A	X	-8.935	-8.935	0	%100
78	MP2A	Z	-5.159	-5.159	0	%100
79	M65	X	-4.792	-4.792	0	%100
80	M65	Z	-2.767	-2.767	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-4.037	-4.037	0	%100
2	M3	Z	-6.993	-6.993	0	%100
3	M5	X	-6.625	-6.625	0	%100
4	M5	Z	-1.082	-1.082	0	%100
5	M6	X	-.042	-.042	0	%100
6	M6	Z	-.073	-.073	0	%100
7	M7	X	-3.869	-3.869	0	%100
8	M7	Z	-6.701	-6.701	0	%100
9	M8	X	-.625	-.625	0	%100
10	M8	Z	-1.082	-1.082	0	%100
11	M9	X	-.042	-.042	0	%100
12	M9	Z	-.073	-.073	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M10	X	-3.869	-3.869	0 %100
14	M10	Z	-6.701	-6.701	0 %100
15	M11	X	-3.955	-3.955	0 %100
16	M11	Z	-6.851	-6.851	0 %100
17	M12	X	-.266	-.266	0 %100
18	M12	Z	-.46	-.46	0 %100
19	M13	X	-3.955	-3.955	0 %100
20	M13	Z	-6.851	-6.851	0 %100
21	M14	X	-.266	-.266	0 %100
22	M14	Z	-.46	-.46	0 %100
23	M15	X	-1.878	-1.878	0 %100
24	M15	Z	-3.253	-3.253	0 %100
25	M17	X	-1.878	-1.878	0 %100
26	M17	Z	-3.253	-3.253	0 %100
27	M19	X	-1.986	-1.986	0 %100
28	M19	Z	-3.44	-3.44	0 %100
29	M20	X	-1.878	-1.878	0 %100
30	M20	Z	-3.253	-3.253	0 %100
31	M21	X	-1.878	-1.878	0 %100
32	M21	Z	-3.253	-3.253	0 %100
33	M22	X	-3.01	-3.01	0 %100
34	M22	Z	-5.214	-5.214	0 %100
35	M23	X	-3.01	-3.01	0 %100
36	M23	Z	-5.214	-5.214	0 %100
37	M24	X	-3.302	-3.302	0 %100
38	M24	Z	-5.719	-5.719	0 %100
39	M25	X	-1.986	-1.986	0 %100
40	M25	Z	-3.44	-3.44	0 %100
41	M26	X	-1.878	-1.878	0 %100
42	M26	Z	-3.253	-3.253	0 %100
43	M27	X	-3.321	-3.321	0 %100
44	M27	Z	-5.751	-5.751	0 %100
45	M28	X	-1.878	-1.878	0 %100
46	M28	Z	-3.253	-3.253	0 %100
47	M29	X	-3.321	-3.321	0 %100
48	M29	Z	-5.751	-5.751	0 %100
49	M30	X	-1.986	-1.986	0 %100
50	M30	Z	-3.44	-3.44	0 %100
51	M31	X	-1.878	-1.878	0 %100
52	M31	Z	-3.253	-3.253	0 %100
53	M32	X	-1.878	-1.878	0 %100
54	M32	Z	-3.253	-3.253	0 %100
55	M33	X	-3.01	-3.01	0 %100
56	M33	Z	-5.214	-5.214	0 %100
57	M34	X	-3.01	-3.01	0 %100
58	M34	Z	-5.214	-5.214	0 %100
59	M35	X	-3.302	-3.302	0 %100
60	M35	Z	-5.719	-5.719	0 %100
61	M36	X	-1.986	-1.986	0 %100
62	M36	Z	-3.44	-3.44	0 %100
63	MP5A	X	-4.261	-4.261	0 %100
64	MP5A	Z	-7.381	-7.381	0 %100
65	MP3A	X	-4.261	-4.261	0 %100
66	MP3A	Z	-7.381	-7.381	0 %100
67	MP1A	X	-4.261	-4.261	0 %100
68	MP1A	Z	-7.381	-7.381	0 %100
69	M52	X	-.031	-.031	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
70	M52	Z	-0.053	-0.053	0	%100
71	M53	X	-2.252	-2.252	0	%100
72	M53	Z	-3.9	-3.9	0	%100
73	M54	X	-2.252	-2.252	0	%100
74	M54	Z	-3.9	-3.9	0	%100
75	MP4A	X	-4.261	-4.261	0	%100
76	MP4A	Z	-7.381	-7.381	0	%100
77	MP2A	X	-5.159	-5.159	0	%100
78	MP2A	Z	-8.935	-8.935	0	%100
79	M65	X	-0.688	-0.688	0	%100
80	M65	Z	-1.191	-1.191	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	-2.895	-2.895	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	-0.572	-0.572	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-0.572	-0.572	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	-3.462	-3.462	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-0.572	-0.572	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-0.572	-0.572	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	-3.462	-3.462	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	-1.537	-1.537	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	-1.537	-1.537	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	-1.537	-1.537	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	-1.537	-1.537	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-1.18	-1.18	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-1.18	-1.18	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	-1.232	-1.232	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	-1.18	-1.18	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	-1.18	-1.18	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	-2.378	-2.378	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	-2.378	-2.378	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	-2.424	-2.424	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	-1.232	-1.232	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	-1.18	-1.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	M27	X	0	0	0	%100
44	M27	Z	-2.184	-2.184	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	-1.18	-1.18	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	-2.184	-2.184	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	-1.232	-1.232	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	-1.18	-1.18	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	-1.18	-1.18	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	-2.378	-2.378	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	-2.378	-2.378	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	-2.424	-2.424	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	-1.232	-1.232	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	-3.134	-3.134	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	-3.134	-3.134	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-3.134	-3.134	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-.565	-.565	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	-2.184	-2.184	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-2.184	-2.184	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	-3.134	-3.134	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-3.462	-3.462	0	%100
79	M65	X	0	0	0	%100
80	M65	Z	-.038	-.038	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	1.086	1.086	0	%100
2	M3	Z	-1.881	-1.881	0	%100
3	M5	X	.036	.036	0	%100
4	M5	Z	-.063	-.063	0	%100
5	M6	X	.541	.541	0	%100
6	M6	Z	-.937	-.937	0	%100
7	M7	X	1.298	1.298	0	%100
8	M7	Z	-2.249	-2.249	0	%100
9	M8	X	.036	.036	0	%100
10	M8	Z	-.063	-.063	0	%100
11	M9	X	.541	.541	0	%100
12	M9	Z	-.937	-.937	0	%100
13	M10	X	1.298	1.298	0	%100
14	M10	Z	-2.249	-2.249	0	%100
15	M11	X	.098	.098	0	%100

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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
16	M11	Z	-.169	-.169	0	%100
17	M12	X	1.455	1.455	0	%100
18	M12	Z	-2.52	-2.52	0	%100
19	M13	X	.098	.098	0	%100
20	M13	Z	-.169	-.169	0	%100
21	M14	X	1.455	1.455	0	%100
22	M14	Z	-2.52	-2.52	0	%100
23	M15	X	.803	.803	0	%100
24	M15	Z	-1.391	-1.391	0	%100
25	M17	X	.803	.803	0	%100
26	M17	Z	-1.391	-1.391	0	%100
27	M19	X	.823	.823	0	%100
28	M19	Z	-1.425	-1.425	0	%100
29	M20	X	.803	.803	0	%100
30	M20	Z	-1.391	-1.391	0	%100
31	M21	X	.803	.803	0	%100
32	M21	Z	-1.391	-1.391	0	%100
33	M22	X	1.189	1.189	0	%100
34	M22	Z	-2.059	-2.059	0	%100
35	M23	X	1.189	1.189	0	%100
36	M23	Z	-2.059	-2.059	0	%100
37	M24	X	1.212	1.212	0	%100
38	M24	Z	-2.099	-2.099	0	%100
39	M25	X	.823	.823	0	%100
40	M25	Z	-1.425	-1.425	0	%100
41	M26	X	.803	.803	0	%100
42	M26	Z	-1.391	-1.391	0	%100
43	M27	X	.884	.884	0	%100
44	M27	Z	-1.532	-1.532	0	%100
45	M28	X	.803	.803	0	%100
46	M28	Z	-1.391	-1.391	0	%100
47	M29	X	.884	.884	0	%100
48	M29	Z	-1.532	-1.532	0	%100
49	M30	X	.823	.823	0	%100
50	M30	Z	-1.425	-1.425	0	%100
51	M31	X	.803	.803	0	%100
52	M31	Z	-1.391	-1.391	0	%100
53	M32	X	.803	.803	0	%100
54	M32	Z	-1.391	-1.391	0	%100
55	M33	X	1.189	1.189	0	%100
56	M33	Z	-2.059	-2.059	0	%100
57	M34	X	1.189	1.189	0	%100
58	M34	Z	-2.059	-2.059	0	%100
59	M35	X	1.212	1.212	0	%100
60	M35	Z	-2.099	-2.099	0	%100
61	M36	X	.823	.823	0	%100
62	M36	Z	-1.425	-1.425	0	%100
63	MP5A	X	1.567	1.567	0	%100
64	MP5A	Z	-2.715	-2.715	0	%100
65	MP3A	X	1.567	1.567	0	%100
66	MP3A	Z	-2.715	-2.715	0	%100
67	MP1A	X	1.567	1.567	0	%100
68	MP1A	Z	-2.715	-2.715	0	%100
69	M52	X	1.055	1.055	0	%100
70	M52	Z	-1.827	-1.827	0	%100
71	M53	X	1.304	1.304	0	%100
72	M53	Z	-2.259	-2.259	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
73	M54	X	1.304	1.304	0	%100
74	M54	Z	-2.259	-2.259	0	%100
75	MP4A	X	1.567	1.567	0	%100
76	MP4A	Z	-2.715	-2.715	0	%100
77	MP2A	X	1.731	1.731	0	%100
78	MP2A	Z	-2.998	-2.998	0	%100
79	M65	X	.55	.55	0	%100
80	M65	Z	-.952	-.952	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	.627	.627	0	%100
2	M3	Z	-.362	-.362	0	%100
3	M5	X	.073	.073	0	%100
4	M5	Z	-.042	-.042	0	%100
5	M6	X	.947	.947	0	%100
6	M6	Z	-.547	-.547	0	%100
7	M7	X	.75	.75	0	%100
8	M7	Z	-.433	-.433	0	%100
9	M8	X	.073	.073	0	%100
10	M8	Z	-.042	-.042	0	%100
11	M9	X	.947	.947	0	%100
12	M9	Z	-.547	-.547	0	%100
13	M10	X	.75	.75	0	%100
14	M10	Z	-.433	-.433	0	%100
15	M11	X	.195	.195	0	%100
16	M11	Z	-.113	-.113	0	%100
17	M12	X	2.545	2.545	0	%100
18	M12	Z	-1.47	-1.47	0	%100
19	M13	X	.195	.195	0	%100
20	M13	Z	-.113	-.113	0	%100
21	M14	X	2.545	2.545	0	%100
22	M14	Z	-1.47	-1.47	0	%100
23	M15	X	2.13	2.13	0	%100
24	M15	Z	-1.23	-1.23	0	%100
25	M17	X	2.13	2.13	0	%100
26	M17	Z	-1.23	-1.23	0	%100
27	M19	X	2.142	2.142	0	%100
28	M19	Z	-1.237	-1.237	0	%100
29	M20	X	2.13	2.13	0	%100
30	M20	Z	-1.23	-1.23	0	%100
31	M21	X	2.13	2.13	0	%100
32	M21	Z	-1.23	-1.23	0	%100
33	M22	X	2.059	2.059	0	%100
34	M22	Z	-1.189	-1.189	0	%100
35	M23	X	2.059	2.059	0	%100
36	M23	Z	-1.189	-1.189	0	%100
37	M24	X	2.099	2.099	0	%100
38	M24	Z	-1.212	-1.212	0	%100
39	M25	X	2.142	2.142	0	%100
40	M25	Z	-1.237	-1.237	0	%100
41	M26	X	2.13	2.13	0	%100
42	M26	Z	-1.23	-1.23	0	%100
43	M27	X	1.54	1.54	0	%100
44	M27	Z	-.889	-.889	0	%100
45	M28	X	2.13	2.13	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
46	M28	Z	-1.23	-1.23	0	%100
47	M29	X	1.54	1.54	0	%100
48	M29	Z	-889	-889	0	%100
49	M30	X	2.142	2.142	0	%100
50	M30	Z	-1.237	-1.237	0	%100
51	M31	X	2.13	2.13	0	%100
52	M31	Z	-1.23	-1.23	0	%100
53	M32	X	2.13	2.13	0	%100
54	M32	Z	-1.23	-1.23	0	%100
55	M33	X	2.059	2.059	0	%100
56	M33	Z	-1.189	-1.189	0	%100
57	M34	X	2.059	2.059	0	%100
58	M34	Z	-1.189	-1.189	0	%100
59	M35	X	2.099	2.099	0	%100
60	M35	Z	-1.212	-1.212	0	%100
61	M36	X	2.142	2.142	0	%100
62	M36	Z	-1.237	-1.237	0	%100
63	MP5A	X	2.715	2.715	0	%100
64	MP5A	Z	-1.567	-1.567	0	%100
65	MP3A	X	2.715	2.715	0	%100
66	MP3A	Z	-1.567	-1.567	0	%100
67	MP1A	X	2.715	2.715	0	%100
68	MP1A	Z	-1.567	-1.567	0	%100
69	M52	X	2.695	2.695	0	%100
70	M52	Z	-1.556	-1.556	0	%100
71	M53	X	2.267	2.267	0	%100
72	M53	Z	-1.309	-1.309	0	%100
73	M54	X	2.267	2.267	0	%100
74	M54	Z	-1.309	-1.309	0	%100
75	MP4A	X	2.715	2.715	0	%100
76	MP4A	Z	-1.567	-1.567	0	%100
77	MP2A	X	2.998	2.998	0	%100
78	MP2A	Z	-1.731	-1.731	0	%100
79	M65	X	2.276	2.276	0	%100
80	M65	Z	-1.314	-1.314	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	.594	.594	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	.594	.594	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	.594	.594	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	.594	.594	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	1.597	1.597	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	1.597	1.597	0	%100
18	M12	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
19	M13	X	1.597	1.597	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	1.597	1.597	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	2.887	2.887	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	2.887	2.887	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	2.887	2.887	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	2.887	2.887	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	2.887	2.887	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	2.378	2.378	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	2.378	2.378	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	2.424	2.424	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	2.887	2.887	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	2.887	2.887	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	2.202	2.202	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	2.887	2.887	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	2.202	2.202	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	2.887	2.887	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	2.887	2.887	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	2.887	2.887	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	2.378	2.378	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	2.378	2.378	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	2.424	2.424	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	2.887	2.887	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	3.134	3.134	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	3.134	3.134	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	3.134	3.134	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	2.569	2.569	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	2.202	2.202	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	2.202	2.202	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	3.134	3.134	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
76	MP4A	Z	0	0	0	%100
77	MP2A	X	3.462	3.462	0	%100
78	MP2A	Z	0	0	0	%100
79	M65	X	3.097	3.097	0	%100
80	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	.627	.627	0	%100
2	M3	Z	.362	.362	0	%100
3	M5	X	.947	.947	0	%100
4	M5	Z	.547	.547	0	%100
5	M6	X	.073	.073	0	%100
6	M6	Z	.042	.042	0	%100
7	M7	X	.75	.75	0	%100
8	M7	Z	.433	.433	0	%100
9	M8	X	.947	.947	0	%100
10	M8	Z	.547	.547	0	%100
11	M9	X	.073	.073	0	%100
12	M9	Z	.042	.042	0	%100
13	M10	X	.75	.75	0	%100
14	M10	Z	.433	.433	0	%100
15	M11	X	2.545	2.545	0	%100
16	M11	Z	1.47	1.47	0	%100
17	M12	X	.195	.195	0	%100
18	M12	Z	.113	.113	0	%100
19	M13	X	2.545	2.545	0	%100
20	M13	Z	1.47	1.47	0	%100
21	M14	X	.195	.195	0	%100
22	M14	Z	.113	.113	0	%100
23	M15	X	2.13	2.13	0	%100
24	M15	Z	1.23	1.23	0	%100
25	M17	X	2.13	2.13	0	%100
26	M17	Z	1.23	1.23	0	%100
27	M19	X	2.142	2.142	0	%100
28	M19	Z	1.237	1.237	0	%100
29	M20	X	2.13	2.13	0	%100
30	M20	Z	1.23	1.23	0	%100
31	M21	X	2.13	2.13	0	%100
32	M21	Z	1.23	1.23	0	%100
33	M22	X	2.059	2.059	0	%100
34	M22	Z	1.189	1.189	0	%100
35	M23	X	2.059	2.059	0	%100
36	M23	Z	1.189	1.189	0	%100
37	M24	X	2.099	2.099	0	%100
38	M24	Z	1.212	1.212	0	%100
39	M25	X	2.142	2.142	0	%100
40	M25	Z	1.237	1.237	0	%100
41	M26	X	2.13	2.13	0	%100
42	M26	Z	1.23	1.23	0	%100
43	M27	X	2.267	2.267	0	%100
44	M27	Z	1.309	1.309	0	%100
45	M28	X	2.13	2.13	0	%100
46	M28	Z	1.23	1.23	0	%100
47	M29	X	2.267	2.267	0	%100
48	M29	Z	1.309	1.309	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
49	M30	X	2.142	2.142	0	%100
50	M30	Z	1.237	1.237	0	%100
51	M31	X	2.13	2.13	0	%100
52	M31	Z	1.23	1.23	0	%100
53	M32	X	2.13	2.13	0	%100
54	M32	Z	1.23	1.23	0	%100
55	M33	X	2.059	2.059	0	%100
56	M33	Z	1.189	1.189	0	%100
57	M34	X	2.059	2.059	0	%100
58	M34	Z	1.189	1.189	0	%100
59	M35	X	2.099	2.099	0	%100
60	M35	Z	1.212	1.212	0	%100
61	M36	X	2.142	2.142	0	%100
62	M36	Z	1.237	1.237	0	%100
63	MP5A	X	2.715	2.715	0	%100
64	MP5A	Z	1.567	1.567	0	%100
65	MP3A	X	2.715	2.715	0	%100
66	MP3A	Z	1.567	1.567	0	%100
67	MP1A	X	2.715	2.715	0	%100
68	MP1A	Z	1.567	1.567	0	%100
69	M52	X	.887	.887	0	%100
70	M52	Z	.512	.512	0	%100
71	M53	X	1.54	1.54	0	%100
72	M53	Z	.889	.889	0	%100
73	M54	X	1.54	1.54	0	%100
74	M54	Z	.889	.889	0	%100
75	MP4A	X	2.715	2.715	0	%100
76	MP4A	Z	1.567	1.567	0	%100
77	MP2A	X	2.998	2.998	0	%100
78	MP2A	Z	1.731	1.731	0	%100
79	M65	X	1.763	1.763	0	%100
80	M65	Z	1.018	1.018	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	1.086	1.086	0	%100
2	M3	Z	1.881	1.881	0	%100
3	M5	X	.541	.541	0	%100
4	M5	Z	.937	.937	0	%100
5	M6	X	.036	.036	0	%100
6	M6	Z	.063	.063	0	%100
7	M7	X	1.298	1.298	0	%100
8	M7	Z	2.249	2.249	0	%100
9	M8	X	.541	.541	0	%100
10	M8	Z	.937	.937	0	%100
11	M9	X	.036	.036	0	%100
12	M9	Z	.063	.063	0	%100
13	M10	X	1.298	1.298	0	%100
14	M10	Z	2.249	2.249	0	%100
15	M11	X	1.455	1.455	0	%100
16	M11	Z	2.52	2.52	0	%100
17	M12	X	.098	.098	0	%100
18	M12	Z	.169	.169	0	%100
19	M13	X	1.455	1.455	0	%100
20	M13	Z	2.52	2.52	0	%100
21	M14	X	.098	.098	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M14	Z	.169	.169	0	%100
23	M15	X	.803	.803	0	%100
24	M15	Z	1.391	1.391	0	%100
25	M17	X	.803	.803	0	%100
26	M17	Z	1.391	1.391	0	%100
27	M19	X	.823	.823	0	%100
28	M19	Z	1.425	1.425	0	%100
29	M20	X	.803	.803	0	%100
30	M20	Z	1.391	1.391	0	%100
31	M21	X	.803	.803	0	%100
32	M21	Z	1.391	1.391	0	%100
33	M22	X	1.189	1.189	0	%100
34	M22	Z	2.059	2.059	0	%100
35	M23	X	1.189	1.189	0	%100
36	M23	Z	2.059	2.059	0	%100
37	M24	X	1.212	1.212	0	%100
38	M24	Z	2.099	2.099	0	%100
39	M25	X	.823	.823	0	%100
40	M25	Z	1.425	1.425	0	%100
41	M26	X	.803	.803	0	%100
42	M26	Z	1.391	1.391	0	%100
43	M27	X	1.304	1.304	0	%100
44	M27	Z	2.259	2.259	0	%100
45	M28	X	.803	.803	0	%100
46	M28	Z	1.391	1.391	0	%100
47	M29	X	1.304	1.304	0	%100
48	M29	Z	2.259	2.259	0	%100
49	M30	X	.823	.823	0	%100
50	M30	Z	1.425	1.425	0	%100
51	M31	X	.803	.803	0	%100
52	M31	Z	1.391	1.391	0	%100
53	M32	X	.803	.803	0	%100
54	M32	Z	1.391	1.391	0	%100
55	M33	X	1.189	1.189	0	%100
56	M33	Z	2.059	2.059	0	%100
57	M34	X	1.189	1.189	0	%100
58	M34	Z	2.059	2.059	0	%100
59	M35	X	1.212	1.212	0	%100
60	M35	Z	2.099	2.099	0	%100
61	M36	X	.823	.823	0	%100
62	M36	Z	1.425	1.425	0	%100
63	MP5A	X	1.567	1.567	0	%100
64	MP5A	Z	2.715	2.715	0	%100
65	MP3A	X	1.567	1.567	0	%100
66	MP3A	Z	2.715	2.715	0	%100
67	MP1A	X	1.567	1.567	0	%100
68	MP1A	Z	2.715	2.715	0	%100
69	M52	X	.011	.011	0	%100
70	M52	Z	.02	.02	0	%100
71	M53	X	.884	.884	0	%100
72	M53	Z	1.532	1.532	0	%100
73	M54	X	.884	.884	0	%100
74	M54	Z	1.532	1.532	0	%100
75	MP4A	X	1.567	1.567	0	%100
76	MP4A	Z	2.715	2.715	0	%100
77	MP2A	X	1.731	1.731	0	%100
78	MP2A	Z	2.998	2.998	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
79	M65	X	.253	.253	0	%100
80	M65	Z	.438	.438	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	2.895	2.895	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	.572	.572	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	.572	.572	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	3.462	3.462	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.572	.572	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	.572	.572	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	3.462	3.462	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	1.537	1.537	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	1.537	1.537	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	1.537	1.537	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	1.537	1.537	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	1.18	1.18	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	1.18	1.18	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	1.232	1.232	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	1.18	1.18	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	1.18	1.18	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	2.378	2.378	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	2.378	2.378	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	2.424	2.424	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	1.232	1.232	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	1.18	1.18	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	2.184	2.184	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	1.18	1.18	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	2.184	2.184	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	1.232	1.232	0	%100
51	M31	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,F...	Start Location[ft, %]	End Location[ft, %]
52	M31	Z	1.18	1.18	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	1.18	1.18	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	2.378	2.378	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	2.378	2.378	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	2.424	2.424	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	1.232	1.232	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	3.134	3.134	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	3.134	3.134	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	3.134	3.134	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	.565	.565	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	2.184	2.184	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	2.184	2.184	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	3.134	3.134	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	3.462	3.462	0	%100
79	M65	X	0	0	0	%100
80	M65	Z	.038	.038	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-1.086	-1.086	0	%100
2	M3	Z	1.881	1.881	0	%100
3	M5	X	-.036	-.036	0	%100
4	M5	Z	.063	.063	0	%100
5	M6	X	-.541	-.541	0	%100
6	M6	Z	.937	.937	0	%100
7	M7	X	-1.298	-1.298	0	%100
8	M7	Z	2.249	2.249	0	%100
9	M8	X	-.036	-.036	0	%100
10	M8	Z	.063	.063	0	%100
11	M9	X	-.541	-.541	0	%100
12	M9	Z	.937	.937	0	%100
13	M10	X	-1.298	-1.298	0	%100
14	M10	Z	2.249	2.249	0	%100
15	M11	X	-.098	-.098	0	%100
16	M11	Z	.169	.169	0	%100
17	M12	X	-1.455	-1.455	0	%100
18	M12	Z	2.52	2.52	0	%100
19	M13	X	-.098	-.098	0	%100
20	M13	Z	.169	.169	0	%100
21	M14	X	-1.455	-1.455	0	%100
22	M14	Z	2.52	2.52	0	%100
23	M15	X	-.803	-.803	0	%100
24	M15	Z	1.391	1.391	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M17	X	-803	-803	0	%100
26	M17	Z	1.391	1.391	0	%100
27	M19	X	-823	-823	0	%100
28	M19	Z	1.425	1.425	0	%100
29	M20	X	-803	-803	0	%100
30	M20	Z	1.391	1.391	0	%100
31	M21	X	-803	-803	0	%100
32	M21	Z	1.391	1.391	0	%100
33	M22	X	-1.189	-1.189	0	%100
34	M22	Z	2.059	2.059	0	%100
35	M23	X	-1.189	-1.189	0	%100
36	M23	Z	2.059	2.059	0	%100
37	M24	X	-1.212	-1.212	0	%100
38	M24	Z	2.099	2.099	0	%100
39	M25	X	-823	-823	0	%100
40	M25	Z	1.425	1.425	0	%100
41	M26	X	-803	-803	0	%100
42	M26	Z	1.391	1.391	0	%100
43	M27	X	-884	-884	0	%100
44	M27	Z	1.532	1.532	0	%100
45	M28	X	-803	-803	0	%100
46	M28	Z	1.391	1.391	0	%100
47	M29	X	-884	-884	0	%100
48	M29	Z	1.532	1.532	0	%100
49	M30	X	-823	-823	0	%100
50	M30	Z	1.425	1.425	0	%100
51	M31	X	-803	-803	0	%100
52	M31	Z	1.391	1.391	0	%100
53	M32	X	-803	-803	0	%100
54	M32	Z	1.391	1.391	0	%100
55	M33	X	-1.189	-1.189	0	%100
56	M33	Z	2.059	2.059	0	%100
57	M34	X	-1.189	-1.189	0	%100
58	M34	Z	2.059	2.059	0	%100
59	M35	X	-1.212	-1.212	0	%100
60	M35	Z	2.099	2.099	0	%100
61	M36	X	-823	-823	0	%100
62	M36	Z	1.425	1.425	0	%100
63	MP5A	X	-1.567	-1.567	0	%100
64	MP5A	Z	2.715	2.715	0	%100
65	MP3A	X	-1.567	-1.567	0	%100
66	MP3A	Z	2.715	2.715	0	%100
67	MP1A	X	-1.567	-1.567	0	%100
68	MP1A	Z	2.715	2.715	0	%100
69	M52	X	-1.055	-1.055	0	%100
70	M52	Z	1.827	1.827	0	%100
71	M53	X	-1.304	-1.304	0	%100
72	M53	Z	2.259	2.259	0	%100
73	M54	X	-1.304	-1.304	0	%100
74	M54	Z	2.259	2.259	0	%100
75	MP4A	X	-1.567	-1.567	0	%100
76	MP4A	Z	2.715	2.715	0	%100
77	MP2A	X	-1.731	-1.731	0	%100
78	MP2A	Z	2.998	2.998	0	%100
79	M65	X	-.55	-.55	0	%100
80	M65	Z	.952	.952	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-.627	-.627	0	%100
2	M3	Z	.362	.362	0	%100
3	M5	X	-.073	-.073	0	%100
4	M5	Z	.042	.042	0	%100
5	M6	X	-.947	-.947	0	%100
6	M6	Z	.547	.547	0	%100
7	M7	X	-.75	-.75	0	%100
8	M7	Z	.433	.433	0	%100
9	M8	X	-.073	-.073	0	%100
10	M8	Z	.042	.042	0	%100
11	M9	X	-.947	-.947	0	%100
12	M9	Z	.547	.547	0	%100
13	M10	X	-.75	-.75	0	%100
14	M10	Z	.433	.433	0	%100
15	M11	X	-.195	-.195	0	%100
16	M11	Z	.113	.113	0	%100
17	M12	X	-2.545	-2.545	0	%100
18	M12	Z	1.47	1.47	0	%100
19	M13	X	-.195	-.195	0	%100
20	M13	Z	.113	.113	0	%100
21	M14	X	-2.545	-2.545	0	%100
22	M14	Z	1.47	1.47	0	%100
23	M15	X	-2.13	-2.13	0	%100
24	M15	Z	1.23	1.23	0	%100
25	M17	X	-2.13	-2.13	0	%100
26	M17	Z	1.23	1.23	0	%100
27	M19	X	-2.142	-2.142	0	%100
28	M19	Z	1.237	1.237	0	%100
29	M20	X	-2.13	-2.13	0	%100
30	M20	Z	1.23	1.23	0	%100
31	M21	X	-2.13	-2.13	0	%100
32	M21	Z	1.23	1.23	0	%100
33	M22	X	-2.059	-2.059	0	%100
34	M22	Z	1.189	1.189	0	%100
35	M23	X	-2.059	-2.059	0	%100
36	M23	Z	1.189	1.189	0	%100
37	M24	X	-2.099	-2.099	0	%100
38	M24	Z	1.212	1.212	0	%100
39	M25	X	-2.142	-2.142	0	%100
40	M25	Z	1.237	1.237	0	%100
41	M26	X	-2.13	-2.13	0	%100
42	M26	Z	1.23	1.23	0	%100
43	M27	X	-1.54	-1.54	0	%100
44	M27	Z	.889	.889	0	%100
45	M28	X	-2.13	-2.13	0	%100
46	M28	Z	1.23	1.23	0	%100
47	M29	X	-1.54	-1.54	0	%100
48	M29	Z	.889	.889	0	%100
49	M30	X	-2.142	-2.142	0	%100
50	M30	Z	1.237	1.237	0	%100
51	M31	X	-2.13	-2.13	0	%100
52	M31	Z	1.23	1.23	0	%100
53	M32	X	-2.13	-2.13	0	%100
54	M32	Z	1.23	1.23	0	%100
55	M33	X	-2.059	-2.059	0	%100
56	M33	Z	1.189	1.189	0	%100
57	M34	X	-2.059	-2.059	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M34	Z	1.189	1.189	0	%100
59	M35	X	-2.099	-2.099	0	%100
60	M35	Z	1.212	1.212	0	%100
61	M36	X	-2.142	-2.142	0	%100
62	M36	Z	1.237	1.237	0	%100
63	MP5A	X	-2.715	-2.715	0	%100
64	MP5A	Z	1.567	1.567	0	%100
65	MP3A	X	-2.715	-2.715	0	%100
66	MP3A	Z	1.567	1.567	0	%100
67	MP1A	X	-2.715	-2.715	0	%100
68	MP1A	Z	1.567	1.567	0	%100
69	M52	X	-2.695	-2.695	0	%100
70	M52	Z	1.556	1.556	0	%100
71	M53	X	-2.267	-2.267	0	%100
72	M53	Z	1.309	1.309	0	%100
73	M54	X	-2.267	-2.267	0	%100
74	M54	Z	1.309	1.309	0	%100
75	MP4A	X	-2.715	-2.715	0	%100
76	MP4A	Z	1.567	1.567	0	%100
77	MP2A	X	-2.998	-2.998	0	%100
78	MP2A	Z	1.731	1.731	0	%100
79	M65	X	-2.276	-2.276	0	%100
80	M65	Z	1.314	1.314	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	-.594	-.594	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	-.594	-.594	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	-.594	-.594	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-.594	-.594	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	-1.597	-1.597	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	-1.597	-1.597	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	-1.597	-1.597	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	-1.597	-1.597	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	-2.887	-2.887	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	-2.887	-2.887	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	-2.887	-2.887	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	-2.887	-2.887	0	%100
30	M20	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	M21	X	-2.887	-2.887	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	-2.378	-2.378	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-2.378	-2.378	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	-2.424	-2.424	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	-2.887	-2.887	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	-2.887	-2.887	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	-2.202	-2.202	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	-2.887	-2.887	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	-2.202	-2.202	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	-2.887	-2.887	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	-2.887	-2.887	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	-2.887	-2.887	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	-2.378	-2.378	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	-2.378	-2.378	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	-2.424	-2.424	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	-2.887	-2.887	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	-3.134	-3.134	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	-3.134	-3.134	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	-3.134	-3.134	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	-2.569	-2.569	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	-2.202	-2.202	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	-2.202	-2.202	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	-3.134	-3.134	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	-3.462	-3.462	0	%100
78	MP2A	Z	0	0	0	%100
79	M65	X	-3.097	-3.097	0	%100
80	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-.627	-.627	0	%100
2	M3	Z	-.362	-.362	0	%100
3	M5	X	-.947	-.947	0	%100

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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
4	M5	Z	-0.547	-0.547	0	%100
5	M6	X	-0.073	-0.073	0	%100
6	M6	Z	-0.042	-0.042	0	%100
7	M7	X	-0.75	-0.75	0	%100
8	M7	Z	-0.433	-0.433	0	%100
9	M8	X	-0.947	-0.947	0	%100
10	M8	Z	-0.547	-0.547	0	%100
11	M9	X	-0.073	-0.073	0	%100
12	M9	Z	-0.042	-0.042	0	%100
13	M10	X	-0.75	-0.75	0	%100
14	M10	Z	-0.433	-0.433	0	%100
15	M11	X	-2.545	-2.545	0	%100
16	M11	Z	-1.47	-1.47	0	%100
17	M12	X	-0.195	-0.195	0	%100
18	M12	Z	-0.113	-0.113	0	%100
19	M13	X	-2.545	-2.545	0	%100
20	M13	Z	-1.47	-1.47	0	%100
21	M14	X	-0.195	-0.195	0	%100
22	M14	Z	-0.113	-0.113	0	%100
23	M15	X	-2.13	-2.13	0	%100
24	M15	Z	-1.23	-1.23	0	%100
25	M17	X	-2.13	-2.13	0	%100
26	M17	Z	-1.23	-1.23	0	%100
27	M19	X	-2.142	-2.142	0	%100
28	M19	Z	-1.237	-1.237	0	%100
29	M20	X	-2.13	-2.13	0	%100
30	M20	Z	-1.23	-1.23	0	%100
31	M21	X	-2.13	-2.13	0	%100
32	M21	Z	-1.23	-1.23	0	%100
33	M22	X	-2.059	-2.059	0	%100
34	M22	Z	-1.189	-1.189	0	%100
35	M23	X	-2.059	-2.059	0	%100
36	M23	Z	-1.189	-1.189	0	%100
37	M24	X	-2.099	-2.099	0	%100
38	M24	Z	-1.212	-1.212	0	%100
39	M25	X	-2.142	-2.142	0	%100
40	M25	Z	-1.237	-1.237	0	%100
41	M26	X	-2.13	-2.13	0	%100
42	M26	Z	-1.23	-1.23	0	%100
43	M27	X	-2.267	-2.267	0	%100
44	M27	Z	-1.309	-1.309	0	%100
45	M28	X	-2.13	-2.13	0	%100
46	M28	Z	-1.23	-1.23	0	%100
47	M29	X	-2.267	-2.267	0	%100
48	M29	Z	-1.309	-1.309	0	%100
49	M30	X	-2.142	-2.142	0	%100
50	M30	Z	-1.237	-1.237	0	%100
51	M31	X	-2.13	-2.13	0	%100
52	M31	Z	-1.23	-1.23	0	%100
53	M32	X	-2.13	-2.13	0	%100
54	M32	Z	-1.23	-1.23	0	%100
55	M33	X	-2.059	-2.059	0	%100
56	M33	Z	-1.189	-1.189	0	%100
57	M34	X	-2.059	-2.059	0	%100
58	M34	Z	-1.189	-1.189	0	%100
59	M35	X	-2.099	-2.099	0	%100
60	M35	Z	-1.212	-1.212	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M36	X	-2.142	-2.142	0	%100
62	M36	Z	-1.237	-1.237	0	%100
63	MP5A	X	-2.715	-2.715	0	%100
64	MP5A	Z	-1.567	-1.567	0	%100
65	MP3A	X	-2.715	-2.715	0	%100
66	MP3A	Z	-1.567	-1.567	0	%100
67	MP1A	X	-2.715	-2.715	0	%100
68	MP1A	Z	-1.567	-1.567	0	%100
69	M52	X	-.887	-.887	0	%100
70	M52	Z	-.512	-.512	0	%100
71	M53	X	-1.54	-1.54	0	%100
72	M53	Z	-.889	-.889	0	%100
73	M54	X	-1.54	-1.54	0	%100
74	M54	Z	-.889	-.889	0	%100
75	MP4A	X	-2.715	-2.715	0	%100
76	MP4A	Z	-1.567	-1.567	0	%100
77	MP2A	X	-2.998	-2.998	0	%100
78	MP2A	Z	-1.731	-1.731	0	%100
79	M65	X	-1.763	-1.763	0	%100
80	M65	Z	-1.018	-1.018	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-1.086	-1.086	0	%100
2	M3	Z	-1.881	-1.881	0	%100
3	M5	X	-.541	-.541	0	%100
4	M5	Z	-.937	-.937	0	%100
5	M6	X	-.036	-.036	0	%100
6	M6	Z	-.063	-.063	0	%100
7	M7	X	-1.298	-1.298	0	%100
8	M7	Z	-2.249	-2.249	0	%100
9	M8	X	-.541	-.541	0	%100
10	M8	Z	-.937	-.937	0	%100
11	M9	X	-.036	-.036	0	%100
12	M9	Z	-.063	-.063	0	%100
13	M10	X	-1.298	-1.298	0	%100
14	M10	Z	-2.249	-2.249	0	%100
15	M11	X	-1.455	-1.455	0	%100
16	M11	Z	-2.52	-2.52	0	%100
17	M12	X	-.098	-.098	0	%100
18	M12	Z	-.169	-.169	0	%100
19	M13	X	-1.455	-1.455	0	%100
20	M13	Z	-2.52	-2.52	0	%100
21	M14	X	-.098	-.098	0	%100
22	M14	Z	-.169	-.169	0	%100
23	M15	X	-.803	-.803	0	%100
24	M15	Z	-1.391	-1.391	0	%100
25	M17	X	-.803	-.803	0	%100
26	M17	Z	-1.391	-1.391	0	%100
27	M19	X	-.823	-.823	0	%100
28	M19	Z	-1.425	-1.425	0	%100
29	M20	X	-.803	-.803	0	%100
30	M20	Z	-1.391	-1.391	0	%100
31	M21	X	-.803	-.803	0	%100
32	M21	Z	-1.391	-1.391	0	%100
33	M22	X	-1.189	-1.189	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
34	M22	Z	-2.059	-2.059	0	%100
35	M23	X	-1.189	-1.189	0	%100
36	M23	Z	-2.059	-2.059	0	%100
37	M24	X	-1.212	-1.212	0	%100
38	M24	Z	-2.099	-2.099	0	%100
39	M25	X	-.823	-.823	0	%100
40	M25	Z	-1.425	-1.425	0	%100
41	M26	X	-.803	-.803	0	%100
42	M26	Z	-1.391	-1.391	0	%100
43	M27	X	-1.304	-1.304	0	%100
44	M27	Z	-2.259	-2.259	0	%100
45	M28	X	-.803	-.803	0	%100
46	M28	Z	-1.391	-1.391	0	%100
47	M29	X	-1.304	-1.304	0	%100
48	M29	Z	-2.259	-2.259	0	%100
49	M30	X	-.823	-.823	0	%100
50	M30	Z	-1.425	-1.425	0	%100
51	M31	X	-.803	-.803	0	%100
52	M31	Z	-1.391	-1.391	0	%100
53	M32	X	-.803	-.803	0	%100
54	M32	Z	-1.391	-1.391	0	%100
55	M33	X	-1.189	-1.189	0	%100
56	M33	Z	-2.059	-2.059	0	%100
57	M34	X	-1.189	-1.189	0	%100
58	M34	Z	-2.059	-2.059	0	%100
59	M35	X	-1.212	-1.212	0	%100
60	M35	Z	-2.099	-2.099	0	%100
61	M36	X	-.823	-.823	0	%100
62	M36	Z	-1.425	-1.425	0	%100
63	MP5A	X	-1.567	-1.567	0	%100
64	MP5A	Z	-2.715	-2.715	0	%100
65	MP3A	X	-1.567	-1.567	0	%100
66	MP3A	Z	-2.715	-2.715	0	%100
67	MP1A	X	-1.567	-1.567	0	%100
68	MP1A	Z	-2.715	-2.715	0	%100
69	M52	X	-.011	-.011	0	%100
70	M52	Z	-.02	-.02	0	%100
71	M53	X	-.884	-.884	0	%100
72	M53	Z	-1.532	-1.532	0	%100
73	M54	X	-.884	-.884	0	%100
74	M54	Z	-1.532	-1.532	0	%100
75	MP4A	X	-1.567	-1.567	0	%100
76	MP4A	Z	-2.715	-2.715	0	%100
77	MP2A	X	-1.731	-1.731	0	%100
78	MP2A	Z	-2.998	-2.998	0	%100
79	M65	X	-.253	-.253	0	%100
80	M65	Z	-.438	-.438	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	-.708	-.708	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	-.043	-.043	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	-.043	-.043	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
7	M7	X	0	0	0	%100
8	M7	Z	-.678	-.678	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-.043	-.043	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	-.043	-.043	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	-.678	-.678	0	%100
15	M11	X	0	0	0	%100
16	M11	Z	-.275	-.275	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	-.275	-.275	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	-.275	-.275	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	-.275	-.275	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	-.093	-.093	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-.093	-.093	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	-.112	-.112	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	-.093	-.093	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	-.093	-.093	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	-.396	-.396	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	-.396	-.396	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	-.434	-.434	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	-.112	-.112	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	-.093	-.093	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	-.366	-.366	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	-.093	-.093	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	-.366	-.366	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	-.112	-.112	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	-.093	-.093	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	-.093	-.093	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	-.396	-.396	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	-.396	-.396	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	-.434	-.434	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	-.112	-.112	0	%100
63	MP5A	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,F...	Start Location[ft, %]	End Location[ft, %]
64	MP5A	Z	-.56	-.56	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	-.56	-.56	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-.56	-.56	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-.101	-.101	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	-.366	-.366	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-.366	-.366	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	-.56	-.56	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-.678	-.678	0	%100
79	M65	X	0	0	0	%100
80	M65	Z	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	.265	.265	0	%100
2	M3	Z	-.46	-.46	0	%100
3	M5	X	.003	.003	0	%100
4	M5	Z	-.005	-.005	0	%100
5	M6	X	.041	.041	0	%100
6	M6	Z	-.071	-.071	0	%100
7	M7	X	.254	.254	0	%100
8	M7	Z	-.441	-.441	0	%100
9	M8	X	.003	.003	0	%100
10	M8	Z	-.005	-.005	0	%100
11	M9	X	.041	.041	0	%100
12	M9	Z	-.071	-.071	0	%100
13	M10	X	.254	.254	0	%100
14	M10	Z	-.441	-.441	0	%100
15	M11	X	.017	.017	0	%100
16	M11	Z	-.03	-.03	0	%100
17	M12	X	.26	.26	0	%100
18	M12	Z	-.45	-.45	0	%100
19	M13	X	.017	.017	0	%100
20	M13	Z	-.03	-.03	0	%100
21	M14	X	.26	.26	0	%100
22	M14	Z	-.45	-.45	0	%100
23	M15	X	.123	.123	0	%100
24	M15	Z	-.214	-.214	0	%100
25	M17	X	.123	.123	0	%100
26	M17	Z	-.214	-.214	0	%100
27	M19	X	.131	.131	0	%100
28	M19	Z	-.226	-.226	0	%100
29	M20	X	.123	.123	0	%100
30	M20	Z	-.214	-.214	0	%100
31	M21	X	.123	.123	0	%100
32	M21	Z	-.214	-.214	0	%100
33	M22	X	.198	.198	0	%100
34	M22	Z	-.343	-.343	0	%100
35	M23	X	.198	.198	0	%100
36	M23	Z	-.343	-.343	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	M24	X	.217	.217	0	%100
38	M24	Z	-.376	-.376	0	%100
39	M25	X	.131	.131	0	%100
40	M25	Z	-.226	-.226	0	%100
41	M26	X	.123	.123	0	%100
42	M26	Z	-.214	-.214	0	%100
43	M27	X	.148	.148	0	%100
44	M27	Z	-.256	-.256	0	%100
45	M28	X	.123	.123	0	%100
46	M28	Z	-.214	-.214	0	%100
47	M29	X	.148	.148	0	%100
48	M29	Z	-.256	-.256	0	%100
49	M30	X	.131	.131	0	%100
50	M30	Z	-.226	-.226	0	%100
51	M31	X	.123	.123	0	%100
52	M31	Z	-.214	-.214	0	%100
53	M32	X	.123	.123	0	%100
54	M32	Z	-.214	-.214	0	%100
55	M33	X	.198	.198	0	%100
56	M33	Z	-.343	-.343	0	%100
57	M34	X	.198	.198	0	%100
58	M34	Z	-.343	-.343	0	%100
59	M35	X	.217	.217	0	%100
60	M35	Z	-.376	-.376	0	%100
61	M36	X	.131	.131	0	%100
62	M36	Z	-.226	-.226	0	%100
63	MP5A	X	.28	.28	0	%100
64	MP5A	Z	-.485	-.485	0	%100
65	MP3A	X	.28	.28	0	%100
66	MP3A	Z	-.485	-.485	0	%100
67	MP1A	X	.28	.28	0	%100
68	MP1A	Z	-.485	-.485	0	%100
69	M52	X	.189	.189	0	%100
70	M52	Z	-.327	-.327	0	%100
71	M53	X	.218	.218	0	%100
72	M53	Z	-.378	-.378	0	%100
73	M54	X	.218	.218	0	%100
74	M54	Z	-.378	-.378	0	%100
75	MP4A	X	.28	.28	0	%100
76	MP4A	Z	-.485	-.485	0	%100
77	MP2A	X	.339	.339	0	%100
78	MP2A	Z	-.587	-.587	0	%100
79	M65	X	.098	.098	0	%100
80	M65	Z	-.17	-.17	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	.153	.153	0	%100
2	M3	Z	-.088	-.088	0	%100
3	M5	X	.006	.006	0	%100
4	M5	Z	-.003	-.003	0	%100
5	M6	X	.072	.072	0	%100
6	M6	Z	-.041	-.041	0	%100
7	M7	X	.147	.147	0	%100
8	M7	Z	-.085	-.085	0	%100
9	M8	X	.006	.006	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	M8	Z	-.003	-.003	0	%100
11	M9	X	.072	.072	0	%100
12	M9	Z	-.041	-.041	0	%100
13	M10	X	.147	.147	0	%100
14	M10	Z	-.085	-.085	0	%100
15	M11	X	.035	.035	0	%100
16	M11	Z	-.02	-.02	0	%100
17	M12	X	.455	.455	0	%100
18	M12	Z	-.263	-.263	0	%100
19	M13	X	.035	.035	0	%100
20	M13	Z	-.02	-.02	0	%100
21	M14	X	.455	.455	0	%100
22	M14	Z	-.263	-.263	0	%100
23	M15	X	.48	.48	0	%100
24	M15	Z	-.277	-.277	0	%100
25	M17	X	.48	.48	0	%100
26	M17	Z	-.277	-.277	0	%100
27	M19	X	.484	.484	0	%100
28	M19	Z	-.279	-.279	0	%100
29	M20	X	.48	.48	0	%100
30	M20	Z	-.277	-.277	0	%100
31	M21	X	.48	.48	0	%100
32	M21	Z	-.277	-.277	0	%100
33	M22	X	.343	.343	0	%100
34	M22	Z	-.198	-.198	0	%100
35	M23	X	.343	.343	0	%100
36	M23	Z	-.198	-.198	0	%100
37	M24	X	.376	.376	0	%100
38	M24	Z	-.217	-.217	0	%100
39	M25	X	.484	.484	0	%100
40	M25	Z	-.279	-.279	0	%100
41	M26	X	.48	.48	0	%100
42	M26	Z	-.277	-.277	0	%100
43	M27	X	.258	.258	0	%100
44	M27	Z	-.149	-.149	0	%100
45	M28	X	.48	.48	0	%100
46	M28	Z	-.277	-.277	0	%100
47	M29	X	.258	.258	0	%100
48	M29	Z	-.149	-.149	0	%100
49	M30	X	.484	.484	0	%100
50	M30	Z	-.279	-.279	0	%100
51	M31	X	.48	.48	0	%100
52	M31	Z	-.277	-.277	0	%100
53	M32	X	.48	.48	0	%100
54	M32	Z	-.277	-.277	0	%100
55	M33	X	.343	.343	0	%100
56	M33	Z	-.198	-.198	0	%100
57	M34	X	.343	.343	0	%100
58	M34	Z	-.198	-.198	0	%100
59	M35	X	.376	.376	0	%100
60	M35	Z	-.217	-.217	0	%100
61	M36	X	.484	.484	0	%100
62	M36	Z	-.279	-.279	0	%100
63	MP5A	X	.485	.485	0	%100
64	MP5A	Z	-.28	-.28	0	%100
65	MP3A	X	.485	.485	0	%100
66	MP3A	Z	-.28	-.28	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
67	MP1A	X	.485	.485	0	%100
68	MP1A	Z	-.28	-.28	0	%100
69	M52	X	.482	.482	0	%100
70	M52	Z	-.278	-.278	0	%100
71	M53	X	.379	.379	0	%100
72	M53	Z	-.219	-.219	0	%100
73	M54	X	.379	.379	0	%100
74	M54	Z	-.219	-.219	0	%100
75	MP4A	X	.485	.485	0	%100
76	MP4A	Z	-.28	-.28	0	%100
77	MP2A	X	.587	.587	0	%100
78	MP2A	Z	-.339	-.339	0	%100
79	M65	X	.407	.407	0	%100
80	M65	Z	-.235	-.235	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	.045	.045	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	.045	.045	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	.045	.045	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	.045	.045	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	.286	.286	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	.286	.286	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	.286	.286	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	.286	.286	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	.708	.708	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	.708	.708	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	.708	.708	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	.708	.708	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	.708	.708	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	.396	.396	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	.396	.396	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	.434	.434	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	.708	.708	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
40	M25	Z	0	0	0	%100
41	M26	X	.708	.708	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	.369	.369	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	.708	.708	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	.369	.369	0	%100
48	M29	Z	0	0	0	%100
49	M30	X	.708	.708	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	.708	.708	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	.708	.708	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	.396	.396	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	.396	.396	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	.434	.434	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	.708	.708	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	.56	.56	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	.56	.56	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	.56	.56	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	.459	.459	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	.369	.369	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	.369	.369	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	.56	.56	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	.678	.678	0	%100
78	MP2A	Z	0	0	0	%100
79	M65	X	.554	.554	0	%100
80	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	.153	.153	0	%100
2	M3	Z	.088	.088	0	%100
3	M5	X	.072	.072	0	%100
4	M5	Z	.041	.041	0	%100
5	M6	X	.006	.006	0	%100
6	M6	Z	.003	.003	0	%100
7	M7	X	.147	.147	0	%100
8	M7	Z	.085	.085	0	%100
9	M8	X	.072	.072	0	%100
10	M8	Z	.041	.041	0	%100
11	M9	X	.006	.006	0	%100
12	M9	Z	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M10	X	.147	.147	0	%100
14	M10	Z	.085	.085	0	%100
15	M11	X	.455	.455	0	%100
16	M11	Z	.263	.263	0	%100
17	M12	X	.035	.035	0	%100
18	M12	Z	.02	.02	0	%100
19	M13	X	.455	.455	0	%100
20	M13	Z	.263	.263	0	%100
21	M14	X	.035	.035	0	%100
22	M14	Z	.02	.02	0	%100
23	M15	X	.48	.48	0	%100
24	M15	Z	.277	.277	0	%100
25	M17	X	.48	.48	0	%100
26	M17	Z	.277	.277	0	%100
27	M19	X	.484	.484	0	%100
28	M19	Z	.279	.279	0	%100
29	M20	X	.48	.48	0	%100
30	M20	Z	.277	.277	0	%100
31	M21	X	.48	.48	0	%100
32	M21	Z	.277	.277	0	%100
33	M22	X	.343	.343	0	%100
34	M22	Z	.198	.198	0	%100
35	M23	X	.343	.343	0	%100
36	M23	Z	.198	.198	0	%100
37	M24	X	.376	.376	0	%100
38	M24	Z	.217	.217	0	%100
39	M25	X	.484	.484	0	%100
40	M25	Z	.279	.279	0	%100
41	M26	X	.48	.48	0	%100
42	M26	Z	.277	.277	0	%100
43	M27	X	.379	.379	0	%100
44	M27	Z	.219	.219	0	%100
45	M28	X	.48	.48	0	%100
46	M28	Z	.277	.277	0	%100
47	M29	X	.379	.379	0	%100
48	M29	Z	.219	.219	0	%100
49	M30	X	.484	.484	0	%100
50	M30	Z	.279	.279	0	%100
51	M31	X	.48	.48	0	%100
52	M31	Z	.277	.277	0	%100
53	M32	X	.48	.48	0	%100
54	M32	Z	.277	.277	0	%100
55	M33	X	.343	.343	0	%100
56	M33	Z	.198	.198	0	%100
57	M34	X	.343	.343	0	%100
58	M34	Z	.198	.198	0	%100
59	M35	X	.376	.376	0	%100
60	M35	Z	.217	.217	0	%100
61	M36	X	.484	.484	0	%100
62	M36	Z	.279	.279	0	%100
63	MP5A	X	.485	.485	0	%100
64	MP5A	Z	.28	.28	0	%100
65	MP3A	X	.485	.485	0	%100
66	MP3A	Z	.28	.28	0	%100
67	MP1A	X	.485	.485	0	%100
68	MP1A	Z	.28	.28	0	%100
69	M52	X	.159	.159	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
70	M52	Z	.092	.092	0	%100
71	M53	X	.258	.258	0	%100
72	M53	Z	.149	.149	0	%100
73	M54	X	.258	.258	0	%100
74	M54	Z	.149	.149	0	%100
75	MP4A	X	.485	.485	0	%100
76	MP4A	Z	.28	.28	0	%100
77	MP2A	X	.587	.587	0	%100
78	MP2A	Z	.339	.339	0	%100
79	M65	X	.315	.315	0	%100
80	M65	Z	.182	.182	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M3	X	.265	.265	0	%100
2	M3	Z	.46	.46	0	%100
3	M5	X	.041	.041	0	%100
4	M5	Z	.071	.071	0	%100
5	M6	X	.003	.003	0	%100
6	M6	Z	.005	.005	0	%100
7	M7	X	.254	.254	0	%100
8	M7	Z	.441	.441	0	%100
9	M8	X	.041	.041	0	%100
10	M8	Z	.071	.071	0	%100
11	M9	X	.003	.003	0	%100
12	M9	Z	.005	.005	0	%100
13	M10	X	.254	.254	0	%100
14	M10	Z	.441	.441	0	%100
15	M11	X	.26	.26	0	%100
16	M11	Z	.45	.45	0	%100
17	M12	X	.017	.017	0	%100
18	M12	Z	.03	.03	0	%100
19	M13	X	.26	.26	0	%100
20	M13	Z	.45	.45	0	%100
21	M14	X	.017	.017	0	%100
22	M14	Z	.03	.03	0	%100
23	M15	X	.123	.123	0	%100
24	M15	Z	.214	.214	0	%100
25	M17	X	.123	.123	0	%100
26	M17	Z	.214	.214	0	%100
27	M19	X	.131	.131	0	%100
28	M19	Z	.226	.226	0	%100
29	M20	X	.123	.123	0	%100
30	M20	Z	.214	.214	0	%100
31	M21	X	.123	.123	0	%100
32	M21	Z	.214	.214	0	%100
33	M22	X	.198	.198	0	%100
34	M22	Z	.343	.343	0	%100
35	M23	X	.198	.198	0	%100
36	M23	Z	.343	.343	0	%100
37	M24	X	.217	.217	0	%100
38	M24	Z	.376	.376	0	%100
39	M25	X	.131	.131	0	%100
40	M25	Z	.226	.226	0	%100
41	M26	X	.123	.123	0	%100
42	M26	Z	.214	.214	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	M27	X	.218	.218	0	%100
44	M27	Z	.378	.378	0	%100
45	M28	X	.123	.123	0	%100
46	M28	Z	.214	.214	0	%100
47	M29	X	.218	.218	0	%100
48	M29	Z	.378	.378	0	%100
49	M30	X	.131	.131	0	%100
50	M30	Z	.226	.226	0	%100
51	M31	X	.123	.123	0	%100
52	M31	Z	.214	.214	0	%100
53	M32	X	.123	.123	0	%100
54	M32	Z	.214	.214	0	%100
55	M33	X	.198	.198	0	%100
56	M33	Z	.343	.343	0	%100
57	M34	X	.198	.198	0	%100
58	M34	Z	.343	.343	0	%100
59	M35	X	.217	.217	0	%100
60	M35	Z	.376	.376	0	%100
61	M36	X	.131	.131	0	%100
62	M36	Z	.226	.226	0	%100
63	MP5A	X	.28	.28	0	%100
64	MP5A	Z	.485	.485	0	%100
65	MP3A	X	.28	.28	0	%100
66	MP3A	Z	.485	.485	0	%100
67	MP1A	X	.28	.28	0	%100
68	MP1A	Z	.485	.485	0	%100
69	M52	X	.002	.002	0	%100
70	M52	Z	.004	.004	0	%100
71	M53	X	.148	.148	0	%100
72	M53	Z	.256	.256	0	%100
73	M54	X	.148	.148	0	%100
74	M54	Z	.256	.256	0	%100
75	MP4A	X	.28	.28	0	%100
76	MP4A	Z	.485	.485	0	%100
77	MP2A	X	.339	.339	0	%100
78	MP2A	Z	.587	.587	0	%100
79	M65	X	.045	.045	0	%100
80	M65	Z	.078	.078	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	.708	.708	0	%100
3	M5	X	0	0	0	%100
4	M5	Z	.043	.043	0	%100
5	M6	X	0	0	0	%100
6	M6	Z	.043	.043	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	.678	.678	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.043	.043	0	%100
11	M9	X	0	0	0	%100
12	M9	Z	.043	.043	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	.678	.678	0	%100
15	M11	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,F...	Start Location[ft,%]	End Location[ft,%]
16	M11	Z	.275	.275	0	%100
17	M12	X	0	0	0	%100
18	M12	Z	.275	.275	0	%100
19	M13	X	0	0	0	%100
20	M13	Z	.275	.275	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	.275	.275	0	%100
23	M15	X	0	0	0	%100
24	M15	Z	.093	.093	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	.093	.093	0	%100
27	M19	X	0	0	0	%100
28	M19	Z	.112	.112	0	%100
29	M20	X	0	0	0	%100
30	M20	Z	.093	.093	0	%100
31	M21	X	0	0	0	%100
32	M21	Z	.093	.093	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	.396	.396	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	.396	.396	0	%100
37	M24	X	0	0	0	%100
38	M24	Z	.434	.434	0	%100
39	M25	X	0	0	0	%100
40	M25	Z	.112	.112	0	%100
41	M26	X	0	0	0	%100
42	M26	Z	.093	.093	0	%100
43	M27	X	0	0	0	%100
44	M27	Z	.366	.366	0	%100
45	M28	X	0	0	0	%100
46	M28	Z	.093	.093	0	%100
47	M29	X	0	0	0	%100
48	M29	Z	.366	.366	0	%100
49	M30	X	0	0	0	%100
50	M30	Z	.112	.112	0	%100
51	M31	X	0	0	0	%100
52	M31	Z	.093	.093	0	%100
53	M32	X	0	0	0	%100
54	M32	Z	.093	.093	0	%100
55	M33	X	0	0	0	%100
56	M33	Z	.396	.396	0	%100
57	M34	X	0	0	0	%100
58	M34	Z	.396	.396	0	%100
59	M35	X	0	0	0	%100
60	M35	Z	.434	.434	0	%100
61	M36	X	0	0	0	%100
62	M36	Z	.112	.112	0	%100
63	MP5A	X	0	0	0	%100
64	MP5A	Z	.56	.56	0	%100
65	MP3A	X	0	0	0	%100
66	MP3A	Z	.56	.56	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	.56	.56	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	.101	.101	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	.366	.366	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
73	M54	X	0	0	0	%100
74	M54	Z	.366	.366	0	%100
75	MP4A	X	0	0	0	%100
76	MP4A	Z	.56	.56	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	.678	.678	0	%100
79	M65	X	0	0	0	%100
80	M65	Z	.007	.007	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-.265	-.265	0	%100
2	M3	Z	.46	.46	0	%100
3	M5	X	-.003	-.003	0	%100
4	M5	Z	.005	.005	0	%100
5	M6	X	-.041	-.041	0	%100
6	M6	Z	.071	.071	0	%100
7	M7	X	-.254	-.254	0	%100
8	M7	Z	.441	.441	0	%100
9	M8	X	-.003	-.003	0	%100
10	M8	Z	.005	.005	0	%100
11	M9	X	-.041	-.041	0	%100
12	M9	Z	.071	.071	0	%100
13	M10	X	-.254	-.254	0	%100
14	M10	Z	.441	.441	0	%100
15	M11	X	-.017	-.017	0	%100
16	M11	Z	.03	.03	0	%100
17	M12	X	-.26	-.26	0	%100
18	M12	Z	.45	.45	0	%100
19	M13	X	-.017	-.017	0	%100
20	M13	Z	.03	.03	0	%100
21	M14	X	-.26	-.26	0	%100
22	M14	Z	.45	.45	0	%100
23	M15	X	-.123	-.123	0	%100
24	M15	Z	.214	.214	0	%100
25	M17	X	-.123	-.123	0	%100
26	M17	Z	.214	.214	0	%100
27	M19	X	-.131	-.131	0	%100
28	M19	Z	.226	.226	0	%100
29	M20	X	-.123	-.123	0	%100
30	M20	Z	.214	.214	0	%100
31	M21	X	-.123	-.123	0	%100
32	M21	Z	.214	.214	0	%100
33	M22	X	-.198	-.198	0	%100
34	M22	Z	.343	.343	0	%100
35	M23	X	-.198	-.198	0	%100
36	M23	Z	.343	.343	0	%100
37	M24	X	-.217	-.217	0	%100
38	M24	Z	.376	.376	0	%100
39	M25	X	-.131	-.131	0	%100
40	M25	Z	.226	.226	0	%100
41	M26	X	-.123	-.123	0	%100
42	M26	Z	.214	.214	0	%100
43	M27	X	-.148	-.148	0	%100
44	M27	Z	.256	.256	0	%100
45	M28	X	-.123	-.123	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
46	M28	Z	.214	.214	0	%100
47	M29	X	-.148	-.148	0	%100
48	M29	Z	.256	.256	0	%100
49	M30	X	-.131	-.131	0	%100
50	M30	Z	.226	.226	0	%100
51	M31	X	-.123	-.123	0	%100
52	M31	Z	.214	.214	0	%100
53	M32	X	-.123	-.123	0	%100
54	M32	Z	.214	.214	0	%100
55	M33	X	-.198	-.198	0	%100
56	M33	Z	.343	.343	0	%100
57	M34	X	-.198	-.198	0	%100
58	M34	Z	.343	.343	0	%100
59	M35	X	-.217	-.217	0	%100
60	M35	Z	.376	.376	0	%100
61	M36	X	-.131	-.131	0	%100
62	M36	Z	.226	.226	0	%100
63	MP5A	X	-.28	-.28	0	%100
64	MP5A	Z	.485	.485	0	%100
65	MP3A	X	-.28	-.28	0	%100
66	MP3A	Z	.485	.485	0	%100
67	MP1A	X	-.28	-.28	0	%100
68	MP1A	Z	.485	.485	0	%100
69	M52	X	-.189	-.189	0	%100
70	M52	Z	.327	.327	0	%100
71	M53	X	-.218	-.218	0	%100
72	M53	Z	.378	.378	0	%100
73	M54	X	-.218	-.218	0	%100
74	M54	Z	.378	.378	0	%100
75	MP4A	X	-.28	-.28	0	%100
76	MP4A	Z	.485	.485	0	%100
77	MP2A	X	-.339	-.339	0	%100
78	MP2A	Z	.587	.587	0	%100
79	M65	X	-.098	-.098	0	%100
80	M65	Z	.17	.17	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-.153	-.153	0	%100
2	M3	Z	.088	.088	0	%100
3	M5	X	-.006	-.006	0	%100
4	M5	Z	.003	.003	0	%100
5	M6	X	-.072	-.072	0	%100
6	M6	Z	.041	.041	0	%100
7	M7	X	-.147	-.147	0	%100
8	M7	Z	.085	.085	0	%100
9	M8	X	-.006	-.006	0	%100
10	M8	Z	.003	.003	0	%100
11	M9	X	-.072	-.072	0	%100
12	M9	Z	.041	.041	0	%100
13	M10	X	-.147	-.147	0	%100
14	M10	Z	.085	.085	0	%100
15	M11	X	-.035	-.035	0	%100
16	M11	Z	.02	.02	0	%100
17	M12	X	-.455	-.455	0	%100
18	M12	Z	.263	.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
19	M13	X	-.035	-.035	0	%100
20	M13	Z	.02	.02	0	%100
21	M14	X	-.455	-.455	0	%100
22	M14	Z	.263	.263	0	%100
23	M15	X	-.48	-.48	0	%100
24	M15	Z	.277	.277	0	%100
25	M17	X	-.48	-.48	0	%100
26	M17	Z	.277	.277	0	%100
27	M19	X	-.484	-.484	0	%100
28	M19	Z	.279	.279	0	%100
29	M20	X	-.48	-.48	0	%100
30	M20	Z	.277	.277	0	%100
31	M21	X	-.48	-.48	0	%100
32	M21	Z	.277	.277	0	%100
33	M22	X	-.343	-.343	0	%100
34	M22	Z	.198	.198	0	%100
35	M23	X	-.343	-.343	0	%100
36	M23	Z	.198	.198	0	%100
37	M24	X	-.376	-.376	0	%100
38	M24	Z	.217	.217	0	%100
39	M25	X	-.484	-.484	0	%100
40	M25	Z	.279	.279	0	%100
41	M26	X	-.48	-.48	0	%100
42	M26	Z	.277	.277	0	%100
43	M27	X	-.258	-.258	0	%100
44	M27	Z	.149	.149	0	%100
45	M28	X	-.48	-.48	0	%100
46	M28	Z	.277	.277	0	%100
47	M29	X	-.258	-.258	0	%100
48	M29	Z	.149	.149	0	%100
49	M30	X	-.484	-.484	0	%100
50	M30	Z	.279	.279	0	%100
51	M31	X	-.48	-.48	0	%100
52	M31	Z	.277	.277	0	%100
53	M32	X	-.48	-.48	0	%100
54	M32	Z	.277	.277	0	%100
55	M33	X	-.343	-.343	0	%100
56	M33	Z	.198	.198	0	%100
57	M34	X	-.343	-.343	0	%100
58	M34	Z	.198	.198	0	%100
59	M35	X	-.376	-.376	0	%100
60	M35	Z	.217	.217	0	%100
61	M36	X	-.484	-.484	0	%100
62	M36	Z	.279	.279	0	%100
63	MP5A	X	-.485	-.485	0	%100
64	MP5A	Z	.28	.28	0	%100
65	MP3A	X	-.485	-.485	0	%100
66	MP3A	Z	.28	.28	0	%100
67	MP1A	X	-.485	-.485	0	%100
68	MP1A	Z	.28	.28	0	%100
69	M52	X	-.482	-.482	0	%100
70	M52	Z	.278	.278	0	%100
71	M53	X	-.379	-.379	0	%100
72	M53	Z	.219	.219	0	%100
73	M54	X	-.379	-.379	0	%100
74	M54	Z	.219	.219	0	%100
75	MP4A	X	-.485	-.485	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
76	MP4A	Z	.28	.28	0	%100
77	MP2A	X	-.587	-.587	0	%100
78	MP2A	Z	.339	.339	0	%100
79	M65	X	-.407	-.407	0	%100
80	M65	Z	.235	.235	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	0	0	0	%100
2	M3	Z	0	0	0	%100
3	M5	X	-.045	-.045	0	%100
4	M5	Z	0	0	0	%100
5	M6	X	-.045	-.045	0	%100
6	M6	Z	0	0	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M8	X	-.045	-.045	0	%100
10	M8	Z	0	0	0	%100
11	M9	X	-.045	-.045	0	%100
12	M9	Z	0	0	0	%100
13	M10	X	0	0	0	%100
14	M10	Z	0	0	0	%100
15	M11	X	-.286	-.286	0	%100
16	M11	Z	0	0	0	%100
17	M12	X	-.286	-.286	0	%100
18	M12	Z	0	0	0	%100
19	M13	X	-.286	-.286	0	%100
20	M13	Z	0	0	0	%100
21	M14	X	-.286	-.286	0	%100
22	M14	Z	0	0	0	%100
23	M15	X	-.708	-.708	0	%100
24	M15	Z	0	0	0	%100
25	M17	X	-.708	-.708	0	%100
26	M17	Z	0	0	0	%100
27	M19	X	-.708	-.708	0	%100
28	M19	Z	0	0	0	%100
29	M20	X	-.708	-.708	0	%100
30	M20	Z	0	0	0	%100
31	M21	X	-.708	-.708	0	%100
32	M21	Z	0	0	0	%100
33	M22	X	-.396	-.396	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-.396	-.396	0	%100
36	M23	Z	0	0	0	%100
37	M24	X	-.434	-.434	0	%100
38	M24	Z	0	0	0	%100
39	M25	X	-.708	-.708	0	%100
40	M25	Z	0	0	0	%100
41	M26	X	-.708	-.708	0	%100
42	M26	Z	0	0	0	%100
43	M27	X	-.369	-.369	0	%100
44	M27	Z	0	0	0	%100
45	M28	X	-.708	-.708	0	%100
46	M28	Z	0	0	0	%100
47	M29	X	-.369	-.369	0	%100
48	M29	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
49	M30	X	-.708	-.708	0	%100
50	M30	Z	0	0	0	%100
51	M31	X	-.708	-.708	0	%100
52	M31	Z	0	0	0	%100
53	M32	X	-.708	-.708	0	%100
54	M32	Z	0	0	0	%100
55	M33	X	-.396	-.396	0	%100
56	M33	Z	0	0	0	%100
57	M34	X	-.396	-.396	0	%100
58	M34	Z	0	0	0	%100
59	M35	X	-.434	-.434	0	%100
60	M35	Z	0	0	0	%100
61	M36	X	-.708	-.708	0	%100
62	M36	Z	0	0	0	%100
63	MP5A	X	-.56	-.56	0	%100
64	MP5A	Z	0	0	0	%100
65	MP3A	X	-.56	-.56	0	%100
66	MP3A	Z	0	0	0	%100
67	MP1A	X	-.56	-.56	0	%100
68	MP1A	Z	0	0	0	%100
69	M52	X	-.459	-.459	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	-.369	-.369	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	-.369	-.369	0	%100
74	M54	Z	0	0	0	%100
75	MP4A	X	-.56	-.56	0	%100
76	MP4A	Z	0	0	0	%100
77	MP2A	X	-.678	-.678	0	%100
78	MP2A	Z	0	0	0	%100
79	M65	X	-.554	-.554	0	%100
80	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-.153	-.153	0	%100
2	M3	Z	-.088	-.088	0	%100
3	M5	X	-.072	-.072	0	%100
4	M5	Z	-.041	-.041	0	%100
5	M6	X	-.006	-.006	0	%100
6	M6	Z	-.003	-.003	0	%100
7	M7	X	-.147	-.147	0	%100
8	M7	Z	-.085	-.085	0	%100
9	M8	X	-.072	-.072	0	%100
10	M8	Z	-.041	-.041	0	%100
11	M9	X	-.006	-.006	0	%100
12	M9	Z	-.003	-.003	0	%100
13	M10	X	-.147	-.147	0	%100
14	M10	Z	-.085	-.085	0	%100
15	M11	X	-.455	-.455	0	%100
16	M11	Z	-.263	-.263	0	%100
17	M12	X	-.035	-.035	0	%100
18	M12	Z	-.02	-.02	0	%100
19	M13	X	-.455	-.455	0	%100
20	M13	Z	-.263	-.263	0	%100
21	M14	X	-.035	-.035	0	%100

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

	Member Label	Direction	Start Magnitude lb/ft,...	End Magnitude lb/ft,F...	Start Location ft,%	End Location ft,%
22	M14	Z	-02	-02	0	%100
23	M15	X	-48	-48	0	%100
24	M15	Z	-277	-277	0	%100
25	M17	X	-48	-48	0	%100
26	M17	Z	-277	-277	0	%100
27	M19	X	-484	-484	0	%100
28	M19	Z	-279	-279	0	%100
29	M20	X	-48	-48	0	%100
30	M20	Z	-277	-277	0	%100
31	M21	X	-48	-48	0	%100
32	M21	Z	-277	-277	0	%100
33	M22	X	-343	-343	0	%100
34	M22	Z	-198	-198	0	%100
35	M23	X	-343	-343	0	%100
36	M23	Z	-198	-198	0	%100
37	M24	X	-376	-376	0	%100
38	M24	Z	-217	-217	0	%100
39	M25	X	-484	-484	0	%100
40	M25	Z	-279	-279	0	%100
41	M26	X	-48	-48	0	%100
42	M26	Z	-277	-277	0	%100
43	M27	X	-379	-379	0	%100
44	M27	Z	-219	-219	0	%100
45	M28	X	-48	-48	0	%100
46	M28	Z	-277	-277	0	%100
47	M29	X	-379	-379	0	%100
48	M29	Z	-219	-219	0	%100
49	M30	X	-484	-484	0	%100
50	M30	Z	-279	-279	0	%100
51	M31	X	-48	-48	0	%100
52	M31	Z	-277	-277	0	%100
53	M32	X	-48	-48	0	%100
54	M32	Z	-277	-277	0	%100
55	M33	X	-343	-343	0	%100
56	M33	Z	-198	-198	0	%100
57	M34	X	-343	-343	0	%100
58	M34	Z	-198	-198	0	%100
59	M35	X	-376	-376	0	%100
60	M35	Z	-217	-217	0	%100
61	M36	X	-484	-484	0	%100
62	M36	Z	-279	-279	0	%100
63	MP5A	X	-485	-485	0	%100
64	MP5A	Z	-28	-28	0	%100
65	MP3A	X	-485	-485	0	%100
66	MP3A	Z	-28	-28	0	%100
67	MP1A	X	-485	-485	0	%100
68	MP1A	Z	-28	-28	0	%100
69	M52	X	-159	-159	0	%100
70	M52	Z	-092	-092	0	%100
71	M53	X	-258	-258	0	%100
72	M53	Z	-149	-149	0	%100
73	M54	X	-258	-258	0	%100
74	M54	Z	-149	-149	0	%100
75	MP4A	X	-485	-485	0	%100
76	MP4A	Z	-28	-28	0	%100
77	MP2A	X	-587	-587	0	%100
78	MP2A	Z	-339	-339	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
79	M65	X	-.315	-.315	0	%100
80	M65	Z	-.182	-.182	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M3	X	-.265	-.265	0	%100
2	M3	Z	-.46	-.46	0	%100
3	M5	X	-.041	-.041	0	%100
4	M5	Z	-.071	-.071	0	%100
5	M6	X	-.003	-.003	0	%100
6	M6	Z	-.005	-.005	0	%100
7	M7	X	-.254	-.254	0	%100
8	M7	Z	-.441	-.441	0	%100
9	M8	X	-.041	-.041	0	%100
10	M8	Z	-.071	-.071	0	%100
11	M9	X	-.003	-.003	0	%100
12	M9	Z	-.005	-.005	0	%100
13	M10	X	-.254	-.254	0	%100
14	M10	Z	-.441	-.441	0	%100
15	M11	X	-.26	-.26	0	%100
16	M11	Z	-.45	-.45	0	%100
17	M12	X	-.017	-.017	0	%100
18	M12	Z	-.03	-.03	0	%100
19	M13	X	-.26	-.26	0	%100
20	M13	Z	-.45	-.45	0	%100
21	M14	X	-.017	-.017	0	%100
22	M14	Z	-.03	-.03	0	%100
23	M15	X	-.123	-.123	0	%100
24	M15	Z	-.214	-.214	0	%100
25	M17	X	-.123	-.123	0	%100
26	M17	Z	-.214	-.214	0	%100
27	M19	X	-.131	-.131	0	%100
28	M19	Z	-.226	-.226	0	%100
29	M20	X	-.123	-.123	0	%100
30	M20	Z	-.214	-.214	0	%100
31	M21	X	-.123	-.123	0	%100
32	M21	Z	-.214	-.214	0	%100
33	M22	X	-.198	-.198	0	%100
34	M22	Z	-.343	-.343	0	%100
35	M23	X	-.198	-.198	0	%100
36	M23	Z	-.343	-.343	0	%100
37	M24	X	-.217	-.217	0	%100
38	M24	Z	-.376	-.376	0	%100
39	M25	X	-.131	-.131	0	%100
40	M25	Z	-.226	-.226	0	%100
41	M26	X	-.123	-.123	0	%100
42	M26	Z	-.214	-.214	0	%100
43	M27	X	-.218	-.218	0	%100
44	M27	Z	-.378	-.378	0	%100
45	M28	X	-.123	-.123	0	%100
46	M28	Z	-.214	-.214	0	%100
47	M29	X	-.218	-.218	0	%100
48	M29	Z	-.378	-.378	0	%100
49	M30	X	-.131	-.131	0	%100
50	M30	Z	-.226	-.226	0	%100
51	M31	X	-.123	-.123	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
52	M31	Z	-214	-214	0 %100
53	M32	X	-.123	-.123	0 %100
54	M32	Z	-.214	-.214	0 %100
55	M33	X	-.198	-.198	0 %100
56	M33	Z	-.343	-.343	0 %100
57	M34	X	-.198	-.198	0 %100
58	M34	Z	-.343	-.343	0 %100
59	M35	X	-.217	-.217	0 %100
60	M35	Z	-.376	-.376	0 %100
61	M36	X	-.131	-.131	0 %100
62	M36	Z	-.226	-.226	0 %100
63	MP5A	X	-.28	-.28	0 %100
64	MP5A	Z	-.485	-.485	0 %100
65	MP3A	X	-.28	-.28	0 %100
66	MP3A	Z	-.485	-.485	0 %100
67	MP1A	X	-.28	-.28	0 %100
68	MP1A	Z	-.485	-.485	0 %100
69	M52	X	-.002	-.002	0 %100
70	M52	Z	-.004	-.004	0 %100
71	M53	X	-.148	-.148	0 %100
72	M53	Z	-.256	-.256	0 %100
73	M54	X	-.148	-.148	0 %100
74	M54	Z	-.256	-.256	0 %100
75	MP4A	X	-.28	-.28	0 %100
76	MP4A	Z	-.485	-.485	0 %100
77	MP2A	X	-.339	-.339	0 %100
78	MP2A	Z	-.587	-.587	0 %100
79	M65	X	-.045	-.045	0 %100
80	M65	Z	-.078	-.078	0 %100

Member Area Loads

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

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N4	max	886.005	10	1376.836	20	287.555	1	-.145	65	0	75	.087	39
2		min	-1144.051	4	417.909	69	-3213.606	19	-.473	14	0	1	-.064	33
3	N65	max	991.325	45	1130.937	24	3135.693	14	-.121	68	0	75	.073	39
4		min	-709.488	27	348.418	68	4.673	8	-.397	21	0	1	-.056	50
5	N91	max	65.107	5	48.141	15	250.267	3	0	75	0	75	0	75
6		min	-58.405	11	14.903	74	-235.979	9	0	1	0	1	0	1
7	N92	max	190.179	10	37.852	15	1403.9	11	0	75	0	75	0	75
8		min	-190.506	4	10.9	9	-1387.166	5	0	1	0	1	0	1
9	Totals:	max	1712.407	10	2588.509	16	2407.723	1						
10		min	-1712.406	4	792.746	74	-2407.725	7						

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

Member	Shape	Code Check	Loc[... LC	Shear Check	Loc[ft] Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn		
1	M3	L4X3X6	.000	.281	18	.000	.281	z	24	111130...	112050	3.731	9.809	1...H2-1
2	M5	PL3/8X3_H...	.640	0	33	.074	0	y	5	34985.7...	36450	.284	2.279	1...H1-1b
3	M6	PL3/8X3_H...	.707	0	41	.064	0	y	9	34985.7...	36450	.284	2.279	1...H1-1b

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

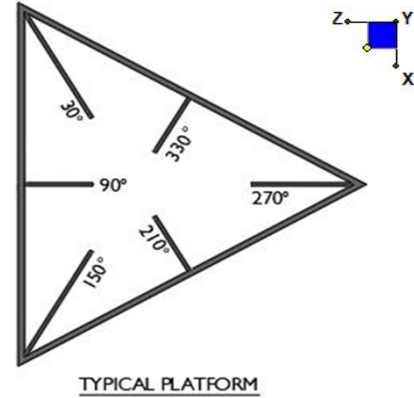
Member	Shape	Code Check	Loc[...]	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn	
4	M7	PIPE 2.5	.155	3.125	7	.062	11.719	1	10110.2...	72450	5.138	5.138	1...	H1-1b	
5	M8	PL3/8X3_H...	.546	0	21	.060	0	y	50	34985.7...	36450	.284	2.279	1...	H1-1b
6	M9	PL3/8X3_H...	.597	0	39	.094	0	y	9	34985.7...	36450	.284	2.279	1...	H1-1b
7	M10	PIPE 2.5	.131	3.125	1	.068	11.719	44	10110.2...	72450	5.138	5.138	1...	H1-1b	
8	M11	PIPE 2.0	.147	.495	33	.069	5.381	9	25094.0...	45900	2.674	2.674	2...	H1-1b	
9	M12	PIPE 2.0	.162	.495	41	.055	0	15	25094.0...	45900	2.674	2.674	2...	H1-1b	
10	M13	PIPE 2.0	.151	.557	26	.140	5.381	3	25094.0...	45900	2.674	2.674	1...	H1-1b	
11	M14	PIPE 2.0	.165	.557	39	.064	5.381	43	25094.0...	45900	2.674	2.674	1...	H1-1b	
12	M15	PL3/8X3_H...	.038	0	8	.033	0	y	5	36078.2...	36450	.284	2.279	1...	H1-1b
13	M17	PL3/8X3_H...	.045	0	43	.015	0	y	9	36078.2...	36450	.284	2.279	1...	H1-1b
14	M19	PL3/8X3_H...	.023	0	5	.027	0	y	3	33887.6	36450	.284	2.279	1...	H1-1b
15	M20	PL3/8X3_H...	.025	.125	44	.033	.125	y	5	36078.2...	36450	.284	2.279	1...	H1-1b
16	M21	PL3/8X3_H...	.043	.125	41	.015	.125	y	9	36078.2...	36450	.284	2.279	1...	H1-1b
17	M22	HSS1.500x...	.081	2.958	15	.018	0	5	8896.364	12701.34	.485	.485	1...	H1-1b*	
18	M23	HSS1.500x...	.152	2.958	41	.010	0	9	8896.364	12701.34	.485	.485	1...	H1-1b*	
19	M24	PIPE 2.0	.014	0	14	.003	0	3	41092.0...	45900	2.674	2.674	1...	H1-1b*	
20	M25	PL3/8X3_H...	.028	.333	7	.027	.333	y	3	33887.6	36450	.284	2.279	1...	H1-1b
21	M26	PL3/8X3_H...	.023	0	30	.049	0	y	5	36078.2...	36450	.284	2.279	1...	H1-1b
22	M27	HSS1.500x...	.086	2.008	24	.025	0	5	6588.382	12701.34	.485	.485	1...	H1-1b	
23	M28	PL3/8X3_H...	.047	0	11	.021	0	y	9	36078.2...	36450	.284	2.279	1...	H1-1b
24	M29	HSS1.500x...	.063	2.008	24	.018	0	6	6588.382	12701.34	.485	.485	1...	H1-1b	
25	M30	PL3/8X3_H...	.568	.333	9	.067	0	y	11	33887.6	36450	.284	2.279	1...	H1-1b
26	M31	PL3/8X3_H...	.028	.125	11	.049	.125	y	5	36078.2...	36450	.284	2.279	1...	H1-1b
27	M32	PL3/8X3_H...	.092	.125	11	.021	.125	y	9	36078.2...	36450	.284	2.279	1...	H1-1b
28	M33	HSS1.500x...	.076	2.958	21	.026	2.958	5	8896.364	12701.34	.485	.485	1...	H1-1b*	
29	M34	HSS1.500x...	.137	2.958	33	.013	2.958	9	8896.364	12701.34	.485	.485	1...	H1-1b*	
30	M35	PIPE 2.0	.321	.556	9	.078	0	9	41092.0...	45900	2.674	2.674	1...	H1-1b	
31	M36	PL3/8X3_H...	.258	.333	9	.038	.333	y	5	33887.6	36450	.284	2.279	1...	H1-1b
32	MP5A	PIPE 2.0	.190	4.612	50	.033	1.198	6	21614.7...	32130	1.872	1.872	1...	H1-1b	
33	MP3A	PIPE 2.0	.134	5.151	3	.039	2.935	9	21614.7...	32130	1.872	1.872	2...	H1-1b	
34	MP1A	PIPE 2.0	.106	6.417	15	.042	6.917	3	14916.0...	32130	1.872	1.872	2...	H1-1b	
35	M52	PIPE 2.0	.120	6.537	3	.008	0	21	5997.396	32130	1.872	1.872	1...	H1-1b	
36	M53	HSS1.500x...	.094	2.008	14	.014	0	3	6588.382	12701.34	.485	.485	1...	H1-1b	
37	M54	HSS1.500x...	.075	2.008	14	.014	0	3	6588.382	12701.34	.485	.485	1...	H1-1b	
38	MP4A	PIPE 2.0	.149	4.612	9	.031	4.612	9	21614.7...	32130	1.872	1.872	1...	H1-1b	
39	MP2A	PIPE 2.0	.255	2.479	7	.109	5.906	3	17855.0...	32130	1.872	1.872	2...	H1-1b	
40	M65	PIPE 2.0	.122	0	9	.006	0	22	11653.8...	32130	1.872	1.872	2...	H1-1b*	



I. Mount-to-Tower Connection Check

RISA Model Data

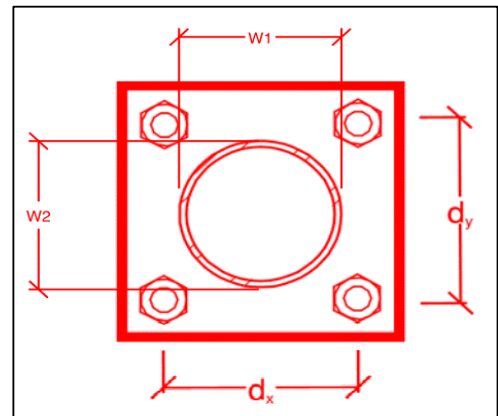
Nodes <i>(labeled per RISA)</i>	Orientation <i>(per graphic of typical platform)</i>
N4	90
N65	90



Tower Connection Bolt Checks

Any moment resistance?:
 Bolt Quantity per Reaction:
 d_x (in) (*Delta X of typ. bolt config. sketch*):
 d_y (in) (*Delta Y of typ. bolt config. sketch*):
 Bolt Type:
 Bolt Diameter (in):
 Required Tensile Strength (kips):
 Required Shear Strength (kips):
 Tensile Strength / bolt (kips):
 Shear Strength / bolt (kips):
 Tensile Capacity Overall:
 Shear Capacity Overall:

yes
2
4
1.5
U-Bolt
0.5
10.8
2.0
16.3
9.8
32.9%*
10.0%



*Note: Tension reduction not required if tension or shear capacity < 30%

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

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.

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 proposed OVP unit directly to center of upper left standoff horizontal in the Beta sector.

Response:

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

- Yes No

Contractor certifies no new damage/obstructions created during the current installation:

- Yes No

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

- Safety climb in good condition with no obstructions Safety Climb Damaged
 Safety Climb Obstructed

Comments:

- All hardware has been properly installed, and the existing hardware was inspected.

The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings 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 as an “equivalent” and this approval is included as part of the contractor submission.

Antenna & equipment placement and Geometry Confirmation:

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.

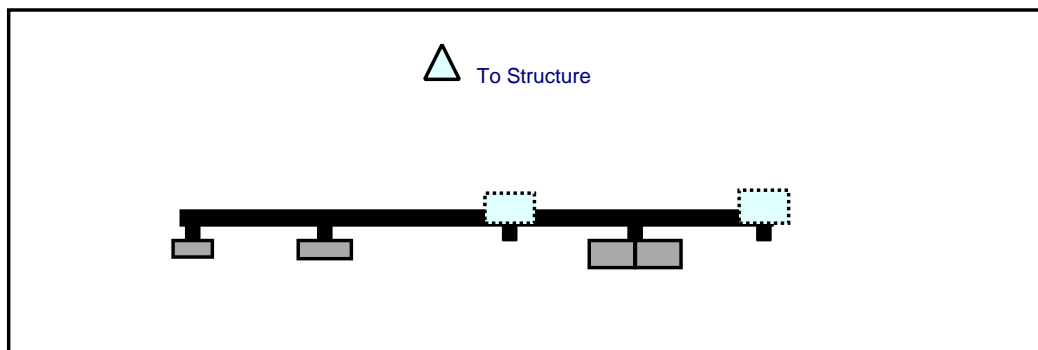
Special Instruction Confirmation:

The contractor has read and acknowledges the above special instructions.

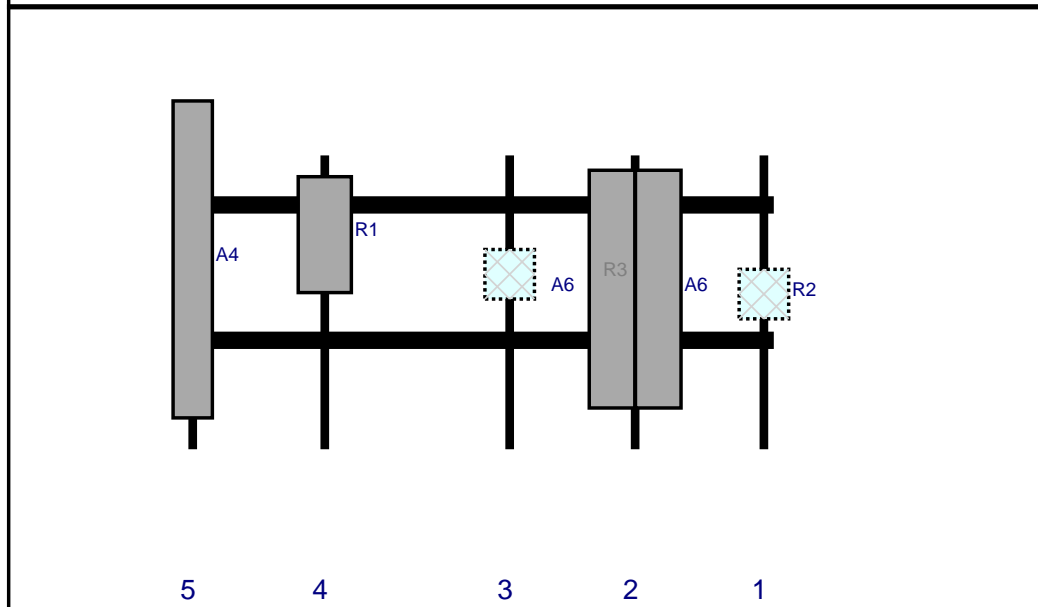
Certifying Individual:

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

Plan View

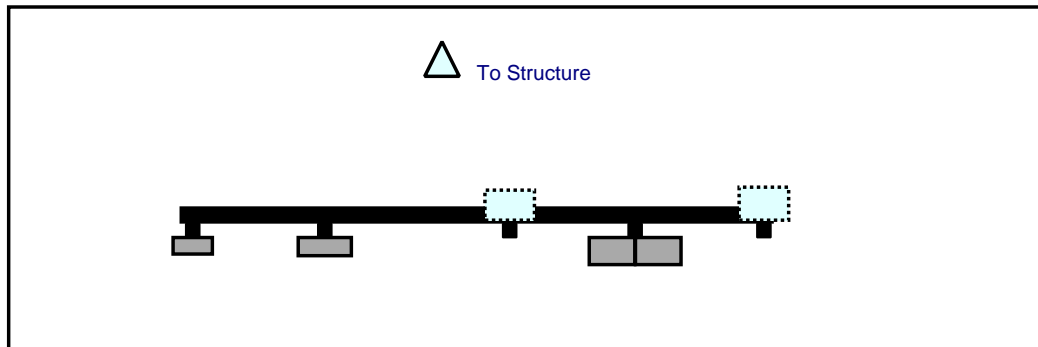


Front View
Looking at Structure

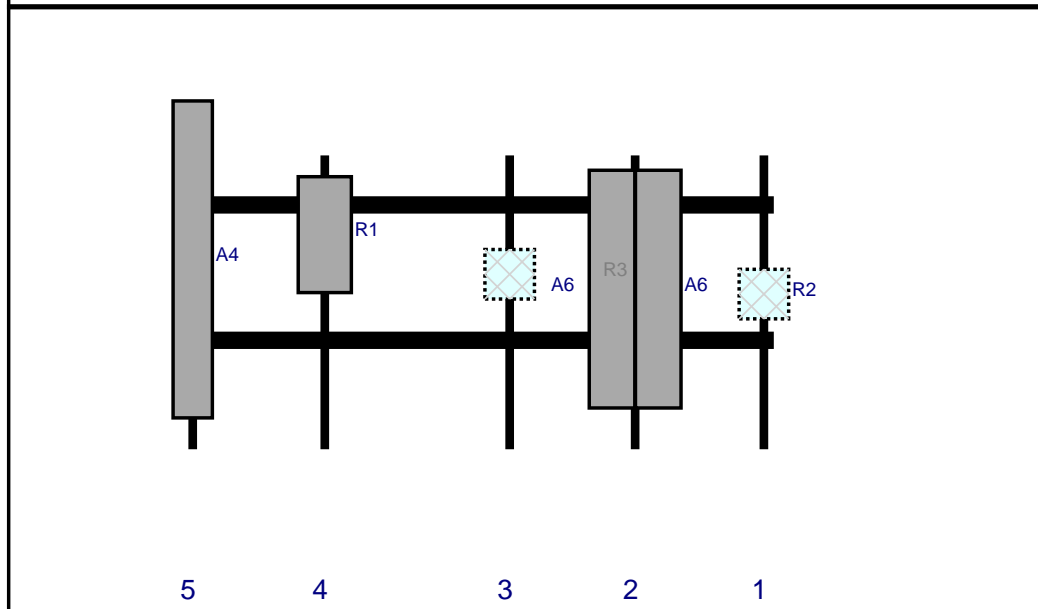


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	RF4439d-25A	15	15	177	1	a	Behind	42	0	Added	
A6	JAHH-65B-R3B	72	13.8	138	2	a	Front	40.5	7	Retained	06/02/2021
A6	JAHH-65B-R3B	72	13.8	138	2	b	Front	40.5	-7	Retained	06/02/2021
R3	RF4440d-13A	15	15	100	3	a	Behind	36	0	Added	
R1	MT6407-77A	35.1	16.1	44	4	a	Front	24	0	Added	
A4	LNx-8514DS-VTM	96	11.9	4	5	a	Front	31.5	0	Retained	06/02/2021

Plan View

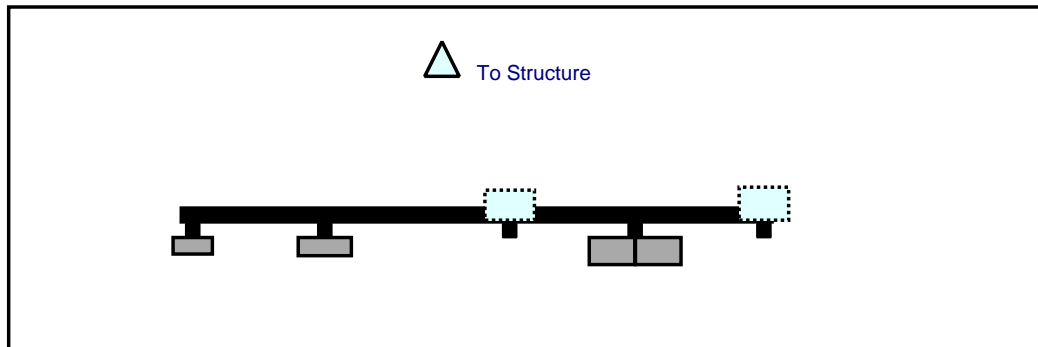


Front View
Looking at Structure

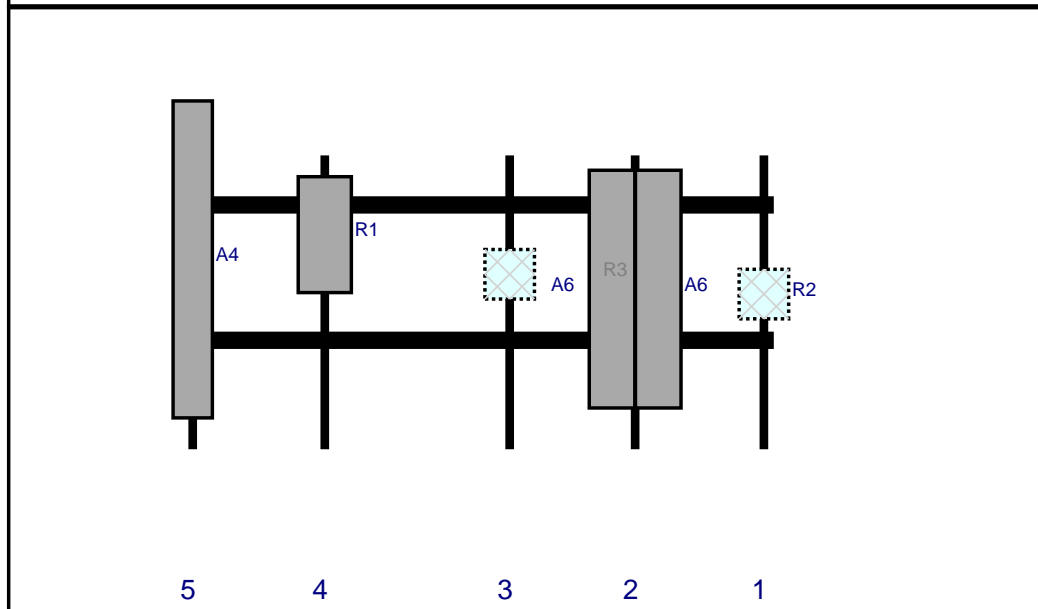


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	RF4439d-25A	15	15	177	1	a	Behind	42	0	Added	
A6	JAHH-65B-R3B	72	13.8	138	2	a	Front	40.5	7	Retained	06/02/2021
A6	JAHH-65B-R3B	72	13.8	138	2	b	Front	40.5	-7	Retained	06/02/2021
R3	RF4440d-13A	15	15	100	3	a	Behind	36	0	Added	
R1	MT6407-77A	35.1	16.1	44	4	a	Front	24	0	Added	
A4	LNx-8514DS-VTM	96	11.9	4	5	a	Front	31.5	0	Retained	06/02/2021

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
R2	RF4439d-25A	15	15	177	1	a	Behind	42	0	Added	
A6	JAHH-65B-R3B	72	13.8	138	2	a	Front	40.5	7	Retained	06/02/2021
A6	JAHH-65B-R3B	72	13.8	138	2	b	Front	40.5	-7	Retained	06/02/2021
R3	RF4440d-13A	15	15	100	3	a	Behind	36	0	Added	
R1	MT6407-77A	35.1	16.1	44	4	a	Front	24	0	Added	
A4	LNx-8514DS-VTM	96	11.9	4	5	a	Front	31.5	0	Retained	06/02/2021

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID: 467875-VZW / MONROE CT
Site Name: MONROE CT
Carrier Name: Verizon Wireless
Address: 226 Guinea Rd.
Monroe, Connecticut 06468
Fairfield County
Latitude: 41.341856°
Longitude: -73.274522°

Structure Information

Tower Type: 240-Ft Self Support
Mount Type: 15.00-Ft Sector Frame

FUZE ID # 16272183

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H Standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,



Pete Albano, PE
Project Manager

Exhibit F

Power Density/RF Emissions Report

Site Name: **MONROE 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	492	1967	212	0.0016	0.5007	0.31%
VZW CDMA	877.26	2	434	869	212	0.0007	0.5848	0.12%
VZW Cellular	874	4	576	2302	212	0.0018	0.5827	0.32%
VZW PCS	1980	4	1829	7316	212	0.0059	1.0000	0.59%
VZW AWS	2120	4	1875	7502	212	0.0060	1.0000	0.60%
VZW CBAND	3730.08	2	21627	43254	212	0.0346	1.0000	3.46%
Total Percentage of Maximum Permissible Exposure								5.40%

*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/cm² = milliwatts per square centimeter
 ERP = Effective Radiated Power

Absolute worst case maximum values used.