



**NSS** **NORTHEAST**  
SITE SOLUTIONS  
*Turnkey Wireless Development*

Northeast Site Solutions  
Denise Sabo  
4 Angela's Way, Burlington CT 06013  
203-435-3640  
denise@northeastsitesolutions.com

November 19, 2021

Members of the Siting Council  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

RE: Exempt Modification Application  
30 Oliver Terrace, Shelton, CT 06484  
Latitude: 41.293913  
Longitude: -73.107147  
Site #: 842873\_Crown\_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 30 Oliver Terrace, Shelton, CT 06484. Verizon Wireless currently maintains twelve (12) antennas at the 140-foot level of the existing 140-foot tower. The property is owned by Brennan Realty LLC and the tower is owned by Crown Castle. Verizon now intends to replace nine (9) antennas. The new antennas would be installed at the 140-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and 5G capable.

**Verizon Planned Modifications:**

**Remove:**

(3) Nokia B25 RRH

**Remove and Replace:**

(3) X7C-FR0-660-VRO Antennas (REMOVE) – (3) MT6407-77A Antennas (REPLACE)  
(6) HBXX-6516DS-A2M Antennas (REMOVE) – (6) QS6656-5D Antennas (REPLACE)  
(3) Nokia B4 RRH (REMOVE) - (3) Samsung RFV01U-D1A (REPLACE)  
(3) Nokia B13 RRH (REMOVE) - (3) Samsung RFV01U-D2A (REPLACE)

**Install New:** None

**Existing to Remain:**

(3) AMPHENOL Antennas  
(6) 1-5/8" Coax  
(2) Raycap OVP  
(2) Hybrid Line

The facility was approved by the Connecticut Siting Council on March 25, 2003 in Petition No. 608, and later approved for Verizon's use in Petition No. 722 on November 3, 2005. Please see attached.



Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Mayor Mark Lauretti and Alexander Rosetti, Planning and Zoning Administrator for the City of Shelton. A copy is also being sent to the tower owner and property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications 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 Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Verizon Wireless respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Denise Sabo  
Mobile: 203-435-3640  
Fax: 413-521-0558  
Office: 4 Angela's Way, Burlington CT 06013  
E-mail: [denise@northeastsitesolutions.com](mailto:denise@northeastsitesolutions.com)



**NSS** **NORTHEAST**  
SITE SOLUTIONS  
*Turnkey Wireless Development*

Attachments

Cc: Mayor Mark Lauretti  
City of Shelton  
54 Hill Street, Shelton, CT 06484

Alexander Rosetti, Planning and Zoning Administrator  
City of Shelton  
54 Hill Street, Shelton, CT 06484

Brennan Realty LLC  
70 Platt Rd, Shelton, CT 06484

Crown Castle, Tower Owner

# Exhibit A

## **Original Facility Approval**



Petition No. 608  
AT&T Wireless PCS, LLC  
Shelton, Connecticut  
Staff Report  
March 25, 2003

On February 4, 2003, Connecticut Siting Council (Council) member Gerald Heffernan and Robert Mercier of Council staff met with AT&T Wireless PCS, Inc. (AT&T) representative Christopher Fisher at 70 Platt Road in Shelton to review this petition. AT&T proposes to replace an existing 75-foot monopole with a 100-foot monopole 275 feet west of its existing location. AT&T is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for the tower replacement and relocation.

The existing monopole is owned by the John J. Brennan Construction Company and is located adjacent to an office/garage building. The existing monopole, with a base diameter of 8 inches tapering to 4 inches at the top, has limited structural capability and supports one whip antenna extending to a height of 81 feet above ground level. The proposed 100-foot replacement tower would be located approximately 275 feet west of the existing tower, adjacent to a warehouse building in an area used for equipment storage.

The new tower would have a base diameter of 3.5 feet tapering to 1.5 feet at the top and would be designed to support three antenna platforms and the whip antenna. AT&T would place 6 panel antennas at the 95-foot level of the tower. The whip antenna would be placed at the top of the tower and would extend to a height of 107 feet above ground level. Nextel and Sprint intend on locating on the tower at the 85-foot and 75-foot levels at a future date. The existing monopole would be removed once the new tower is operational.

AT&T would install equipment cabinets on a concrete pad within a fenced compound at the base of the tower. Compound expansion would be necessary to accommodate future carriers. Utilities would be installed underground from a utility pole on Oliver Terrace, an abutting street.

The proposed site is located in an industrial and commercial area adjacent to Route 8. A residence is located approximately 200 feet north of the proposed tower site. A band of mature trees along the north property boundary would provide some screening of views from Platt Road and the adjacent residence.

The worst-case power density for the telecommunications operations at the site has been calculated to be 4.3% of the applicable standard for uncontrolled environments.

# Connecticut Siting Council<sup>(/CSC)</sup>

[CT.gov Home](#) [\(/\)](#) [Connecticut Siting Council](#) [\(/CSC\)](#) PE 722 D&O

[Decisions \(/CSC/Decisions/Decisions\)](#) >

[Meetings and Minutes \(/CSC/Common-Elements/v4-template/Council-Activity\)](#) >

[Pending Matters \(/CSC/1\\_Applications-and-Other-Pending-Matters/Pending-Matters\)](#) >

[About Us \(/CSC/Common-Elements/Common-Elements/Connecticut-Siting-Council---Description\)](#) >

[Contact Us \(/CSC/Common-Elements/Common-Elements/Contact-Us\)](#) >

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**PETITION NO. 722** – Cellco Partnership d/b/a Verizon Wireless petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed modification of an existing telecommunications facility located at 70 Platt Road, Shelton, Connecticut.

} Connecticut

} Siting

} Council

November 3, 2005

## Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the modification of the existing telecommunications tower located at 70 Platt Road in Shelton, Connecticut, are not significant, are not disproportionate 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 this petition.

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

1. The tower extension shall not exceed a height of 140 feet above ground level and shall be structurally compatible with the existing monopole.

2. If the tower modification authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the petitioner shall dismantle the extension and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
3. Any Verizon Wireless antennas that become obsolete and cease to function shall be removed within 60 days after such antennas become obsolete and cease to function.
4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Connecticut Post and the Huntington Herald.

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

The parties and intervenors to this proceeding are:

<p><b><u>Petitioner</u></b></p> <p>Cellco Partnership d/b/a Verizon Wireless</p>	<p><b><u>Its Representative</u></b></p> <p>Kenneth C. Baldwin, Esq.  Robinson &amp; Cole LLP  280 Trumbull Street  Hartford, CT 06103-3597</p>
<p><b><u>Party</u></b></p> <p>City of Shelton</p>	<p><b><u>Its Representative</u></b></p> <p>Richard D. Schultz, AICP  Planning and Zoning Administrator  City of Shelton  Office of Planning and Zoning  54 Hill Street  Shelton, CT 06484-3267</p>

# Exhibit B

## **Property Card**



### Property Information

Owner	BRENNAN REALTY LLC
Address	30 OLIVER TERR
Mailing Address	PO BOX 788 70 PLATT RD 06484
Land Use	- RESIDENTIAL
Land Class	3-2

Census Tract	1102
Neighborhood	
Zoning	IA-2
Acreage	1.18
Utilities	GAS/ELECTRIC
Lot Setting/ Desc	/

### Photo



### PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings		
Outbuildings		
Improvements		
Extras		
Land		
<b>Total</b>	<b>238000</b>	<b>166600</b>
Previous		

### Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Total Rooms	
Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

#### EXTERIOR WALLS:

Primary	
Secondary	

#### INTERIOR WALLS:

Primary	
Secondary	

#### FLOORS:

Primary	
Secondary	

#### HEATING/AC:

Heating Type	
Heating Fuel	
AC Type	

#### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

#### SALES HISTORY:

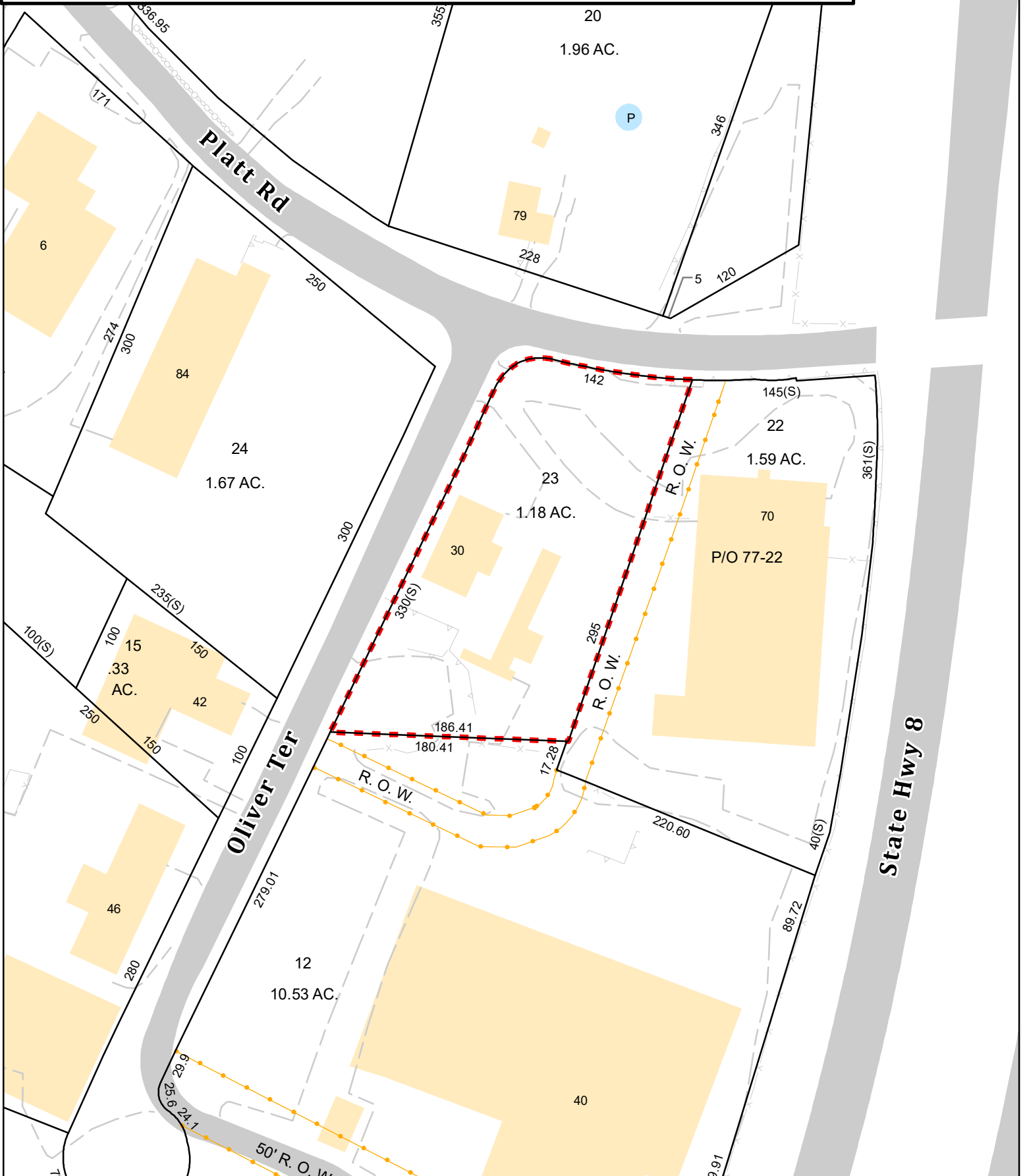
Sale Date	20040702
Sale Price	0
Book/ Page	2400/316-2



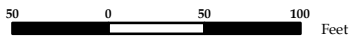
# City of Shelton, Connecticut - Parcel Map

Parcels: 77.-23

Address: 30 OLIVER TERR



Approximate Scale: 1:1,200



Map Produced April 2017

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The City of Shelton and its mapping contractors assume no legal responsibility for the information contained herein.

# Exhibit C

## **Construction Drawings**





**VERIZON SITE NUMBER:** 468414  
**VERIZON SITE NAME:** SHELTON 2 CT  
**SITE TYPE:** MONOPOLE  
**TOWER HEIGHT:** 140'-0"

**BUSINESS UNIT #:** 842873  
**SITE ADDRESS:** 30 OLIVER TERRACE  
 SHELTON, CT 06484  
**COUNTY:** FAIRFIELD  
**JURISDICTION:** CONNECTICUT SITING COUNCIL

**VERIZON 5G L-SUB6 - CARRIER ADD**



**VERIZON SITE NUMBER:**  
468414  
  
**BU #:** 842873  
**SHELTON NE**  
  
 30 OLIVER TERRACE  
 SHELTON, CT 06484  
  
 EXISTING 140'-0" MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/27/21	GAC	CONSTRUCTION	JHW

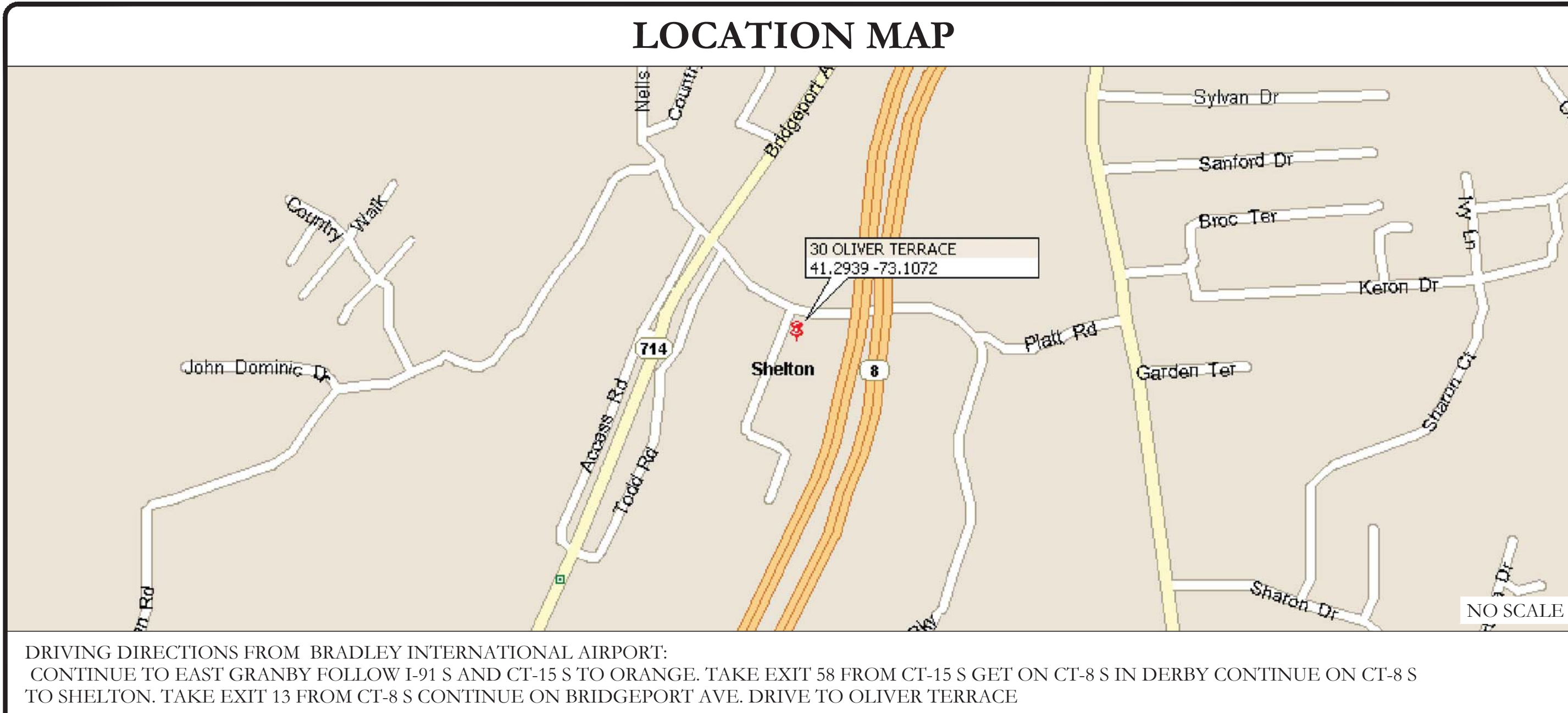
**SITE INFORMATION**

CROWN CASTLE USA INC. SITE NAME:	SHELTON NE
SITE ADDRESS:	30 OLIVER TERRACE SHELTON, CT 06484
COUNTY:	FAIRFIELD
MAP/PARCEL #:	77 23
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.293947
LONGITUDE:	-73.107175
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	311'
CURRENT ZONING:	IA-2
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	BRENNAN REALTY LLC PO BOX 788 70 PLATT SHELTON, RD 06484
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 20 ALEXANDER DRIVE, 2ND FLOOR WALLINGFORD, CT 06492
ELECTRIC PROVIDER:	UNITED ILLUMINATING CO.
TELCO PROVIDER:	T.B.D.

**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
ATTACHED	MOUNT MODIFICATION DRAWINGS

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



**APPROVALS**

SIGNATURE	DATE
_____	_____
_____	_____
_____	_____
_____	_____

**CONTRACTOR PMI REQUIREMENTS**

PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR	
PROJECT NUMBER	10099780
VzW LOCATION CODE (PSLC)	468414

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

**MOUNT MODIFICATION REQUIRED** Y

**VzW APPROVED SMART KIT VENDORS**

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

**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 W/ AMENDMENTS
MECHANICAL	2015 IMC W/ AMENDMENTS
ELECTRICAL	2017 NEC

**REFERENCE DOCUMENTS:**

STRUCTURAL ANALYSIS:	CROWN CASTLE
DATED:	10/12/21
MOUNT ANALYSIS:	MASER CONSULTING CONNECTICUT
DATED:	9/10/21
RFDS REVISION:	N/A
DATED:	10/13/21
ORDER ID:	589479
REVISION:	2

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

**PROJECT DESCRIPTION**

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

**TOWER SCOPE OF WORK:**

- REMOVE (9) ANTENNAS
- REMOVE (9) RADIOS
- REMOVE (6) COAX CABLES (1-5/8")
- REMOVE (2) COAX CABLES BY OTHERS (1-1/4")
- RELOCATE (3) ANTENNAS
- INSTALL MOUNT MODIFICATIONS PER MOUNT MODIFICATION DESIGN BY MASER CONSULTING CONNECTICUT DATED 9/10/21
- INSTALL (3) 2" SBS MOUNTING BRACKET
- INSTALL (9) ANTENNAS
- INSTALL (6) RADIOS

**GROUND SCOPE OF WORK:**

- NONE

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

**PROFESSIONAL ENGINEER**

B&T ENGINEERING, INC.  
 PEC.0001564  
 Expires 2/10/22

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.

<b>SHEET NUMBER:</b> T-1	<b>REVISION:</b> 0
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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.

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.

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.

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.

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.

Table with columns: SYSTEM, CONDUCTOR, COLOR. Lists conductor color codes for 120/240V, 120/208V, 277/480V, and DC VOLTAGE.

APWA UNIFORM COLOR CODE:

- WHITE PROPOSED EXCAVATION
PINK TEMPORARY SURVEY MARKINGS
RED ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES

ABBREVIATIONS:

- ANT ANTENNA
(E) EXISTING
FIF FACILITY INTERFACE FRAME
GEN GENERATOR



180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921



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



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

VERIZON SITE NUMBER:
468414

BU #: 842873
SHELTON NE

30 OLIVER TERRACE
SHELTON, CT 06484

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

Table with columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Row 0: 10/27/21, GAC, CONSTRUCTION, JHW



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SHEET NUMBER: REVISION:

T-2 0



VERIZON SITE NUMBER:  
**468414**

BU #: **842873**  
**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0" MONOPOLE

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Expires 2/10/22

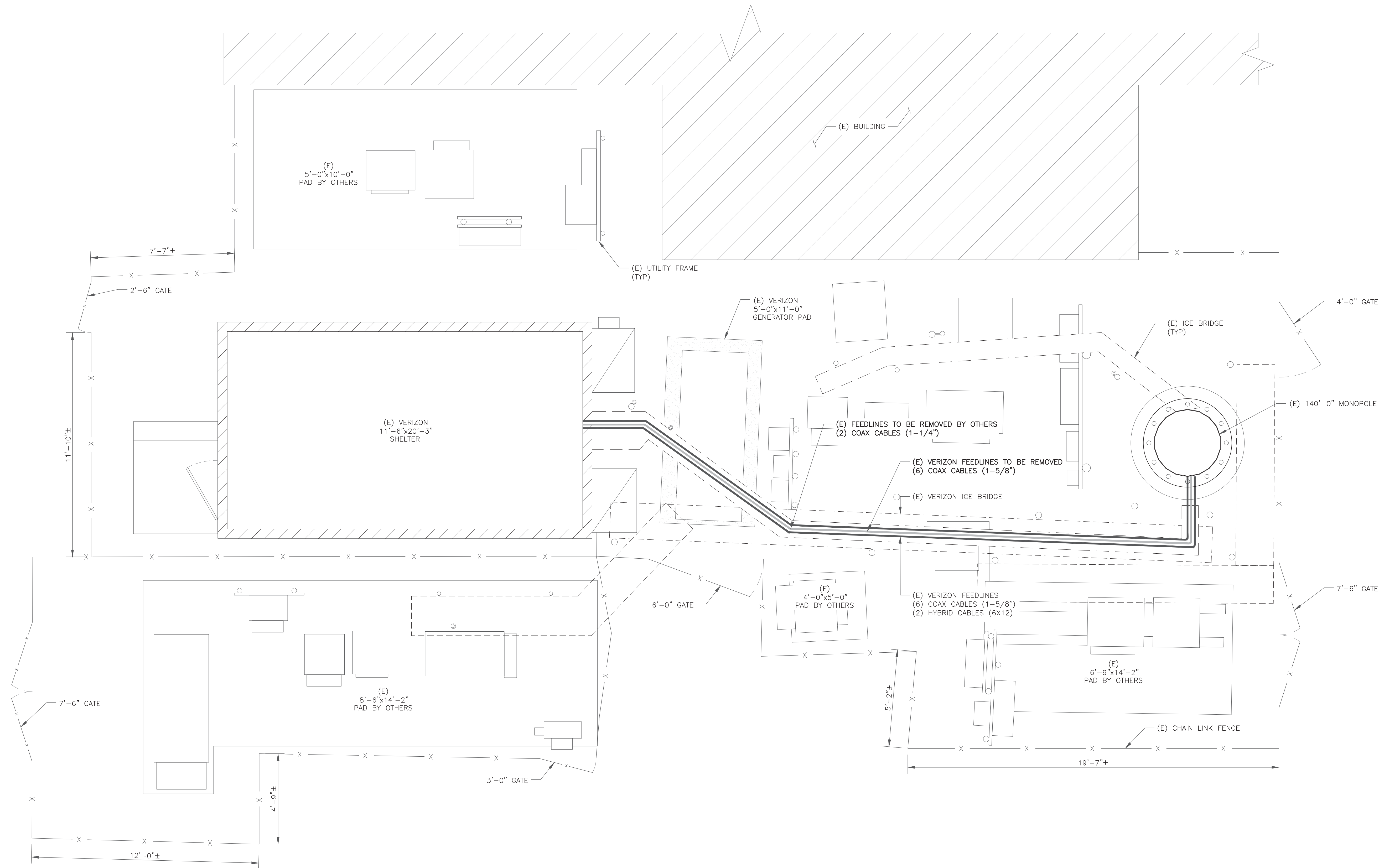
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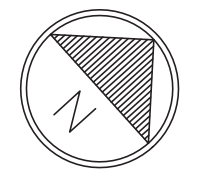
**C-1**

REVISION:

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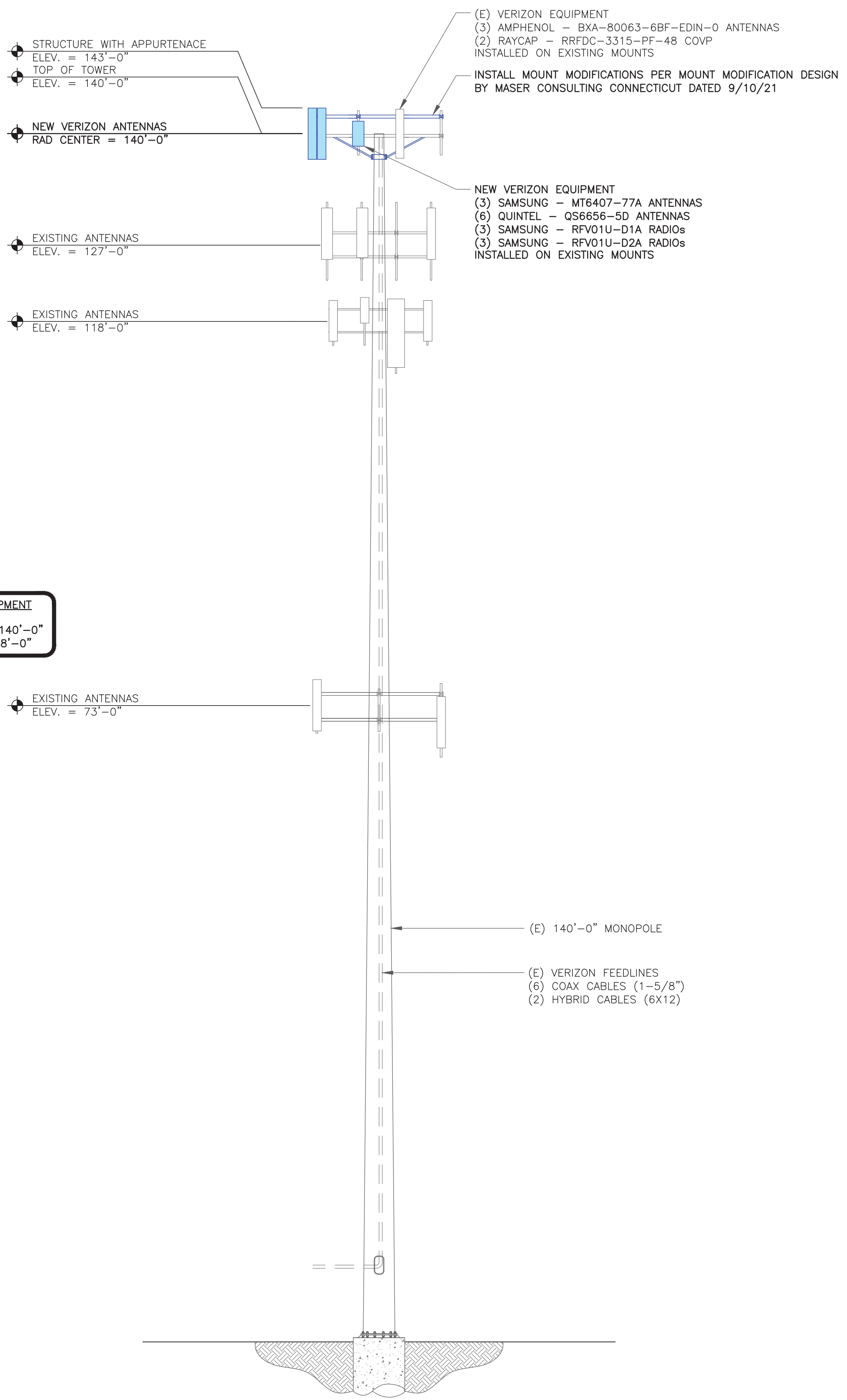


1 SITE PLAN  
SCALE: 3/8"=1'-0" (FULL SIZE)  
3/16"=1'-0" (11x17)

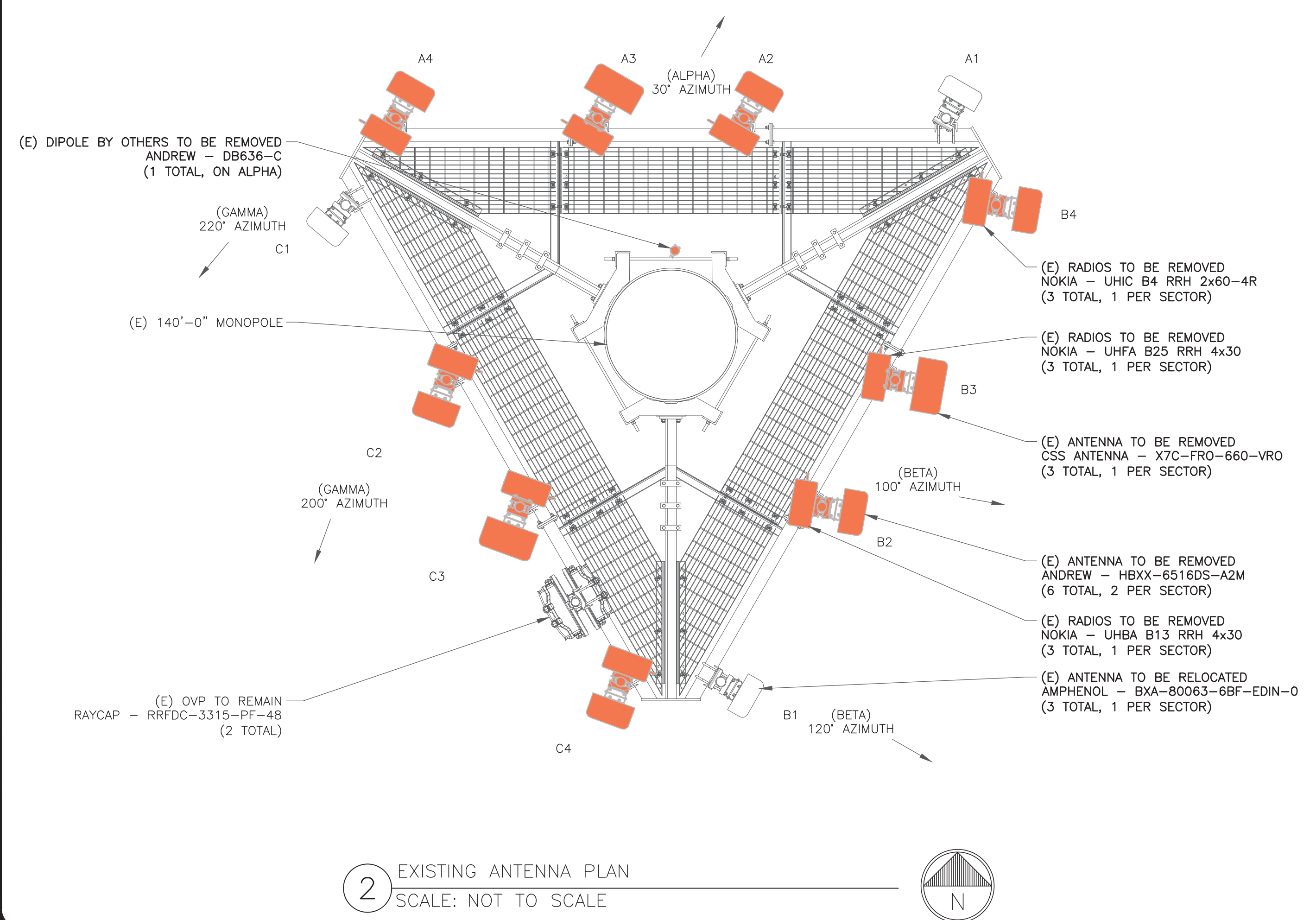


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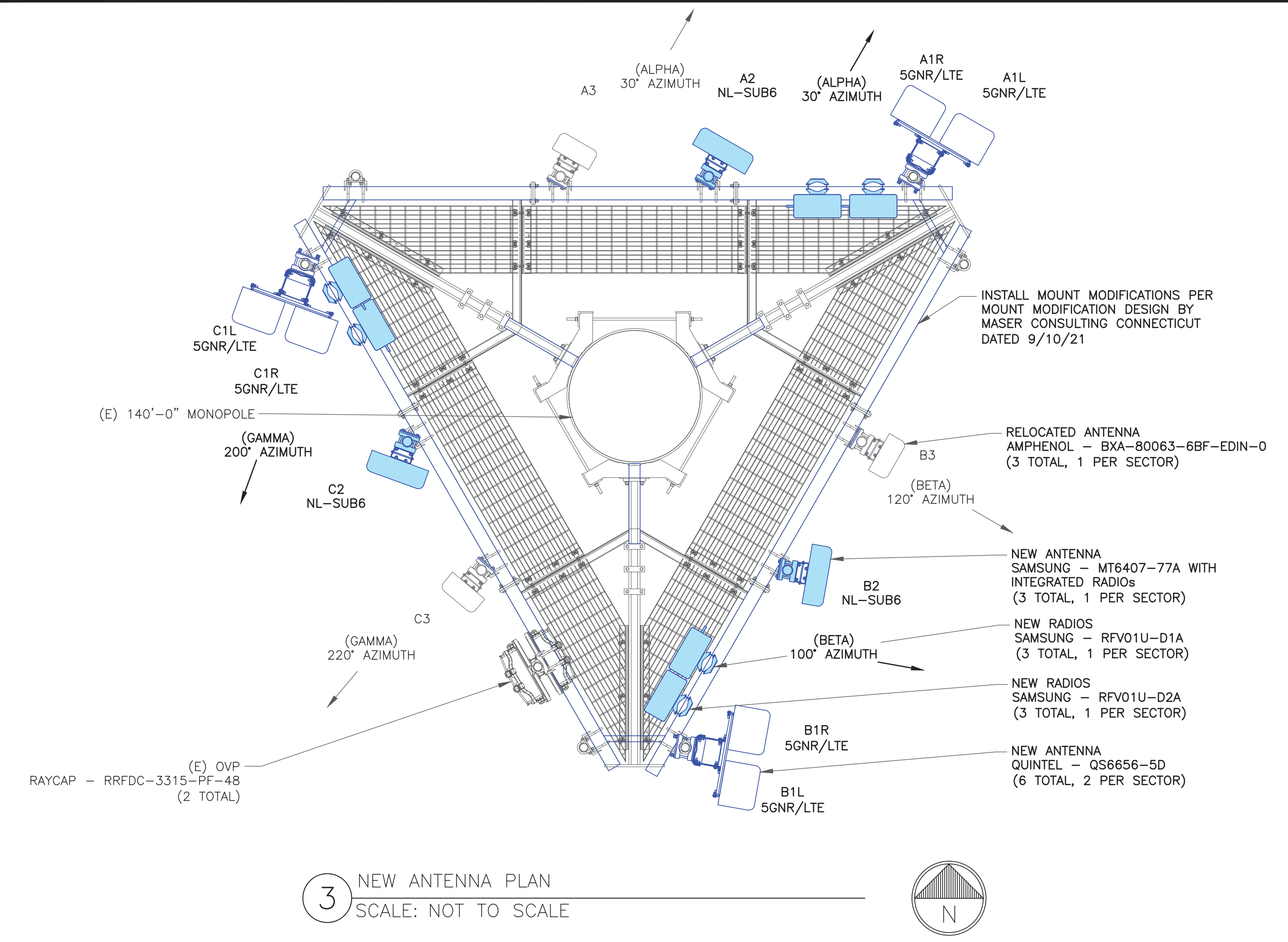




1 TOWER ELEVATION  
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN  
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN  
SCALE: NOT TO SCALE

**verizon**  
180 WASHINGTON VALLEY ROAD  
BEDMINSTER, NJ 07921

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

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

VERIZON SITE NUMBER:  
**468414**

BU #: **842873**  
**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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SHEET NUMBER: **C-2** REVISION: **0**

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VERIZON SITE NUMBER:  
**468414**

BU #: **842873**  
**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0" MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/27/21	GAC	CONSTRUCTION	JHW



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Expires 2/10/22

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SHEET NUMBER:

**C-3**

REVISION:

**0**

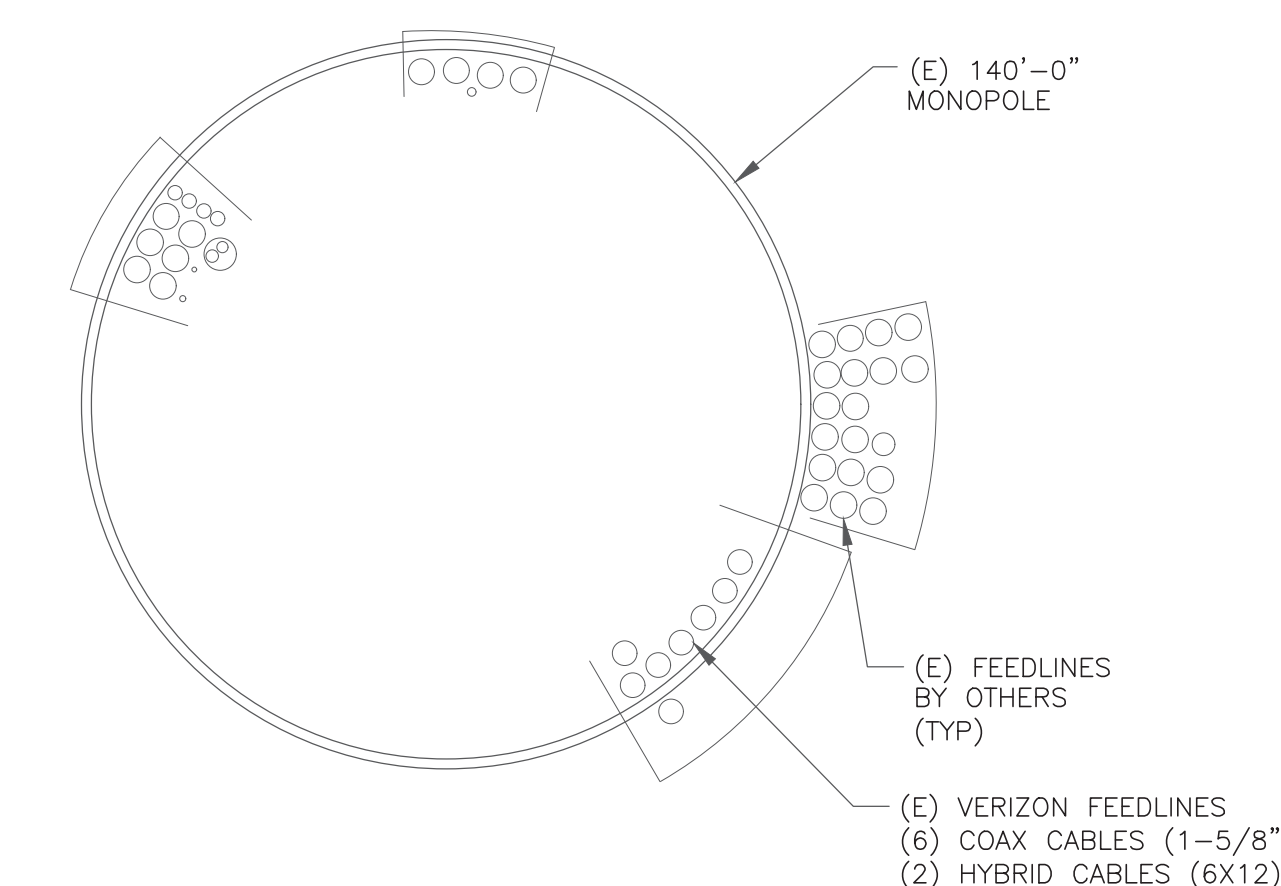
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1L	NEW	QUINTEL	QS6656-5D	140'-0"	30°	0°	10°/10°/10°/9°/6°	SAMSUNG	(1) RFV01U-D1A
A1R	NEW	QUINTEL	QS6656-5D	140'-0"	30°	0°	10°/10°/10°/9°/6°	SAMSUNG	(1) RFV01U-D2A
A2	NEW	SAMSUNG	MT6407-77A	140'-0"	30°	0°	6°	-	INTEGRATED RADIO
A3	EXISTING	AMPHENOL	BXA-80063-6BF-EDIN-0	140'-0"	30°	0°	0°	-	-
B1L	NEW	QUINTEL	QS6656-5D	140'-0"	100°	0°	6°/6°/6°/3°/3°	SAMSUNG	(1) RFV01U-D1A
B1R	NEW	QUINTEL	QS6656-5D	140'-0"	100°	0°	6°/6°/6°/3°/3°	SAMSUNG	(1) RFV01U-D2A
B2	NEW	SAMSUNG	MT6407-77A	140'-0"	100°	0°	6°	-	INTEGRATED RADIO
B3	EXISTING	AMPHENOL	BXA-80063-6BF-EDIN-0	140'-0"	120°	0°	0°	-	-
C1L	NEW	QUINTEL	QS6656-5D	140'-0"	200°	0°	10°/10°/10°/5°/9°	SAMSUNG	(1) RFV01U-D1A
C1R	NEW	QUINTEL	QS6656-5D	140'-0"	200°	0°	10°/10°/10°/5°/9°	SAMSUNG	(1) RFV01U-D2A
C2	NEW	SAMSUNG	MT6407-77A	140'-0"	200°	0°	6°	-	INTEGRATED RADIO
-	-	-	-	-	-	-	-	RAYCAP	(2) RRFDC-3315-PF-48
C3	EXISTING	AMPHENOL	BXA-80063-6BF-EDIN-0	140'-0"	220°	0°	0°	-	-

1 VERIZON TOWER EQUIPMENT SCHEDULE  
SCALE: NOT TO SCALE

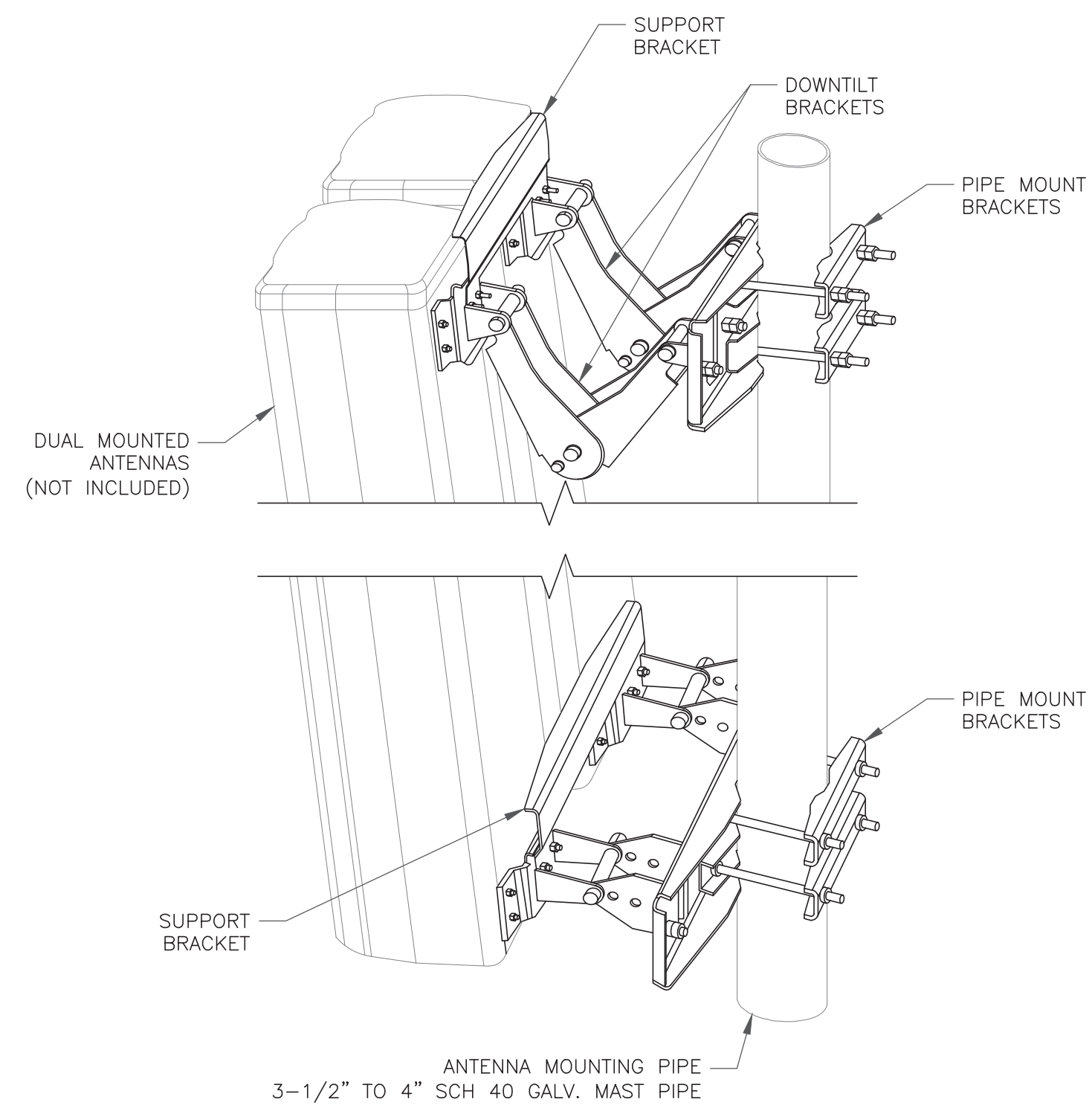
CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	190'-0"±	6
EXISTING	HYBRID	6X12	190'-0"±	2
TOTAL CABLE QTY:				8



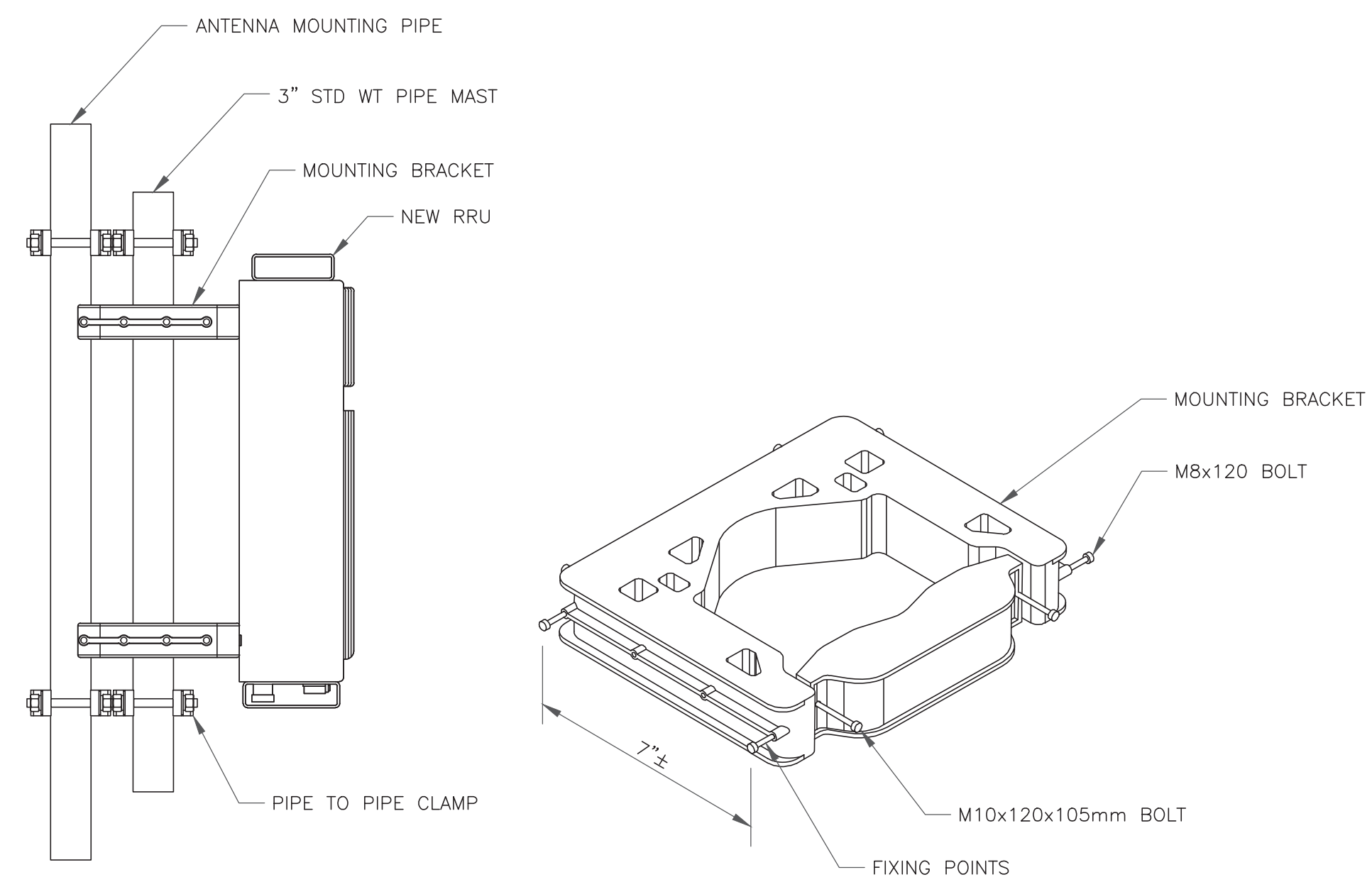
2 BASE LEVEL DETAIL  
SCALE: NOT TO SCALE



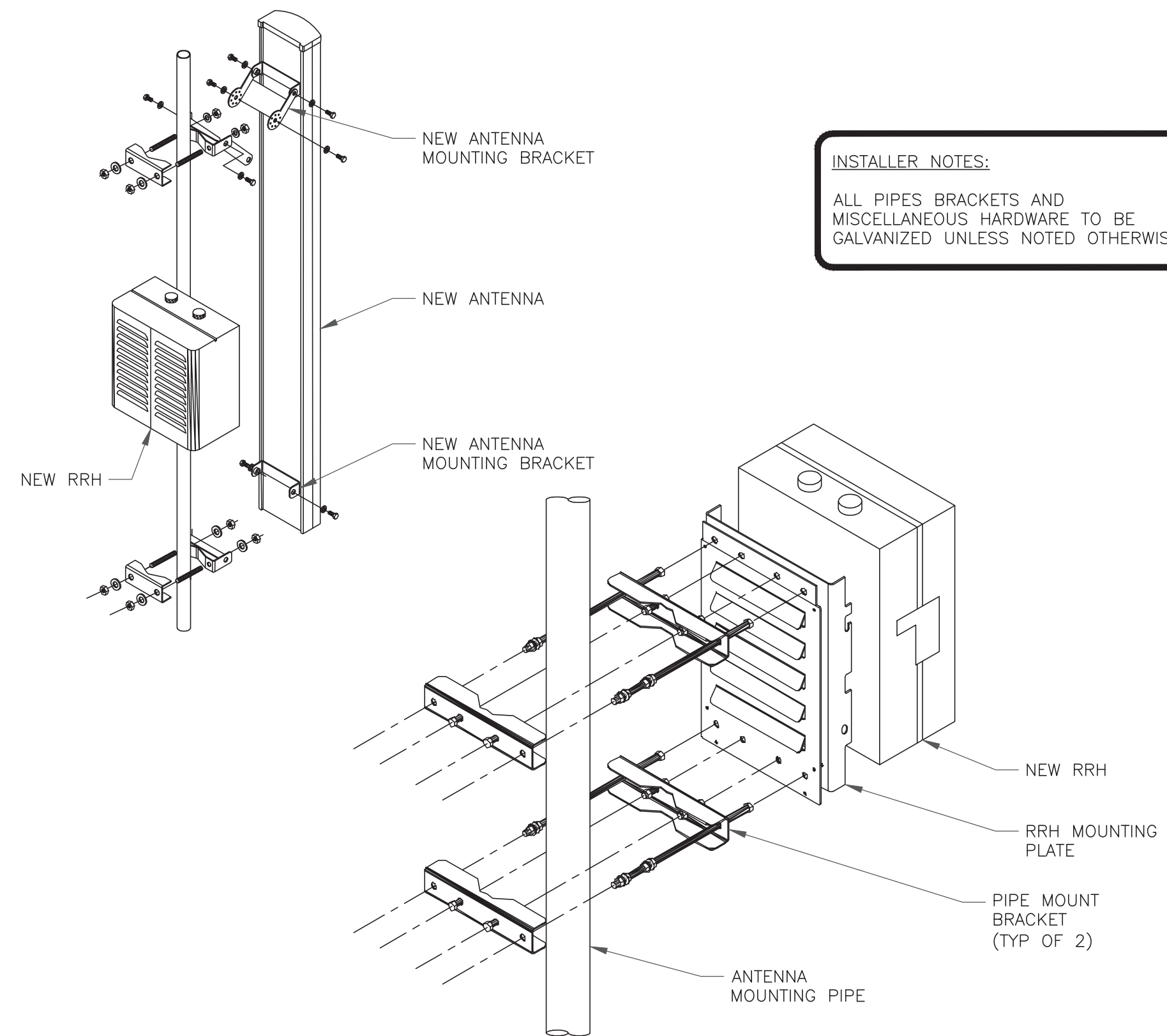


1 QUINTEL -- AS-005245  
SCALE: NOT TO SCALE

2 NOT USED  
SCALE: NOT TO SCALE



3 NOKIA -- FPKA BRACKET MOUNTING DETAIL  
SCALE: NOT TO SCALE



4 ANTENNA & RRH MOUNTING DETAIL  
SCALE: NOT TO SCALE

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SUITE 300  
TULSA, OK 74119  
PH: (918) 587-4630  
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VERIZON SITE NUMBER:  
**468414**

BU #: **842873**  
**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0" MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/27/21	GAC	CONSTRUCTION	JHW



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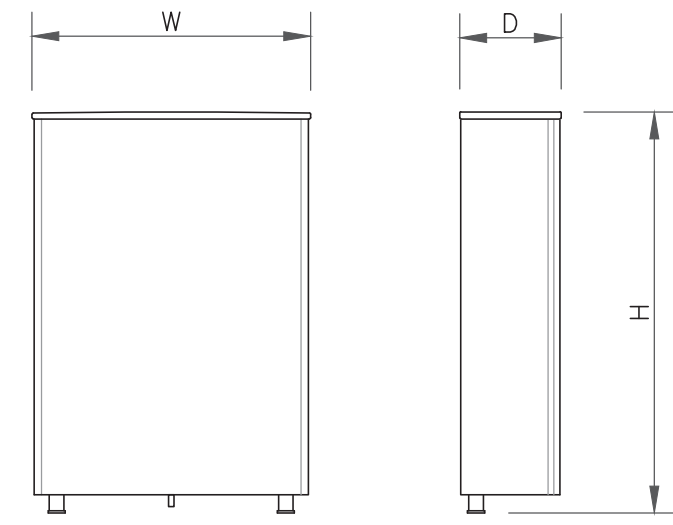
SHEET NUMBER:

**C-4**

REVISION:

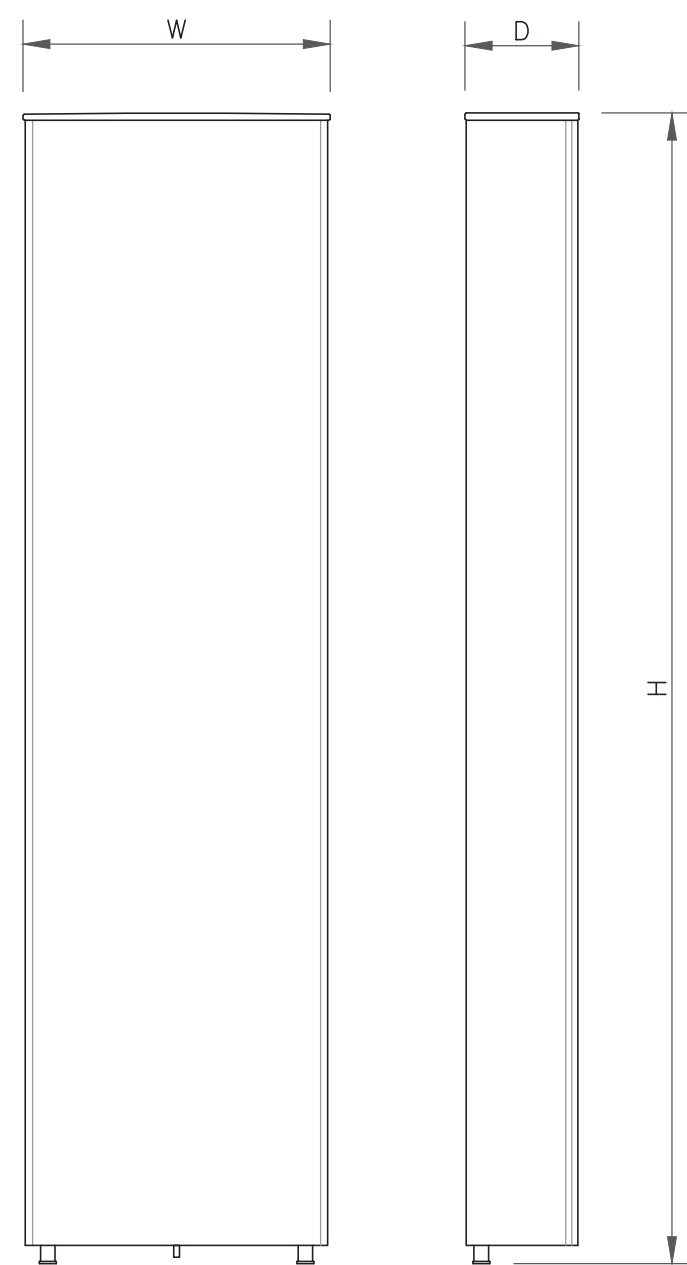
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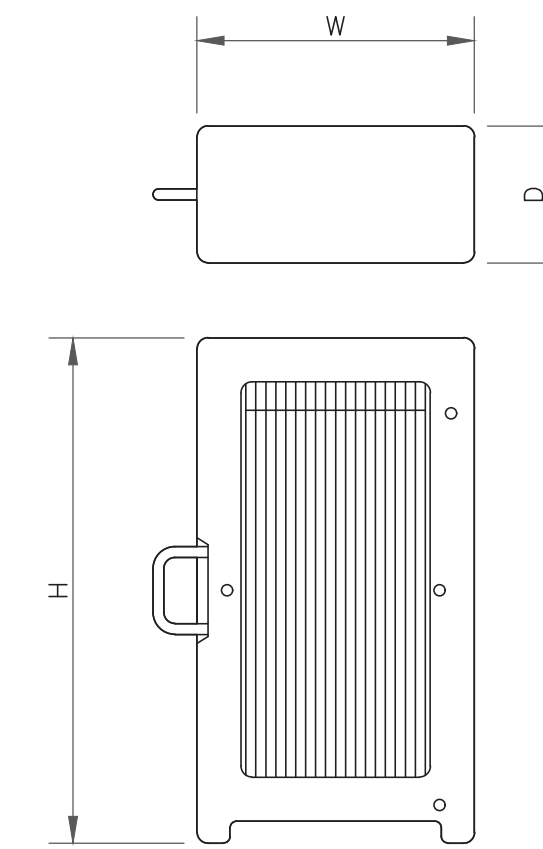
ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

1 ANTENNA SPECS  
SCALE: NOT TO SCALE



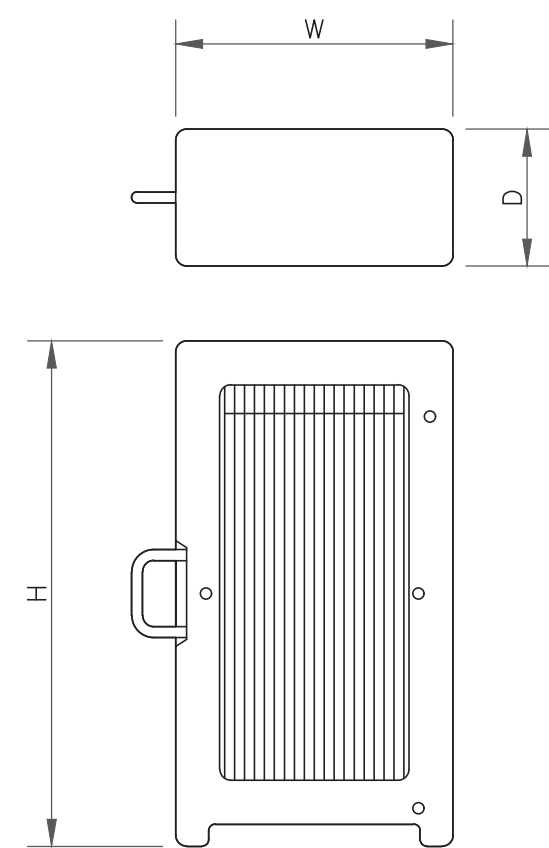
ANTENNA SPECS	
MANUFACTURER	QUINTEL TECHNOLOGY
MODEL #	QS6656-5D
WIDTH	12.00"
DEPTH	9.60"
HEIGHT	72.00"
WEIGHT	88.00 LBS

2 ANTENNA SPECS  
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	RFV01U-D1A
WIDTH	14.96"
DEPTH	10.00"
HEIGHT	14.96"
WEIGHT	44.00 LBS

3 RRU SPECS  
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	RFV01U-D2A
WIDTH	14.96"
DEPTH	10.04"
HEIGHT	14.96"
WEIGHT	74.70 LBS

4 RRU SPECS  
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 #: **842873**  
**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/27/21	GAC	CONSTRUCTION	JHW



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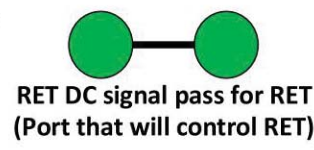
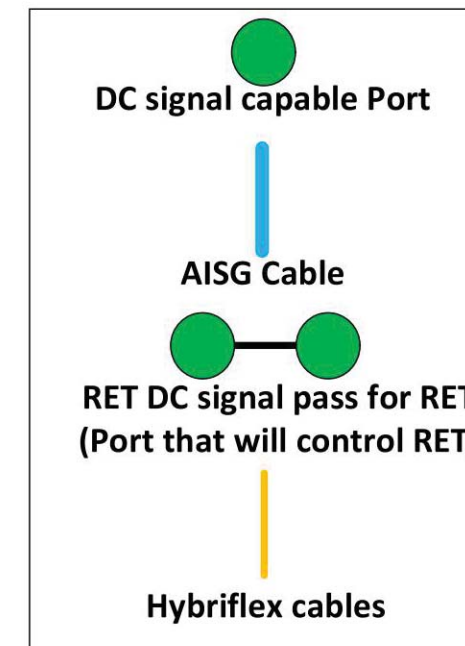
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SHEET NUMBER: **C-5** REVISION: **0**

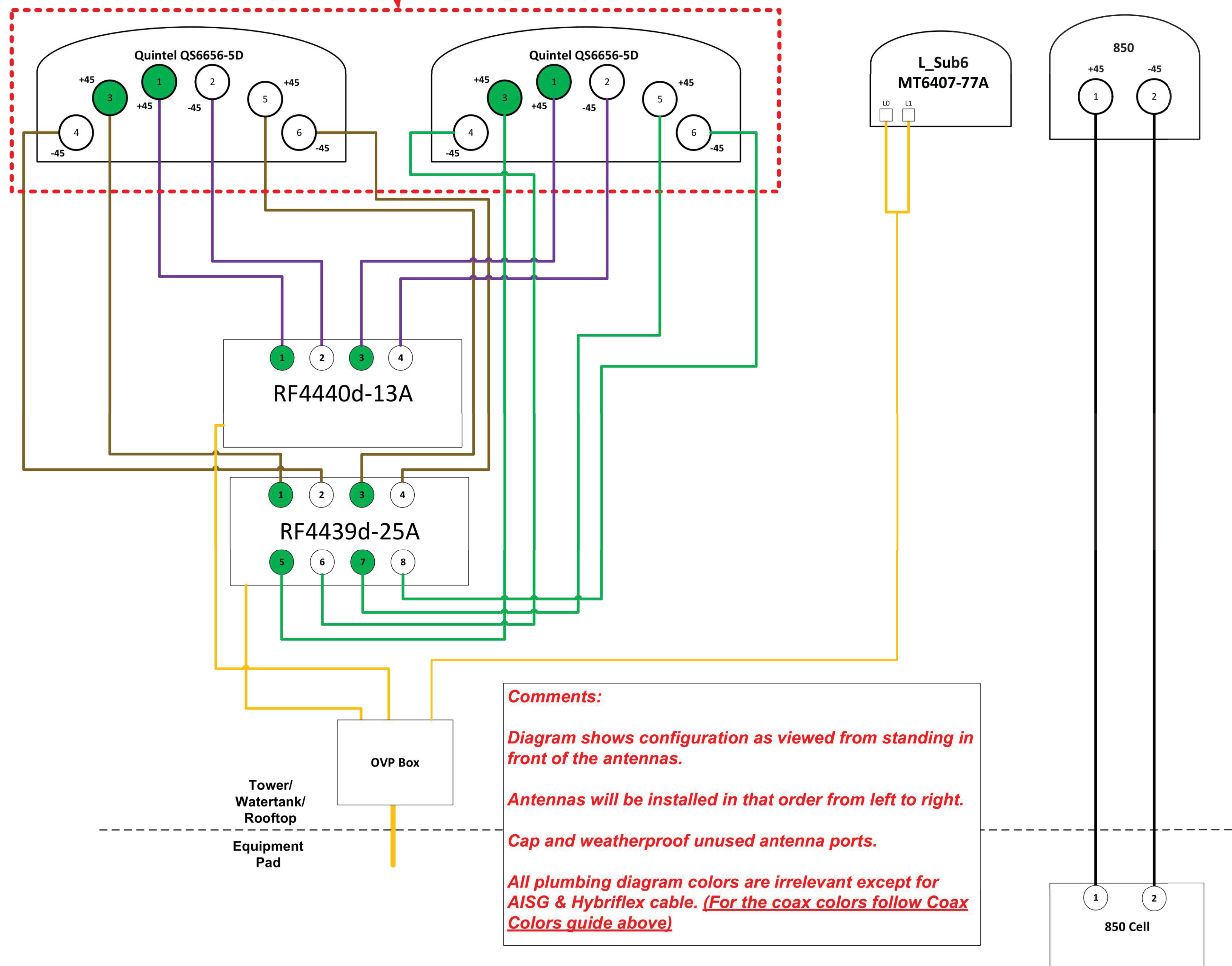




- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Antenna Smart Bias Tee (SBT) is through port 1 for low band and port 3 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.



2" Side By Side Mount



**Comments:**

*Diagram shows configuration as viewed from standing in front of the antennas.*

*Antennas will be installed in that order from left to right.*

*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)*



VERIZON SITE NUMBER:  
468414

BU #: 842873  
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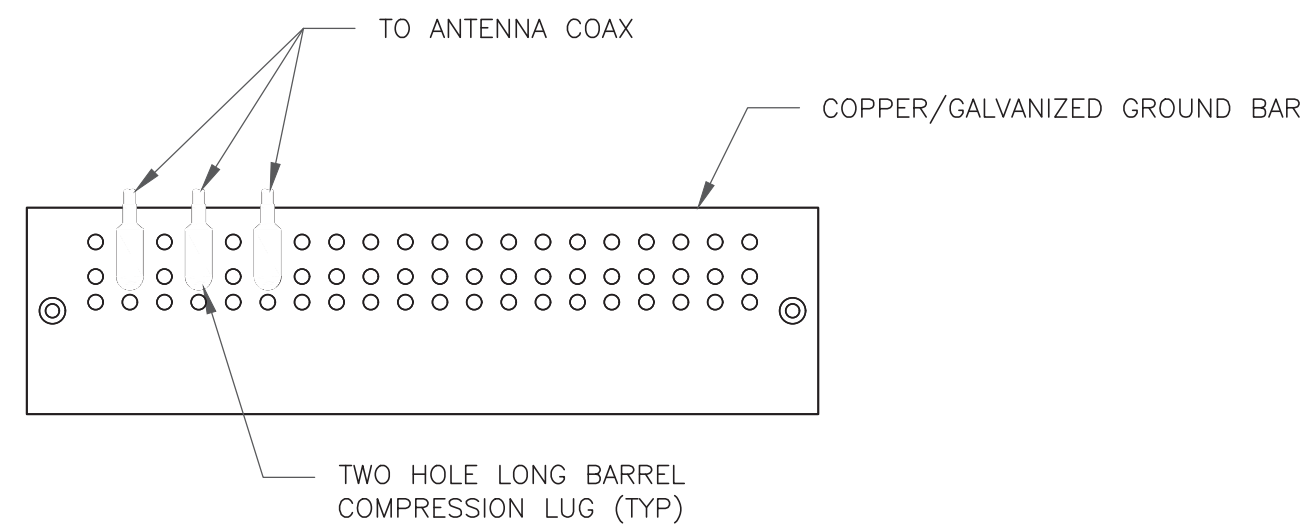


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SHEET NUMBER: **C-6** REVISION: **0**

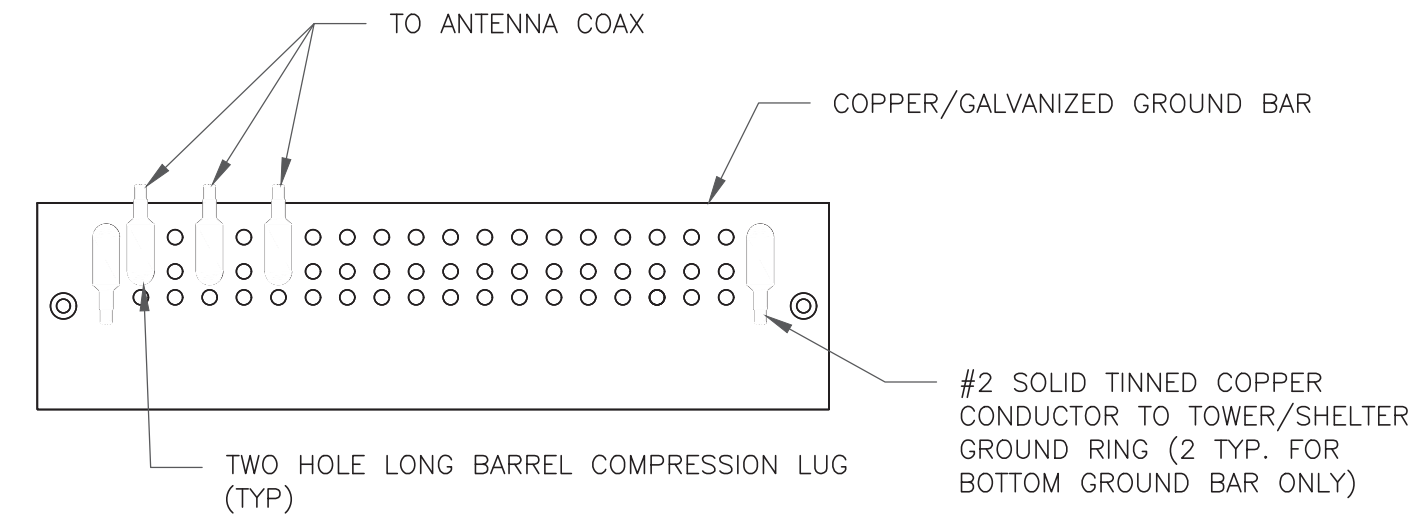




NOTES:

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

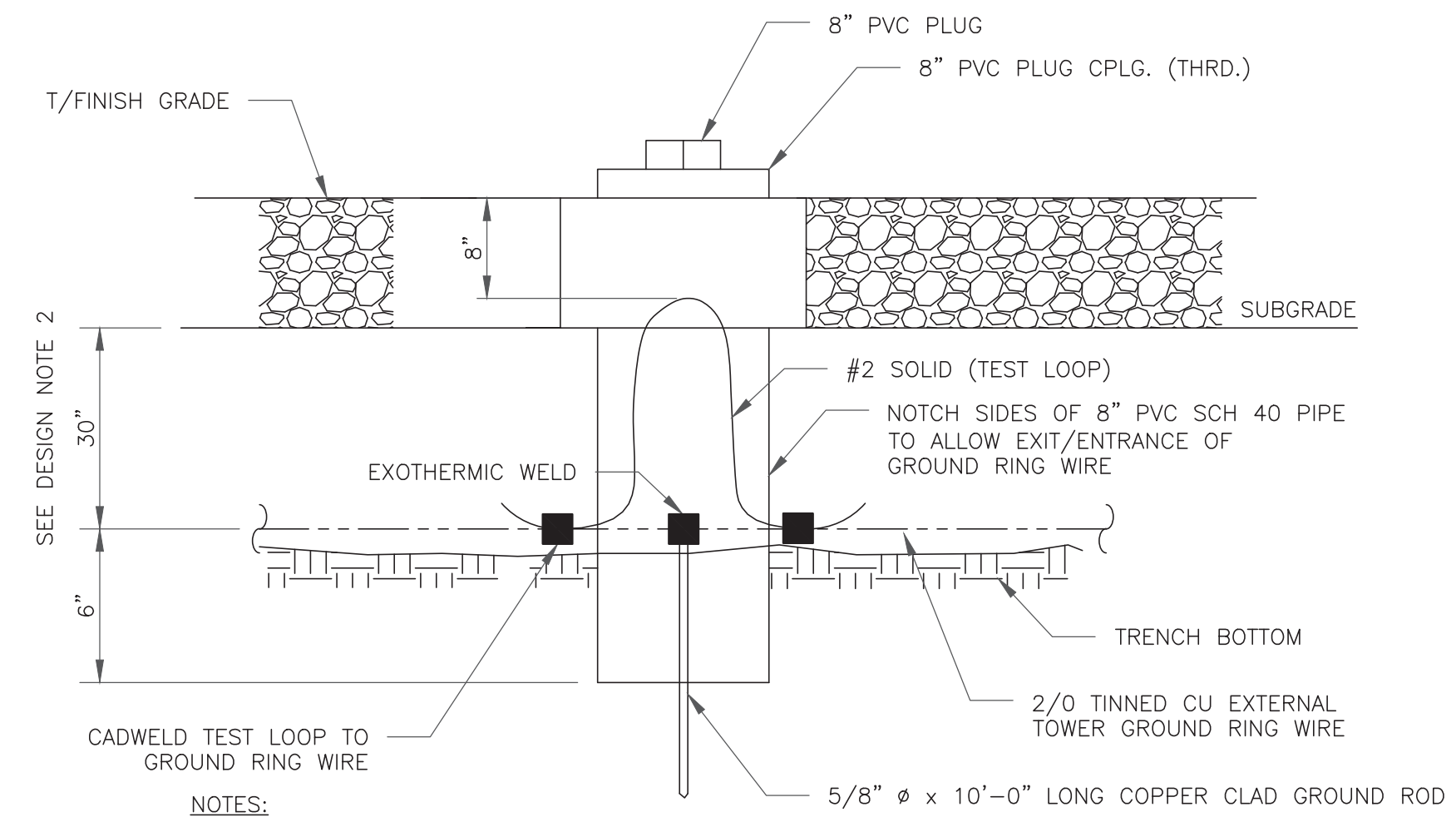
1 ANTENNA SECTOR GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

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

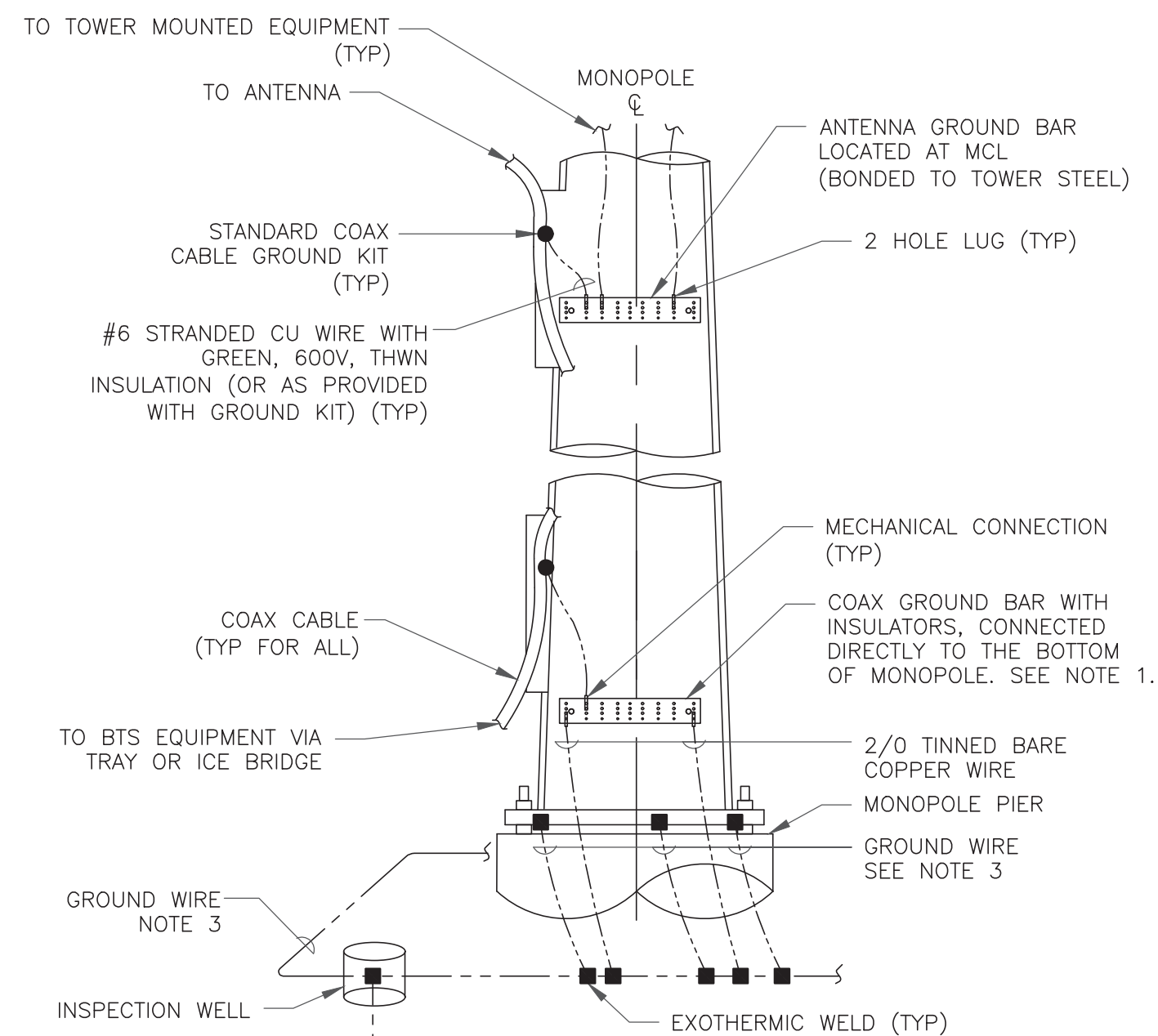
2 TOWER/SHELTER GROUND BAR DETAIL  
SCALE: NOT TO SCALE



NOTES:

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

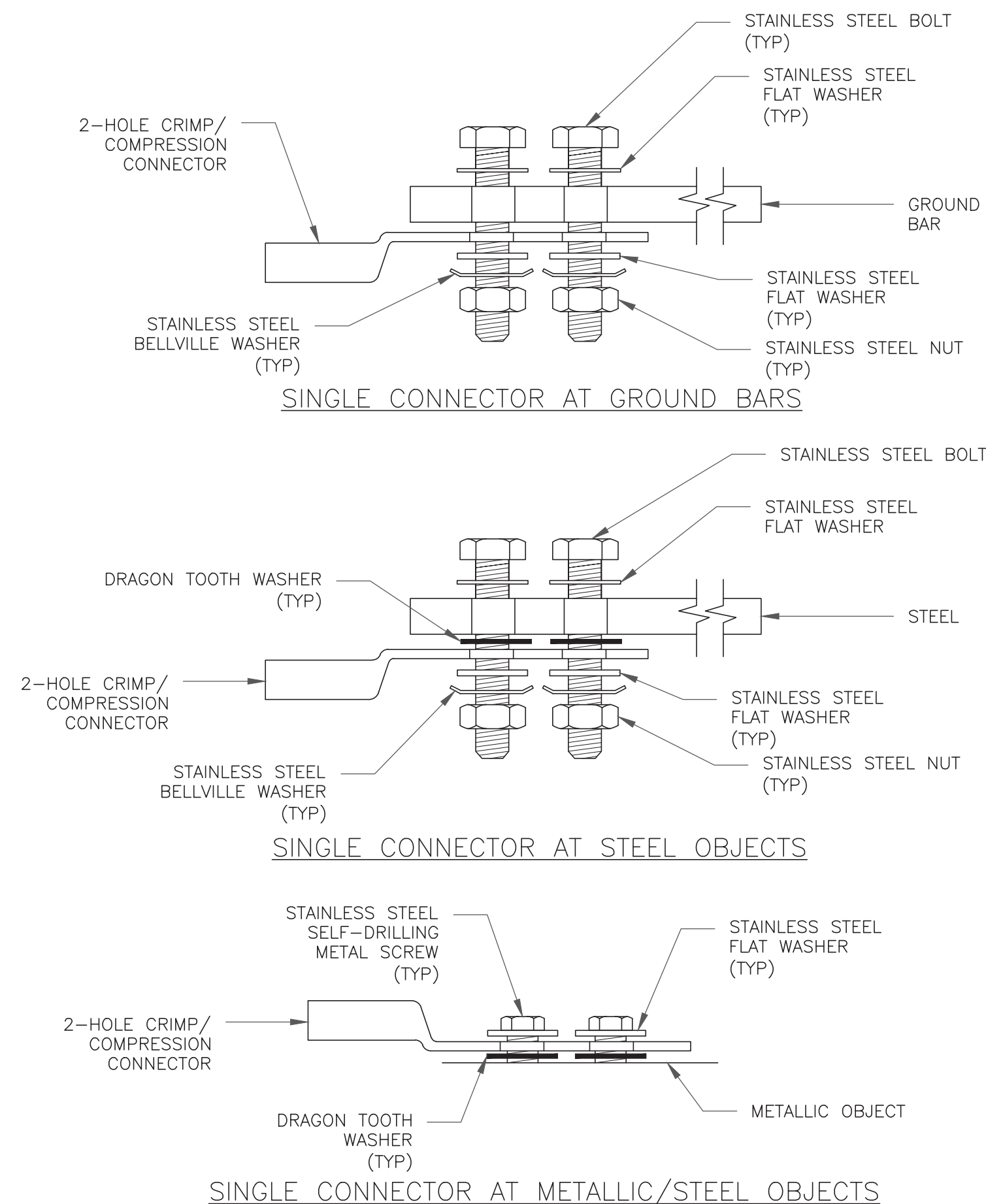
3 INSPECTION WELL DETAIL  
SCALE: NOT TO SCALE



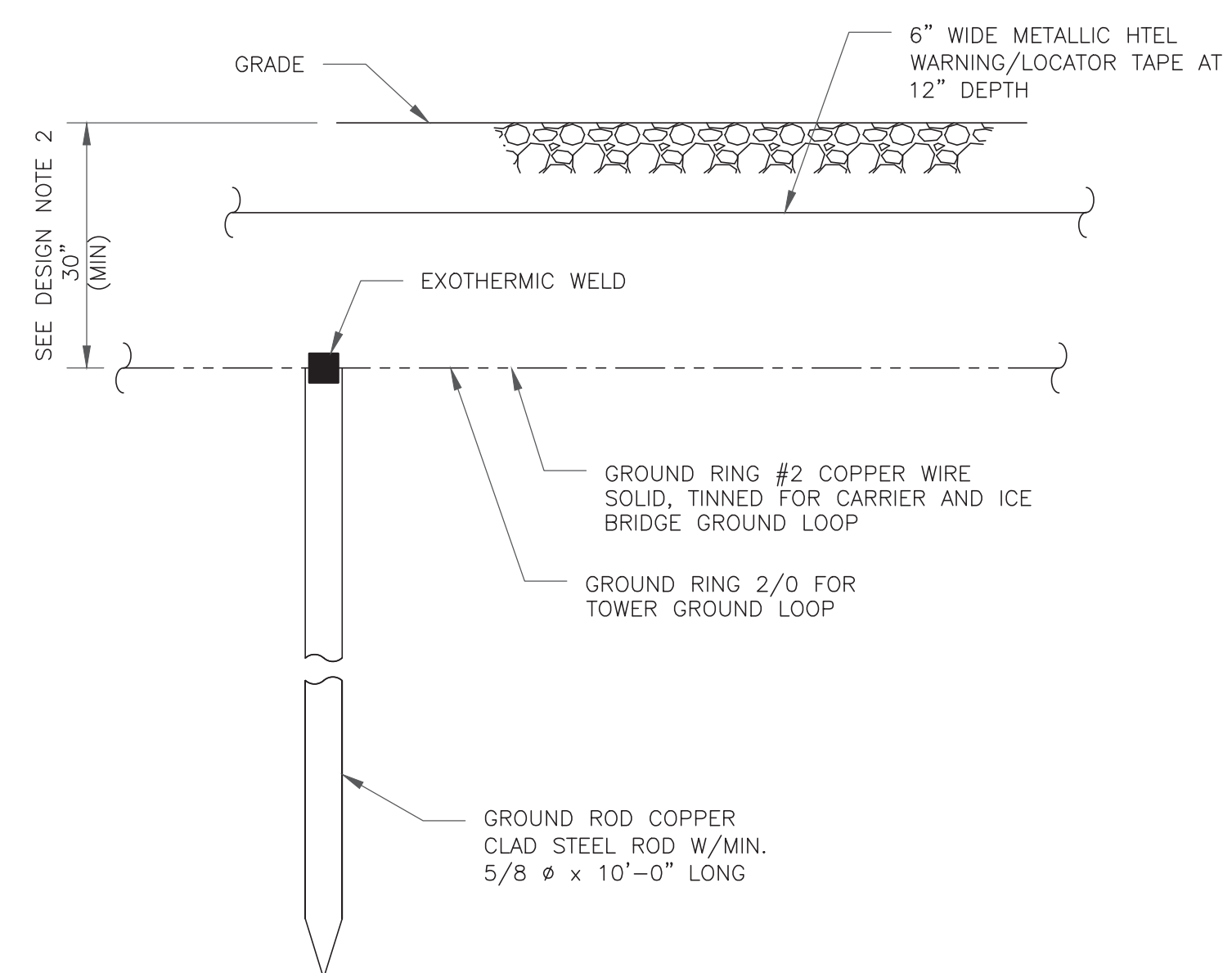
NOTES:

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

4 TYPICAL ANTENNA CABLE GROUNDING  
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS  
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL  
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:  
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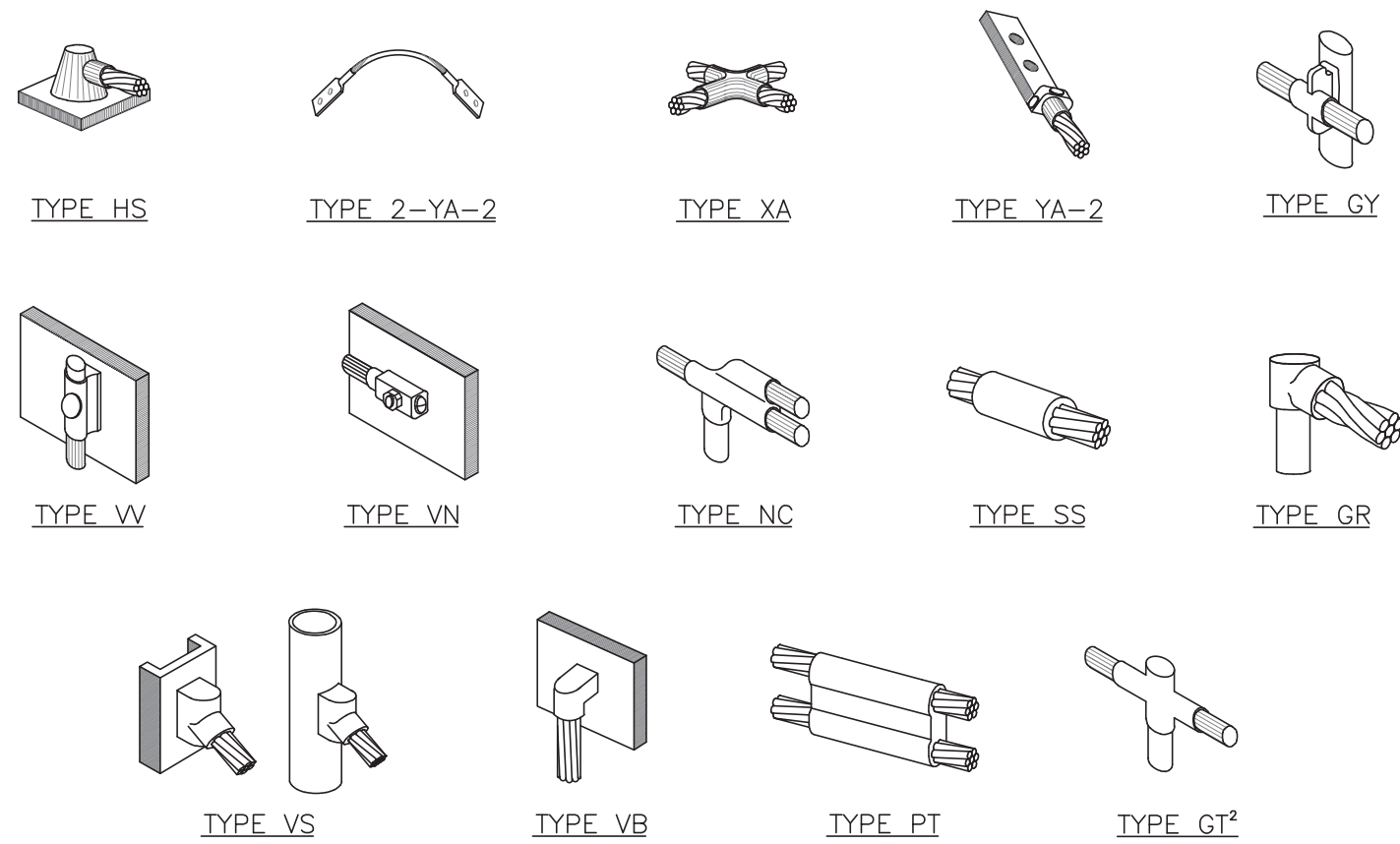
SHEET NUMBER:

G-1

REVISION:

0

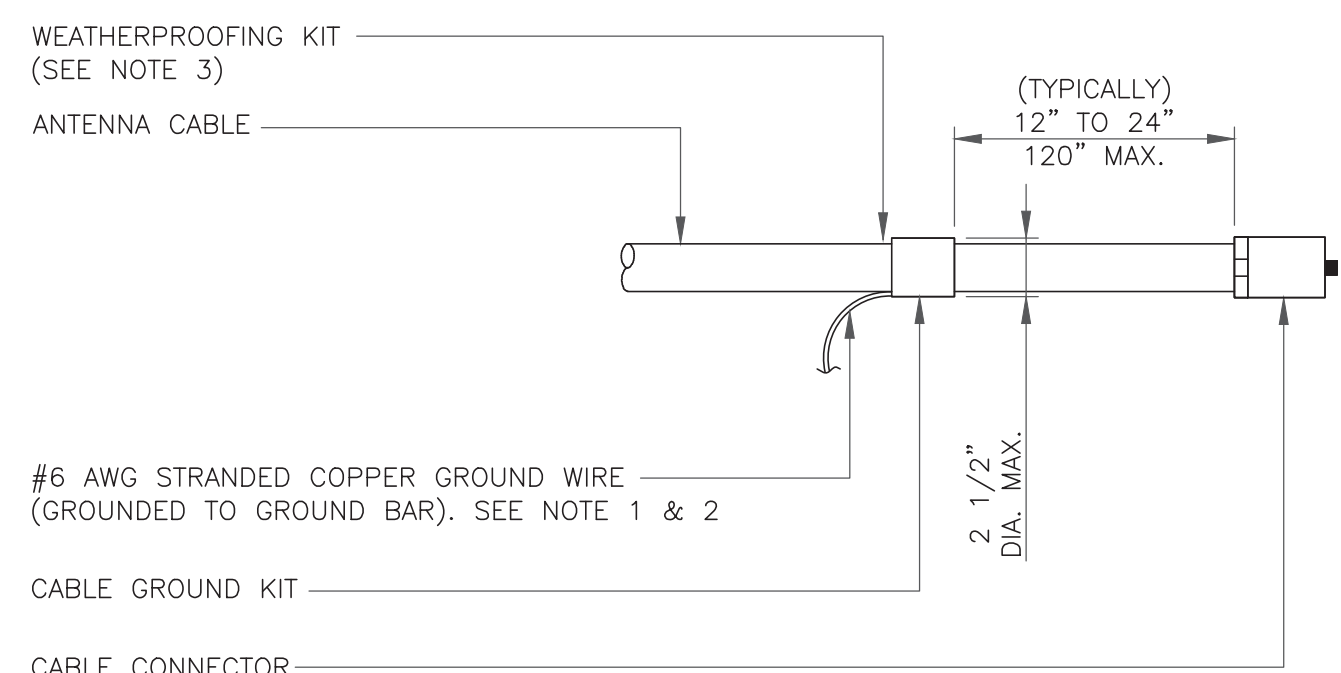




**NOTE:**

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

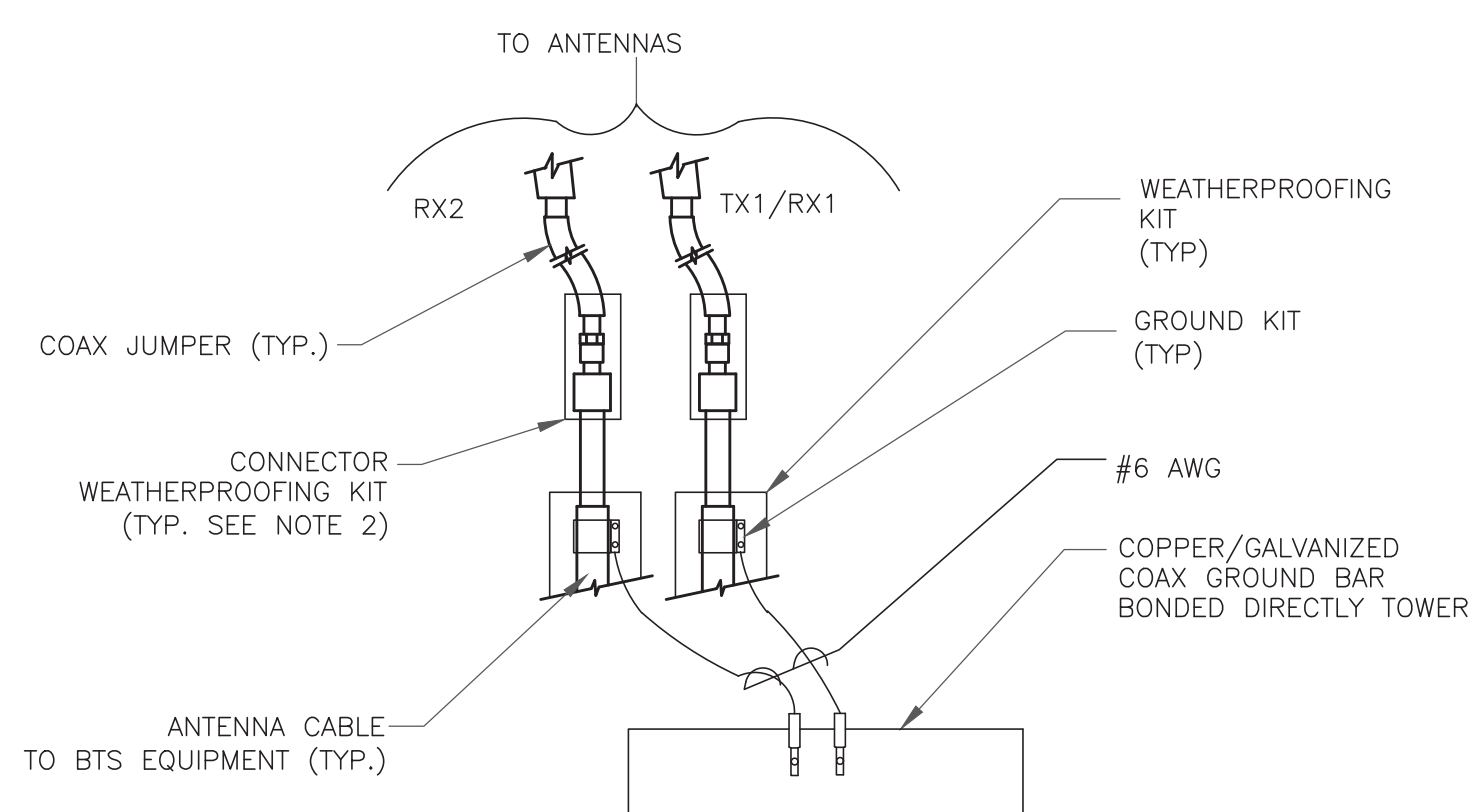
**1 CADWELD GROUNDING CONNECTIONS**  
SCALE: NOT TO SCALE



**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.

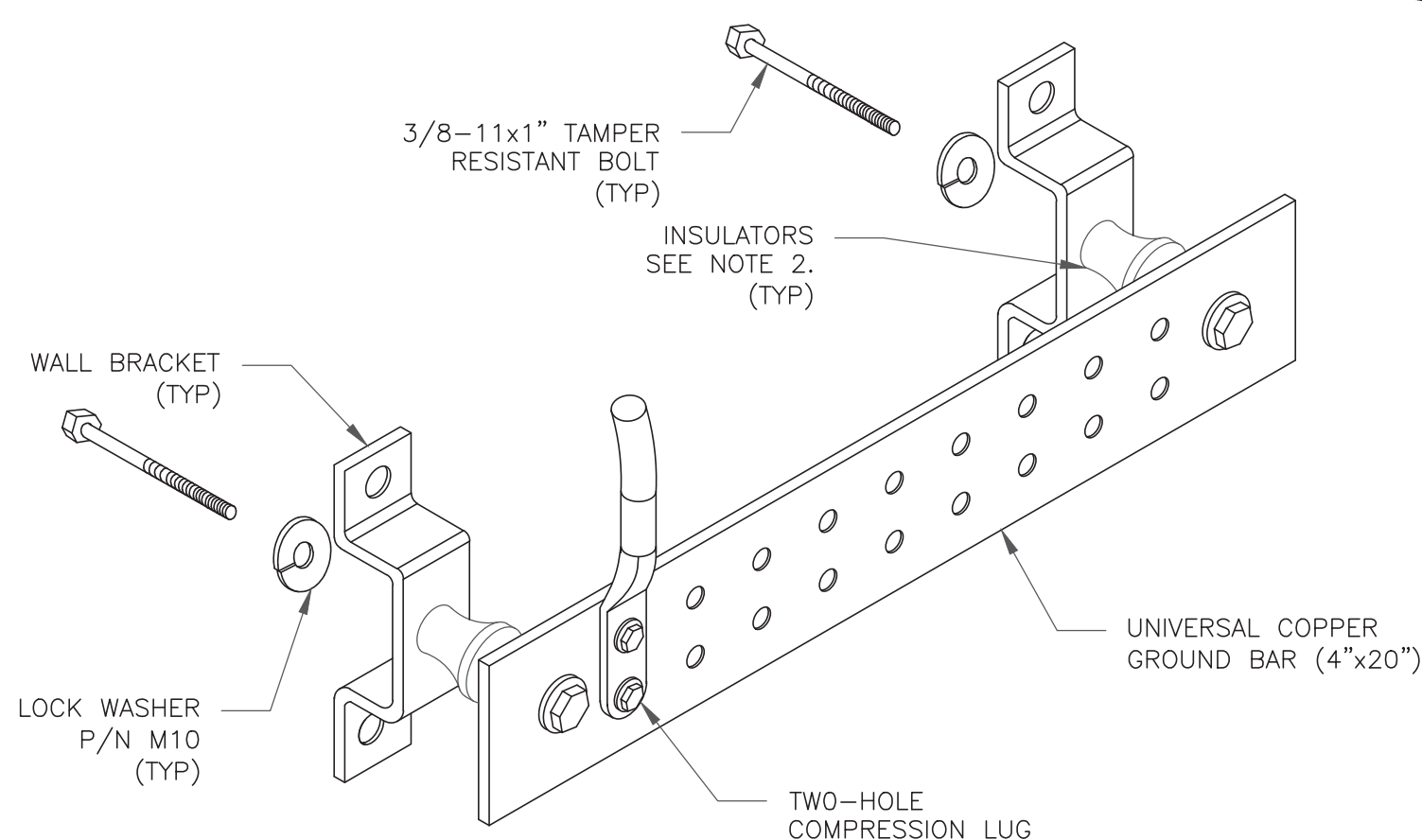
**3 CABLE GROUND KIT CONNECTION**  
SCALE: NOT TO SCALE



**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.

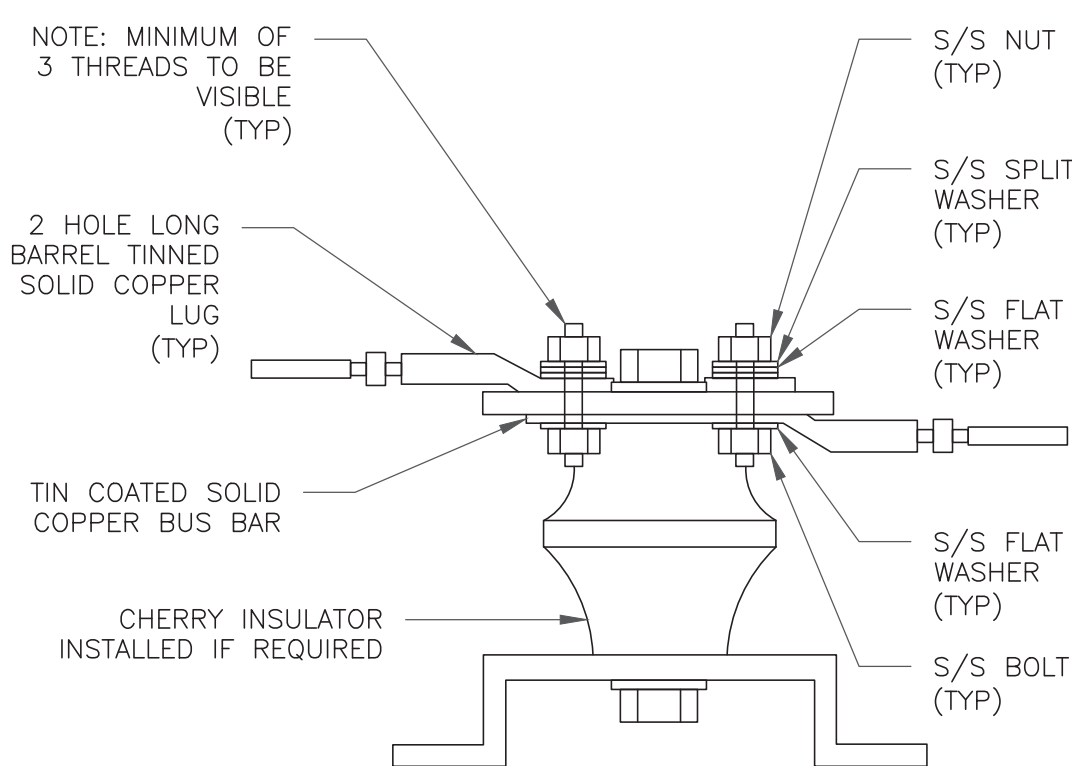
**4 GROUND CABLE CONNECTION**  
SCALE: NOT TO SCALE



**NOTES:**

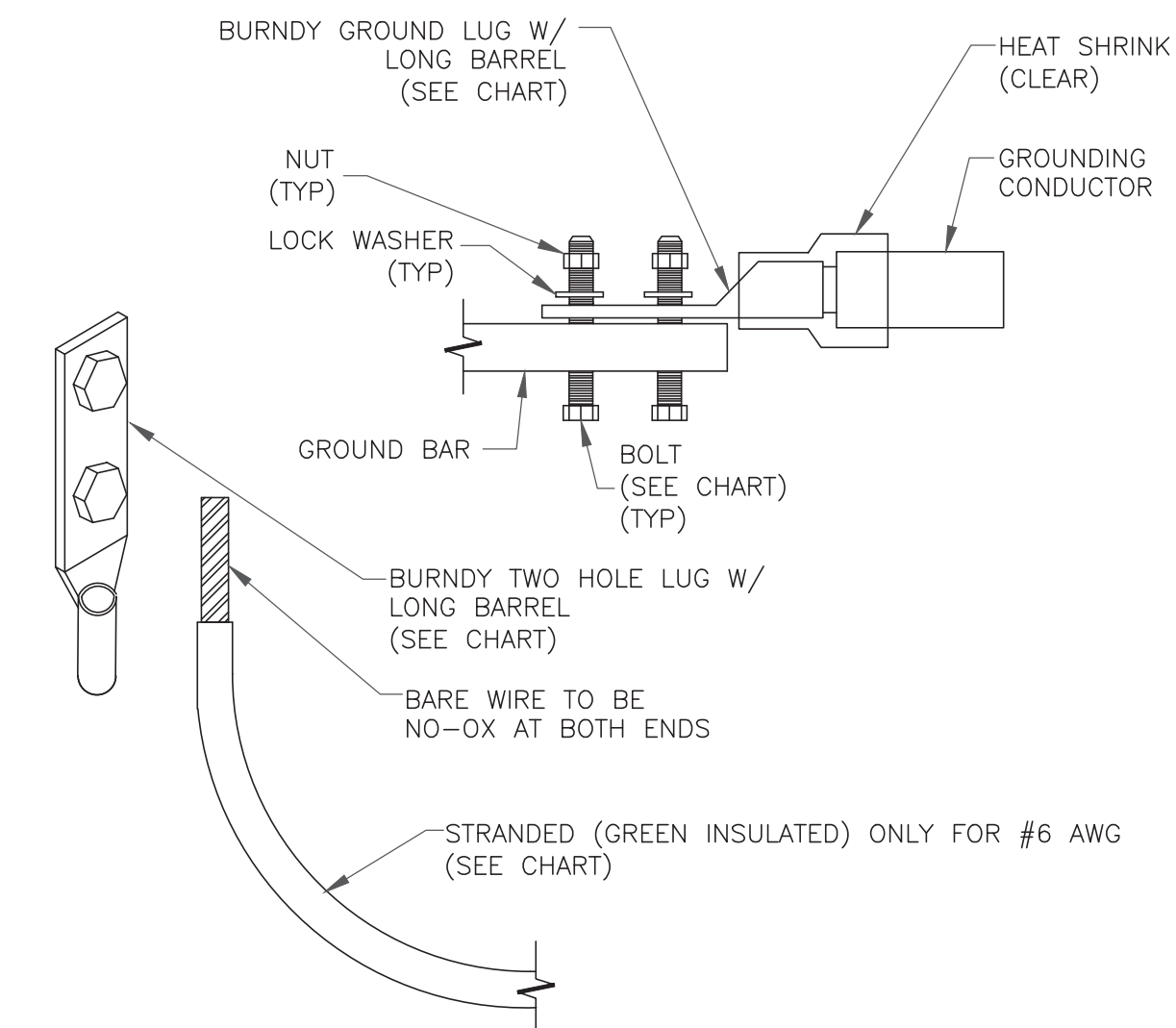
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR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

**6 GROUND BAR DETAIL**  
SCALE: NOT TO SCALE



**7 LUG DETAIL**  
SCALE: NOT TO SCALE

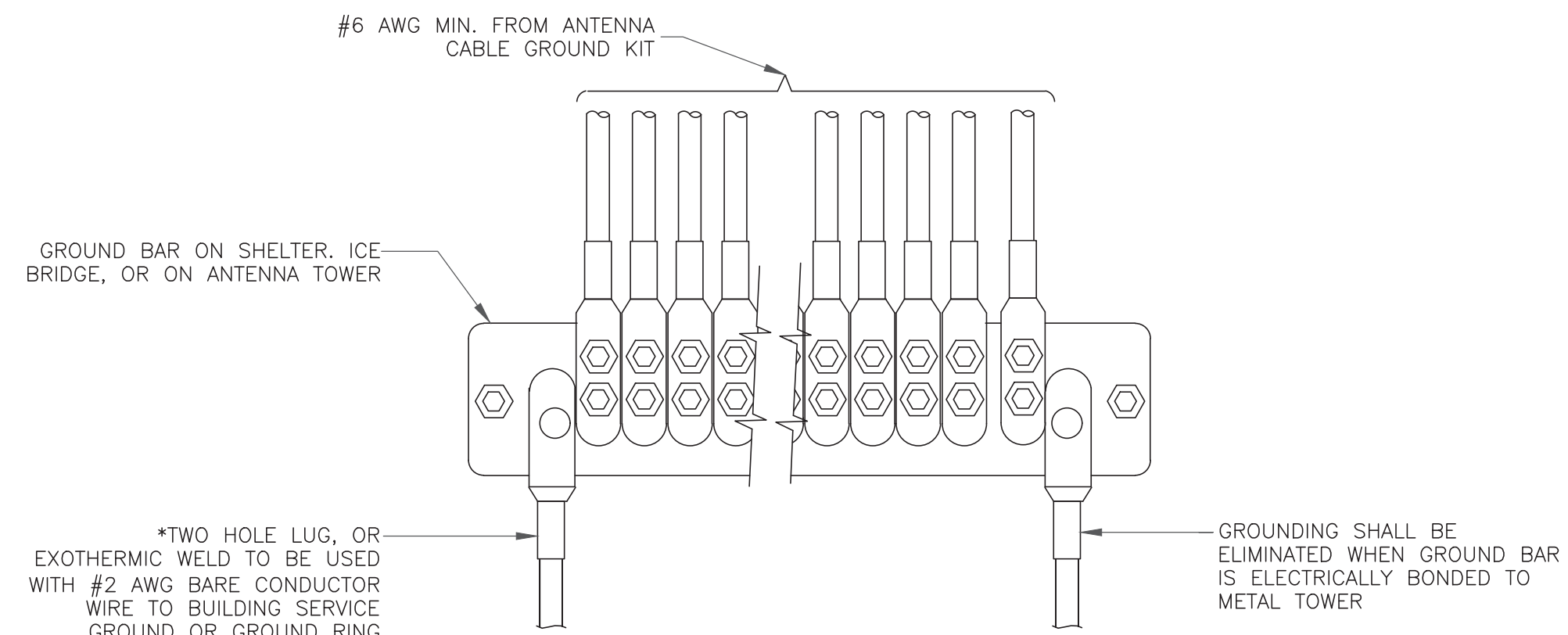
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



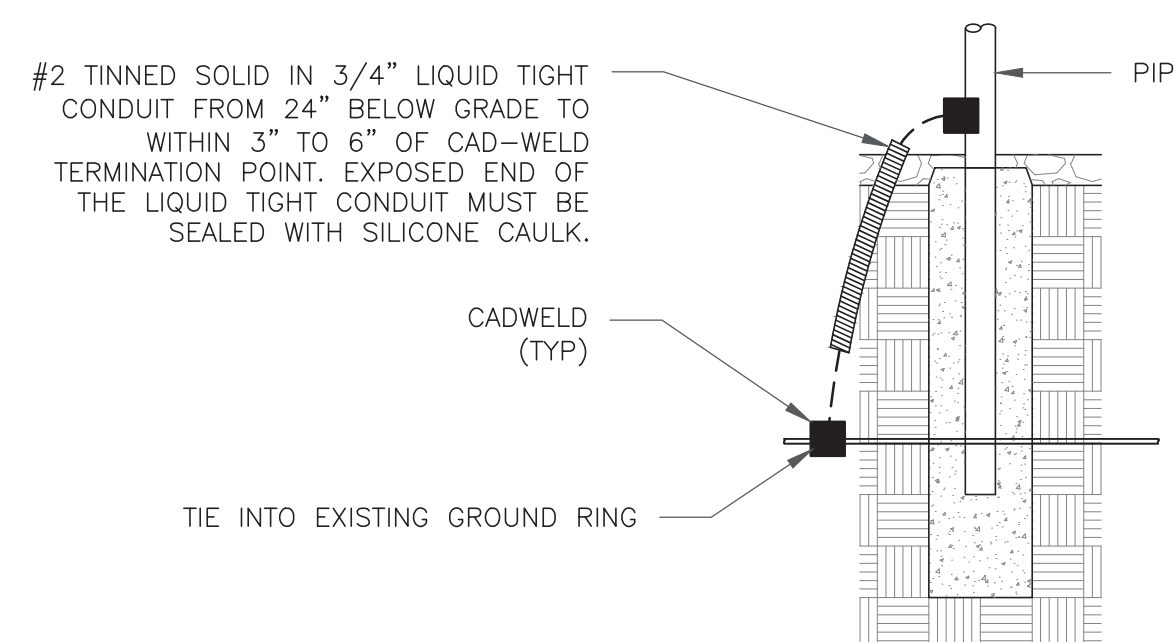
**NOTES:**

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:  
**468414**

BU #: **842873**  
**SHELTON NE**

30 OLIVER TERRACE  
SHELTON, CT 06484

EXISTING 140'-0" MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/27/21	GAC	CONSTRUCTION	JHW



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SHEET NUMBER:

**G-2**

REVISION:

**0**



MOUNT MODIFICATION DRAWINGS  
EXISTING 15.00' PLATFORM

TOWER OWNER: CROWN CASTLE  
TOWER OWNER SITE NUMBER: 842873

CARRIER SITE NAME: SHELTON 2 CT  
CARRIER SITE NUMBER: 468414  
FUZE ID: 16231897

70 PLATT ROAD  
SHELTON, CT 06484  
FAIRFIELD COUNTY

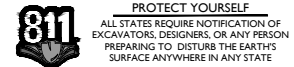
LATITUDE: 41.293944° N  
LONGITUDE: 73.107178° W



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0	9/9/2021	ISSUED FOR CONSTRUCTION	GHW	JPL



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SITE NAME:

SHELTON 2 CT  
468414  
70 PLATT ROAD  
SHELTON, CT 06484  
FAIRFIELD COUNTY

MT. LAUREL OFFICE  
2000 Madison Drive  
Suite 100  
Mount Laurel, NJ 08054  
Phone: 856.797.0412  
Fax: 856.722.1120

TITLE SHEET

ST-1

DESIGN CRITERIA
<b>WIND LOADS</b> BASIC WIND SPEED (3 SECOND GUST), V = 119 MPH EXPOSURE CATEGORY B TOPOGRAPHIC CATEGORY I MEAN BASE ELEVATION (AMSL) = 311.07'
<b>ICE LOADS</b> ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.00 IN
<b>SEISMIC LOADS</b> SEISMIC DESIGN CATEGORY B SHORT TERM MCER GROUND MOTION, S <sub>s</sub> = .204 LONG TERM MCER GROUND MOTION, S <sub>s</sub> = .054

PROJECT INFORMATION
<b>APPLICANT/LESSEE</b> COMPANY: VERIZON WIRELESS <b>CLIENT REPRESENTATIVE</b> COMPANY: VERIZON WIRELESS <b>PROJECT MANAGER</b> COMPANY: MASER CONSULTING CONTACT: PETER ALBANO PHONE: 856-797-0412 E-MAIL: PETER.ALBANO@COLLIERENGINEERING.COM
<b>CONTRACTOR PMI REQUIREMENTS</b> PMI LOCATION: HTTPS://PMI.VZWSMART.COM SMART TOOL PROJECT #: 10099780 VZW LOCATION CODE (PSLC): 468414 ANALYSIS DATE: 9/9/2021 PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX
SHEET DESCRIPTION
ST-1 TITLE SHEET
SBOM-1 BILL OF MATERIALS
SGN-1 GENERAL NOTES
SCF-1 CLIMBING FACILITY DETAIL
SS-1 MODIFICATION DETAILS
SS-2 MOUNT PHOTOS
SPECIFICATION SHEETS

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## BILL OF MATERIALS

### SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET		30	90
13		VZWSMART-MSK1	CROSSOVER PLATE		14	182
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	291	291

### SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	-	-	180" LONG, P2 1/2 STD	GALVANIZED	82	246
3	-	-	30" LONG, L3X3x1/4	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	0	
<b>TOTAL:</b>						<b>959</b>

### VZWSMART KITS - APPROVED VENDORS

<b>COMMSCOPE</b>	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
<b>METROSITE FABRICATORS, LLC</b>	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
<b>PERFECTVISION</b>	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSALES@PERFECT-VISION.COM
<b>SABRE INDUSTRIES, INC.</b>	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
<b>SITE PRO 1</b>	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

**NOTES:**

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.



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**SITE NAME:**

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468414  
70 PLATT ROAD  
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FAIRFIELD COUNTY**

**MT. LAUREL OFFICE**  
2000 Hillstone Drive  
Suite 100  
Mount Laurel, NJ 08054  
Phone: 856.797.0412  
Fax: 856.722.1120

SHEET TITLE:  
**BILL OF MATERIALS**

SHEET NUMBER:  
**SBOM-1**

**PROJECT NOTES**

- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

**GENERAL NOTES**

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSII/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSII/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE

CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.

- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSII/TIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

**STRUCTURAL STEEL**

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
  - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
  - AISC CODE OF STANDARD PRACTICE
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
 

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE
- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
  - SUBMIT SHOP DRAWINGS TO  
PETER.ALBANO@COLLIERSENGINEERING.COM
  - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.

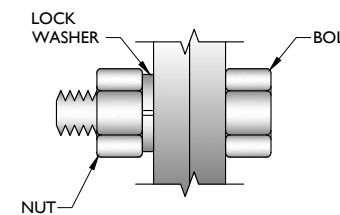
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

**WELDING NOTES**

- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
- CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
- IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
- OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
- CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA, ANSII/ASSE P10.48, ANSII Z49.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

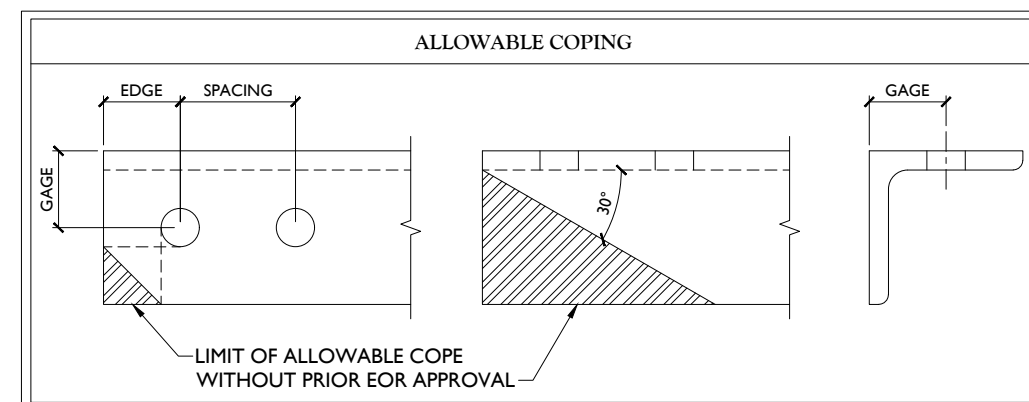
BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	1 1/16	1 1/16 x 7/8	1 1/8	1 7/8
3/4	1 3/16	1 3/16 x 1	1 1/4	2 1/4
7/8	1 5/16	1 5/16 x 1 1/8	1 1/2	2 5/8
1	1 7/16	1 7/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



**TYP. BOLT ASSEMBLY**

- NOTES:**
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
  - THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
  - SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
  - MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



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		BY	JPL
		CHECKED BY	

Digitally signed by Justin Peter Linette  
 Date: 2021.09.10 16:43:00  
 PROFESSIONAL ENGINEER  
 31965

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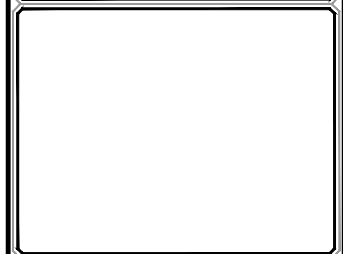
**MODIFICATION NOTES**

**SGN-I**

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**STRUCTURAL NOTES:**

PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP, LLC ON 8/17/2021, CLIMBING FACILITIES NOT PRESENT; ACCESSED WITH MANLIFT.

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**SHEET TITLE:**  
 CLIMBING FACILITY DETAIL

**SHEET NUMBER:**  
 SCF-1

**LEGEND:**

- PROPOSED
- RELOCATED
- EXISTING

**MOUNT MODIFICATION SCHEDULE**

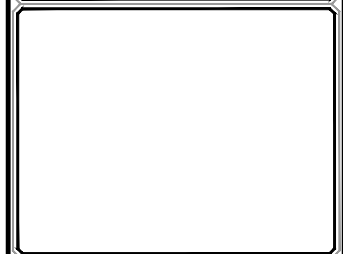
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1		1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5)	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
2		3	180" LONG, P2 1/2 STD SUPPORT RAIL	GALVANIZED. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK 1).
3		3	30" LONG, L3X3X1/4	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONTRACTOR SHALL CONNECT PROPOSED L3X3X1/4 ANGLES TO CORNER BRACKETS (VZWSMART-PLK3) USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.

**NOTES:**  
 MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.  
 RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.

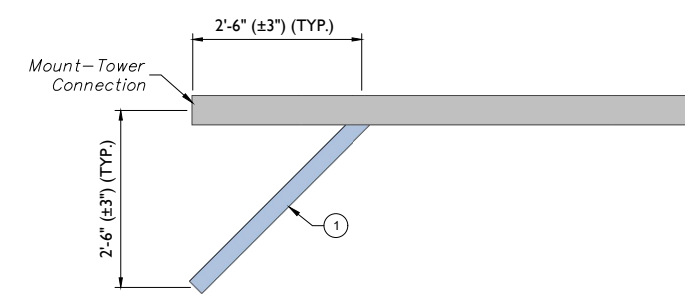
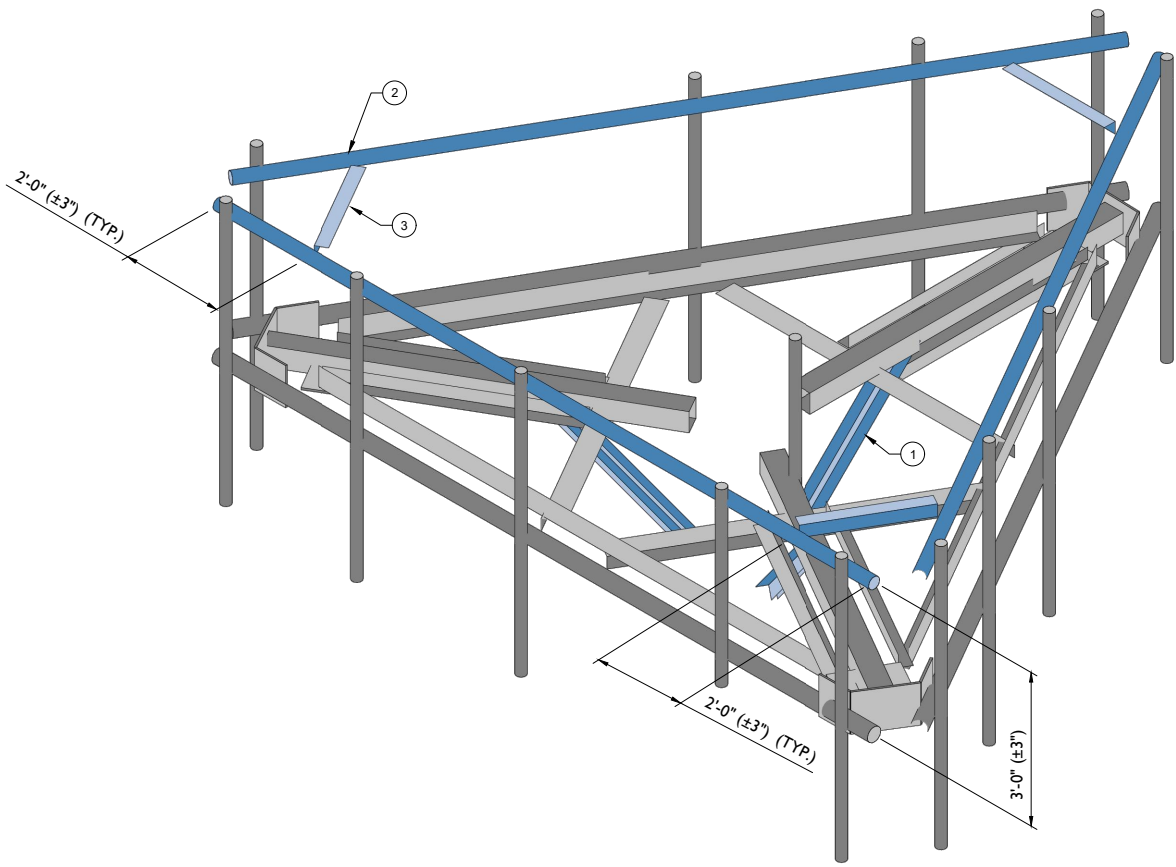
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1 PROPOSED ISOMETRIC VIEW  
SCALE : N.T.S.

2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)  
SCALE : N.T.S.

*Justin Peter Linette*  
 PROFESSIONAL ENGINEER  
 31965  
 Digitally signed by Justin Peter Linette  
 Date: 2021.09.10 16:43:00-04'00'

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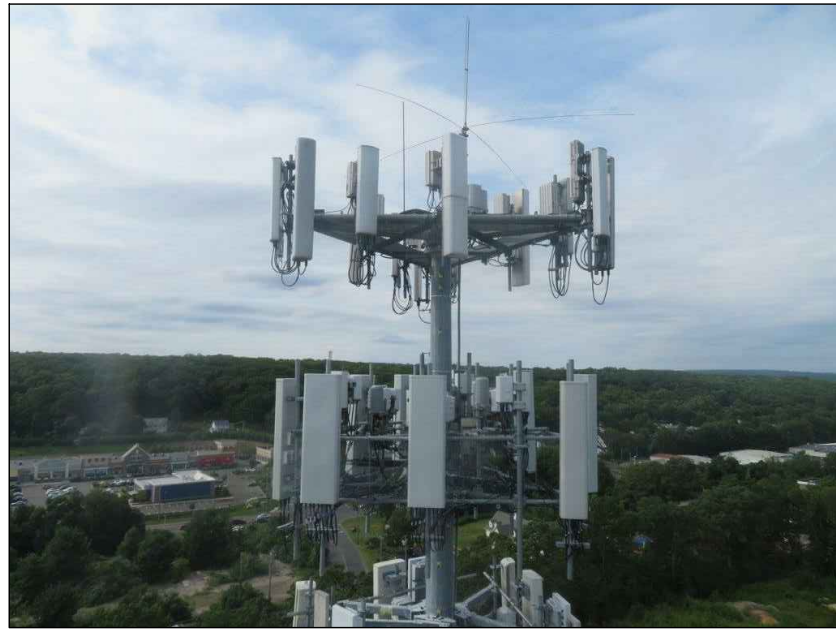
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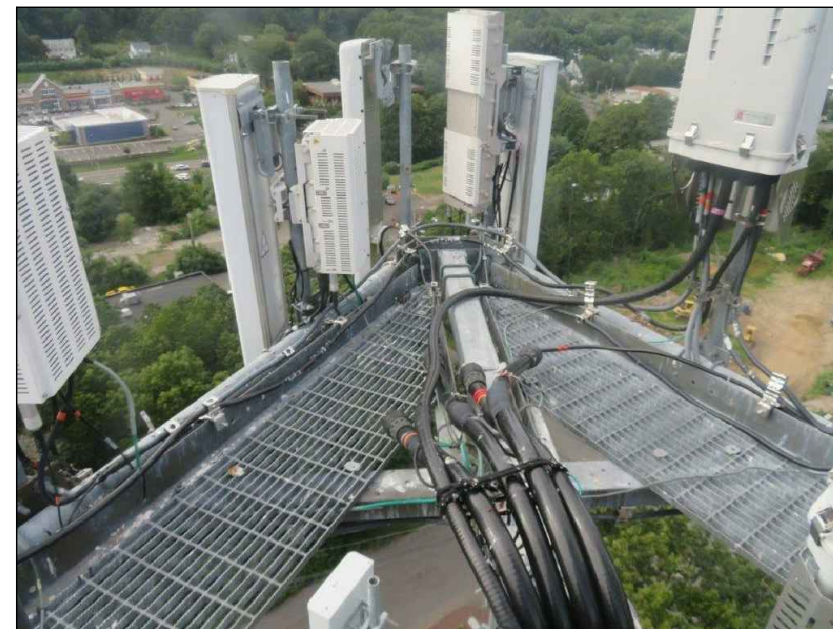
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MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	9/9/2021	ISSUED FOR CONSTRUCTION	GHW	JPL

*Justin Peter Linette*  
  
 Digitally signed by Justin Peter Linette  
 Date: 2021.09.10 16:43:00 -04'00'

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**SITE NAME:**  
  
**SHELTON 2 CT**  
**468414**  
**70 PLATT ROAD**  
**SHELTON, CT 06484**  
**FAIRFIELD COUNTY**

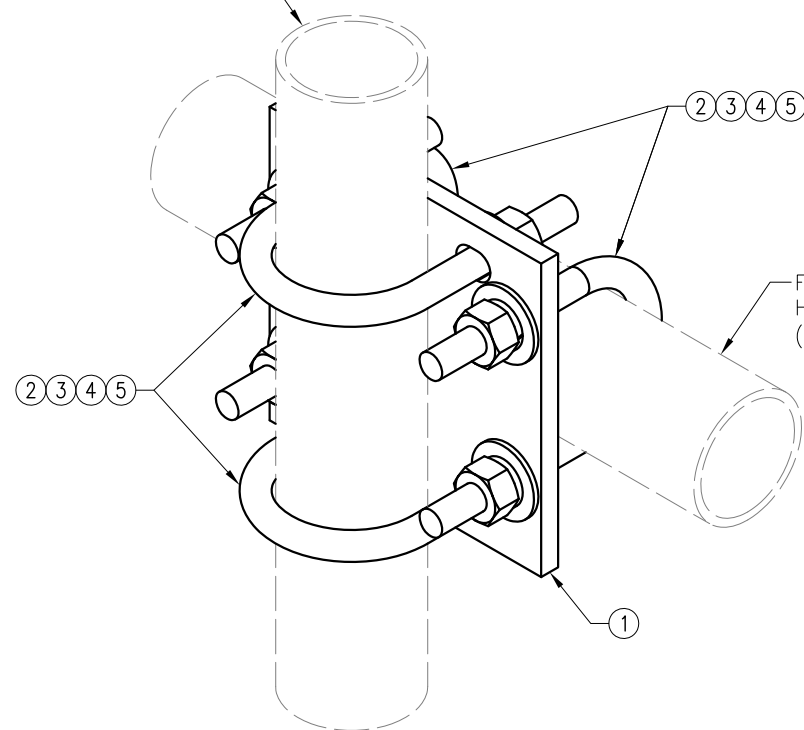
**MT. LAUREL OFFICE**  
 2000 Mattamon Drive  
 Suite 100  
 Mount Laurel, NJ 08054  
 Phone: 856.797.0412  
 Fax: 856.722.1120

SHEET TITLE:  
**MOUNT PHOTOS**

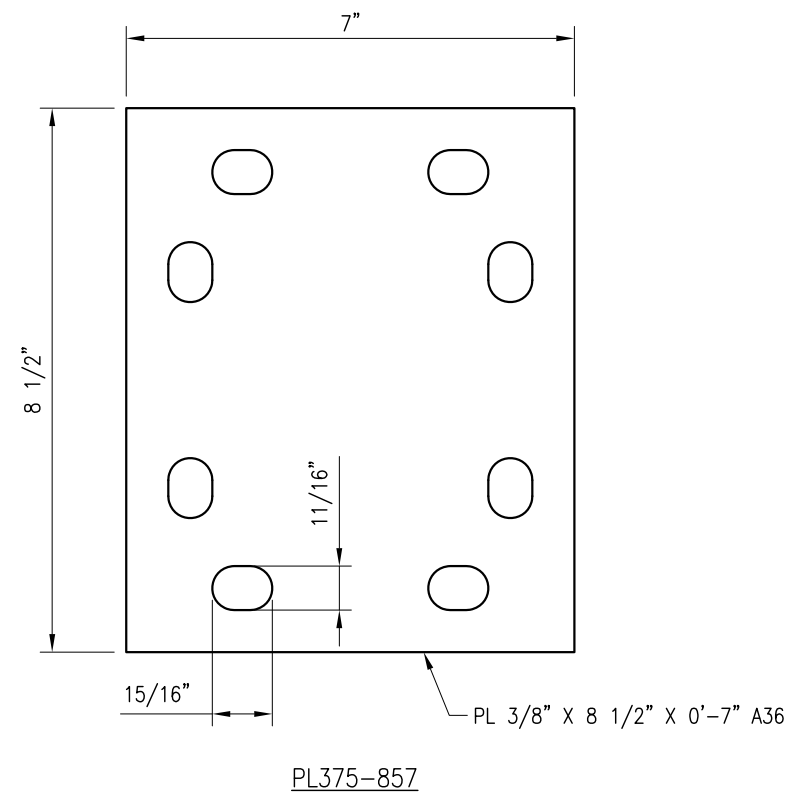
SHEET NUMBER:  
**SS-2**



FITS 2.375" O.D. AND 2.875" O.D.  
 VERTICAL PIPE.  
 (NOT INCLUDED IN THIS KIT)



FITS 2.375" O.D. AND 2.875" O.D.  
 HORIZONTAL PIPE.  
 (NOT INCLUDED IN THIS KIT)



PL375-857

DRAWN BY: H.R. CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R.	05/08/20

SHEET TITLE:  
 VZSMART-MSK1  
 CROSSOVER PLATE

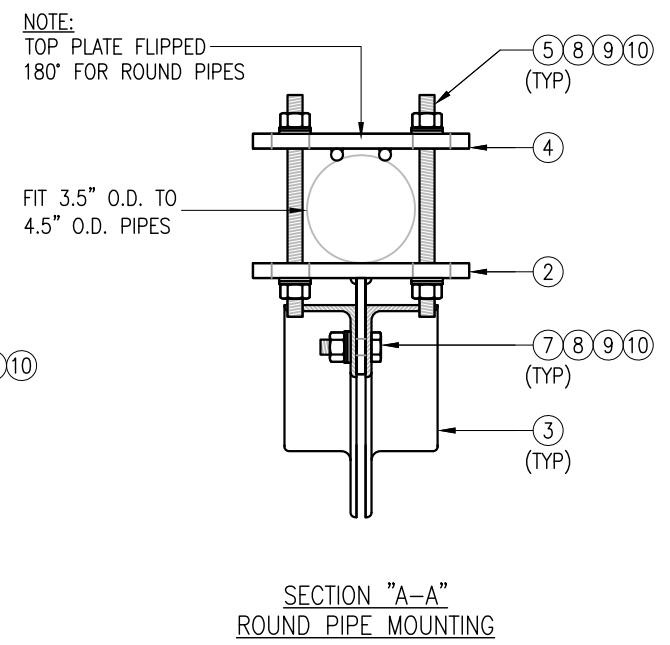
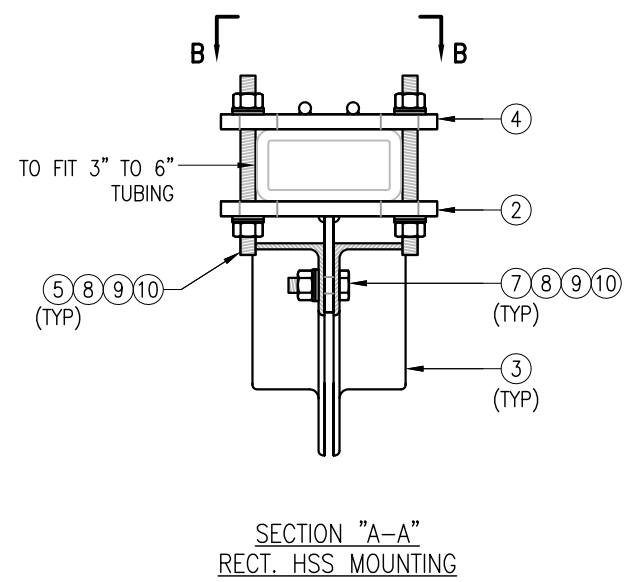
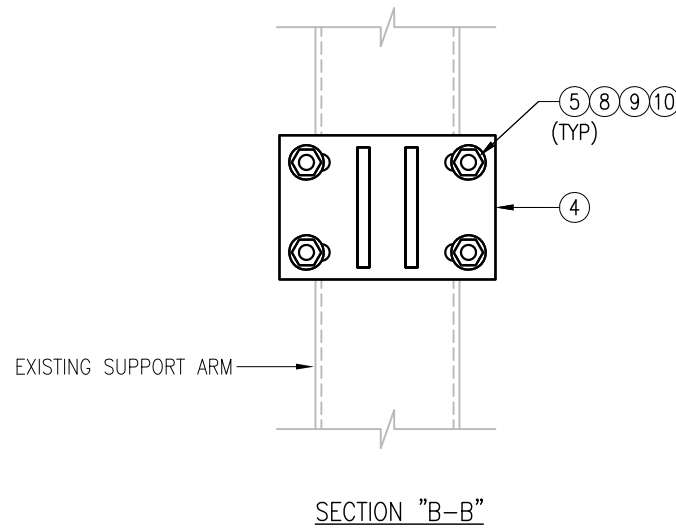
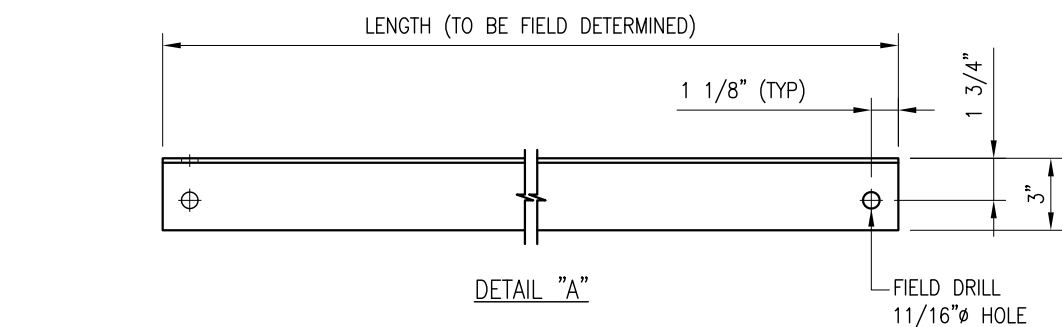
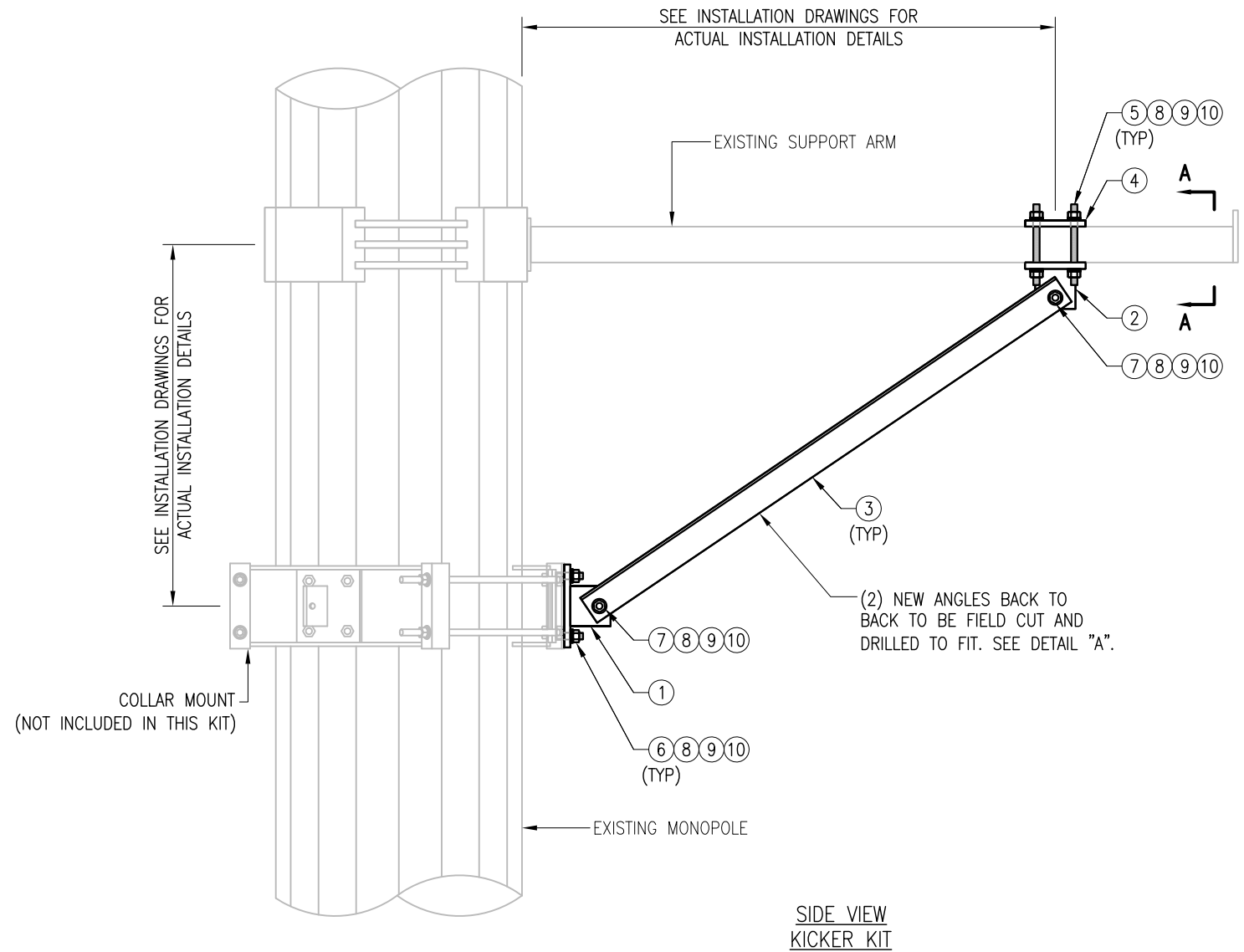
SHEET NUMBER: VZSMART-MSK1  
 REV #: 0

NOTES:  
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					14



NOTE:  
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



VZWSMART-PLK5 (KICKER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXX	BRACKET WELDMENT A36	PLK5-F3	43.8
2	3	BRKW-XXXX	BRACKET WELDMENT A36	PLK5-F2	35.7
3	6	L331875-8	L 3" X 3" X 3/16" X 8'-0" A36	PLK5-F4	182.9
4	3	PL-KI	PL 5/8" X 6" X 9" A36	PLK5-F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	---	---
6	6	---	BOLT 5/8" X 2" A325	---	---
7	12	---	BOLT 5/8" X 2 1/2" A325	---	---
8	42	FW-625	5/8" HDG USS FLAT WASHER	---	3
9	42	LW-625	5/8" HDG LOCK WASHER	---	1
10	42	NUT-625	5/8" HDG HEX NUT	---	5
GALVANIZED WT					291

NOTES:  
1. ALL HOLES ARE 11/16" DIA. U.N.O  
2. HOT-DIPPED GALVANIZED PER ASTM A123.  
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

VzW  
**SMART Tool**<sup>®</sup>  
Vendor

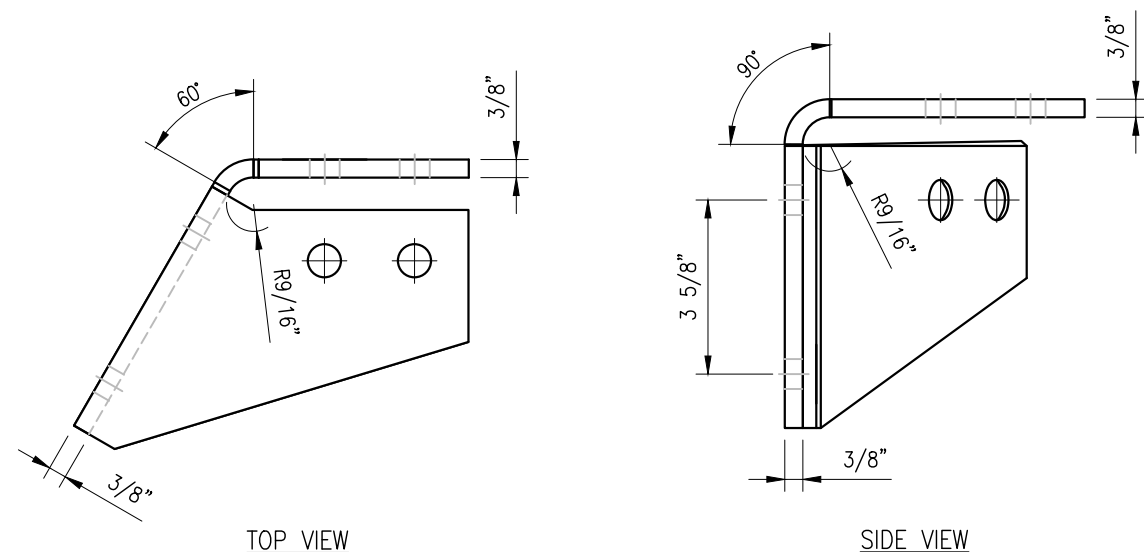


DRAWN BY: MN CHECKED BY: HMA/KW

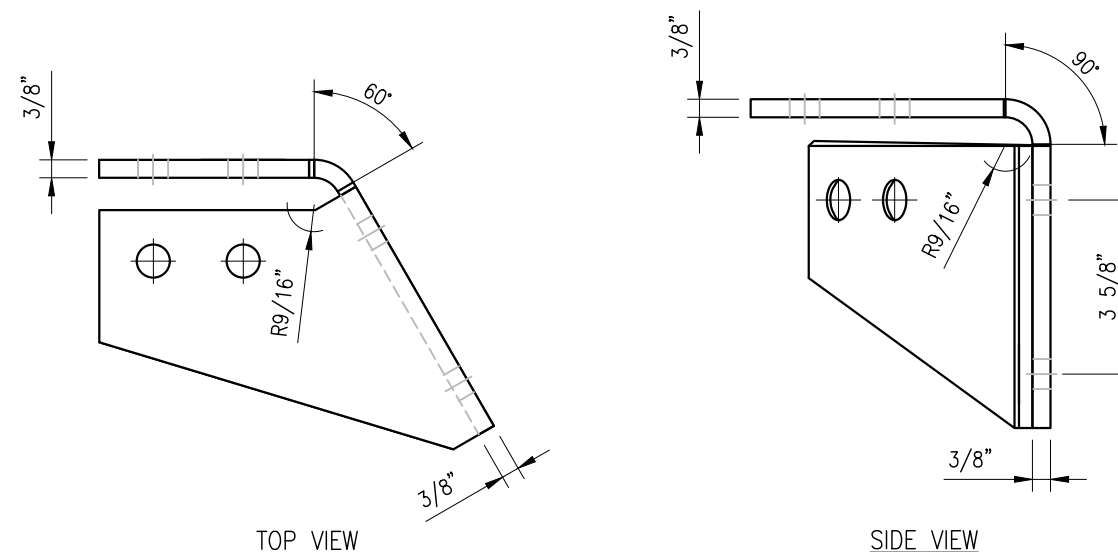
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	MN	05/08/20

SHEET TITLE:  
**VZWSMART-PLK5  
KICKER KIT**

SHEET NUMBER: **VZWSMART-PLK5** REV #: **0**



CBP-L



CBP-R

**NOTES:**

1. HOT-DIPPED GALVANIZED PER ASTM A123.

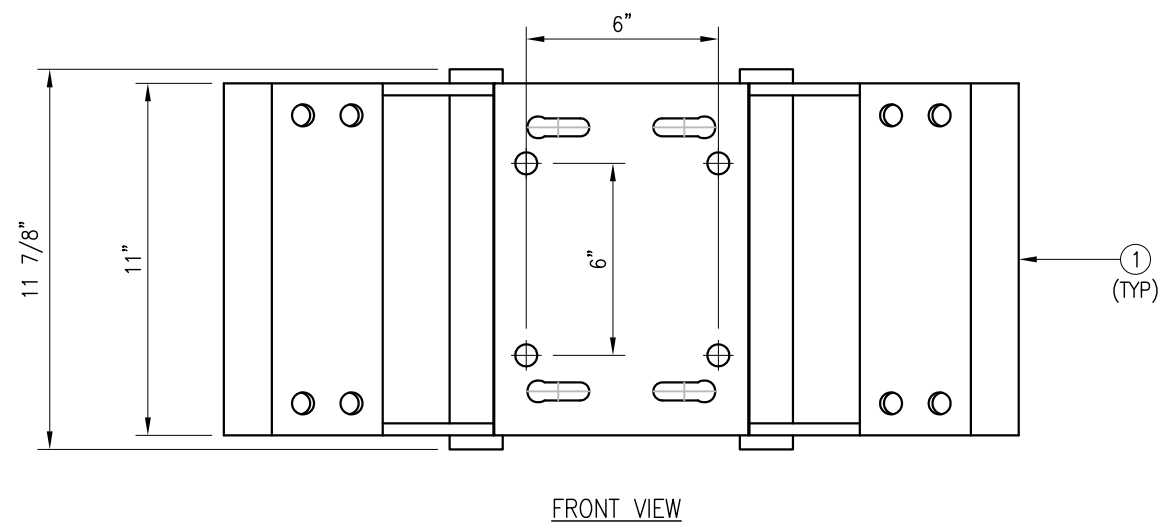
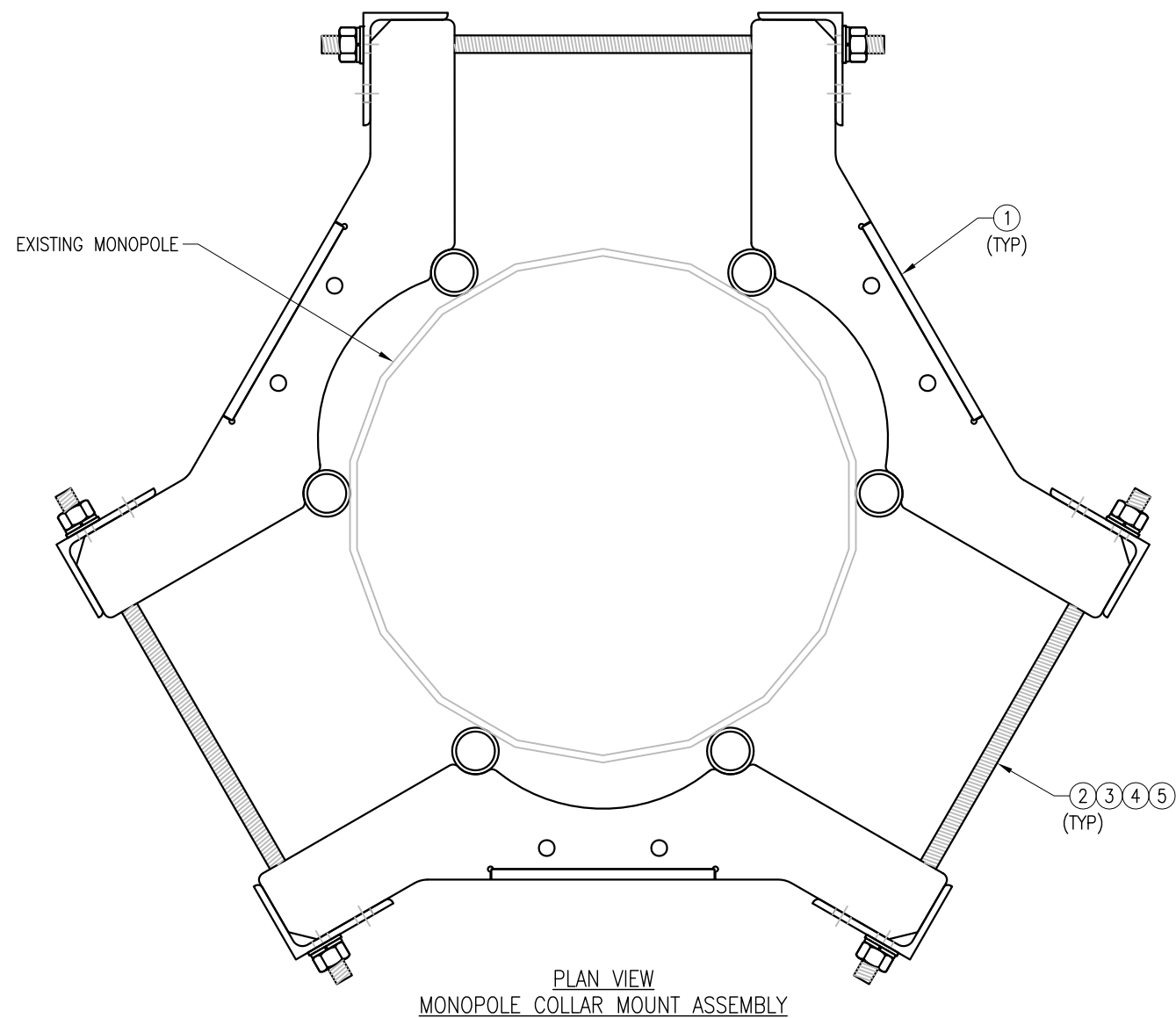
VZSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	16	NUT-625	5/8" HDG HEX NUT	---	2
GALVANIZED WT					30

DRAWN BY: H.R. CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R.	05/08/20
△	_____	_____	_____
△	_____	_____	_____
△	_____	_____	_____

SHEET TITLE:  
**VZSMART-PLK3  
 SUPPORT RAIL CORNER  
 BRACKET**

SHEET NUMBER: **VZSMART-PLK3** REV #: **0**



NOTES:  
 1. FIT 12" TO 45" DIA MONOPOLE.  
 2. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					150

DRAWN BY: BT      CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	05/11/20

SHEET TITLE:  
 VZSMART-PLK7  
 MONOPOLE COLLAR  
 MOUNT ASSEMBLY

SHEET NUMBER: VZSMART-PLK7      REV #: 0

# Exhibit D

## **Structural Analysis Report**

Date: **October 11, 2021**



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

**Subject:** **Structural Analysis Report**

**Carrier Designation:** **Verizon Wireless Co-Locate**  
**Site Number:** 468414  
**Site Name:** SHELTON 2 CT

**Crown Castle Designation:** **BU Number:** 842873  
**Site Name:** SHELTON NE  
**JDE Job Number:** 689081  
**Work Order Number:** 2028416  
**Order Number:** 589479 Rev. 0

**Engineering Firm Designation:** **Crown Castle Project Number:** 2028416

**Site Data:** **30 Oliver Terrace, SHELTON, FAIRFIELD County, CT**  
**Latitude 41° 17' 38.21", Longitude -73° 6' 25.83"**  
**140 Foot - Monopole Tower**

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

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

LC7: Proposed Equipment Configuration

**Sufficient Capacity - 95.2%**

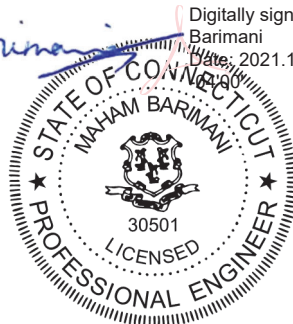
This analysis utilizes an ultimate 3-second gust wind speed of 119 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - "Analysis Criteria".

Structural analysis prepared by: Mishka Stueber

Respectfully submitted by:

 Digitally signed by Maham Barimani  
Date: 2021.10.12 16:00:00

Maham Barimani, P.E.  
Senior Project Engineer



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## 1) INTRODUCTION

This tower is a 140 ft Monopole tower designed by FWT INC. The tower has been modified multiple times to accommodate additional loading.

## 2) ANALYSIS CRITERIA

<b>TIA-222 Revision:</b>	TIA-222-H
<b>Risk Category:</b>	II
<b>Wind Speed:</b>	119 mph
<b>Exposure Category:</b>	B
<b>Topographic Factor:</b>	1
<b>Ice Thickness:</b>	1 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Service Wind Speed:</b>	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)
138.0	140.0	3	amphenol	BXA-80063-6BF-EDIN-4 w/ Mount Pipe	8	1-5/8
		6	quintel technology	QS6656-5D w/ Mount Pipe		
		2	rfs celwave	DB-T1-6Z-8AB-0Z		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
	138.0	1	Mount Reinforcement Specifications	Miscellaneous [NA 510-2]		
		1	Mount Reinforcement Specifications	Site Pro 1 PRK-1245L		
		1	tower mounts	Platform Mount [LP 403-1]		

**Table 2 - Other Considered Equipment**

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	
138.0	138.0	-	-	-	2	1-1/4	
127.0	129.0	3	cci antennas	DMP65R-BU6D	2 1 2 4 6	3/4 Conduit 3/8 7/8 1-5/8	
		3	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe			
		3	cci antennas	OPA65R-BU6D w/ Mount Pipe			
		3	ericsson	RADIO 4415 B30			
		3	ericsson	RRUS 32 B2			
		3	ericsson	RRUS 32 B66A			
		3	ericsson	RRUS 4449 B5/B12			
		3	ericsson	RRUS 4478 B14_CCIV2			
		2	raycap	DC6-48-60-0-8C-EV			
	1	raycap	DC6-48-60-18-8C-EV				
	127.0	1	tower mounts	Sector Mount [SM 503-3]			
118.0	120.0	3	ericsson	AIR6449 B41 w/ Mount Pipe	1 18	1-3/8 1-5/8	
	118.0	3	ericsson	AIR 32 B2A B66AA w/ Mount Pipe			
		3	ericsson	KRY 112 144/1			
		3	ericsson	KRY 112 489/2			
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE			
		3	ericsson	RRUS 4415 B25			
		3	rfs celwave	APX16DWV-16DWVS-E-A20 w/ Mount Pipe			
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe			
		6	tower mounts	Miscellaneous [NA 509-1]			
	1	tower mounts	T-Arm Mount [TA 602-3]				
108.0	108.0	3	fujitsu	TA08025-B604	1	1-1/2	
		3	fujitsu	TA08025-B605			
		3	jma wireless	MX08FRO665-21 w/ Mount Pipe			
		1	raycap	RDIDC-9181-PF-48			
		1	tower mounts	Commscope MC-PK8-DSH			
73.0	75.0	3	alcatel lucent	1900MHZ 4X40W RRH	4	1-5/8	
		3	alcatel lucent	RRH2x50-800			
		3	commscope	DT465B-2XR w/ Mount Pipe			
		3	nokia	FZHN			
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe			
	73.0	73.0	1	tower mounts			Miscellaneous [NA 510-1]
			1	tower mounts			Platform Mount [LP 1201-1]
50.0	50.0	1	pctel	GPS-TMG-HR-26NCM	1	7/8	
		1	tower mounts	Pipe Mount [PM 601-1]			



### 3) ANALYSIS PROCEDURE

**Table 3 - Documents Provided**

Document	Reference	Source
4-GEOTECHNICAL REPORTS	4529442	CCISITES
4-POST-MODIFICATION INSPECTION	6231105	CCISITES
4-POST-MODIFICATION INSPECTION	6086125	CCISITES
4-POST-MODIFICATION INSPECTION	5994609	CCISITES
4-POST-MODIFICATION INSPECTION	5095590	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	4598376	CCISITES
4-TOWER MANUFACTURER DRAWINGS	4598387	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	6087139	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5963243	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5785413	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5461043	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5461041	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	4858944	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.

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

#### 3.2) Assumptions

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

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

### 4) ANALYSIS RESULTS

**Table 4 - Section Capacity (Summary)**

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
140 - 135	Pole	TP14.296x13.161x0.1875	Pole	12.3%	Pass
135 - 130	Pole	TP15.431x14.296x0.1875	Pole	22.9%	Pass
130 - 125	Pole	TP16.566x15.431x0.1875	Pole	38.5%	Pass
125 - 120	Pole	TP17.701x16.566x0.1875	Pole	52.8%	Pass
120 - 115	Pole	TP18.836x17.701x0.1875	Pole	70.0%	Pass

115 - 114.75	Pole + Reinf.	TP18.893x18.836x0.4625	Reinf. 9 Tension Rupture	51.4%	Pass
114.75 - 109.75	Pole + Reinf.	TP20.027x18.893x0.45	Reinf. 9 Tension Rupture	64.6%	Pass
109.75 - 104.75	Pole + Reinf.	TP21.162x20.027x0.425	Reinf. 9 Tension Rupture	78.2%	Pass
104.75 - 101.58	Pole + Reinf.	TP21.882x21.162x0.4188	Reinf. 9 Tension Rupture	86.3%	Pass
101.58 - 101.33	Pole	TP21.939x21.882x0.3125	Pole	65.6%	Pass
101.33 - 96.33	Pole	TP23.074x21.939x0.3125	Pole	72.0%	Pass
96.33 - 91.33	Pole	TP24.209x23.074x0.3125	Pole	77.2%	Pass
91.33 - 91	Pole	TP24.284x24.209x0.3125	Pole	77.5%	Pass
91 - 90.75	Pole + Reinf.	TP24.34x24.284x0.6	Reinf. 8 Tension Rupture	67.0%	Pass
90.75 - 85.75	Pole + Reinf.	TP25.475x24.34x0.5875	Reinf. 8 Tension Rupture	72.2%	Pass
85.75 - 80.75	Pole + Reinf.	TP26.61x25.475x0.5625	Reinf. 8 Tension Rupture	76.8%	Pass
80.75 - 75.75	Pole + Reinf.	TP27.745x26.61x0.55	Reinf. 8 Tension Rupture	80.9%	Pass
75.75 - 70.75	Pole + Reinf.	TP28.88x27.745x0.5438	Reinf. 8 Tension Rupture	85.2%	Pass
70.75 - 69.98	Pole + Reinf.	TP29.055x28.88x0.5313	Reinf. 3 Tension Rupture	89.6%	Pass
69.98 - 69.73	Pole + Reinf.	TP29.112x29.055x0.5313	Reinf. 3 Tension Rupture	89.9%	Pass
69.73 - 64.73	Pole + Reinf.	TP30.247x29.112x0.525	Reinf. 3 Tension Rupture	93.9%	Pass
64.73 - 63	Pole + Reinf.	TP30.64x30.247x0.5188	Reinf. 3 Tension Rupture	95.2%	Pass
63 - 62.75	Pole + Reinf.	TP30.696x30.64x0.7	Reinf. 3 Tension Rupture	73.5%	Pass
62.75 - 59.08	Pole + Reinf.	TP31.53x30.696x0.6875	Reinf. 3 Tension Rupture	75.8%	Pass
59.08 - 58.82	Pole + Reinf.	TP31.589x31.53x0.625	Reinf. 4 Tension Rupture	77.6%	Pass
58.82 - 58.67	Pole + Reinf.	TP31.623x31.589x0.625	Reinf. 4 Tension Rupture	77.6%	Pass
58.67 - 53.67	Pole + Reinf.	TP32.758x31.623x0.6125	Reinf. 4 Tension Rupture	80.5%	Pass
53.67 - 53	Pole + Reinf.	TP33.913x32.758x0.6125	Reinf. 4 Tension Rupture	80.8%	Pass
53 - 47.58	Pole + Reinf.	TP33.515x32.285x0.6375	Reinf. 2 Tension Rupture	85.8%	Pass
47.58 - 42.58	Pole + Reinf.	TP34.65x33.515x0.625	Reinf. 2 Tension Rupture	88.2%	Pass
42.58 - 39.67	Pole + Reinf.	TP35.311x34.65x0.6125	Reinf. 2 Tension Rupture	89.6%	Pass
39.67 - 39.42	Pole + Reinf.	TP35.368x35.311x0.8125	Reinf. 2 Tension Rupture	69.5%	Pass
39.42 - 34.42	Pole + Reinf.	TP36.503x35.368x0.7875	Reinf. 2 Tension Rupture	71.5%	Pass
34.42 - 32.5	Pole + Reinf.	TP36.939x36.503x0.7875	Reinf. 2 Tension Rupture	72.2%	Pass
32.5 - 32.25	Pole + Reinf.	TP36.995x36.939x0.6125	Reinf. 5 Tension Rupture	89.3%	Pass
32.25 - 31.42	Pole + Reinf.	TP37.184x36.995x0.6	Reinf. 5 Tension Rupture	89.6%	Pass
31.42 - 31.17	Pole + Reinf.	TP37.241x37.184x0.775	Reinf. 1 Tension Rupture	72.6%	Pass
31.17 - 29	Pole + Reinf.	TP37.733x37.241x0.7625	Reinf. 1 Tension Rupture	73.4%	Pass
29 - 28.65	Pole + Reinf.	TP37.813x37.733x0.675	Reinf. 1 Tension Rupture	87.4%	Pass
28.65 - 28.42	Pole + Reinf.	TP37.865x37.813x0.675	Reinf. 1 Tension Rupture	87.4%	Pass
28.42 - 23.5	Pole + Reinf.	TP38.982x37.865x0.6625	Reinf. 1 Tension Rupture	89.1%	Pass
23.5 - 23.25	Pole + Reinf.	TP39.039x38.982x0.7875	Reinf. 1 Tension Rupture	72.9%	Pass
23.25 - 23	Pole + Reinf.	TP39.095x39.039x0.7875	Reinf. 1 Tension Rupture	73.0%	Pass
23 - 22.75	Pole + Reinf.	TP39.152x39.095x0.65	Reinf. 1 Tension Rupture	88.6%	Pass

22.75 - 17.75	Pole + Reinf.	TP40.287x39.152x0.6375	Reinf. 1 Tension Rupture	90.2%	Pass
17.75 - 12.75	Pole + Reinf.	TP41.422x40.287x0.625	Reinf. 1 Tension Rupture	91.7%	Pass
12.75 - 7.75	Pole + Reinf.	TP42.558x41.422x0.6125	Reinf. 1 Tension Rupture	93.0%	Pass
7.75 - 2.75	Pole + Reinf.	TP43.693x42.558x0.6	Reinf. 1 Tension Rupture	94.3%	Pass
2.75 - 0	Pole + Reinf.	TP44.317x43.693x0.6	Reinf. 1 Tension Rupture	94.9%	Pass
				Summary	
			Pole	77.5%	Pass
			Reinforcement	95.2%	Pass
			Overall	95.2%	Pass

**Table 5 - Tower Component Stresses vs. Capacity - LC7**

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Bolts	101.58	92.3	Pass
1	Flange Plate	101.58	59.6	Pass
1	Anchor Rods	0	75.9	Pass
1	Base Plate	0	65.0	Pass
1	Base Foundation (Structure)	0	66.8	Pass
1	Base Foundation (Soil Interaction)	0	79.0	Pass

<b>Structure Rating (max from all components) =</b>	<b>95.2%</b>
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Notes:

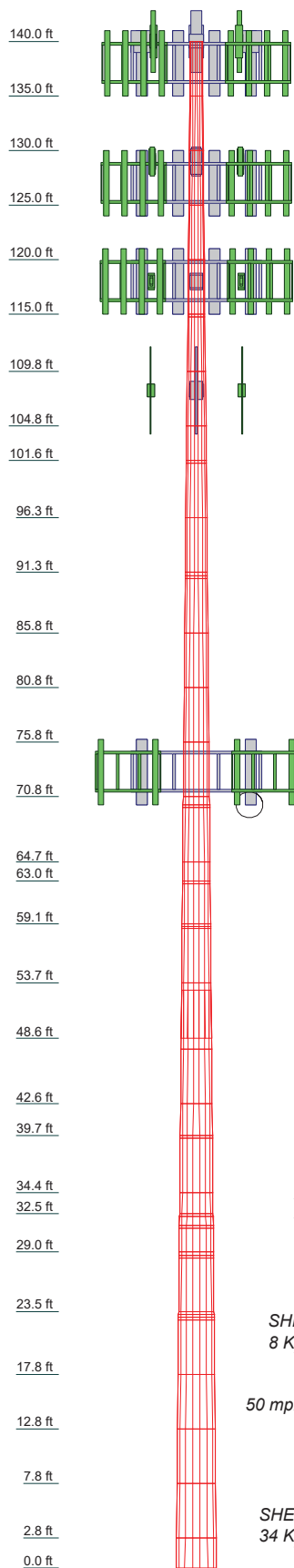
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

#### 4.1) Recommendations

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

**APPENDIX A**  
**TNXTOWER OUTPUT**

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.0000	18	0.1875	4.4200	43.6927	41.4224	15.4309	0.1
2	5.0000	18	0.1875	4.4200	42.8873	41.4224	15.4309	0.1
3	5.0000	18	0.1875	4.4200	42.1827	41.4224	15.4309	0.1
4	5.0000	18	0.1875	4.4200	41.4781	41.4224	15.4309	0.1
5	5.0000	18	0.1875	4.4200	40.7735	41.4224	15.4309	0.1
6	5.0000	18	0.1875	4.4200	40.0689	41.4224	15.4309	0.1
7	5.0000	18	0.1875	4.4200	39.3643	41.4224	15.4309	0.1
8	5.0000	18	0.1875	4.4200	38.6597	41.4224	15.4309	0.1
9	5.0000	18	0.1875	4.4200	37.9551	41.4224	15.4309	0.1
10	5.0000	18	0.1875	4.4200	37.2505	41.4224	15.4309	0.1
11	5.0000	18	0.1875	4.4200	36.5459	41.4224	15.4309	0.1
12	5.0000	18	0.1875	4.4200	35.8413	41.4224	15.4309	0.1
13	5.0000	18	0.1875	4.4200	35.1367	41.4224	15.4309	0.1
14	5.0000	18	0.1875	4.4200	34.4321	41.4224	15.4309	0.1
15	5.0000	18	0.1875	4.4200	33.7275	41.4224	15.4309	0.1
16	5.0000	18	0.1875	4.4200	33.0229	41.4224	15.4309	0.1
17	5.0000	18	0.1875	4.4200	32.3183	41.4224	15.4309	0.1
18	5.0000	18	0.1875	4.4200	31.6137	41.4224	15.4309	0.1
19	5.0000	18	0.1875	4.4200	30.9091	41.4224	15.4309	0.1
20	5.0000	18	0.1875	4.4200	30.2045	41.4224	15.4309	0.1
21	5.0000	18	0.1875	4.4200	29.5000	41.4224	15.4309	0.1
22	5.0000	18	0.1875	4.4200	28.7954	41.4224	15.4309	0.1
23	5.0000	18	0.1875	4.4200	28.0908	41.4224	15.4309	0.1
24	5.0000	18	0.1875	4.4200	27.3863	41.4224	15.4309	0.1
25	5.0000	18	0.1875	4.4200	26.6817	41.4224	15.4309	0.1
26	5.0000	18	0.1875	4.4200	25.9771	41.4224	15.4309	0.1
27	5.0000	18	0.1875	4.4200	25.2726	41.4224	15.4309	0.1
28	5.0000	18	0.1875	4.4200	24.5680	41.4224	15.4309	0.1
29	5.0000	18	0.1875	4.4200	23.8634	41.4224	15.4309	0.1
30	5.0000	18	0.1875	4.4200	23.1589	41.4224	15.4309	0.1
31	5.0000	18	0.1875	4.4200	22.4543	41.4224	15.4309	0.1
32	5.0000	18	0.1875	4.4200	21.7497	41.4224	15.4309	0.1
33	5.0000	18	0.1875	4.4200	21.0451	41.4224	15.4309	0.1
34	5.0000	18	0.1875	4.4200	20.3406	41.4224	15.4309	0.1
35	5.0000	18	0.1875	4.4200	19.6360	41.4224	15.4309	0.1
36	5.0000	18	0.1875	4.4200	18.9314	41.4224	15.4309	0.1
37	5.0000	18	0.1875	4.4200	18.2269	41.4224	15.4309	0.1
38	5.0000	18	0.1875	4.4200	17.5223	41.4224	15.4309	0.1
39	5.0000	18	0.1875	4.4200	16.8177	41.4224	15.4309	0.1
40	5.0000	18	0.1875	4.4200	16.1131	41.4224	15.4309	0.1
41	5.0000	18	0.1875	4.4200	15.4086	41.4224	15.4309	0.1
42	5.0000	18	0.1875	4.4200	14.7040	41.4224	15.4309	0.1
43	5.0000	18	0.1875	4.4200	14.0000	41.4224	15.4309	0.1
44	5.0000	18	0.1875	4.4200	13.2960	41.4224	15.4309	0.1
45	5.0000	18	0.1875	4.4200	12.5920	41.4224	15.4309	0.1
46	5.0000	18	0.1875	4.4200	11.8880	41.4224	15.4309	0.1
47	5.0000	18	0.1875	4.4200	11.1840	41.4224	15.4309	0.1
48	5.0000	18	0.1875	4.4200	10.4800	41.4224	15.4309	0.1
49	5.0000	18	0.1875	4.4200	9.7760	41.4224	15.4309	0.1
50	5.0000	18	0.1875	4.4200	9.0720	41.4224	15.4309	0.1
51	5.0000	18	0.1875	4.4200	8.3680	41.4224	15.4309	0.1
52	5.0000	18	0.1875	4.4200	7.6640	41.4224	15.4309	0.1
53	5.0000	18	0.1875	4.4200	6.9600	41.4224	15.4309	0.1
54	5.0000	18	0.1875	4.4200	6.2560	41.4224	15.4309	0.1
55	5.0000	18	0.1875	4.4200	5.5520	41.4224	15.4309	0.1
56	5.0000	18	0.1875	4.4200	4.8480	41.4224	15.4309	0.1
57	5.0000	18	0.1875	4.4200	4.1440	41.4224	15.4309	0.1
58	5.0000	18	0.1875	4.4200	3.4400	41.4224	15.4309	0.1
59	5.0000	18	0.1875	4.4200	2.7360	41.4224	15.4309	0.1
60	5.0000	18	0.1875	4.4200	2.0320	41.4224	15.4309	0.1
61	5.0000	18	0.1875	4.4200	1.3280	41.4224	15.4309	0.1
62	5.0000	18	0.1875	4.4200	0.6240	41.4224	15.4309	0.1

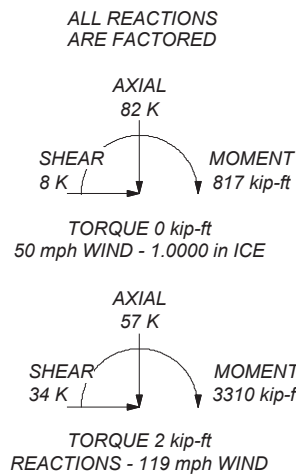


**MATERIAL STRENGTH**

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 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 119 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 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 0.0000 ft
8. TOWER RATING: 95.2%



<b>Crown Castle</b> 2000 Corporate Drive Canonsburg, PA The Pathway to Possible Phone: (724) 416-2000 FAX:				Job: <b>842873</b>
				Project:
Client: Crown Castle	Drawn by: Mishka Stueber	App'd:		
Code: TIA-222-H	Date: 10/11/21	Scale: NTS		
Path: C:\Working\842873\WO 2028416 - SAIProd\842873-R.eri		Dwg No. E-1		

## Tower Input Data

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

- Tower is located in Fairfield County, Connecticut.
- Tower base elevation above sea level: 311.0000 ft.
- Basic wind speed of 119 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.0000 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.0000 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50.0000 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used:  $K_{es}(F_w) = 0.95$ ,  $K_{es}(t_i) = 0.85$ .
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

Consider Moments - Legs 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;"><b>Poles</b></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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## Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	140.0000-135.0000	5.0000	0.0000	18	13.1610	14.2960	0.1875	0.7500	A572-65 (65 ksi)
L2	135.0000-130.0000	5.0000	0.0000	18	14.2960	15.4309	0.1875	0.7500	A572-65 (65 ksi)
L3	130.0000-125.0000	5.0000	0.0000	18	15.4309	16.5659	0.1875	0.7500	A572-65 (65 ksi)
L4	125.0000-120.0000	5.0000	0.0000	18	16.5659	17.7008	0.1875	0.7500	A572-65 (65 ksi)
L5	120.0000-115.0000	5.0000	0.0000	18	17.7008	18.8358	0.1875	0.7500	A572-65 (65 ksi)
L6	115.0000-114.7500	0.2500	0.0000	18	18.8358	18.8925	0.4625	1.8500	A572-65 (65 ksi)
L7	114.7500-109.7500	5.0000	0.0000	18	18.8925	20.0275	0.4500	1.8000	A572-65 (65 ksi)
L8	109.7500-104.7500	5.0000	0.0000	18	20.0275	21.1624	0.4250	1.7000	A572-65 (65 ksi)
L9	104.7500-101.5800	3.1700	0.0000	18	21.1624	21.8820	0.4188	1.6750	A572-65 (65 ksi)
L10	101.5800-101.3300	0.2500	0.0000	18	21.8820	21.9387	0.3125	1.2500	A572-65 (65 ksi)
L11	101.3300-96.3300	5.0000	0.0000	18	21.9387	23.0738	0.3125	1.2500	A572-65 (65 ksi)
L12	96.3300-91.3300	5.0000	0.0000	18	23.0738	24.2087	0.3125	1.2500	A572-65 (65 ksi)
L13	91.3300-91.0000	0.3300	0.0000	18	24.2087	24.2837	0.3125	1.2500	A572-65 (65 ksi)
L14	91.0000-90.7500	0.2500	0.0000	18	24.2837	24.3404	0.6000	2.4000	A572-65 (65 ksi)
L15	90.7500-85.7500	5.0000	0.0000	18	24.3404	25.4754	0.5875	2.3500	A572-65 (65 ksi)
L16	85.7500-80.7500	5.0000	0.0000	18	25.4754	26.6104	0.5625	2.2500	A572-65 (65 ksi)
L17	80.7500-75.7500	5.0000	0.0000	18	26.6104	27.7454	0.5500	2.2000	A572-65 (65 ksi)
L18	75.7500-70.7500	5.0000	0.0000	18	27.7454	28.8804	0.5437	2.1750	A572-65 (65 ksi)
L19	70.7500-69.9800	0.7700	0.0000	18	28.8804	29.0552	0.5313	2.1250	A572-65 (65 ksi)
L20	69.9800-69.7300	0.2500	0.0000	18	29.0552	29.1120	0.5313	2.1250	A572-65 (65 ksi)
L21	69.7300-64.7300	5.0000	0.0000	18	29.1120	30.2469	0.5250	2.1000	A572-65 (65 ksi)
L22	64.7300-63.0000	1.7300	0.0000	18	30.2469	30.6397	0.5188	2.0750	A572-65 (65 ksi)
L23	63.0000-62.7500	0.2500	0.0000	18	30.6397	30.6964	0.7000	2.8000	A572-65 (65 ksi)
L24	62.7500-59.0800	3.6700	0.0000	18	30.6964	31.5295	0.6875	2.7500	A572-65 (65 ksi)
L25	59.0800-58.8200	0.2600	0.0000	18	31.5295	31.5885	0.6250	2.5000	A572-65 (65 ksi)
L26	58.8200-58.6700	0.1500	0.0000	18	31.5885	31.6226	0.6250	2.5000	A572-65 (65 ksi)
L27	58.6700-53.6700	5.0000	0.0000	18	31.6226	32.7576	0.6125	2.4500	A572-65 (65 ksi)
L28	53.6700-48.5800	5.0900	4.4200	18	32.7576	33.9130	0.6125	2.4500	A572-65 (65 ksi)
L29	48.5800-47.5800	5.4200	0.0000	18	32.2847	33.5151	0.6375	2.5500	A572-65 (65 ksi)
L30	47.5800-42.5800	5.0000	0.0000	18	33.5151	34.6503	0.6250	2.5000	A572-65 (65 ksi)
L31	42.5800-39.6700	2.9100	0.0000	18	34.6503	35.3109	0.6125	2.4500	A572-65 (65 ksi)
L32	39.6700-39.4200	0.2500	0.0000	18	35.3109	35.3677	0.8125	3.2500	A572-65 (65 ksi)
L33	39.4200-34.4200	5.0000	0.0000	18	35.3677	36.5028	0.7875	3.1500	A572-65 (65 ksi)
L34	34.4200-32.5000	1.9200	0.0000	18	36.5028	36.9387	0.7875	3.1500	A572-65 (65 ksi)
L35	32.5000-	0.2500	0.0000	18	36.9387	36.9954	0.6125	2.4500	A572-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L36	32.2500 32.2500- 31.4200	0.8300	0.0000	18	36.9954	37.1839	0.6000	2.4000	(65 ksi) A572-65
L37	31.4200- 31.1700	0.2500	0.0000	18	37.1839	37.2406	0.7750	3.1000	(65 ksi) A572-65
L38	31.1700- 29.0000	2.1700	0.0000	18	37.2406	37.7333	0.7625	3.0500	(65 ksi) A572-65
L39	29.0000- 28.6500	0.3500	0.0000	18	37.7333	37.8127	0.6750	2.7000	(65 ksi) A572-65
L40	28.6500- 28.4200	0.2300	0.0000	18	37.8127	37.8649	0.6750	2.7000	(65 ksi) A572-65
L41	28.4200- 23.5000	4.9200	0.0000	18	37.8649	38.9819	0.6625	2.6500	(65 ksi) A572-65
L42	23.5000- 23.2500	0.2500	0.0000	18	38.9819	39.0387	0.7875	3.1500	(65 ksi) A572-65
L43	23.2500- 23.0000	0.2500	0.0000	18	39.0387	39.0954	0.7875	3.1500	(65 ksi) A572-65
L44	23.0000- 22.7500	0.2500	0.0000	18	39.0954	39.1522	0.6500	2.6000	(65 ksi) A572-65
L45	22.7500- 17.7500	5.0000	0.0000	18	39.1522	40.2873	0.6375	2.5500	(65 ksi) A572-65
L46	17.7500- 12.7500	5.0000	0.0000	18	40.2873	41.4224	0.6250	2.5000	(65 ksi) A572-65
L47	12.7500- 7.7500	5.0000	0.0000	18	41.4224	42.5576	0.6125	2.4500	(65 ksi) A572-65
L48	7.7500-2.7500	5.0000	0.0000	18	42.5576	43.6927	0.6000	2.4000	(65 ksi) A572-65
L49	2.7500-0.0000	2.7500		18	43.6927	44.3170	0.6000	2.4000	(65 ksi) A572-65

### Tapered Pole Properties

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L1	13.3351 14.4876	7.7209 8.3963	164.1788 211.1466	4.6056 5.0085	6.6858 7.2623	24.5564 29.0742	328.5737 422.5710	3.8612 4.1989	1.9863 2.1861	10.594 11.659
L2	14.4876 15.6400	8.3963 9.0717	211.1466 266.3129	5.0085 5.4114	7.2623 7.8389	29.0742 33.9732	422.5710 532.9762	4.1989 4.5367	2.1861 2.3858	11.659 12.724
L3	15.6400 16.7925	9.0717 9.7472	266.3129 330.3372	5.4114 5.8143	7.8389 8.4155	33.9732 39.2536	532.9762 661.1090	4.5367 4.8745	2.3858 2.5856	12.724 13.79
L4	16.7925 17.9450	9.7472 10.4226	330.3372 403.8790	5.8143 6.2172	8.4155 8.9920	39.2536 44.9153	661.1090 808.2895	4.8745 5.2123	2.5856 2.7853	13.79 14.855
L5	17.9450 19.0974	10.4226 11.0981	403.8790 487.5980	6.2172 6.6201	8.9920 9.5686	44.9153 50.9583	808.2895 975.8376	5.2123 5.5501	2.7853 2.9851	14.855 15.921
L6	19.0974 19.0550	11.0981 26.9715	487.5980 1150.3132	6.6201 6.5225	9.5686 9.5686	50.9583 120.2178	975.8376 2302.1400	5.5501 13.4883	2.9851 2.5011	15.921 5.408
L7	19.0550 19.1126	26.9715 27.0548	1150.3132 1161.0047	6.5225 6.5427	9.5686 9.5974	120.2178 120.9707	2302.1400 2323.5372	13.4883 13.5300	2.5011 2.5111	5.408 5.429
L8	19.1126 19.1146	27.0548 26.3415	1161.0047 1131.9263	6.5427 6.5471	9.5974 9.5974	120.9707 117.9409	2323.5372 2265.3420	13.5300 13.1732	2.5111 2.5331	5.429 5.629
L9	19.1146 20.2670	26.3415 27.9625	1131.9263 1354.0273	6.5471 6.9500	9.5974 10.1740	117.9409 133.0875	2265.3420 2709.8362	13.1732 13.9839	2.5331 2.7328	5.629 6.073
L10	20.2670 20.2709	27.9625 26.4428	1354.0273 1283.7088	6.9500 6.9589	10.1740 10.1740	133.0875 126.1759	2709.8362 2569.1067	13.9839 13.2239	2.7328 2.7768	6.073 6.534
L11	20.2709 21.4233	26.4428 27.9738	1283.7088 1519.8426	6.9589 7.3618	10.1740 10.7505	126.1759 141.3739	2569.1067 3041.6850	13.2239 13.9895	2.7768 2.9766	6.534 7.004
L12	21.4233 21.4243	27.9738 27.5707	1519.8426 1498.8463	7.3618 7.3640	10.7505 10.7505	141.3739 139.4208	3041.6850 2999.6649	13.9895 13.7880	2.9766 2.9876	7.004 7.135
L13	21.4243 22.1550	27.5707 28.5271	1498.8463 1660.2965	7.3640 7.6195	10.7505 11.1161	139.4208 149.3602	2999.6649 3322.7776	13.7880 14.2662	2.9876 3.1142	7.135 7.437
L14	22.1550 22.1714	28.5271 21.3942	1660.2965 1257.5192	7.6195 7.6572	11.1161 11.1161	149.3602 113.1264	3322.7776 2516.6931	14.2662 10.6992	3.1142 3.3012	7.437 10.564
L15	22.1714 22.2290	21.3942 21.4505	1257.5192 1267.4711	7.6572 7.6773	11.1161 11.1449	113.1264 113.7267	2516.6931 2536.6099	10.6992 10.7273	3.3012 3.3112	10.564 10.596
L16	22.2290 23.3815	21.4505 22.5763	1267.4711 1477.6879	7.6773 8.0802	11.1449 11.7215	113.7267 126.0668	2536.6099 2957.3202	10.7273 11.2903	3.3112 3.5110	10.596 11.235
L17	23.3815 24.5340	22.5763 23.7021	1477.6879 1709.9510	8.0802 8.4832	11.7215 12.2980	126.0668 139.0425	2957.3202 3422.1519	11.2903 11.8533	3.5110 3.7107	11.235 11.874
L18	24.5340 24.5340	23.7021 23.7021	1709.9510 1709.9510	8.4832 8.4832	12.2980 12.2980	139.0425 139.0425	3422.1519 3422.1519	11.8533 11.8533	3.7107 3.7107	11.874 11.874
L19	24.5340 24.6101	23.7021 23.7764	1709.9510 1726.0825	8.4832 8.5098	12.2980 12.3361	139.0425 139.9213	3422.1519 3454.4362	11.8533 11.8905	3.7107 3.7239	11.874 11.917
L20	24.6101 24.5657	23.7764 45.1032	1726.0825 3196.2598	8.5098 8.4077	12.3361 12.3361	139.9213 259.0981	3454.4362 6396.7254	11.8905 22.5559	3.7239 3.2179	11.917 5.363
L21	24.5657 24.6233	45.1032 45.2112	3196.2598 3219.2912	8.4077 8.4278	12.3361 12.3649	259.0981 260.3566	6396.7254 6442.8185	22.5559 22.6099	3.2179 3.2279	5.363 5.38
L22	24.6233 24.6253	45.2112 44.2926	3219.2912 3157.2045	8.4278 8.4323	12.3649 12.3649	260.3566 255.3354	6442.8185 6318.5633	22.6099 22.1505	3.2279 3.2499	5.38 5.532
L23	24.6253 25.7778	44.2926 46.4091	3157.2045 3631.7632	8.4323 8.8352	12.3649 12.9415	255.3354 280.6291	6318.5633 7268.3052	22.1505 23.2090	3.2499 3.4497	5.532 5.872
L24	25.7778 25.7816	46.4091 44.4789	3631.7632 3487.7093	8.8352 8.8441	12.9415 12.9415	280.6291 269.4979	7268.3052 6980.0078	23.2090 22.2437	3.4497 3.4937	5.872 6.211



Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
L17	26.9341	46.5053	3986.4429	9.2470	13.5181	294.8969	7978.1313	23.2571	3.6934	6.566
	26.9361	45.4937	3903.4695	9.2514	13.5181	288.7590	7812.0754	22.7512	3.7154	6.755
	28.0886	47.4750	4436.0241	9.6544	14.0947	314.7306	8877.8852	23.7420	3.9152	7.119
L18	28.0895	46.9463	4388.6391	9.6566	14.0947	311.3687	8783.0529	23.4776	3.9262	7.221
	29.2421	48.9052	4961.2330	10.0595	14.6712	338.1602	9928.9940	24.4572	4.1260	7.588
L19	29.2440	47.8020	4853.5991	10.0640	14.6712	330.8239	9713.5847	23.9055	4.1480	7.808
	29.4215	48.0967	4943.9300	10.1260	14.7600	334.9537	9894.3654	24.0529	4.1787	7.866
L20	29.4215	48.0967	4943.9300	10.1260	14.7600	334.9537	9894.3654	24.0529	4.1787	7.866
	29.4791	48.1924	4973.4975	10.1461	14.7889	336.3000	9953.5392	24.1008	4.1887	7.885
L21	29.4801	47.6359	4918.2108	10.1484	14.7889	332.5616	9842.8932	23.8225	4.1997	7.999
	30.6326	49.5272	5527.5868	10.5513	15.3655	359.7413	11062.447	24.7683	4.3995	8.38
L22	30.6335	48.9479	5465.2285	10.5535	15.3655	355.6829	10937.648	24.4786	4.4105	8.502
	31.0323	49.5945	5684.6895	10.6929	15.5649	365.2238	11376.859	24.8019	4.4796	8.635
L23	31.0043	66.5199	7533.2608	10.6286	15.5649	483.9888	15076.434	33.2663	4.1606	5.944
	31.0620	66.6460	7576.1795	10.6487	15.5938	485.8464	15162.327	33.3293	4.1706	5.958
L24	31.0639	65.4832	7450.1967	10.6532	15.5938	477.7673	14910.196	32.7478	4.1926	6.098
	31.9098	67.3011	8088.0658	10.9489	16.0170	504.9680	16186.774	33.6569	4.3392	6.312
L25	31.9195	61.3068	7397.5780	10.9711	16.0170	461.8583	14804.890	30.6592	4.4492	7.119
	31.9794	61.4239	7440.0417	10.9920	16.0470	463.6416	14889.873	30.7178	4.4596	7.135
L26	31.9794	61.4239	7440.0417	10.9920	16.0470	463.6416	14889.873	30.7178	4.4596	7.135
	32.0140	61.4914	7464.6137	11.0041	16.0643	464.6720	14939.049	30.7516	4.4656	7.145
L27	32.0159	60.2859	7324.1749	11.0086	16.0643	455.9296	14657.987	30.1487	4.4876	7.327
	33.1684	62.4924	8158.1858	11.4115	16.6408	490.2507	16327.106	31.2522	4.6873	7.653
L28	33.1684	62.4924	8158.1858	11.4115	16.6408	490.2507	16327.106	31.2522	4.6873	7.653
	34.3417	64.7387	9069.9048	11.8217	17.2278	526.4690	18151.744	32.3755	4.8907	7.985
L29	33.7033	64.0357	8102.6819	11.2347	16.4006	494.0477	16216.025	32.0239	4.5601	7.153
	33.9338	66.5254	9085.0297	11.6716	17.0257	533.6071	18182.013	33.2690	4.7767	7.493
L30	33.9357	65.2458	8917.0549	11.6760	17.0257	523.7412	17845.843	32.6291	4.7987	7.678
	35.0884	67.4976	9872.5395	12.0790	17.6023	560.8654	19758.069	33.7552	4.9984	7.998
L31	35.0903	66.1720	9685.7557	12.0834	17.6023	550.2541	19384.256	33.0923	5.0204	8.197
	35.7611	67.4563	10260.749	12.3179	17.9379	572.0138	20535.000	33.7346	5.1367	8.386
L32	35.7303	88.9671	13377.189	12.2469	17.9379	745.7483	26771.980	44.4920	4.7847	5.889
	35.7879	89.1134	13443.321	12.2671	17.9668	748.2324	26904.332	44.5652	4.7947	5.901
L33	35.7918	86.4340	13057.981	12.2760	17.9668	726.7850	26133.145	43.2252	4.8387	6.144
	36.9444	89.2713	14386.576	12.6789	18.5434	775.8320	28792.083	44.6441	5.0385	6.398
L34	36.9444	89.2713	14386.576	12.6789	18.5434	775.8320	28792.083	44.6441	5.0385	6.398
	37.3870	90.3608	14919.776	12.8337	18.7648	795.0917	29859.184	45.1890	5.1152	6.496
L35	37.4140	70.6208	11773.608	12.8958	18.7648	627.4289	23562.709	35.3171	5.4232	8.854
	37.4717	70.7312	11828.880	12.9159	18.7937	629.4073	23673.325	35.3723	5.4332	8.871
L36	37.4736	69.3115	11599.422	12.9204	18.7937	617.1980	23214.107	34.6623	5.4552	9.092

Section	Tip Dia. in	Area in <sup>2</sup>	I in <sup>4</sup>	r in	C in	I/C in <sup>3</sup>	J in <sup>4</sup>	It/Q in <sup>2</sup>	w in	w/t
	37.6649	69.6703	11780.518 4	12.9873	18.8894	623.6575	23576.537 9	34.8418	5.4884	9.147
L37	37.6379	89.5603	14999.180 1	12.9251	18.8894	794.0526	30018.096 4	44.7887	5.1804	6.684
	37.6956	89.7000	15069.434 3	12.9453	18.9182	796.5560	30158.697 4	44.8585	5.1903	6.697
L38	37.6975	88.2834	14841.631 1	12.9497	18.9182	784.5145	29702.791 2	44.1501	5.2123	6.836
	38.1977	89.4757	15451.106 8	13.1246	19.1685	806.0676	30922.544 6	44.7464	5.2991	6.95
L39	38.2112	79.3955	13775.375 8	13.1557	19.1685	718.6465	27568.877 6	39.7053	5.4531	8.079
	38.2919	79.5657	13864.175 8	13.1839	19.2089	721.7593	27746.594 4	39.7904	5.4670	8.099
L40	38.2919	79.5657	13864.175 8	13.1839	19.2089	721.7593	27746.594 4	39.7904	5.4670	8.099
	38.3449	79.6776	13922.737 3	13.2024	19.2354	723.8084	27863.794 5	39.8464	5.4762	8.113
L41	38.3469	78.2284	13678.692 3	13.2069	19.2354	711.1211	27375.383 4	39.1216	5.4982	8.299
	39.4811	80.5771	14948.119 3	13.6034	19.8028	754.8485	29915.907 7	40.2962	5.6948	8.596
L42	39.4618	95.4679	17595.200 1	13.5590	19.8028	888.5205	35213.552 5	47.7430	5.4748	6.952
	39.5194	95.6097	17673.755 4	13.5792	19.8316	891.1898	35370.766 3	47.8140	5.4848	6.965
L43	39.5194	95.6097	17673.755 4	13.5792	19.8316	891.1898	35370.766 3	47.8140	5.4848	6.965
	39.5770	95.7516	17752.544 1	13.5993	19.8605	893.8631	35528.447 4	47.8849	5.4948	6.978
L44	39.5983	79.3167	14811.243 0	13.6481	19.8605	745.7649	29641.975 0	39.6659	5.7368	8.826
	39.6559	79.4338	14876.936 7	13.6683	19.8893	747.9868	29773.448 8	39.7245	5.7468	8.841
L45	39.6578	77.9316	14605.057 4	13.6727	19.8893	734.3171	29229.332 5	38.9732	5.7688	9.049
	40.8105	80.2284	15934.836 3	14.0757	20.4659	778.6024	31890.640 0	40.1218	5.9686	9.362
L46	40.8124	78.6801	15637.168 5	14.0801	20.4659	764.0578	31294.912 8	39.3475	5.9906	9.585
	41.9650	80.9319	17018.557 0	14.4831	21.0426	808.7671	34059.507 4	40.4736	6.1903	9.905
L47	41.9669	79.3376	16693.520 7	14.4875	21.0426	793.3205	33409.007 2	39.6763	6.2123	10.143
	43.1196	81.5443	18125.614 6	14.8905	21.6192	838.4021	36275.079 3	40.7799	6.4121	10.469
L48	43.1215	79.9040	17771.582 9	14.8949	21.6192	822.0264	35566.550 1	39.9596	6.4341	10.724
	44.2742	82.0657	19253.343 1	15.2979	22.1959	867.4286	38532.020 3	41.0406	6.6339	11.057
L49	44.2742	82.0657	19253.343 1	15.2979	22.1959	867.4286	38532.020 3	41.0406	6.6339	11.057
	44.9081	83.2547	20102.343 0	15.5195	22.5130	892.9201	40231.137 1	41.6352	6.7438	11.24

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A <sub>r</sub>	Adjust. Factor A <sub>r</sub>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft <sup>2</sup>	in					in	in	in
L1 140.0000- 135.0000				1	1	1			
L2 135.0000- 130.0000				1	1	1			
L3 130.0000- 125.0000				1	1	1			
L4 125.0000- 120.0000				1	1	1			
L5 120.0000-				1	1	1			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_r$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft <sup>2</sup>	in							
115.0000									
L6 115.0000-114.7500				1	1	0.910459			
L7 114.7500-109.7500				1	1	0.90506			
L8 109.7500-104.7500				1	1	0.928842			
L9 104.7500-101.5800				1	1	0.925837			
L10 101.5800-101.3300				1	1	1			
L11 101.3300-96.3300				1	1	1			
L12 96.3300-91.3300				1	1	1			
L13 91.3300-91.0000				1	1	1			
L14 91.0000-90.7500				1	1	0.925286			
L15 90.7500-85.7500				1	1	0.925661			
L16 85.7500-80.7500				1	1	0.947954			
L17 80.7500-75.7500				1	1	0.952304			
L18 75.7500-70.7500				1	1	0.947475			
L19 70.7500-69.9800				1	1	0.951412			
L20 69.9800-69.7300				1	1	0.950691			
L21 69.7300-64.7300				1	1	0.9478			
L22 64.7300-63.0000				1	1	0.954368			
L23 63.0000-62.7500				1	1	0.981128			
L24 62.7500-59.0800				1	1	0.983857			
L25 59.0800-58.8200				1	1	0.999823			
L26 58.8200-58.6700				1	1	0.999274			
L27 58.6700-53.6700				1	1	1.00128			
L28 53.6700-48.5800				1	1	0.99897			
L29 48.5800-47.5800				1	1	0.940602			
L30 47.5800-42.5800				1	1	0.943735			
L31 42.5800-39.6700				1	1	0.954027			
L32 39.6700-39.4200				1	1	0.924799			
L33 39.4200-34.4200				1	1	0.935777			
L34 34.4200-32.5000				1	1	0.929278			
L35 32.5000-32.2500				1	1	0.944082			
L36 32.2500-31.4200				1	1	0.961139			
L37 31.4200-31.1700				1	1	0.939463			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor $A_r$	Adjust. Factor $A_r$	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft <sup>2</sup>	in							
L38 31.1700-29.0000				1	1	0.947279			
L39 29.0000-28.6500				1	1	0.990842			
L40 28.6500-28.4200				1	1	0.990101			
L41 28.4200-23.5000				1	1	0.992797			
L42 23.5000-23.2500				1	1	1.02556			
L43 23.2500-23.0000				1	1	1.02463			
L44 23.0000-22.7500				1	1	1.08475			
L45 22.7500-17.7500				1	1	1.08804			
L46 17.7500-12.7500				1	1	1.09249			
L47 12.7500-7.7500				1	1	1.0981			
L48 7.7500-2.7500				1	1	1.10484			
L49 2.7500-0.0000				1	1	1.0965			

**Feed Line/Linear Appurtenances - Entered As Round Or Flat**

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
5.75" x 1" Flat Plate (G)	A	No	Surface Af (CaAa)	33.3300 - 0.5000	1	1	0.500 0.500	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	B	No	Surface Af (CaAa)	33.3300 - 0.5000	1	1	0.500 0.500	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	C	No	Surface Af (CaAa)	33.3300 - 0.5000	1	1	0.500 0.500	5.7500	13.5000	0.0000
**										
5.75" x 1" Flat Plate (G)	A	No	Surface Af (CaAa)	50.5800 - 30.5800	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	B	No	Surface Af (CaAa)	50.5800 - 30.5800	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	C	No	Surface Af (CaAa)	50.5800 - 30.5800	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
**										
5.75" x 1" Flat Plate (G)	A	No	Surface Af (CaAa)	72.0000 - 57.0000	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	B	No	Surface Af (CaAa)	72.0000 - 57.0000	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
5.75" x 1" Flat Plate (G)	C	No	Surface Af (CaAa)	72.0000 - 57.0000	1	1	-0.300 -0.300	5.7500	13.5000	0.0000
**										
MP3-04	A	No	Surface Af (CaAa)	60.5000 - 0.5000	1	1	0.000 0.000	4.7800	12.7800	0.0000
MP3-04	B	No	Surface Af (CaAa)	60.5000 - 0.5000	1	1	0.000 0.000	4.7800	12.7800	0.0000
MP3-04	C	No	Surface Af (CaAa)	60.5000 - 0.5000	1	1	0.000 0.000	4.7800	12.7800	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	41.6700 - 26.6700	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	B	No	Surface Af (CaAa)	41.6700 - 26.6700	1	1	0.000 0.000	6.0000	14.0000	0.0000

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
CCI-65FP-060100	C	No	Surface Af (CaAa)	41.6700 - 26.6700	1	1	0.000 0.000	6.0000	14.0000	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	25.5000 - 0.5000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	B	No	Surface Af (CaAa)	25.5000 - 0.5000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	C	No	Surface Af (CaAa)	25.5000 - 0.5000	1	1	0.000 0.000	6.0000	14.0000	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	65.0000 - 50.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	B	No	Surface Af (CaAa)	65.0000 - 50.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	C	No	Surface Af (CaAa)	65.0000 - 50.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	93.0000 - 68.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	B	No	Surface Af (CaAa)	93.0000 - 68.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
CCI-65FP-060100	C	No	Surface Af (CaAa)	93.0000 - 68.0000	1	1	0.000 0.000	6.0000	14.0000	0.0000
**										
CCI-65FP-045100	A	No	Surface Af (CaAa)	117.0000 - 102.0000	1	1	0.300 0.300	4.5000	11.0000	0.0000
CCI-65FP-045100	B	No	Surface Af (CaAa)	117.0000 - 102.0000	1	1	0.300 0.300	4.5000	11.0000	0.0000
CCI-65FP-045100	C	No	Surface Af (CaAa)	117.0000 - 102.0000	1	1	0.300 0.300	4.5000	11.0000	0.0000
**										
CCI-65FP-060100	A	No	Surface Af (CaAa)	31.0000 - 21.0000	1	1	-0.200 -0.200	6.0000	14.0000	0.0000
CCI-65FP-060100	C	No	Surface Af (CaAa)	31.0000 - 21.0000	1	1	-0.200 -0.200	6.0000	14.0000	0.0000
**										
**										
HB158-1-08U8-S8J18(1-5/8) *** 118 ***	B	No	Surface Ar (CaAa)	138.0000 - 0.0000	1	1	0.340 0.360	1.9800		1.3000
LDF7-50A(1-5/8)	B	No	Surface Ar (CaAa)	120.0000 - 0.0000	19	5	-0.100 0.100	1.9800		0.8200
*****										
***										

### Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		CAAA ft <sup>2</sup> /ft	Weight plf
**									
**									
*** 138 P ***									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	138.0000 - 0.0000	7	No Ice 1/2" Ice 1" Ice	0.0000 0.0000 0.0000	0.8200 0.8200 0.8200
AVA6-50(1-1/4)	B	No	No	Inside Pole	138.0000 - 0.0000	2	No Ice 1/2" Ice 1" Ice	0.0000 0.0000 0.0000	0.4600 0.4600 0.4600
*** 127 ***									
2" Rigid Conduit	A	No	No	Inside Pole	127.0000 - 0.0000	1	No Ice 1/2" Ice 1" Ice	0.0000 0.0000 0.0000	2.8000 2.8000 2.8000
WR-VG86ST-	A	No	No	Inside Pole	127.0000 -	2	No Ice	0.0000	0.5840

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C <sub>AA</sub> ft <sup>2</sup> /ft	Weight plf
BRD(3/4)					0.0000		1/2" Ice	0.0000	0.5840
							1" Ice	0.0000	0.5840
FB-L98B-034-XXXXXX(3/8)	A	No	No	Inside Pole	127.0000 - 0.0000	2	No Ice	0.0000	0.0500
							1/2" Ice	0.0000	0.0500
							1" Ice	0.0000	0.0500
WR-VG66ST-BRD_CCIV2(7/8)	A	No	No	Inside Pole	127.0000 - 0.0000	4	No Ice	0.0000	0.8800
							1/2" Ice	0.0000	0.8800
							1" Ice	0.0000	0.8800
AL7-50(1-5/8)	A	No	No	Inside Pole	127.0000 - 0.0000	6	No Ice	0.0000	0.5200
							1/2" Ice	0.0000	0.5200
							1" Ice	0.0000	0.5200
**									
HB158-21U6M48-30F(1-5/8)	C	No	No	Inside Pole	73.0000 - 0.0000	4	No Ice	0.0000	2.3900
							1/2" Ice	0.0000	2.3900
							1" Ice	0.0000	2.3900
LDF4-50A(1/2)	C	No	No	Inside Pole	50.0000 - 0.0000	1	No Ice	0.0000	0.1500
							1/2" Ice	0.0000	0.1500
							1" Ice	0.0000	0.1500
*** 108 ***									
CU12PSM9P6XXX (1-1/2)	A	No	No	Inside Pole	108.0000 - 0.0000	1	No Ice	0.0000	2.3500
							1/2" Ice	0.0000	2.3500
							1" Ice	0.0000	2.3500
*****									
***									

**Feed Line/Linear Appurtenances Section Areas**

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L1	140.0000-135.0000	A	0.000	0.000	0.000	0.000	0.0000
		B	0.000	0.000	0.594	0.000	0.0239
		C	0.000	0.000	0.000	0.000	0.0000
L2	135.0000-130.0000	A	0.000	0.000	0.000	0.000	0.0000
		B	0.000	0.000	0.990	0.000	0.0398
		C	0.000	0.000	0.000	0.000	0.0000
L3	130.0000-125.0000	A	0.000	0.000	0.000	0.000	0.0214
		B	0.000	0.000	0.990	0.000	0.0398
		C	0.000	0.000	0.000	0.000	0.0000
L4	125.0000-120.0000	A	0.000	0.000	0.000	0.000	0.0535
		B	0.000	0.000	0.990	0.000	0.0398
		C	0.000	0.000	0.000	0.000	0.0000
L5	120.0000-115.0000	A	0.000	0.000	1.500	0.000	0.0535
		B	0.000	0.000	7.440	0.000	0.1177
		C	0.000	0.000	1.500	0.000	0.0000
L6	115.0000-114.7500	A	0.000	0.000	0.188	0.000	0.0027
		B	0.000	0.000	0.484	0.000	0.0059
		C	0.000	0.000	0.188	0.000	0.0000
L7	114.7500-109.7500	A	0.000	0.000	3.750	0.000	0.0535
		B	0.000	0.000	9.690	0.000	0.1177
		C	0.000	0.000	3.750	0.000	0.0000
L8	109.7500-104.7500	A	0.000	0.000	3.750	0.000	0.0612
		B	0.000	0.000	9.690	0.000	0.1177
		C	0.000	0.000	3.750	0.000	0.0000
L9	104.7500-101.5800	A	0.000	0.000	2.063	0.000	0.0414
		B	0.000	0.000	5.828	0.000	0.0746
		C	0.000	0.000	2.063	0.000	0.0000
L10	101.5800-101.3300	A	0.000	0.000	0.000	0.000	0.0033
		B	0.000	0.000	0.297	0.000	0.0059
		C	0.000	0.000	0.000	0.000	0.0000
L11	101.3300-96.3300	A	0.000	0.000	0.000	0.000	0.0653
		B	0.000	0.000	5.940	0.000	0.1177

Tower Sectio n	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
L12	96.3300-91.3300	C	0.000	0.000	0.000	0.000	0.0000
		A	0.000	0.000	1.670	0.000	0.0653
		B	0.000	0.000	7.610	0.000	0.1177
L13	91.3300-91.0000	C	0.000	0.000	1.670	0.000	0.0000
		A	0.000	0.000	0.330	0.000	0.0043
		B	0.000	0.000	0.722	0.000	0.0078
L14	91.0000-90.7500	C	0.000	0.000	0.330	0.000	0.0000
		A	0.000	0.000	0.250	0.000	0.0033
		B	0.000	0.000	0.547	0.000	0.0059
L15	90.7500-85.7500	C	0.000	0.000	0.250	0.000	0.0000
		A	0.000	0.000	5.000	0.000	0.0653
		B	0.000	0.000	10.940	0.000	0.1177
L16	85.7500-80.7500	C	0.000	0.000	5.000	0.000	0.0000
		A	0.000	0.000	5.000	0.000	0.0653
		B	0.000	0.000	10.940	0.000	0.1177
L17	80.7500-75.7500	C	0.000	0.000	5.000	0.000	0.0000
		A	0.000	0.000	5.000	0.000	0.0653
		B	0.000	0.000	10.940	0.000	0.1177
L18	75.7500-70.7500	C	0.000	0.000	5.000	0.000	0.0000
		A	0.000	0.000	6.198	0.000	0.0653
		B	0.000	0.000	12.138	0.000	0.1177
L19	70.7500-69.9800	C	0.000	0.000	6.198	0.000	0.0215
		A	0.000	0.000	1.508	0.000	0.0101
		B	0.000	0.000	2.423	0.000	0.0181
L20	69.9800-69.7300	C	0.000	0.000	1.508	0.000	0.0074
		A	0.000	0.000	0.490	0.000	0.0033
		B	0.000	0.000	0.787	0.000	0.0059
L21	69.7300-64.7300	C	0.000	0.000	0.490	0.000	0.0024
		A	0.000	0.000	6.792	0.000	0.0653
		B	0.000	0.000	12.732	0.000	0.1177
L22	64.7300-63.0000	C	0.000	0.000	6.792	0.000	0.0478
		A	0.000	0.000	3.388	0.000	0.0226
		B	0.000	0.000	5.443	0.000	0.0407
L23	63.0000-62.7500	C	0.000	0.000	3.388	0.000	0.0165
		A	0.000	0.000	0.490	0.000	0.0033
		B	0.000	0.000	0.787	0.000	0.0059
L24	62.7500-59.0800	C	0.000	0.000	0.490	0.000	0.0024
		A	0.000	0.000	8.318	0.000	0.0479
		B	0.000	0.000	12.678	0.000	0.0864
L25	59.0800-58.8200	C	0.000	0.000	8.318	0.000	0.0351
		A	0.000	0.000	0.716	0.000	0.0034
		B	0.000	0.000	1.025	0.000	0.0061
L26	58.8200-58.6700	C	0.000	0.000	0.716	0.000	0.0025
		A	0.000	0.000	0.413	0.000	0.0020
		B	0.000	0.000	0.591	0.000	0.0035
L27	58.6700-53.6700	C	0.000	0.000	0.413	0.000	0.0014
		A	0.000	0.000	10.584	0.000	0.0653
		B	0.000	0.000	16.524	0.000	0.1177
L28	53.6700-48.5800	C	0.000	0.000	10.584	0.000	0.0478
		A	0.000	0.000	9.642	0.000	0.0665
		B	0.000	0.000	15.689	0.000	0.1198
L29	48.5800-47.5800	C	0.000	0.000	9.642	0.000	0.0489
		A	0.000	0.000	1.755	0.000	0.0131
		B	0.000	0.000	2.943	0.000	0.0235
L30	47.5800-42.5800	C	0.000	0.000	1.755	0.000	0.0097
		A	0.000	0.000	8.775	0.000	0.0653
		B	0.000	0.000	14.715	0.000	0.1177
L31	42.5800-39.6700	C	0.000	0.000	8.775	0.000	0.0486
		A	0.000	0.000	7.107	0.000	0.0380
		B	0.000	0.000	10.564	0.000	0.0685
L32	39.6700-39.4200	C	0.000	0.000	7.107	0.000	0.0283
		A	0.000	0.000	0.689	0.000	0.0033
		B	0.000	0.000	0.986	0.000	0.0059
L33	39.4200-34.4200	C	0.000	0.000	0.689	0.000	0.0024
		A	0.000	0.000	13.775	0.000	0.0653
		B	0.000	0.000	19.715	0.000	0.1177
L34	34.4200-32.5000	C	0.000	0.000	13.775	0.000	0.0486
		A	0.000	0.000	6.085	0.000	0.0251
		B	0.000	0.000	8.366	0.000	0.0452

Tower Section	Tower Elevation	Face	$A_R$	$A_F$	$C_{AA}$ In Face	$C_{AA}$ Out Face	Weight
n	ft		ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	K
L35	32.5000-32.2500	C	0.000	0.000	6.085	0.000	0.0186
		A	0.000	0.000	0.928	0.000	0.0033
		B	0.000	0.000	1.225	0.000	0.0059
L36	32.2500-31.4200	C	0.000	0.000	0.928	0.000	0.0024
		A	0.000	0.000	3.082	0.000	0.0108
		B	0.000	0.000	4.068	0.000	0.0195
L37	31.4200-31.1700	C	0.000	0.000	3.082	0.000	0.0081
		A	0.000	0.000	0.928	0.000	0.0033
		B	0.000	0.000	1.225	0.000	0.0059
L38	31.1700-29.0000	C	0.000	0.000	0.928	0.000	0.0024
		A	0.000	0.000	8.368	0.000	0.0283
		B	0.000	0.000	9.122	0.000	0.0511
L39	29.0000-28.6500	C	0.000	0.000	8.368	0.000	0.0211
		A	0.000	0.000	1.283	0.000	0.0046
		B	0.000	0.000	1.380	0.000	0.0082
L40	28.6500-28.4200	C	0.000	0.000	1.283	0.000	0.0034
		A	0.000	0.000	0.843	0.000	0.0030
		B	0.000	0.000	0.907	0.000	0.0054
L41	28.4200-23.5000	C	0.000	0.000	0.843	0.000	0.0022
		A	0.000	0.000	16.872	0.000	0.0642
		B	0.000	0.000	18.230	0.000	0.1158
L42	23.5000-23.2500	C	0.000	0.000	16.872	0.000	0.0478
		A	0.000	0.000	0.917	0.000	0.0033
		B	0.000	0.000	0.986	0.000	0.0059
L43	23.2500-23.0000	C	0.000	0.000	0.917	0.000	0.0024
		A	0.000	0.000	0.917	0.000	0.0033
		B	0.000	0.000	0.986	0.000	0.0059
L44	23.0000-22.7500	C	0.000	0.000	0.917	0.000	0.0024
		A	0.000	0.000	0.917	0.000	0.0033
		B	0.000	0.000	0.986	0.000	0.0059
L45	22.7500-17.7500	C	0.000	0.000	0.917	0.000	0.0024
		A	0.000	0.000	15.371	0.000	0.0653
		B	0.000	0.000	19.715	0.000	0.1177
L46	17.7500-12.7500	C	0.000	0.000	15.371	0.000	0.0486
		A	0.000	0.000	13.775	0.000	0.0653
		B	0.000	0.000	19.715	0.000	0.1177
L47	12.7500-7.7500	C	0.000	0.000	13.775	0.000	0.0486
		A	0.000	0.000	13.775	0.000	0.0653
		B	0.000	0.000	19.715	0.000	0.1177
L48	7.7500-2.7500	C	0.000	0.000	13.775	0.000	0.0486
		A	0.000	0.000	13.775	0.000	0.0653
		B	0.000	0.000	19.715	0.000	0.1177
L49	2.7500-0.0000	C	0.000	0.000	13.775	0.000	0.0486
		A	0.000	0.000	6.199	0.000	0.0359
		B	0.000	0.000	9.466	0.000	0.0647
		C	0.000	0.000	6.199	0.000	0.0267

### Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation	Face or Leg	Ice Thickness	$A_R$	$A_F$	$C_{AA}$ In Face	$C_{AA}$ Out Face	Weight
n	ft		in	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	ft <sup>2</sup>	K
L1	140.0000-135.0000	A	0.980	0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	1.182	0.000	0.0345
		C		0.000	0.000	0.000	0.000	0.0000
L2	135.0000-130.0000	A	0.977	0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	1.967	0.000	0.0574
		C		0.000	0.000	0.000	0.000	0.0000
L3	130.0000-125.0000	A	0.973	0.000	0.000	0.000	0.000	0.0214
		B		0.000	0.000	1.963	0.000	0.0574
		C		0.000	0.000	0.000	0.000	0.0000
L4	125.0000-120.0000	A	0.969	0.000	0.000	0.000	0.000	0.0535
		B		0.000	0.000	1.959	0.000	0.0573
		C		0.000	0.000	0.000	0.000	0.0000
L5	120.0000-115.0000	A	0.965	0.000	0.000	0.000	0.000	0.0000
		B		0.000	0.000	1.886	0.000	0.0645
				0.000	0.000	11.235	0.000	0.2433



Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L6	115.0000-114.7500	C	0.963	0.000	0.000	1.886	0.000	0.0110
		A		0.000	0.000	0.236	0.000	0.0040
		B		0.000	0.000	0.703	0.000	0.0130
L7	114.7500-109.7500	C	0.961	0.000	0.000	0.236	0.000	0.0014
		A		0.000	0.000	4.711	0.000	0.0809
		B		0.000	0.000	14.050	0.000	0.2592
L8	109.7500-104.7500	C	0.956	0.000	0.000	4.711	0.000	0.0273
		A		0.000	0.000	4.706	0.000	0.0884
		B		0.000	0.000	14.036	0.000	0.2586
L9	104.7500-101.5800	C	0.953	0.000	0.000	4.706	0.000	0.0272
		A		0.000	0.000	2.586	0.000	0.0563
		B		0.000	0.000	8.496	0.000	0.1614
L10	101.5800-101.3300	C	0.951	0.000	0.000	2.586	0.000	0.0149
		A		0.000	0.000	0.000	0.000	0.0033
		B		0.000	0.000	0.466	0.000	0.0115
L11	101.3300-96.3300	C	0.949	0.000	0.000	0.000	0.000	0.0000
		A		0.000	0.000	0.000	0.000	0.0653
		B		0.000	0.000	9.312	0.000	0.2306
L12	96.3300-91.3300	C	0.944	0.000	0.000	0.000	0.000	0.0000
		A		0.000	0.000	1.985	0.000	0.0761
		B		0.000	0.000	11.286	0.000	0.2409
L13	91.3300-91.0000	C	0.941	0.000	0.000	1.985	0.000	0.0108
		A		0.000	0.000	0.392	0.000	0.0064
		B		0.000	0.000	1.006	0.000	0.0173
L14	91.0000-90.7500	C	0.941	0.000	0.000	0.392	0.000	0.0021
		A		0.000	0.000	0.297	0.000	0.0049
		B		0.000	0.000	0.762	0.000	0.0131
L15	90.7500-85.7500	C	0.938	0.000	0.000	0.297	0.000	0.0016
		A		0.000	0.000	5.938	0.000	0.0973
		B		0.000	0.000	15.225	0.000	0.2616
L16	85.7500-80.7500	C	0.932	0.000	0.000	5.938	0.000	0.0320
		A		0.000	0.000	5.932	0.000	0.0971
		B		0.000	0.000	15.208	0.000	0.2608
L17	80.7500-75.7500	C	0.927	0.000	0.000	5.932	0.000	0.0318
		A		0.000	0.000	5.927	0.000	0.0968
		B		0.000	0.000	15.189	0.000	0.2600
L18	75.7500-70.7500	C	0.921	0.000	0.000	5.927	0.000	0.0315
		A		0.000	0.000	7.343	0.000	0.1042
		B		0.000	0.000	16.592	0.000	0.2668
L19	70.7500-69.9800	C	0.917	0.000	0.000	7.343	0.000	0.0604
		A		0.000	0.000	1.787	0.000	0.0195
		B		0.000	0.000	3.210	0.000	0.0445
L20	69.9800-69.7300	C	0.916	0.000	0.000	1.787	0.000	0.0168
		A		0.000	0.000	0.580	0.000	0.0063
		B		0.000	0.000	1.042	0.000	0.0144
L21	69.7300-64.7300	C	0.913	0.000	0.000	0.580	0.000	0.0055
		A		0.000	0.000	8.045	0.000	0.1078
		B		0.000	0.000	17.276	0.000	0.2696
L22	64.7300-63.0000	C	0.908	0.000	0.000	8.045	0.000	0.0903
		A		0.000	0.000	3.993	0.000	0.0436
		B		0.000	0.000	7.183	0.000	0.0994
L23	63.0000-62.7500	C	0.907	0.000	0.000	3.993	0.000	0.0375
		A		0.000	0.000	0.577	0.000	0.0063
		B		0.000	0.000	1.038	0.000	0.0144
L24	62.7500-59.0800	C	0.904	0.000	0.000	0.577	0.000	0.0054
		A		0.000	0.000	9.854	0.000	0.1003
		B		0.000	0.000	16.615	0.000	0.2184
L25	59.0800-58.8200	C	0.901	0.000	0.000	9.854	0.000	0.0875
		A		0.000	0.000	0.854	0.000	0.0080
		B		0.000	0.000	1.332	0.000	0.0163
L26	58.8200-58.6700	C	0.900	0.000	0.000	0.854	0.000	0.0071
		A		0.000	0.000	0.492	0.000	0.0046
		B		0.000	0.000	0.769	0.000	0.0094
L27	58.6700-53.6700	C	0.896	0.000	0.000	0.492	0.000	0.0041
		A		0.000	0.000	12.629	0.000	0.1336
		B		0.000	0.000	21.823	0.000	0.2938
L28	53.6700-48.5800	C	0.888	0.000	0.000	12.629	0.000	0.1161
		A		0.000	0.000	11.526	0.000	0.1285
		B		0.000	0.000	20.867	0.000	0.2907

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
L29	48.5800-47.5800	C	0.883	0.000	0.000	11.526	0.000	0.1109
		A		0.000	0.000	2.110	0.000	0.0245
		B		0.000	0.000	3.945	0.000	0.0563
L30	47.5800-42.5800	C	0.877	0.000	0.000	2.110	0.000	0.0211
		A		0.000	0.000	10.529	0.000	0.1214
		B		0.000	0.000	19.679	0.000	0.2797
L31	42.5800-39.6700	C	0.869	0.000	0.000	10.529	0.000	0.1047
		A		0.000	0.000	8.455	0.000	0.0820
		B		0.000	0.000	13.770	0.000	0.1737
L32	39.6700-39.4200	C	0.866	0.000	0.000	8.455	0.000	0.0723
		A		0.000	0.000	0.817	0.000	0.0075
		B		0.000	0.000	1.273	0.000	0.0153
L33	39.4200-34.4200	C	0.860	0.000	0.000	0.817	0.000	0.0066
		A		0.000	0.000	16.326	0.000	0.1489
		B		0.000	0.000	25.438	0.000	0.3055
L34	34.4200-32.5000	C	0.851	0.000	0.000	16.326	0.000	0.1322
		A		0.000	0.000	7.197	0.000	0.0614
		B		0.000	0.000	10.688	0.000	0.1212
L35	32.5000-32.2500	C	0.848	0.000	0.000	7.197	0.000	0.0550
		A		0.000	0.000	1.097	0.000	0.0088
		B		0.000	0.000	1.551	0.000	0.0165
L36	32.2500-31.4200	C	0.847	0.000	0.000	1.097	0.000	0.0079
		A		0.000	0.000	3.640	0.000	0.0290
		B		0.000	0.000	5.148	0.000	0.0548
L37	31.4200-31.1700	C	0.846	0.000	0.000	3.640	0.000	0.0263
		A		0.000	0.000	1.096	0.000	0.0087
		B		0.000	0.000	1.550	0.000	0.0165
L38	31.1700-29.0000	C	0.842	0.000	0.000	1.096	0.000	0.0079
		A		0.000	0.000	9.734	0.000	0.0782
		B		0.000	0.000	11.666	0.000	0.1342
L39	29.0000-28.6500	C	0.839	0.000	0.000	9.734	0.000	0.0710
		A		0.000	0.000	1.489	0.000	0.0122
		B		0.000	0.000	1.773	0.000	0.0211
L40	28.6500-28.4200	C	0.838	0.000	0.000	1.489	0.000	0.0110
		A		0.000	0.000	0.979	0.000	0.0080
		B		0.000	0.000	1.165	0.000	0.0138
L41	28.4200-23.5000	C	0.830	0.000	0.000	0.979	0.000	0.0073
		A		0.000	0.000	19.559	0.000	0.1639
		B		0.000	0.000	23.532	0.000	0.2879
L42	23.5000-23.2500	C	0.821	0.000	0.000	19.559	0.000	0.1474
		A		0.000	0.000	1.062	0.000	0.0086
		B		0.000	0.000	1.263	0.000	0.0149
L43	23.2500-23.0000	C	0.820	0.000	0.000	1.062	0.000	0.0078
		A		0.000	0.000	1.062	0.000	0.0086
		B		0.000	0.000	1.263	0.000	0.0149
L44	23.0000-22.7500	C	0.819	0.000	0.000	1.062	0.000	0.0077
		A		0.000	0.000	1.062	0.000	0.0086
		B		0.000	0.000	1.263	0.000	0.0148
L45	22.7500-17.7500	C	0.809	0.000	0.000	1.062	0.000	0.0077
		A		0.000	0.000	17.952	0.000	0.1526
		B		0.000	0.000	25.202	0.000	0.2949
L46	17.7500-12.7500	C	0.787	0.000	0.000	17.952	0.000	0.1358
		A		0.000	0.000	16.135	0.000	0.1406
		B		0.000	0.000	25.083	0.000	0.2901
L47	12.7500-7.7500	C	0.756	0.000	0.000	16.135	0.000	0.1238
		A		0.000	0.000	16.043	0.000	0.1371
		B		0.000	0.000	24.922	0.000	0.2838
L48	7.7500-2.7500	C	0.707	0.000	0.000	16.043	0.000	0.1204
		A		0.000	0.000	15.896	0.000	0.1317
		B		0.000	0.000	24.665	0.000	0.2737
L49	2.7500-0.0000	C	0.618	0.000	0.000	15.896	0.000	0.1150
		A		0.000	0.000	7.034	0.000	0.0615
		B		0.000	0.000	11.747	0.000	0.1351
		C		0.000	0.000	7.034	0.000	0.0523

### Feed Line Center of Pressure

Section	Elevation	CP <sub>x</sub>	CP <sub>z</sub>	CP <sub>x</sub> Ice	CP <sub>z</sub> Ice
	ft	in	in	in	in
L1	140.0000-135.0000	0.9594	0.2039	1.0105	0.2148
L2	135.0000-130.0000	1.4219	0.3022	1.5466	0.3287
L3	130.0000-125.0000	1.4554	0.3094	1.5628	0.3322
L4	125.0000-120.0000	1.4753	0.3136	1.5770	0.3352
L5	120.0000-115.0000	3.3469	-1.5392	3.7290	-1.6004
L6	115.0000-114.7500	2.4977	-1.1471	2.8742	-1.2315
L7	114.7500-109.7500	2.5291	-1.1599	2.9190	-1.2488
L8	109.7500-104.7500	2.5869	-1.1836	3.0023	-1.2810
L9	104.7500-101.5800	2.7913	-1.2747	3.2391	-1.3793
L10	101.5800-101.3300	4.4311	-2.0221	4.9573	-2.1092
L11	101.3300-96.3300	4.4441	-2.0258	4.9969	-2.1236
L12	96.3300-91.3300	3.4914	-1.5884	4.0826	-1.7316
L13	91.3300-91.0000	2.4447	-1.1111	2.9653	-1.2564
L14	91.0000-90.7500	2.4491	-1.1130	2.9708	-1.2586
L15	90.7500-85.7500	2.4749	-1.1237	3.0078	-1.2731
L16	85.7500-80.7500	2.5229	-1.1435	3.0768	-1.3002
L17	80.7500-75.7500	2.5694	-1.1627	3.1439	-1.3267
L18	75.7500-70.7500	2.3568	-1.0650	2.9125	-1.2276
L19	70.7500-69.9800	1.8416	-0.8315	2.3111	-0.9734
L20	69.9800-69.7300	1.8456	-0.8331	2.3165	-0.9756
L21	69.7300-64.7300	2.2922	-1.0340	2.8489	-1.1992
L22	64.7300-63.0000	1.8915	-0.8525	2.3842	-1.0030
L23	63.0000-62.7500	1.8994	-0.8559	2.3948	-1.0073
L24	62.7500-59.0800	1.7491	-0.7878	2.2081	-0.9285
L25	59.0800-58.8200	1.5518	-0.6986	1.9617	-0.8246
L26	58.8200-58.6700	1.5532	-0.6992	1.9635	-0.8253
L27	58.6700-53.6700	1.8636	-0.8384	2.3401	-0.9833
L28	53.6700-48.5800	2.0286	-0.9116	2.5404	-1.0669
L29	48.5800-47.5800	2.1169	-0.9512	2.6401	-1.1087
L30	47.5800-42.5800	2.1388	-0.9604	2.6687	-1.1211
L31	42.5800-39.6700	1.7821	-0.7996	2.2485	-0.9444
L32	39.6700-39.4200	1.6591	-0.7441	2.1009	-0.8824
L33	39.4200-34.4200	1.6754	-0.7510	2.1223	-0.8914
L34	34.4200-32.5000	1.5429	-0.6912	1.9611	-0.8238
L35	32.5000-32.2500	1.3845	-0.6201	1.7654	-0.7416
L36	32.2500-31.4200	1.3874	-0.6213	1.7691	-0.7432
L37	31.4200-31.1700	1.3905	-0.6227	1.7731	-0.7449
L38	31.1700-29.0000	1.1600	0.3918	1.5858	0.1827
L39	29.0000-28.6500	1.1921	0.5036	1.6400	0.2776
L40	28.6500-28.4200	1.1933	0.5045	1.6416	0.2782
L41	28.4200-23.5000	1.2654	0.5380	1.7375	0.2979
L42	23.5000-23.2500	1.2152	0.5195	1.6697	0.2896
L43	23.2500-23.0000	1.2162	0.5202	1.6711	0.2901
L44	23.0000-22.7500	1.2171	0.5209	1.6723	0.2907
L45	22.7500-17.7500	1.5662	-0.2928	2.0354	-0.4788
L46	17.7500-12.7500	1.8022	-0.8048	2.2821	-0.9619
L47	12.7500-7.7500	1.8308	-0.8170	2.3153	-0.9785
L48	7.7500-2.7500	1.8590	-0.8290	2.3435	-0.9953
L49	2.7500-0.0000	2.1204	-0.9450	2.6457	-1.1351

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

### Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L1	43	HB158-1-08U8-S8J18(1-5/8)	135.00 - 138.00	1.0000	1.0000
L2	43	HB158-1-08U8-S8J18(1-5/8)	130.00 - 135.00	1.0000	1.0000
L3	43	HB158-1-08U8-S8J18(1-5/8)	125.00 - 130.00	1.0000	1.0000
L4	43	HB158-1-08U8-S8J18(1-5/8)	120.00 - 125.00	1.0000	1.0000
L5	33	CCI-65FP-045100	115.00 - 117.00	1.0000	1.0000
L5	34	CCI-65FP-045100	115.00 - 117.00	1.0000	1.0000
L5	35	CCI-65FP-045100	115.00 - 117.00	1.0000	1.0000
L5	43	HB158-1-08U8-S8J18(1-5/8)	115.00 - 120.00	1.0000	1.0000
L5	52	LDF7-50A(1-5/8)	115.00 - 120.00	1.0000	1.0000
L6	33	CCI-65FP-045100	114.75 - 115.00	1.0000	1.0000
L6	34	CCI-65FP-045100	114.75 - 115.00	1.0000	1.0000
L6	35	CCI-65FP-045100	114.75 - 115.00	1.0000	1.0000
L6	43	HB158-1-08U8-S8J18(1-5/8)	114.75 - 115.00	1.0000	1.0000
L6	52	LDF7-50A(1-5/8)	114.75 - 115.00	1.0000	1.0000
L7	33	CCI-65FP-045100	109.75 - 114.75	1.0000	1.0000
L7	34	CCI-65FP-045100	109.75 - 114.75	1.0000	1.0000
L7	35	CCI-65FP-045100	109.75 - 114.75	1.0000	1.0000
L7	43	HB158-1-08U8-S8J18(1-5/8)	109.75 - 114.75	1.0000	1.0000
L7	52	LDF7-50A(1-5/8)	109.75 - 114.75	1.0000	1.0000
L8	33	CCI-65FP-045100	104.75 - 109.75	1.0000	1.0000
L8	34	CCI-65FP-045100	104.75 - 109.75	1.0000	1.0000
L8	35	CCI-65FP-045100	104.75 - 109.75	1.0000	1.0000
L8	43	HB158-1-08U8-S8J18(1-5/8)	104.75 - 109.75	1.0000	1.0000
L8	52	LDF7-50A(1-5/8)	104.75 - 109.75	1.0000	1.0000
L9	33	CCI-65FP-045100	102.00 - 104.75	1.0000	1.0000
L9	34	CCI-65FP-045100	102.00 - 104.75	1.0000	1.0000
L9	35	CCI-65FP-045100	102.00 - 104.75	1.0000	1.0000
L9	43	HB158-1-08U8-S8J18(1-5/8)	101.58 - 104.75	1.0000	1.0000
L9	52	LDF7-50A(1-5/8)	101.58 - 104.75	1.0000	1.0000
L10	43	HB158-1-08U8-S8J18(1-5/8)	101.33 - 101.58	1.0000	1.0000
L10	52	LDF7-50A(1-5/8)	101.33 - 101.58	1.0000	1.0000
L11	43	HB158-1-08U8-S8J18(1-5/8)	96.33 - 101.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L11	52	LDF7-50A(1-5/8)	96.33 - 101.33	1.0000	1.0000
L12	29	CCI-65FP-060100	91.33 - 93.00	1.0000	1.0000
L12	30	CCI-65FP-060100	91.33 - 93.00	1.0000	1.0000
L12	31	CCI-65FP-060100	91.33 - 93.00	1.0000	1.0000
L12	43	HB158-1-08U8-S8J18(1-5/8)	91.33 - 96.33	1.0000	1.0000
L12	52	LDF7-50A(1-5/8)	91.33 - 96.33	1.0000	1.0000
L13	29	CCI-65FP-060100	91.00 - 91.33	1.0000	1.0000
L13	30	CCI-65FP-060100	91.00 - 91.33	1.0000	1.0000
L13	31	CCI-65FP-060100	91.00 - 91.33	1.0000	1.0000
L13	43	HB158-1-08U8-S8J18(1-5/8)	91.00 - 91.33	1.0000	1.0000
L13	52	LDF7-50A(1-5/8)	91.00 - 91.33	1.0000	1.0000
L14	29	CCI-65FP-060100	90.75 - 91.00	1.0000	1.0000
L14	30	CCI-65FP-060100	90.75 - 91.00	1.0000	1.0000
L14	31	CCI-65FP-060100	90.75 - 91.00	1.0000	1.0000
L14	43	HB158-1-08U8-S8J18(1-5/8)	90.75 - 91.00	1.0000	1.0000
L14	52	LDF7-50A(1-5/8)	90.75 - 91.00	1.0000	1.0000
L15	29	CCI-65FP-060100	85.75 - 90.75	1.0000	1.0000
L15	30	CCI-65FP-060100	85.75 - 90.75	1.0000	1.0000
L15	31	CCI-65FP-060100	85.75 - 90.75	1.0000	1.0000
L15	43	HB158-1-08U8-S8J18(1-5/8)	85.75 - 90.75	1.0000	1.0000
L15	52	LDF7-50A(1-5/8)	85.75 - 90.75	1.0000	1.0000
L16	29	CCI-65FP-060100	80.75 - 85.75	1.0000	1.0000
L16	30	CCI-65FP-060100	80.75 - 85.75	1.0000	1.0000
L16	31	CCI-65FP-060100	80.75 - 85.75	1.0000	1.0000
L16	43	HB158-1-08U8-S8J18(1-5/8)	80.75 - 85.75	1.0000	1.0000
L16	52	LDF7-50A(1-5/8)	80.75 - 85.75	1.0000	1.0000
L17	29	CCI-65FP-060100	75.75 - 80.75	1.0000	1.0000
L17	30	CCI-65FP-060100	75.75 - 80.75	1.0000	1.0000
L17	31	CCI-65FP-060100	75.75 - 80.75	1.0000	1.0000
L17	43	HB158-1-08U8-S8J18(1-5/8)	75.75 - 80.75	1.0000	1.0000
L17	52	LDF7-50A(1-5/8)	75.75 - 80.75	1.0000	1.0000
L18	9	5.75" x 1" Flat Plate (G)	70.75 - 72.00	1.0000	1.0000
L18	10	5.75" x 1" Flat Plate (G)	70.75 - 72.00	1.0000	1.0000
L18	11	5.75" x 1" Flat Plate (G)	70.75 - 72.00	1.0000	1.0000
L18	29	CCI-65FP-060100	70.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L18	30	CCI-65FP-060100	75.75 70.75 - 75.75	1.0000	1.0000
L18	31	CCI-65FP-060100	70.75 - 75.75	1.0000	1.0000
L18	43	HB158-1-08U8-S8J18(1-5/8)	70.75 - 75.75	1.0000	1.0000
L18	52	LDF7-50A(1-5/8)	70.75 - 75.75	1.0000	1.0000
L19	9	5.75" x 1" Flat Plate (G)	69.98 - 70.75	1.0000	1.0000
L19	10	5.75" x 1" Flat Plate (G)	69.98 - 70.75	1.0000	1.0000
L19	11	5.75" x 1" Flat Plate (G)	69.98 - 70.75	1.0000	1.0000
L19	29	CCI-65FP-060100	69.98 - 70.75	1.0000	1.0000
L19	30	CCI-65FP-060100	69.98 - 70.75	1.0000	1.0000
L19	31	CCI-65FP-060100	69.98 - 70.75	1.0000	1.0000
L19	43	HB158-1-08U8-S8J18(1-5/8)	69.98 - 70.75	1.0000	1.0000
L19	52	LDF7-50A(1-5/8)	69.98 - 70.75	1.0000	1.0000
L20	9	5.75" x 1" Flat Plate (G)	69.73 - 69.98	1.0000	1.0000
L20	10	5.75" x 1" Flat Plate (G)	69.73 - 69.98	1.0000	1.0000
L20	11	5.75" x 1" Flat Plate (G)	69.73 - 69.98	1.0000	1.0000
L20	29	CCI-65FP-060100	69.73 - 69.98	1.0000	1.0000
L20	30	CCI-65FP-060100	69.73 - 69.98	1.0000	1.0000
L20	31	CCI-65FP-060100	69.73 - 69.98	1.0000	1.0000
L20	43	HB158-1-08U8-S8J18(1-5/8)	69.73 - 69.98	1.0000	1.0000
L20	52	LDF7-50A(1-5/8)	69.73 - 69.98	1.0000	1.0000
L21	9	5.75" x 1" Flat Plate (G)	64.73 - 69.73	1.0000	1.0000
L21	10	5.75" x 1" Flat Plate (G)	64.73 - 69.73	1.0000	1.0000
L21	11	5.75" x 1" Flat Plate (G)	64.73 - 69.73	1.0000	1.0000
L21	25	CCI-65FP-060100	64.73 - 65.00	1.0000	1.0000
L21	26	CCI-65FP-060100	64.73 - 65.00	1.0000	1.0000
L21	27	CCI-65FP-060100	64.73 - 65.00	1.0000	1.0000
L21	29	CCI-65FP-060100	68.00 - 69.73	1.0000	1.0000
L21	30	CCI-65FP-060100	68.00 - 69.73	1.0000	1.0000
L21	31	CCI-65FP-060100	68.00 - 69.73	1.0000	1.0000
L21	43	HB158-1-08U8-S8J18(1-5/8)	64.73 - 69.73	1.0000	1.0000
L21	52	LDF7-50A(1-5/8)	64.73 - 69.73	1.0000	1.0000
L22	9	5.75" x 1" Flat Plate (G)	63.00 - 64.73	1.0000	1.0000
L22	10	5.75" x 1" Flat Plate (G)	63.00 - 64.73	1.0000	1.0000
L22	11	5.75" x 1" Flat Plate (G)	63.00 - 64.73	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L22	25	CCI-65FP-060100	63.00 - 64.73	1.0000	1.0000
L22	26	CCI-65FP-060100	63.00 - 64.73	1.0000	1.0000
L22	27	CCI-65FP-060100	63.00 - 64.73	1.0000	1.0000
L22	43	HB158-1-08U8-S8J18(1-5/8)	63.00 - 64.73	1.0000	1.0000
L22	52	LDF7-50A(1-5/8)	63.00 - 64.73	1.0000	1.0000
L23	9	5.75" x 1" Flat Plate (G)	62.75 - 63.00	1.0000	1.0000
L23	10	5.75" x 1" Flat Plate (G)	62.75 - 63.00	1.0000	1.0000
L23	11	5.75" x 1" Flat Plate (G)	62.75 - 63.00	1.0000	1.0000
L23	25	CCI-65FP-060100	62.75 - 63.00	1.0000	1.0000
L23	26	CCI-65FP-060100	62.75 - 63.00	1.0000	1.0000
L23	27	CCI-65FP-060100	62.75 - 63.00	1.0000	1.0000
L23	43	HB158-1-08U8-S8J18(1-5/8)	62.75 - 63.00	1.0000	1.0000
L23	52	LDF7-50A(1-5/8)	62.75 - 63.00	1.0000	1.0000
L24	9	5.75" x 1" Flat Plate (G)	59.08 - 62.75	1.0000	1.0000
L24	10	5.75" x 1" Flat Plate (G)	59.08 - 62.75	1.0000	1.0000
L24	11	5.75" x 1" Flat Plate (G)	59.08 - 62.75	1.0000	1.0000
L24	13	MP3-04	59.08 - 60.50	1.0000	1.0000
L24	14	MP3-04	59.08 - 60.50	1.0000	1.0000
L24	15	MP3-04	59.08 - 60.50	1.0000	1.0000
L24	25	CCI-65FP-060100	59.08 - 62.75	1.0000	1.0000
L24	26	CCI-65FP-060100	59.08 - 62.75	1.0000	1.0000
L24	27	CCI-65FP-060100	59.08 - 62.75	1.0000	1.0000
L24	43	HB158-1-08U8-S8J18(1-5/8)	59.08 - 62.75	1.0000	1.0000
L24	52	LDF7-50A(1-5/8)	59.08 - 62.75	1.0000	1.0000
L25	9	5.75" x 1" Flat Plate (G)	58.82 - 59.08	1.0000	1.0000
L25	10	5.75" x 1" Flat Plate (G)	58.82 - 59.08	1.0000	1.0000
L25	11	5.75" x 1" Flat Plate (G)	58.82 - 59.08	1.0000	1.0000
L25	13	MP3-04	58.82 - 59.08	1.0000	1.0000
L25	14	MP3-04	58.82 - 59.08	1.0000	1.0000
L25	15	MP3-04	58.82 - 59.08	1.0000	1.0000
L25	25	CCI-65FP-060100	58.82 - 59.08	1.0000	1.0000
L25	26	CCI-65FP-060100	58.82 - 59.08	1.0000	1.0000
L25	27	CCI-65FP-060100	58.82 - 59.08	1.0000	1.0000
L25	43	HB158-1-08U8-S8J18(1-5/8)	58.82 - 59.08	1.0000	1.0000
L25	52	LDF7-50A(1-5/8)	58.82 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			59.08		
L26	9	5.75" x 1" Flat Plate (G)	58.67 - 58.82	1.0000	1.0000
L26	10	5.75" x 1" Flat Plate (G)	58.67 - 58.82	1.0000	1.0000
L26	11	5.75" x 1" Flat Plate (G)	58.67 - 58.82	1.0000	1.0000
L26	13	MP3-04	58.67 - 58.82	1.0000	1.0000
L26	14	MP3-04	58.67 - 58.82	1.0000	1.0000
L26	15	MP3-04	58.67 - 58.82	1.0000	1.0000
L26	25	CCI-65FP-060100	58.67 - 58.82	1.0000	1.0000
L26	26	CCI-65FP-060100	58.67 - 58.82	1.0000	1.0000
L26	27	CCI-65FP-060100	58.67 - 58.82	1.0000	1.0000
L26	43	HB158-1-08U8-S8J18(1-5/8)	58.67 - 58.82	1.0000	1.0000
L26	52	LDF7-50A(1-5/8)	58.67 - 58.82	1.0000	1.0000
L27	9	5.75" x 1" Flat Plate (G)	57.00 - 58.67	1.0000	1.0000
L27	10	5.75" x 1" Flat Plate (G)	57.00 - 58.67	1.0000	1.0000
L27	11	5.75" x 1" Flat Plate (G)	57.00 - 58.67	1.0000	1.0000
L27	13	MP3-04	53.67 - 58.67	1.0000	1.0000
L27	14	MP3-04	53.67 - 58.67	1.0000	1.0000
L27	15	MP3-04	53.67 - 58.67	1.0000	1.0000
L27	25	CCI-65FP-060100	53.67 - 58.67	1.0000	1.0000
L27	26	CCI-65FP-060100	53.67 - 58.67	1.0000	1.0000
L27	27	CCI-65FP-060100	53.67 - 58.67	1.0000	1.0000
L27	43	HB158-1-08U8-S8J18(1-5/8)	53.67 - 58.67	1.0000	1.0000
L27	52	LDF7-50A(1-5/8)	53.67 - 58.67	1.0000	1.0000
L28	5	5.75" x 1" Flat Plate (G)	48.58 - 50.58	1.0000	1.0000
L28	6	5.75" x 1" Flat Plate (G)	48.58 - 50.58	1.0000	1.0000
L28	7	5.75" x 1" Flat Plate (G)	48.58 - 50.58	1.0000	1.0000
L28	13	MP3-04	48.58 - 53.67	1.0000	1.0000
L28	14	MP3-04	48.58 - 53.67	1.0000	1.0000
L28	15	MP3-04	48.58 - 53.67	1.0000	1.0000
L28	25	CCI-65FP-060100	50.00 - 53.67	1.0000	1.0000
L28	26	CCI-65FP-060100	50.00 - 53.67	1.0000	1.0000
L28	27	CCI-65FP-060100	50.00 - 53.67	1.0000	1.0000
L28	43	HB158-1-08U8-S8J18(1-5/8)	48.58 - 53.67	1.0000	1.0000
L28	52	LDF7-50A(1-5/8)	48.58 - 53.67	1.0000	1.0000
L29	5	5.75" x 1" Flat Plate (G)	47.58 - 48.58	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L29	6	5.75" x 1" Flat Plate (G)	47.58 - 48.58	1.0000	1.0000
L29	7	5.75" x 1" Flat Plate (G)	47.58 - 48.58	1.0000	1.0000
L29	13	MP3-04	47.58 - 48.58	1.0000	1.0000
L29	14	MP3-04	47.58 - 48.58	1.0000	1.0000
L29	15	MP3-04	47.58 - 48.58	1.0000	1.0000
L29	43	HB158-1-08U8-S8J18(1-5/8)	47.58 - 48.58	1.0000	1.0000
L29	52	LDF7-50A(1-5/8)	47.58 - 48.58	1.0000	1.0000
L30	5	5.75" x 1" Flat Plate (G)	42.58 - 47.58	1.0000	1.0000
L30	6	5.75" x 1" Flat Plate (G)	42.58 - 47.58	1.0000	1.0000
L30	7	5.75" x 1" Flat Plate (G)	42.58 - 47.58	1.0000	1.0000
L30	13	MP3-04	42.58 - 47.58	1.0000	1.0000
L30	14	MP3-04	42.58 - 47.58	1.0000	1.0000
L30	15	MP3-04	42.58 - 47.58	1.0000	1.0000
L30	43	HB158-1-08U8-S8J18(1-5/8)	42.58 - 47.58	1.0000	1.0000
L30	52	LDF7-50A(1-5/8)	42.58 - 47.58	1.0000	1.0000
L31	5	5.75" x 1" Flat Plate (G)	39.67 - 42.58	1.0000	1.0000
L31	6	5.75" x 1" Flat Plate (G)	39.67 - 42.58	1.0000	1.0000
L31	7	5.75" x 1" Flat Plate (G)	39.67 - 42.58	1.0000	1.0000
L31	13	MP3-04	39.67 - 42.58	1.0000	1.0000
L31	14	MP3-04	39.67 - 42.58	1.0000	1.0000
L31	15	MP3-04	39.67 - 42.58	1.0000	1.0000
L31	17	CCI-65FP-060100	39.67 - 41.67	1.0000	1.0000
L31	18	CCI-65FP-060100	39.67 - 41.67	1.0000	1.0000
L31	19	CCI-65FP-060100	39.67 - 41.67	1.0000	1.0000
L31	43	HB158-1-08U8-S8J18(1-5/8)	39.67 - 42.58	1.0000	1.0000
L31	52	LDF7-50A(1-5/8)	39.67 - 42.58	1.0000	1.0000
L32	5	5.75" x 1" Flat Plate (G)	39.42 - 39.67	1.0000	1.0000
L32	6	5.75" x 1" Flat Plate (G)	39.42 - 39.67	1.0000	1.0000
L32	7	5.75" x 1" Flat Plate (G)	39.42 - 39.67	1.0000	1.0000
L32	13	MP3-04	39.42 - 39.67	1.0000	1.0000
L32	14	MP3-04	39.42 - 39.67	1.0000	1.0000
L32	15	MP3-04	39.42 - 39.67	1.0000	1.0000
L32	17	CCI-65FP-060100	39.42 - 39.67	1.0000	1.0000
L32	18	CCI-65FP-060100	39.42 - 39.67	1.0000	1.0000
L32	19	CCI-65FP-060100	39.42 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
			39.67		
L32	43	HB158-1-08U8-S8J18(1-5/8)	39.42 -	1.0000	1.0000
L32	52	LDF7-50A(1-5/8)	39.67	1.0000	1.0000
L33	5	5.75" x 1" Flat Plate (G)	39.42 -	1.0000	1.0000
L33	6	5.75" x 1" Flat Plate (G)	39.42 -	1.0000	1.0000
L33	7	5.75" x 1" Flat Plate (G)	39.42 -	1.0000	1.0000
L33	13	MP3-04	39.42 -	1.0000	1.0000
L33	14	MP3-04	39.42 -	1.0000	1.0000
L33	15	MP3-04	39.42 -	1.0000	1.0000
L33	17	CCI-65FP-060100	39.42 -	1.0000	1.0000
L33	18	CCI-65FP-060100	39.42 -	1.0000	1.0000
L33	19	CCI-65FP-060100	39.42 -	1.0000	1.0000
L33	43	HB158-1-08U8-S8J18(1-5/8)	39.42 -	1.0000	1.0000
L33	52	LDF7-50A(1-5/8)	39.42 -	1.0000	1.0000
L34	1	5.75" x 1" Flat Plate (G)	39.42 -	1.0000	1.0000
L34	2	5.75" x 1" Flat Plate (G)	32.50 -	1.0000	1.0000
L34	3	5.75" x 1" Flat Plate (G)	33.33	1.0000	1.0000
L34	5	5.75" x 1" Flat Plate (G)	32.50 -	1.0000	1.0000
L34	6	5.75" x 1" Flat Plate (G)	34.42 -	1.0000	1.0000
L34	7	5.75" x 1" Flat Plate (G)	32.50 -	1.0000	1.0000
L34	13	MP3-04	34.42 -	1.0000	1.0000
L34	14	MP3-04	32.50 -	1.0000	1.0000
L34	15	MP3-04	34.42 -	1.0000	1.0000
L34	17	CCI-65FP-060100	32.50 -	1.0000	1.0000
L34	18	CCI-65FP-060100	34.42 -	1.0000	1.0000
L34	19	CCI-65FP-060100	32.50 -	1.0000	1.0000
L34	43	HB158-1-08U8-S8J18(1-5/8)	34.42 -	1.0000	1.0000
L34	52	LDF7-50A(1-5/8)	32.50 -	1.0000	1.0000
L35	1	5.75" x 1" Flat Plate (G)	34.42 -	1.0000	1.0000
L35	2	5.75" x 1" Flat Plate (G)	32.25 -	1.0000	1.0000
L35	3	5.75" x 1" Flat Plate (G)	32.50 -	1.0000	1.0000
L35	5	5.75" x 1" Flat Plate (G)	32.25 -	1.0000	1.0000
L35	6	5.75" x 1" Flat Plate (G)	32.50 -	1.0000	1.0000
L35	7	5.75" x 1" Flat Plate (G)	32.25 -	1.0000	1.0000
L35	13	MP3-04	32.50 -	1.0000	1.0000
			32.50		

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L35	14	MP3-04	32.25 - 32.50	1.0000	1.0000
L35	15	MP3-04	32.25 - 32.50	1.0000	1.0000
L35	17	CCI-65FP-060100	32.25 - 32.50	1.0000	1.0000
L35	18	CCI-65FP-060100	32.25 - 32.50	1.0000	1.0000
L35	19	CCI-65FP-060100	32.25 - 32.50	1.0000	1.0000
L35	43	HB158-1-08U8-S8J18(1-5/8)	32.25 - 32.50	1.0000	1.0000
L35	52	LDF7-50A(1-5/8)	32.25 - 32.50	1.0000	1.0000
L36	1	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	2	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	3	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	5	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	6	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	7	5.75" x 1" Flat Plate (G)	31.42 - 32.25	1.0000	1.0000
L36	13	MP3-04	31.42 - 32.25	1.0000	1.0000
L36	14	MP3-04	31.42 - 32.25	1.0000	1.0000
L36	15	MP3-04	31.42 - 32.25	1.0000	1.0000
L36	17	CCI-65FP-060100	31.42 - 32.25	1.0000	1.0000
L36	18	CCI-65FP-060100	31.42 - 32.25	1.0000	1.0000
L36	19	CCI-65FP-060100	31.42 - 32.25	1.0000	1.0000
L36	43	HB158-1-08U8-S8J18(1-5/8)	31.42 - 32.25	1.0000	1.0000
L36	52	LDF7-50A(1-5/8)	31.42 - 32.25	1.0000	1.0000
L37	1	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	2	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	3	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	5	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	6	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	7	5.75" x 1" Flat Plate (G)	31.17 - 31.42	1.0000	1.0000
L37	13	MP3-04	31.17 - 31.42	1.0000	1.0000
L37	14	MP3-04	31.17 - 31.42	1.0000	1.0000
L37	15	MP3-04	31.17 - 31.42	1.0000	1.0000
L37	17	CCI-65FP-060100	31.17 - 31.42	1.0000	1.0000
L37	18	CCI-65FP-060100	31.17 - 31.42	1.0000	1.0000
L37	19	CCI-65FP-060100	31.17 - 31.42	1.0000	1.0000
L37	43	HB158-1-08U8-S8J18(1-5/8)	31.17 - 31.42	1.0000	1.0000
L37	52	LDF7-50A(1-5/8)	31.17 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L38	1	5.75" x 1" Flat Plate (G)	31.42 29.00 - 31.17	1.0000	1.0000
L38	2	5.75" x 1" Flat Plate (G)	29.00 - 31.17	1.0000	1.0000
L38	3	5.75" x 1" Flat Plate (G)	29.00 - 31.17	1.0000	1.0000
L38	5	5.75" x 1" Flat Plate (G)	30.58 - 31.17	1.0000	1.0000
L38	6	5.75" x 1" Flat Plate (G)	30.58 - 31.17	1.0000	1.0000
L38	7	5.75" x 1" Flat Plate (G)	30.58 - 31.17	1.0000	1.0000
L38	13	MP3-04	29.00 - 31.17	1.0000	1.0000
L38	14	MP3-04	29.00 - 31.17	1.0000	1.0000
L38	15	MP3-04	29.00 - 31.17	1.0000	1.0000
L38	17	CCI-65FP-060100	29.00 - 31.17	1.0000	1.0000
L38	18	CCI-65FP-060100	29.00 - 31.17	1.0000	1.0000
L38	19	CCI-65FP-060100	29.00 - 31.17	1.0000	1.0000
L38	37	CCI-65FP-060100	29.00 - 31.00	1.0000	1.0000
L38	38	CCI-65FP-060100	29.00 - 31.00	1.0000	1.0000
L38	43	HB158-1-08U8-S8J18(1-5/8)	29.00 - 31.17	1.0000	1.0000
L38	52	LDF7-50A(1-5/8)	29.00 - 31.17	1.0000	1.0000
L39	1	5.75" x 1" Flat Plate (G)	28.65 - 29.00	1.0000	1.0000
L39	2	5.75" x 1" Flat Plate (G)	28.65 - 29.00	1.0000	1.0000
L39	3	5.75" x 1" Flat Plate (G)	28.65 - 29.00	1.0000	1.0000
L39	13	MP3-04	28.65 - 29.00	1.0000	1.0000
L39	14	MP3-04	28.65 - 29.00	1.0000	1.0000
L39	15	MP3-04	28.65 - 29.00	1.0000	1.0000
L39	17	CCI-65FP-060100	28.65 - 29.00	1.0000	1.0000
L39	18	CCI-65FP-060100	28.65 - 29.00	1.0000	1.0000
L39	19	CCI-65FP-060100	28.65 - 29.00	1.0000	1.0000
L39	37	CCI-65FP-060100	28.65 - 29.00	1.0000	1.0000
L39	38	CCI-65FP-060100	28.65 - 29.00	1.0000	1.0000
L39	43	HB158-1-08U8-S8J18(1-5/8)	28.65 - 29.00	1.0000	1.0000
L39	52	LDF7-50A(1-5/8)	28.65 - 29.00	1.0000	1.0000
L40	1	5.75" x 1" Flat Plate (G)	28.42 - 28.65	1.0000	1.0000
L40	2	5.75" x 1" Flat Plate (G)	28.42 - 28.65	1.0000	1.0000
L40	3	5.75" x 1" Flat Plate (G)	28.42 - 28.65	1.0000	1.0000
L40	13	MP3-04	28.42 - 28.65	1.0000	1.0000
L40	14	MP3-04	28.42 - 28.65	1.0000	1.0000



Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L40	15	MP3-04	28.42 - 28.65	1.0000	1.0000
L40	17	CCI-65FP-060100	28.42 - 28.65	1.0000	1.0000
L40	18	CCI-65FP-060100	28.42 - 28.65	1.0000	1.0000
L40	19	CCI-65FP-060100	28.42 - 28.65	1.0000	1.0000
L40	37	CCI-65FP-060100	28.42 - 28.65	1.0000	1.0000
L40	38	CCI-65FP-060100	28.42 - 28.65	1.0000	1.0000
L40	43	HB158-1-08U8-S8J18(1-5/8)	28.42 - 28.65	1.0000	1.0000
L40	52	LDF7-50A(1-5/8)	28.42 - 28.65	1.0000	1.0000
L41	1	5.75" x 1" Flat Plate (G)	23.50 - 28.42	1.0000	1.0000
L41	2	5.75" x 1" Flat Plate (G)	23.50 - 28.42	1.0000	1.0000
L41	3	5.75" x 1" Flat Plate (G)	23.50 - 28.42	1.0000	1.0000
L41	13	MP3-04	23.50 - 28.42	1.0000	1.0000
L41	14	MP3-04	23.50 - 28.42	1.0000	1.0000
L41	15	MP3-04	23.50 - 28.42	1.0000	1.0000
L41	17	CCI-65FP-060100	26.67 - 28.42	1.0000	1.0000
L41	18	CCI-65FP-060100	26.67 - 28.42	1.0000	1.0000
L41	19	CCI-65FP-060100	26.67 - 28.42	1.0000	1.0000
L41	21	CCI-65FP-060100	23.50 - 25.50	1.0000	1.0000
L41	22	CCI-65FP-060100	23.50 - 25.50	1.0000	1.0000
L41	23	CCI-65FP-060100	23.50 - 25.50	1.0000	1.0000
L41	37	CCI-65FP-060100	23.50 - 28.42	1.0000	1.0000
L41	38	CCI-65FP-060100	23.50 - 28.42	1.0000	1.0000
L41	43	HB158-1-08U8-S8J18(1-5/8)	23.50 - 28.42	1.0000	1.0000
L41	52	LDF7-50A(1-5/8)	23.50 - 28.42	1.0000	1.0000
L42	1	5.75" x 1" Flat Plate (G)	23.25 - 23.50	1.0000	1.0000
L42	2	5.75" x 1" Flat Plate (G)	23.25 - 23.50	1.0000	1.0000
L42	3	5.75" x 1" Flat Plate (G)	23.25 - 23.50	1.0000	1.0000
L42	13	MP3-04	23.25 - 23.50	1.0000	1.0000
L42	14	MP3-04	23.25 - 23.50	1.0000	1.0000
L42	15	MP3-04	23.25 - 23.50	1.0000	1.0000
L42	21	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	22	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	23	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	37	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000
L42	38	CCI-65FP-060100	23.25 - 23.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L42	43	HB158-1-08U8-S8J18(1-5/8)	23.50 23.25 -	1.0000	1.0000
L42	52	LDF7-50A(1-5/8)	23.50 23.25 -	1.0000	1.0000
L43	1	5.75" x 1" Flat Plate (G)	23.50 23.00 -	1.0000	1.0000
L43	2	5.75" x 1" Flat Plate (G)	23.25 23.00 -	1.0000	1.0000
L43	3	5.75" x 1" Flat Plate (G)	23.25 23.00 -	1.0000	1.0000
L43	13	MP3-04	23.25 23.00 -	1.0000	1.0000
L43	14	MP3-04	23.25 23.00 -	1.0000	1.0000
L43	15	MP3-04	23.25 23.00 -	1.0000	1.0000
L43	21	CCI-65FP-060100	23.25 23.00 -	1.0000	1.0000
L43	22	CCI-65FP-060100	23.25 23.00 -	1.0000	1.0000
L43	23	CCI-65FP-060100	23.25 23.00 -	1.0000	1.0000
L43	37	CCI-65FP-060100	23.25 23.00 -	1.0000	1.0000
L43	38	CCI-65FP-060100	23.25 23.00 -	1.0000	1.0000
L43	43	HB158-1-08U8-S8J18(1-5/8)	23.25 23.00 -	1.0000	1.0000
L43	52	LDF7-50A(1-5/8)	23.25 23.00 -	1.0000	1.0000
L44	1	5.75" x 1" Flat Plate (G)	23.25 22.75 -	1.0000	1.0000
L44	2	5.75" x 1" Flat Plate (G)	23.00 22.75 -	1.0000	1.0000
L44	3	5.75" x 1" Flat Plate (G)	23.00 22.75 -	1.0000	1.0000
L44	13	MP3-04	23.00 22.75 -	1.0000	1.0000
L44	14	MP3-04	23.00 22.75 -	1.0000	1.0000
L44	15	MP3-04	23.00 22.75 -	1.0000	1.0000
L44	21	CCI-65FP-060100	23.00 22.75 -	1.0000	1.0000
L44	22	CCI-65FP-060100	23.00 22.75 -	1.0000	1.0000
L44	23	CCI-65FP-060100	23.00 22.75 -	1.0000	1.0000
L44	37	CCI-65FP-060100	23.00 22.75 -	1.0000	1.0000
L44	38	CCI-65FP-060100	23.00 22.75 -	1.0000	1.0000
L44	43	HB158-1-08U8-S8J18(1-5/8)	23.00 22.75 -	1.0000	1.0000
L44	52	LDF7-50A(1-5/8)	23.00 22.75 -	1.0000	1.0000
L45	1	5.75" x 1" Flat Plate (G)	23.00 17.75 -	1.0000	1.0000
L45	2	5.75" x 1" Flat Plate (G)	22.75 17.75 -	1.0000	1.0000
L45	3	5.75" x 1" Flat Plate (G)	22.75 17.75 -	1.0000	1.0000
L45	13	MP3-04	22.75 17.75 -	1.0000	1.0000
L45	14	MP3-04	22.75 17.75 -	1.0000	1.0000
L45	15	MP3-04	22.75 17.75 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
L45	21	CCI-65FP-060100	17.75 - 22.75	1.0000	1.0000
L45	22	CCI-65FP-060100	17.75 - 22.75	1.0000	1.0000
L45	23	CCI-65FP-060100	17.75 - 22.75	1.0000	1.0000
L45	37	CCI-65FP-060100	21.00 - 22.75	1.0000	1.0000
L45	38	CCI-65FP-060100	21.00 - 22.75	1.0000	1.0000
L45	43	HB158-1-08U8-S8J18(1-5/8)	17.75 - 22.75	1.0000	1.0000
L45	52	LDF7-50A(1-5/8)	17.75 - 22.75	1.0000	1.0000
L46	1	5.75" x 1" Flat Plate (G)	12.75 - 17.75	1.0000	1.0000
L46	2	5.75" x 1" Flat Plate (G)	12.75 - 17.75	1.0000	1.0000
L46	3	5.75" x 1" Flat Plate (G)	12.75 - 17.75	1.0000	1.0000
L46	13	MP3-04	12.75 - 17.75	1.0000	1.0000
L46	14	MP3-04	12.75 - 17.75	1.0000	1.0000
L46	15	MP3-04	12.75 - 17.75	1.0000	1.0000
L46	21	CCI-65FP-060100	12.75 - 17.75	1.0000	1.0000
L46	22	CCI-65FP-060100	12.75 - 17.75	1.0000	1.0000
L46	23	CCI-65FP-060100	12.75 - 17.75	1.0000	1.0000
L46	43	HB158-1-08U8-S8J18(1-5/8)	12.75 - 17.75	1.0000	1.0000
L46	52	LDF7-50A(1-5/8)	12.75 - 17.75	1.0000	1.0000
L47	1	5.75" x 1" Flat Plate (G)	7.75 - 12.75	1.0000	1.0000
L47	2	5.75" x 1" Flat Plate (G)	7.75 - 12.75	1.0000	1.0000
L47	3	5.75" x 1" Flat Plate (G)	7.75 - 12.75	1.0000	1.0000
L47	13	MP3-04	7.75 - 12.75	1.0000	1.0000
L47	14	MP3-04	7.75 - 12.75	1.0000	1.0000
L47	15	MP3-04	7.75 - 12.75	1.0000	1.0000
L47	21	CCI-65FP-060100	7.75 - 12.75	1.0000	1.0000
L47	22	CCI-65FP-060100	7.75 - 12.75	1.0000	1.0000
L47	23	CCI-65FP-060100	7.75 - 12.75	1.0000	1.0000
L47	43	HB158-1-08U8-S8J18(1-5/8)	7.75 - 12.75	1.0000	1.0000
L47	52	LDF7-50A(1-5/8)	7.75 - 12.75	1.0000	1.0000
L48	1	5.75" x 1" Flat Plate (G)	2.75 - 7.75	1.0000	1.0000
L48	2	5.75" x 1" Flat Plate (G)	2.75 - 7.75	1.0000	1.0000
L48	3	5.75" x 1" Flat Plate (G)	2.75 - 7.75	1.0000	1.0000
L48	13	MP3-04	2.75 - 7.75	1.0000	1.0000
L48	14	MP3-04	2.75 - 7.75	1.0000	1.0000
L48	15	MP3-04	2.75 - 7.75	1.0000	1.0000
L48	21	CCI-65FP-060100	2.75 - 7.75	1.0000	1.0000
L48	22	CCI-65FP-060100	2.75 - 7.75	1.0000	1.0000
L48	23	CCI-65FP-060100	2.75 - 7.75	1.0000	1.0000
L48	43	HB158-1-08U8-S8J18(1-5/8)	2.75 - 7.75	1.0000	1.0000
L48	52	LDF7-50A(1-5/8)	2.75 - 7.75	1.0000	1.0000
L49	1	5.75" x 1" Flat Plate (G)	0.50 - 2.75	1.0000	1.0000
L49	2	5.75" x 1" Flat Plate (G)	0.50 - 2.75	1.0000	1.0000
L49	3	5.75" x 1" Flat Plate (G)	0.50 - 2.75	1.0000	1.0000
L49	13	MP3-04	0.50 - 2.75	1.0000	1.0000
L49	14	MP3-04	0.50 - 2.75	1.0000	1.0000
L49	15	MP3-04	0.50 - 2.75	1.0000	1.0000
L49	21	CCI-65FP-060100	0.50 - 2.75	1.0000	1.0000
L49	22	CCI-65FP-060100	0.50 - 2.75	1.0000	1.0000
L49	23	CCI-65FP-060100	0.50 - 2.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
L49	43	HB158-1-08U8-S8J18(1-5/8)	0.00 - 2.75	1.0000	1.0000
L49	52	LDF7-50A(1-5/8)	0.00 - 2.75	1.0000	1.0000

### Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L5	33	CCI-65FP-045100	115.00 - 117.00	Manual	1.0000
L5	34	CCI-65FP-045100	115.00 - 117.00	Manual	1.0000
L5	35	CCI-65FP-045100	115.00 - 117.00	Manual	1.0000
L6	33	CCI-65FP-045100	114.75 - 115.00	Manual	1.0000
L6	34	CCI-65FP-045100	114.75 - 115.00	Manual	1.0000
L6	35	CCI-65FP-045100	114.75 - 115.00	Manual	1.0000
L7	33	CCI-65FP-045100	109.75 - 114.75	Manual	1.0000
L7	34	CCI-65FP-045100	109.75 - 114.75	Manual	1.0000
L7	35	CCI-65FP-045100	109.75 - 114.75	Manual	1.0000
L8	33	CCI-65FP-045100	104.75 - 109.75	Manual	1.0000
L8	34	CCI-65FP-045100	104.75 - 109.75	Manual	1.0000
L8	35	CCI-65FP-045100	104.75 - 109.75	Manual	1.0000
L9	33	CCI-65FP-045100	102.00 - 104.75	Manual	1.0000
L9	34	CCI-65FP-045100	102.00 - 104.75	Manual	1.0000
L9	35	CCI-65FP-045100	102.00 - 104.75	Manual	1.0000
L12	29	CCI-65FP-060100	91.33 - 93.00	Manual	1.0000
L12	30	CCI-65FP-060100	91.33 - 93.00	Manual	1.0000
L12	31	CCI-65FP-060100	91.33 - 93.00	Manual	1.0000
L13	29	CCI-65FP-060100	91.00 - 91.33	Manual	1.0000
L13	30	CCI-65FP-060100	91.00 - 91.33	Manual	1.0000
L13	31	CCI-65FP-060100	91.00 - 91.33	Manual	1.0000
L14	29	CCI-65FP-060100	90.75 - 91.00	Manual	1.0000
L14	30	CCI-65FP-060100	90.75 - 91.00	Manual	1.0000
L14	31	CCI-65FP-060100	90.75 - 91.00	Manual	1.0000
L15	29	CCI-65FP-060100	85.75 - 90.75	Manual	1.0000
L15	30	CCI-65FP-060100	85.75 -	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L15	31	CCI-65FP-060100	90.75 85.75 - 90.75	Manual	1.0000
L16	29	CCI-65FP-060100	80.75 - 85.75	Manual	1.0000
L16	30	CCI-65FP-060100	80.75 - 85.75	Manual	1.0000
L16	31	CCI-65FP-060100	80.75 - 85.75	Manual	1.0000
L17	29	CCI-65FP-060100	75.75 - 80.75	Manual	1.0000
L17	30	CCI-65FP-060100	75.75 - 80.75	Manual	1.0000
L17	31	CCI-65FP-060100	75.75 - 80.75	Manual	1.0000
L18	9	5.75" x 1" Flat Plate (G)	70.75 - 72.00	Manual	1.0000
L18	10	5.75" x 1" Flat Plate (G)	70.75 - 72.00	Manual	1.0000
L18	11	5.75" x 1" Flat Plate (G)	70.75 - 72.00	Manual	1.0000
L18	29	CCI-65FP-060100	70.75 - 75.75	Manual	1.0000
L18	30	CCI-65FP-060100	70.75 - 75.75	Manual	1.0000
L18	31	CCI-65FP-060100	70.75 - 75.75	Manual	1.0000
L19	9	5.75" x 1" Flat Plate (G)	69.98 - 70.75	Manual	1.0000
L19	10	5.75" x 1" Flat Plate (G)	69.98 - 70.75	Manual	1.0000
L19	11	5.75" x 1" Flat Plate (G)	69.98 - 70.75	Manual	1.0000
L19	29	CCI-65FP-060100	69.98 - 70.75	Manual	1.0000
L19	30	CCI-65FP-060100	69.98 - 70.75	Manual	1.0000
L19	31	CCI-65FP-060100	69.98 - 70.75	Manual	1.0000
L20	9	5.75" x 1" Flat Plate (G)	69.73 - 69.98	Manual	1.0000
L20	10	5.75" x 1" Flat Plate (G)	69.73 - 69.98	Manual	1.0000
L20	11	5.75" x 1" Flat Plate (G)	69.73 - 69.98	Manual	1.0000
L20	29	CCI-65FP-060100	69.73 - 69.98	Manual	1.0000
L20	30	CCI-65FP-060100	69.73 - 69.98	Manual	1.0000
L20	31	CCI-65FP-060100	69.73 - 69.98	Manual	1.0000
L21	9	5.75" x 1" Flat Plate (G)	64.73 - 69.73	Manual	1.0000
L21	10	5.75" x 1" Flat Plate (G)	64.73 - 69.73	Manual	1.0000
L21	11	5.75" x 1" Flat Plate (G)	64.73 - 69.73	Manual	1.0000
L21	25	CCI-65FP-060100	64.73 - 65.00	Manual	1.0000
L21	26	CCI-65FP-060100	64.73 - 65.00	Manual	1.0000
L21	27	CCI-65FP-060100	64.73 - 65.00	Manual	1.0000
L21	29	CCI-65FP-060100	68.00 - 69.73	Manual	1.0000
L21	30	CCI-65FP-060100	68.00 - 69.73	Manual	1.0000
L21	31	CCI-65FP-060100	68.00 - 69.73	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L22	9	5.75" x 1" Flat Plate (G)	69.73 63.00 - 64.73	Manual	1.0000
L22	10	5.75" x 1" Flat Plate (G)	63.00 - 64.73	Manual	1.0000
L22	11	5.75" x 1" Flat Plate (G)	63.00 - 64.73	Manual	1.0000
L22	25	CCI-65FP-060100	63.00 - 64.73	Manual	1.0000
L22	26	CCI-65FP-060100	63.00 - 64.73	Manual	1.0000
L22	27	CCI-65FP-060100	63.00 - 64.73	Manual	1.0000
L23	9	5.75" x 1" Flat Plate (G)	62.75 - 63.00	Manual	1.0000
L23	10	5.75" x 1" Flat Plate (G)	62.75 - 63.00	Manual	1.0000
L23	11	5.75" x 1" Flat Plate (G)	62.75 - 63.00	Manual	1.0000
L23	25	CCI-65FP-060100	62.75 - 63.00	Manual	1.0000
L23	26	CCI-65FP-060100	62.75 - 63.00	Manual	1.0000
L23	27	CCI-65FP-060100	62.75 - 63.00	Manual	1.0000
L24	9	5.75" x 1" Flat Plate (G)	59.08 - 62.75	Manual	1.0000
L24	10	5.75" x 1" Flat Plate (G)	59.08 - 62.75	Manual	1.0000
L24	11	5.75" x 1" Flat Plate (G)	59.08 - 62.75	Manual	1.0000
L24	13	MP3-04	59.08 - 60.50	Manual	1.0000
L24	14	MP3-04	59.08 - 60.50	Manual	1.0000
L24	15	MP3-04	59.08 - 60.50	Manual	1.0000
L24	25	CCI-65FP-060100	59.08 - 62.75	Manual	1.0000
L24	26	CCI-65FP-060100	59.08 - 62.75	Manual	1.0000
L24	27	CCI-65FP-060100	59.08 - 62.75	Manual	1.0000
L25	9	5.75" x 1" Flat Plate (G)	58.82 - 59.08	Manual	1.0000
L25	10	5.75" x 1" Flat Plate (G)	58.82 - 59.08	Manual	1.0000
L25	11	5.75" x 1" Flat Plate (G)	58.82 - 59.08	Manual	1.0000
L25	13	MP3-04	58.82 - 59.08	Manual	1.0000
L25	14	MP3-04	58.82 - 59.08	Manual	1.0000
L25	15	MP3-04	58.82 - 59.08	Manual	1.0000
L25	25	CCI-65FP-060100	58.82 - 59.08	Manual	1.0000
L25	26	CCI-65FP-060100	58.82 - 59.08	Manual	1.0000
L25	27	CCI-65FP-060100	58.82 - 59.08	Manual	1.0000
L26	9	5.75" x 1" Flat Plate (G)	58.67 - 58.82	Manual	1.0000
L26	10	5.75" x 1" Flat Plate (G)	58.67 - 58.82	Manual	1.0000
L26	11	5.75" x 1" Flat Plate (G)	58.67 - 58.82	Manual	1.0000
L26	13	MP3-04	58.67 -	Manual	1.0000



Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L26	14	MP3-04	58.82 58.67 - 58.82	Manual	1.0000
L26	15	MP3-04	58.67 - 58.82	Manual	1.0000
L26	25	CCI-65FP-060100	58.67 - 58.82	Manual	1.0000
L26	26	CCI-65FP-060100	58.67 - 58.82	Manual	1.0000
L26	27	CCI-65FP-060100	58.67 - 58.82	Manual	1.0000
L27	9	5.75" x 1" Flat Plate (G)	57.00 - 58.67	Manual	1.0000
L27	10	5.75" x 1" Flat Plate (G)	57.00 - 58.67	Manual	1.0000
L27	11	5.75" x 1" Flat Plate (G)	57.00 - 58.67	Manual	1.0000
L27	13	MP3-04	53.67 - 58.67	Manual	1.0000
L27	14	MP3-04	53.67 - 58.67	Manual	1.0000
L27	15	MP3-04	53.67 - 58.67	Manual	1.0000
L27	25	CCI-65FP-060100	53.67 - 58.67	Manual	1.0000
L27	26	CCI-65FP-060100	53.67 - 58.67	Manual	1.0000
L27	27	CCI-65FP-060100	53.67 - 58.67	Manual	1.0000
L28	5	5.75" x 1" Flat Plate (G)	48.58 - 50.58	Manual	1.0000
L28	6	5.75" x 1" Flat Plate (G)	48.58 - 50.58	Manual	1.0000
L28	7	5.75" x 1" Flat Plate (G)	48.58 - 50.58	Manual	1.0000
L28	13	MP3-04	48.58 - 53.67	Manual	1.0000
L28	14	MP3-04	48.58 - 53.67	Manual	1.0000
L28	15	MP3-04	48.58 - 53.67	Manual	1.0000
L28	25	CCI-65FP-060100	50.00 - 53.67	Manual	1.0000
L28	26	CCI-65FP-060100	50.00 - 53.67	Manual	1.0000
L28	27	CCI-65FP-060100	50.00 - 53.67	Manual	1.0000
L29	5	5.75" x 1" Flat Plate (G)	47.58 - 48.58	Manual	1.0000
L29	6	5.75" x 1" Flat Plate (G)	47.58 - 48.58	Manual	1.0000
L29	7	5.75" x 1" Flat Plate (G)	47.58 - 48.58	Manual	1.0000
L29	13	MP3-04	47.58 - 48.58	Manual	1.0000
L29	14	MP3-04	47.58 - 48.58	Manual	1.0000
L29	15	MP3-04	47.58 - 48.58	Manual	1.0000
L30	5	5.75" x 1" Flat Plate (G)	42.58 - 47.58	Manual	1.0000
L30	6	5.75" x 1" Flat Plate (G)	42.58 - 47.58	Manual	1.0000
L30	7	5.75" x 1" Flat Plate (G)	42.58 - 47.58	Manual	1.0000
L30	13	MP3-04	42.58 - 47.58	Manual	1.0000
L30	14	MP3-04	42.58 -	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L30	15	MP3-04	47.58 42.58 - 47.58	Manual	1.0000
L31	5	5.75" x 1" Flat Plate (G)	39.67 - 42.58	Manual	1.0000
L31	6	5.75" x 1" Flat Plate (G)	39.67 - 42.58	Manual	1.0000
L31	7	5.75" x 1" Flat Plate (G)	39.67 - 42.58	Manual	1.0000
L31	13	MP3-04	39.67 - 42.58	Manual	1.0000
L31	14	MP3-04	39.67 - 42.58	Manual	1.0000
L31	15	MP3-04	39.67 - 42.58	Manual	1.0000
L31	17	CCI-65FP-060100	39.67 - 41.67	Manual	1.0000
L31	18	CCI-65FP-060100	39.67 - 41.67	Manual	1.0000
L31	19	CCI-65FP-060100	39.67 - 41.67	Manual	1.0000
L32	5	5.75" x 1" Flat Plate (G)	39.42 - 39.67	Manual	1.0000
L32	6	5.75" x 1" Flat Plate (G)	39.42 - 39.67	Manual	1.0000
L32	7	5.75" x 1" Flat Plate (G)	39.42 - 39.67	Manual	1.0000
L32	13	MP3-04	39.42 - 39.67	Manual	1.0000
L32	14	MP3-04	39.42 - 39.67	Manual	1.0000
L32	15	MP3-04	39.42 - 39.67	Manual	1.0000
L32	17	CCI-65FP-060100	39.42 - 39.67	Manual	1.0000
L32	18	CCI-65FP-060100	39.42 - 39.67	Manual	1.0000
L32	19	CCI-65FP-060100	39.42 - 39.67	Manual	1.0000
L33	5	5.75" x 1" Flat Plate (G)	34.42 - 39.42	Manual	1.0000
L33	6	5.75" x 1" Flat Plate (G)	34.42 - 39.42	Manual	1.0000
L33	7	5.75" x 1" Flat Plate (G)	34.42 - 39.42	Manual	1.0000
L33	13	MP3-04	34.42 - 39.42	Manual	1.0000
L33	14	MP3-04	34.42 - 39.42	Manual	1.0000
L33	15	MP3-04	34.42 - 39.42	Manual	1.0000
L33	17	CCI-65FP-060100	34.42 - 39.42	Manual	1.0000
L33	18	CCI-65FP-060100	34.42 - 39.42	Manual	1.0000
L33	19	CCI-65FP-060100	34.42 - 39.42	Manual	1.0000
L34	1	5.75" x 1" Flat Plate (G)	32.50 - 33.33	Manual	1.0000
L34	2	5.75" x 1" Flat Plate (G)	32.50 - 33.33	Manual	1.0000
L34	3	5.75" x 1" Flat Plate (G)	32.50 - 33.33	Manual	1.0000
L34	5	5.75" x 1" Flat Plate (G)	32.50 - 34.42	Manual	1.0000
L34	6	5.75" x 1" Flat Plate (G)	32.50 - 34.42	Manual	1.0000
L34	7	5.75" x 1" Flat Plate (G)	32.50 -	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L34	13	MP3-04	34.42 32.50 - 34.42	Manual	1.0000
L34	14	MP3-04	32.50 - 34.42	Manual	1.0000
L34	15	MP3-04	32.50 - 34.42	Manual	1.0000
L34	17	CCI-65FP-060100	32.50 - 34.42	Manual	1.0000
L34	18	CCI-65FP-060100	32.50 - 34.42	Manual	1.0000
L34	19	CCI-65FP-060100	32.50 - 34.42	Manual	1.0000
L35	1	5.75" x 1" Flat Plate (G)	32.25 - 32.50	Manual	1.0000
L35	2	5.75" x 1" Flat Plate (G)	32.25 - 32.50	Manual	1.0000
L35	3	5.75" x 1" Flat Plate (G)	32.25 - 32.50	Manual	1.0000
L35	5	5.75" x 1" Flat Plate (G)	32.25 - 32.50	Manual	1.0000
L35	6	5.75" x 1" Flat Plate (G)	32.25 - 32.50	Manual	1.0000
L35	7	5.75" x 1" Flat Plate (G)	32.25 - 32.50	Manual	1.0000
L35	13	MP3-04	32.25 - 32.50	Manual	1.0000
L35	14	MP3-04	32.25 - 32.50	Manual	1.0000
L35	15	MP3-04	32.25 - 32.50	Manual	1.0000
L35	17	CCI-65FP-060100	32.25 - 32.50	Manual	1.0000
L35	18	CCI-65FP-060100	32.25 - 32.50	Manual	1.0000
L35	19	CCI-65FP-060100	32.25 - 32.50	Manual	1.0000
L36	1	5.75" x 1" Flat Plate (G)	31.42 - 32.25	Manual	1.0000
L36	2	5.75" x 1" Flat Plate (G)	31.42 - 32.25	Manual	1.0000
L36	3	5.75" x 1" Flat Plate (G)	31.42 - 32.25	Manual	1.0000
L36	5	5.75" x 1" Flat Plate (G)	31.42 - 32.25	Manual	1.0000
L36	6	5.75" x 1" Flat Plate (G)	31.42 - 32.25	Manual	1.0000
L36	7	5.75" x 1" Flat Plate (G)	31.42 - 32.25	Manual	1.0000
L36	13	MP3-04	31.42 - 32.25	Manual	1.0000
L36	14	MP3-04	31.42 - 32.25	Manual	1.0000
L36	15	MP3-04	31.42 - 32.25	Manual	1.0000
L36	17	CCI-65FP-060100	31.42 - 32.25	Manual	1.0000
L36	18	CCI-65FP-060100	31.42 - 32.25	Manual	1.0000
L36	19	CCI-65FP-060100	31.42 - 32.25	Manual	1.0000
L37	1	5.75" x 1" Flat Plate (G)	31.17 - 31.42	Manual	1.0000
L37	2	5.75" x 1" Flat Plate (G)	31.17 - 31.42	Manual	1.0000
L37	3	5.75" x 1" Flat Plate (G)	31.17 - 31.42	Manual	1.0000
L37	5	5.75" x 1" Flat Plate (G)	31.17 -	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L37	6	5.75" x 1" Flat Plate (G)	31.42 31.17 - 31.42	Manual	1.0000
L37	7	5.75" x 1" Flat Plate (G)	31.17 - 31.42	Manual	1.0000
L37	13	MP3-04	31.17 - 31.42	Manual	1.0000
L37	14	MP3-04	31.17 - 31.42	Manual	1.0000
L37	15	MP3-04	31.17 - 31.42	Manual	1.0000
L37	17	CCI-65FP-060100	31.17 - 31.42	Manual	1.0000
L37	18	CCI-65FP-060100	31.17 - 31.42	Manual	1.0000
L37	19	CCI-65FP-060100	31.17 - 31.42	Manual	1.0000
L38	1	5.75" x 1" Flat Plate (G)	29.00 - 31.17	Manual	1.0000
L38	2	5.75" x 1" Flat Plate (G)	29.00 - 31.17	Manual	1.0000
L38	3	5.75" x 1" Flat Plate (G)	29.00 - 31.17	Manual	1.0000
L38	5	5.75" x 1" Flat Plate (G)	30.58 - 31.17	Manual	1.0000
L38	6	5.75" x 1" Flat Plate (G)	30.58 - 31.17	Manual	1.0000
L38	7	5.75" x 1" Flat Plate (G)	30.58 - 31.17	Manual	1.0000
L38	13	MP3-04	29.00 - 31.17	Manual	1.0000
L38	14	MP3-04	29.00 - 31.17	Manual	1.0000
L38	15	MP3-04	29.00 - 31.17	Manual	1.0000
L38	17	CCI-65FP-060100	29.00 - 31.17	Manual	1.0000
L38	18	CCI-65FP-060100	29.00 - 31.17	Manual	1.0000
L38	19	CCI-65FP-060100	29.00 - 31.17	Manual	1.0000
L38	37	CCI-65FP-060100	29.00 - 31.00	Manual	1.0000
L38	38	CCI-65FP-060100	29.00 - 31.00	Manual	1.0000
L39	1	5.75" x 1" Flat Plate (G)	28.65 - 29.00	Manual	1.0000
L39	2	5.75" x 1" Flat Plate (G)	28.65 - 29.00	Manual	1.0000
L39	3	5.75" x 1" Flat Plate (G)	28.65 - 29.00	Manual	1.0000
L39	13	MP3-04	28.65 - 29.00	Manual	1.0000
L39	14	MP3-04	28.65 - 29.00	Manual	1.0000
L39	15	MP3-04	28.65 - 29.00	Manual	1.0000
L39	17	CCI-65FP-060100	28.65 - 29.00	Manual	1.0000
L39	18	CCI-65FP-060100	28.65 - 29.00	Manual	1.0000
L39	19	CCI-65FP-060100	28.65 - 29.00	Manual	1.0000
L39	37	CCI-65FP-060100	28.65 - 29.00	Manual	1.0000
L39	38	CCI-65FP-060100	28.65 - 29.00	Manual	1.0000
L40	1	5.75" x 1" Flat Plate (G)	28.42 -	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L40	2	5.75" x 1" Flat Plate (G)	28.65 28.42 - 28.65	Manual	1.0000
L40	3	5.75" x 1" Flat Plate (G)	28.42 - 28.65	Manual	1.0000
L40	13	MP3-04	28.42 - 28.65	Manual	1.0000
L40	14	MP3-04	28.42 - 28.65	Manual	1.0000
L40	15	MP3-04	28.42 - 28.65	Manual	1.0000
L40	17	CCI-65FP-060100	28.42 - 28.65	Manual	1.0000
L40	18	CCI-65FP-060100	28.42 - 28.65	Manual	1.0000
L40	19	CCI-65FP-060100	28.42 - 28.65	Manual	1.0000
L40	37	CCI-65FP-060100	28.42 - 28.65	Manual	1.0000
L40	38	CCI-65FP-060100	28.42 - 28.65	Manual	1.0000
L41	1	5.75" x 1" Flat Plate (G)	23.50 - 28.42	Manual	1.0000
L41	2	5.75" x 1" Flat Plate (G)	23.50 - 28.42	Manual	1.0000
L41	3	5.75" x 1" Flat Plate (G)	23.50 - 28.42	Manual	1.0000
L41	13	MP3-04	23.50 - 28.42	Manual	1.0000
L41	14	MP3-04	23.50 - 28.42	Manual	1.0000
L41	15	MP3-04	23.50 - 28.42	Manual	1.0000
L41	17	CCI-65FP-060100	26.67 - 28.42	Manual	1.0000
L41	18	CCI-65FP-060100	26.67 - 28.42	Manual	1.0000
L41	19	CCI-65FP-060100	26.67 - 28.42	Manual	1.0000
L41	21	CCI-65FP-060100	23.50 - 25.50	Manual	1.0000
L41	22	CCI-65FP-060100	23.50 - 25.50	Manual	1.0000
L41	23	CCI-65FP-060100	23.50 - 25.50	Manual	1.0000
L41	37	CCI-65FP-060100	23.50 - 28.42	Manual	1.0000
L41	38	CCI-65FP-060100	23.50 - 28.42	Manual	1.0000
L42	1	5.75" x 1" Flat Plate (G)	23.25 - 23.50	Manual	1.0000
L42	2	5.75" x 1" Flat Plate (G)	23.25 - 23.50	Manual	1.0000
L42	3	5.75" x 1" Flat Plate (G)	23.25 - 23.50	Manual	1.0000
L42	13	MP3-04	23.25 - 23.50	Manual	1.0000
L42	14	MP3-04	23.25 - 23.50	Manual	1.0000
L42	15	MP3-04	23.25 - 23.50	Manual	1.0000
L42	21	CCI-65FP-060100	23.25 - 23.50	Manual	1.0000
L42	22	CCI-65FP-060100	23.25 - 23.50	Manual	1.0000
L42	23	CCI-65FP-060100	23.25 - 23.50	Manual	1.0000
L42	37	CCI-65FP-060100	23.25 -	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L42	38	CCI-65FP-060100	23.50 23.25 - 23.50	Manual	1.0000
L43	1	5.75" x 1" Flat Plate (G)	23.00 - 23.25	Manual	1.0000
L43	2	5.75" x 1" Flat Plate (G)	23.00 - 23.25	Manual	1.0000
L43	3	5.75" x 1" Flat Plate (G)	23.00 - 23.25	Manual	1.0000
L43	13	MP3-04	23.00 - 23.25	Manual	1.0000
L43	14	MP3-04	23.00 - 23.25	Manual	1.0000
L43	15	MP3-04	23.00 - 23.25	Manual	1.0000
L43	21	CCI-65FP-060100	23.00 - 23.25	Manual	1.0000
L43	22	CCI-65FP-060100	23.00 - 23.25	Manual	1.0000
L43	23	CCI-65FP-060100	23.00 - 23.25	Manual	1.0000
L43	37	CCI-65FP-060100	23.00 - 23.25	Manual	1.0000
L43	38	CCI-65FP-060100	23.00 - 23.25	Manual	1.0000
L44	1	5.75" x 1" Flat Plate (G)	22.75 - 23.00	Manual	1.0000
L44	2	5.75" x 1" Flat Plate (G)	22.75 - 23.00	Manual	1.0000
L44	3	5.75" x 1" Flat Plate (G)	22.75 - 23.00	Manual	1.0000
L44	13	MP3-04	22.75 - 23.00	Manual	1.0000
L44	14	MP3-04	22.75 - 23.00	Manual	1.0000
L44	15	MP3-04	22.75 - 23.00	Manual	1.0000
L44	21	CCI-65FP-060100	22.75 - 23.00	Manual	1.0000
L44	22	CCI-65FP-060100	22.75 - 23.00	Manual	1.0000
L44	23	CCI-65FP-060100	22.75 - 23.00	Manual	1.0000
L44	37	CCI-65FP-060100	22.75 - 23.00	Manual	1.0000
L44	38	CCI-65FP-060100	22.75 - 23.00	Manual	1.0000
L45	1	5.75" x 1" Flat Plate (G)	17.75 - 22.75	Manual	1.0000
L45	2	5.75" x 1" Flat Plate (G)	17.75 - 22.75	Manual	1.0000
L45	3	5.75" x 1" Flat Plate (G)	17.75 - 22.75	Manual	1.0000
L45	13	MP3-04	17.75 - 22.75	Manual	1.0000
L45	14	MP3-04	17.75 - 22.75	Manual	1.0000
L45	15	MP3-04	17.75 - 22.75	Manual	1.0000
L45	21	CCI-65FP-060100	17.75 - 22.75	Manual	1.0000
L45	22	CCI-65FP-060100	17.75 - 22.75	Manual	1.0000
L45	23	CCI-65FP-060100	17.75 - 22.75	Manual	1.0000
L45	37	CCI-65FP-060100	21.00 - 22.75	Manual	1.0000
L45	38	CCI-65FP-060100	21.00 -	Manual	1.0000



Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L46	1	5.75" x 1" Flat Plate (G)	22.75 12.75 - 17.75	Manual	1.0000
L46	2	5.75" x 1" Flat Plate (G)	12.75 - 17.75	Manual	1.0000
L46	3	5.75" x 1" Flat Plate (G)	12.75 - 17.75	Manual	1.0000
L46	13	MP3-04	12.75 - 17.75	Manual	1.0000
L46	14	MP3-04	12.75 - 17.75	Manual	1.0000
L46	15	MP3-04	12.75 - 17.75	Manual	1.0000
L46	21	CCI-65FP-060100	12.75 - 17.75	Manual	1.0000
L46	22	CCI-65FP-060100	12.75 - 17.75	Manual	1.0000
L46	23	CCI-65FP-060100	12.75 - 17.75	Manual	1.0000
L47	1	5.75" x 1" Flat Plate (G)	7.75 - 12.75	Manual	1.0000
L47	2	5.75" x 1" Flat Plate (G)	7.75 - 12.75	Manual	1.0000
L47	3	5.75" x 1" Flat Plate (G)	7.75 - 12.75	Manual	1.0000
L47	13	MP3-04	7.75 - 12.75	Manual	1.0000
L47	14	MP3-04	7.75 - 12.75	Manual	1.0000
L47	15	MP3-04	7.75 - 12.75	Manual	1.0000
L47	21	CCI-65FP-060100	7.75 - 12.75	Manual	1.0000
L47	22	CCI-65FP-060100	7.75 - 12.75	Manual	1.0000
L47	23	CCI-65FP-060100	7.75 - 12.75	Manual	1.0000
L48	1	5.75" x 1" Flat Plate (G)	2.75 - 7.75	Manual	1.0000
L48	2	5.75" x 1" Flat Plate (G)	2.75 - 7.75	Manual	1.0000
L48	3	5.75" x 1" Flat Plate (G)	2.75 - 7.75	Manual	1.0000
L48	13	MP3-04	2.75 - 7.75	Manual	1.0000
L48	14	MP3-04	2.75 - 7.75	Manual	1.0000
L48	15	MP3-04	2.75 - 7.75	Manual	1.0000
L48	21	CCI-65FP-060100	2.75 - 7.75	Manual	1.0000
L48	22	CCI-65FP-060100	2.75 - 7.75	Manual	1.0000
L48	23	CCI-65FP-060100	2.75 - 7.75	Manual	1.0000
L49	1	5.75" x 1" Flat Plate (G)	0.50 - 2.75	Manual	1.0000
L49	2	5.75" x 1" Flat Plate (G)	0.50 - 2.75	Manual	1.0000
L49	3	5.75" x 1" Flat Plate (G)	0.50 - 2.75	Manual	1.0000
L49	13	MP3-04	0.50 - 2.75	Manual	1.0000
L49	14	MP3-04	0.50 - 2.75	Manual	1.0000
L49	15	MP3-04	0.50 - 2.75	Manual	1.0000
L49	21	CCI-65FP-060100	0.50 - 2.75	Manual	1.0000
L49	22	CCI-65FP-060100	0.50 - 2.75	Manual	1.0000
L49	23	CCI-65FP-060100	0.50 - 2.75	Manual	1.0000

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
*** 138 P ***					
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	A	From Leg	4.0000 0.0000 2.0000	0.0000	138.0000
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	B	From Leg	4.0000	0.0000	138.0000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
			0.0000		
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	C	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
MT6407-77A w/ Mount Pipe	A	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
MT6407-77A w/ Mount Pipe	B	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
MT6407-77A w/ Mount Pipe	C	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
(2) QS6656-5D w/ Mount Pipe	A	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
(2) QS6656-5D w/ Mount Pipe	B	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
(2) QS6656-5D w/ Mount Pipe	C	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
(2) DB-T1-6Z-8AB-0Z	A	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
RFV01U-D1A	A	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
RFV01U-D1A	B	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
RFV01U-D1A	C	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
RFV01U-D2A	A	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
RFV01U-D2A	B	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
RFV01U-D2A	C	From Leg	2.0000		
			4.0000	0.0000	138.0000
			0.0000		
Platform Mount [LP 403-1]	C	None	2.0000	0.0000	138.0000
Miscellaneous [NA 510-2]	C	None		0.0000	138.0000
Site Pro 1 PRK-1245L *** 127 ***	C	None		0.0000	138.0000
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	4.0000	0.0000	127.0000
			0.0000		
			2.0000		
HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	4.0000	0.0000	127.0000
			0.0000		
			2.0000		
HPA-65R-BUU-H6 w/ Mount Pipe	C	From Leg	4.0000	0.0000	127.0000
			0.0000		
			2.0000		
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.0000	0.0000	127.0000
			0.0000		
			2.0000		
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.0000	0.0000	127.0000
			0.0000		
			2.0000		
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.0000	0.0000	127.0000
			0.0000		

Description	Face or Leg	Offset Type	Offsets:		
			Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
DMP65R-BU6D	A	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
DMP65R-BU6D	B	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
DMP65R-BU6D	C	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
DC6-48-60-0-8C-EV	A	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
DC6-48-60-0-8C-EV	B	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RADIO 4415 B30	A	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RADIO 4415 B30	B	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RADIO 4415 B30	C	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 4449 B5/B12	A	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 4449 B5/B12	B	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 4449 B5/B12	C	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 32 B2	A	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 32 B2	B	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 32 B2	C	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 4478 B14_CCIV2	A	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 4478 B14_CCIV2	B	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 4478 B14_CCIV2	C	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 32 B66A	A	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 32 B66A	B	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
RRUS 32 B66A	C	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
DC6-48-60-18-8C-EV	C	From Leg	2.0000 4.0000 0.0000	0.0000	127.0000
Sector Mount [SM 503-3]	C	None	2.0000	0.0000	127.0000

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement
			Horz Lateral Vert ft ft ft	°		
Pipe Mount [PM 601-3]	C	None			0.0000	127.0000
(2) Side Arm Mount [SO 102-3] *** 118 ***	C	None			0.0000	127.0000
AIR 32 B2A B66AA w/ Mount Pipe	A	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
AIR 32 B2A B66AA w/ Mount Pipe	B	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
AIR 32 B2A B66AA w/ Mount Pipe	C	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
AIR6449 B41 w/ Mount Pipe	A	From Leg	4.0000 0.0000 2.0000		0.0000	118.0000
AIR6449 B41 w/ Mount Pipe	B	From Leg	4.0000 0.0000 2.0000		0.0000	118.0000
AIR6449 B41 w/ Mount Pipe	C	From Leg	4.0000 0.0000 2.0000		0.0000	118.0000
APX16DWV-16DWVS-E-A20 w/ Mount Pipe	A	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
APX16DWV-16DWVS-E-A20 w/ Mount Pipe	B	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
APX16DWV-16DWVS-E-A20 w/ Mount Pipe	C	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
RRUS 4415 B25	A	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
RRUS 4415 B25	B	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
RRUS 4415 B25	C	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
KRY 112 489/2	A	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
KRY 112 489/2	B	From Leg	4.0000 0.0000 0.0000		0.0000	118.0000
KRY 112 489/2	C	From Leg	4.0000 0.0000		0.0000	118.0000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
KRY 112 144/1	A	From Leg	0.0000 4.0000 0.0000	0.0000	118.0000
KRY 112 144/1	B	From Leg	0.0000 4.0000 0.0000	0.0000	118.0000
KRY 112 144/1	C	From Leg	0.0000 4.0000 0.0000	0.0000	118.0000
(2) Miscellaneous [NA 509-1]	A	From Leg	0.0000 2.0000 0.0000	0.0000	118.0000
(2) Miscellaneous [NA 509-1]	B	From Leg	0.0000 2.0000 0.0000	0.0000	118.0000
(2) Miscellaneous [NA 509-1]	C	From Leg	0.0000 2.0000 0.0000	0.0000	118.0000
10' horizontal x 2" Pipe Mount	A	From Leg	0.0000 4.0000 0.0000	0.0000	118.0000
10' horizontal x 2" Pipe Mount	B	From Leg	0.0000 4.0000 0.0000	0.0000	118.0000
10' horizontal x 2" Pipe Mount	C	From Leg	0.0000 4.0000 0.0000	0.0000	118.0000
T-Arm Mount [TA 602-3]	C	None	0.0000	0.0000	118.0000
(2) Side Arm Mount [SO 102-3] *** 108 R ***	C	None	0.0000	0.0000	118.0000
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
TA08025-B605	A	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
TA08025-B605	B	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
TA08025-B605	C	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
TA08025-B604	A	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
TA08025-B604	B	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
TA08025-B604	C	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
RDIDC-9181-PF-48	A	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
(2) 8' x 2" Mount Pipe	A	From Leg	4.0000 0.0000 0.0000	0.0000	108.0000
(2) 8' x 2" Mount Pipe	B	From Leg	4.0000	0.0000	108.0000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
			0.0000		
(2) 8' x 2" Mount Pipe	C	From Leg	0.0000 4.0000	0.0000	108.0000
Commscope MC-PK8-DSH **	C	None	0.0000 0.0000	0.0000	108.0000
DT465B-2XR w/ Mount Pipe	A	From Leg	4.0000 0.0000	0.0000	73.0000
DT465B-2XR w/ Mount Pipe	B	From Leg	2.0000 4.0000	0.0000	73.0000
DT465B-2XR w/ Mount Pipe	C	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
RRH2x50-800	A	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
RRH2x50-800	B	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
RRH2x50-800	C	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
FZHN	A	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
FZHN	B	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
FZHN	C	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
1900MHZ 4X40W RRH	A	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
1900MHZ 4X40W RRH	B	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
1900MHZ 4X40W RRH	C	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
(2) 6' x 2" Mount Pipe	A	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
(2) 6' x 2" Mount Pipe	B	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
(2) 6' x 2" Mount Pipe	C	From Leg	0.0000 2.0000 4.0000	0.0000	73.0000
Platform Mount [LP 1201-1]	C	None	0.0000	0.0000	73.0000
Miscellaneous [NA 510-1] **	C	None	0.0000	0.0000	73.0000
GPS-TMG-HR-26NCM	C	From Leg	1.0000	0.0000	50.0000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
Pipe Mount [PM 601-1]	C	From Leg	0.0000 0.0000 0.5000 0.0000 0.0000	0.0000	50.0000
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## Load Combinations

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



Comb. No.	Description
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

### Maximum Member Forces

Sectio n No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	140 - 135	Pole	Max Tension	15	0.0000	0.0000	0.0000
			Max. Compression	26	-8.5459	-0.0166	1.1921
			Max. Mx	8	-4.4874	-19.9038	0.4026
			Max. My	2	-4.4066	-0.0066	21.4892
			Max. Vy	8	5.0685	-19.9038	0.4026
			Max. Vx	2	-5.3067	-0.0066	21.4892
			Max. Torque	8			0.6966
L2	135 - 130	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-8.8851	-0.0454	1.2329
			Max. Mx	8	-4.7036	-45.7155	0.4199
			Max. My	2	-4.6218	-0.0168	48.5081
			Max. Vy	8	5.2581	-45.7155	0.4199
			Max. Vx	2	-5.5037	-0.0168	48.5081
			Max. Torque	8			0.6966
L3	130 - 125	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-17.4238	-0.0804	1.2800
			Max. Mx	8	-8.7643	-89.4402	0.4410
			Max. My	2	-8.6317	-0.0303	93.5401
			Max. Vy	8	10.7311	-89.4402	0.4410
			Max. Vx	2	-11.0166	-0.0303	93.5401
			Max. Torque	8			0.6963
L4	125 - 120	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-17.8675	-0.1239	1.3361
			Max. Mx	8	-9.1371	-143.4891	0.4631
			Max. My	2	-9.0080	-0.0466	149.0159
			Max. Vy	8	10.8985	-143.4891	0.4631
			Max. Vx	2	-11.1850	-0.0466	149.0159
			Max. Torque	8			0.6946
L5	120 - 115	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-26.2562	-0.3550	1.5003
			Max. Mx	8	-13.5385	-212.9086	0.5367
			Max. My	2	-13.3312	-0.1409	220.7626
			Max. Vy	8	15.6420	-212.9086	0.5367
			Max. Vx	2	-16.2989	-0.1409	220.7626
			Max. Torque	8			0.6939
L6	115 - 114.75	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-26.3073	-0.3672	1.5091
			Max. Mx	8	-13.5902	-216.8226	0.5407
			Max. My	2	-13.3829	-0.1463	224.8401
			Max. Vy	8	15.6482	-216.8226	0.5407
			Max. Vx	2	-16.3156	-0.1463	224.8401
			Max. Torque	22			-0.6930
L7	114.75 - 109.75	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-27.3317	-0.6112	1.6797
			Max. Mx	8	-14.3263	-296.0863	0.6172
			Max. My	2	-14.0965	-0.2515	307.9271
			Max. Vy	8	16.0291	-296.0863	0.6172
			Max. Vx	2	-16.9099	-0.2515	307.9271
			Max. Torque	22			-0.7446
L8	109.75 - 104.75	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-33.2543	-0.8676	2.1771
			Max. Mx	8	-18.0719	-386.0195	0.8053
			Max. My	2	-17.7981	-0.3631	403.0438
			Max. Vy	8	19.1049	-386.0195	0.8053
			Max. Vx	2	-20.2499	-0.3631	403.0438
			Max. Torque	22			-0.9512

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L9	104.75 - 101.58	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-33.9299	-1.0355	2.2926
			Max. Mx	8	-18.5981	-446.9590	0.8567
			Max. My	2	-18.3165	-0.4361	467.7880
			Max. Vy	8	19.3254	-446.9590	0.8567
			Max. Vx	2	-20.6000	-0.4361	467.7880
L10	101.58 - 101.33	Pole	Max. Torque	22			-0.9881
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-33.9752	-1.0490	2.3020
			Max. Mx	8	-18.6476	-451.7933	0.8608
			Max. My	2	-18.3661	-0.4414	472.9407
			Max. Vy	8	19.3237	-451.7933	0.8608
L11	101.33 - 96.33	Pole	Max. Vx	2	-20.6149	-0.4414	472.9407
			Max. Torque	22			-0.9950
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-34.8944	-1.3190	2.4833
			Max. Mx	8	-19.4530	-548.8297	0.9410
			Max. My	2	-19.1550	-0.5474	577.2282
L12	96.33 - 91.33	Pole	Max. Vy	8	19.4687	-548.8297	0.9410
			Max. Vx	2	-21.0998	-0.5474	577.2282
			Max. Torque	22			-1.1363
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-35.8744	-1.5947	2.6636
			Max. Mx	8	-20.3028	-646.5066	1.0209
L13	91.33 - 91	Pole	Max. My	2	-19.9983	-0.6659	683.8550
			Max. Vy	8	19.5931	-646.5066	1.0209
			Max. Vx	2	-21.5652	-0.6659	683.8550
			Max. Torque	22			-1.2139
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-35.9443	-1.6132	2.6756
L14	91 - 90.75	Pole	Max. Mx	8	-20.3714	-652.9768	1.0261
			Max. My	2	-20.0696	-0.6741	690.9745
			Max. Vy	8	19.5996	-652.9768	1.0261
			Max. Vx	2	-21.5829	-0.6741	690.9745
			Max. Torque	22			-1.2165
			Max Tension	1	0.0000	0.0000	0.0000
L15	90.75 - 85.75	Pole	Max. Compression	26	-36.0157	-1.6273	2.6849
			Max. Mx	8	-20.4318	-657.8834	1.0302
			Max. My	2	-20.1304	-0.6805	696.3755
			Max. Vy	8	19.6163	-657.8834	1.0302
			Max. Vx	2	-21.6087	-0.6805	696.3755
			Max. Torque	22			-1.2185
L16	85.75 - 80.75	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-37.4498	-1.9095	2.8655
			Max. Mx	8	-21.5675	-757.0693	1.1116
			Max. My	2	-21.2638	-0.8081	805.9264
			Max. Vy	8	20.0270	-757.0693	1.1116
			Max. Vx	2	-22.2023	-0.8081	805.9264
L17	80.75 - 75.75	Pole	Max. Torque	22			-1.2601
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-38.9118	-2.1990	3.0489
			Max. Mx	8	-22.7417	-858.2640	1.1945
			Max. My	2	-22.4408	-0.9395	918.3864
			Max. Vy	8	20.4272	-858.2640	1.1945
			Max. Vx	14	22.7821	-0.9395	-915.6429
			Max. Torque	22			-1.3023
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-40.4013	-2.4950	3.2344
			Max. Mx	8	-23.9448	-961.4547	1.2788
			Max. My	2	-23.6502	-1.0746	1033.7208
			Max. Vy	8	20.8254	-961.4547	1.2788
			Max. Vx	14	23.3632	-1.0746	-

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L18	75.75 - 70.75	Pole	Max. Torque	22			1030.8600
			Max Tension	1	0.0000	0.0000	-1.3453
			Max. Compression	26	-48.7128	-2.7995	3.4244
			Max. Mx	8	-29.2899	-	1.3652
			Max. My	2	-28.9906	1074.1816	1159.5151
			Max. Vy	8	23.5845	-1.2146	1.3652
			Max. Vx	14	26.3285	-	-
			Max. Vx	14	26.3285	1074.1816	-1.2146
L19	70.75 - 69.98	Pole	Max. Torque	22			-1.3837
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-48.9702	-2.8474	3.4542
			Max. Mx	8	-29.4940	-	1.3788
			Max. My	2	-29.1969	1092.3739	1179.8084
			Max. Vy	8	23.6430	-1.2367	1.3788
			Max. Vx	14	26.4162	-	-
			Max. Vx	14	26.4162	1092.3739	-1.2367
L20	69.98 - 69.73	Pole	Max. Torque	22			-1.3882
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-49.0540	-2.8633	3.4643
			Max. Mx	8	-29.5662	-	1.3832
			Max. My	2	-29.2711	1098.2907	1186.4123
			Max. Vy	8	23.6553	-1.2439	1.3832
			Max. Vx	14	26.4375	-	-
			Max. Vx	14	26.4375	1098.2907	-1.2439
L21	69.73 - 64.73	Pole	Max. Torque	22			-1.3896
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-50.6802	-3.1770	3.6584
			Max. Mx	8	-30.8774	-	1.4720
			Max. My	2	-30.5938	1217.6245	1319.9641
			Max. Vy	8	24.0470	-1.3888	1.4720
			Max. Vx	14	27.0116	-	-
			Max. Vx	14	27.0116	1217.6245	-1.3888
L22	64.73 - 63	Pole	Max. Torque	22			-1.4295
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-51.2696	-3.2868	3.7259
			Max. Mx	8	-31.3318	-	1.5030
			Max. My	2	-31.0515	1259.3628	1366.8350
			Max. Vy	8	24.1961	-1.4401	1.5030
			Max. Vx	14	27.2252	-	-
			Max. Vx	14	27.2252	1259.3628	-1.4401
L23	63 - 62.75	Pole	Max. Torque	22			-1.4398
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-51.3735	-3.3032	3.7363
			Max. Mx	8	-31.4363	-	1.5075
			Max. My	2	-31.1608	1265.4143	1373.6371
			Max. Vy	8	24.1931	-1.4474	1.5075
			Max. Vx	14	27.2296	-	-
			Max. Vx	14	27.2296	1265.4143	-1.4474
L24	62.75 - 59.08	Pole	Max. Torque	22			-1.4412
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-52.9236	-3.5383	3.8801

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L25	59.08 - 58.82	Pole	Max. Mx	8	-32.6644	-	1.5741
			Max. My	2	-32.3943	1354.9033	1474.4062
			Max. Vy	8	24.5398	-1.5579	1.5741
			Max. Vx	14	27.7166	-	-
			Max. Torque	22		1354.9033	1471.3039
			Max Tension	1	0.0000	-1.5579	-1.4606
			Max. Compression	26	-53.0319	-3.5555	3.8908
			Max. Mx	8	-32.7580	-	1.5788
			Max. My	2	-32.4909	1361.2898	1481.6104
			Max. Vy	8	24.5510	-1.5658	1.5788
L26	58.82 - 58.67	Pole	Max. Vx	14	27.7369	-1.5658	-
			Max. Torque	22			1478.5057
			Max Tension	1	0.0000	0.0000	-1.4617
			Max. Compression	26	-53.0945	-3.5655	3.8972
			Max. Mx	8	-32.8077	-	1.5816
			Max. My	2	-32.5413	1364.9772	1485.7705
			Max. Vy	8	24.5641	-1.5704	1.5816
			Max. Vx	14	27.7557	-	-
			Max. Torque	22			1482.6645
			Max Tension	1	0.0000	0.0000	-1.4624
L27	58.67 - 53.67	Pole	Max. Compression	26	-55.1222	-3.8911	4.0949
			Max. Mx	8	-34.4202	-	1.6737
			Max. My	2	-34.1674	1488.9807	1625.9445
			Max. Vy	8	25.0006	-1.7239	1.6737
			Max. Vx	14	28.3722	-	-
			Max. Torque	24			1622.8420
			Max Tension	1	0.0000	0.0000	-1.4980
			Max. Compression	26	-55.3945	-3.9357	4.1219
			Max. Mx	8	-34.6446	-	1.6863
			Max. My	2	-34.3951	1505.7589	1644.9498
L28	53.67 - 48.58	Pole	Max. Vy	8	25.0502	-1.7450	1.6863
			Max. Vx	14	28.4441	-	-
			Max. Torque	24			1641.8544
			Max Tension	1	0.0000	0.0000	-1.5048
			Max. Compression	26	-58.9907	-4.1178	4.2372
			Max. Mx	8	-37.5772	-	1.7153
			Max. My	2	-37.3340	1643.1855	1800.9920
			Max. Vy	8	25.6562	-1.7892	1.7153
			Max. Vx	14	29.2466	-	-
			Max. Torque	24			1798.1566
L29	48.58 - 47.58	Pole	Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-58.9907	-4.1178	4.2372
			Max. Mx	8	-37.5772	-	1.7153
			Max. My	2	-37.3340	1643.1855	1800.9920
			Max. Vy	8	25.6562	-1.7892	1.7153
			Max. Vx	14	29.2466	-1.7892	-
			Max. Torque	24			1798.1566
			Max Tension	1	0.0000	0.0000	-1.4810
			Max. Compression	26	-61.0109	-4.4525	4.4389
			Max. Mx	8	-39.2323	-	1.8103
L30	47.58 - 42.58	Pole	Max. My	2	-39.0098	1772.4801	1948.2485

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L31	42.58 - 39.67	Pole	Max. Vy	8	26.0368	-	1.8103
			Max. Vx	14	29.7919	1772.4801	-
			Max. Torque	24		-1.9484	1945.5660
			Max Tension	1	0.0000	0.0000	-1.5308
			Max. Compression	26			0.0000
			Max. Mx	8	-62.2350	-4.6492	4.5569
					-40.2048	-	1.8662
			Max. My	2	-39.9940	-2.0428	2035.1919
			Max. Vy	8	26.2696	-	1.8662
			Max. Vx	14	30.1213	-2.0428	-
L32	39.67 - 39.42	Pole	Max. Torque	24			2032.6171
			Max Tension	1	0.0000	0.0000	-1.5542
			Max. Compression	26			0.0000
			Max. Mx	8	-62.3605	-4.6655	4.5666
					-40.3214	-	1.8710
			Max. My	2	-40.1152	-2.0509	2042.7042
			Max. Vy	8	26.2694	-	1.8710
			Max. Vx	14	30.1274	-2.0509	-
			Max. Torque	24			2040.1396
			Max Tension	1	0.0000	0.0000	-1.5561
L33	39.42 - 34.42	Pole	Max. Compression	26			0.0000
			Max. Mx	8	-64.8671	-4.9854	4.7510
					-42.3478	-	1.9687
			Max. My	2	-42.1573	-2.2163	2194.4714
			Max. Vy	8	26.7090	-	1.9687
			Max. Vx	14	30.7334	-2.2164	-
			Max. Torque	24			2192.1441
			Max Tension	1	0.0000	0.0000	-1.5932
			Max. Compression	26			0.0000
			Max. Mx	8	-65.8527	-5.1100	4.8229
L34	34.42 - 32.5	Pole	Max. Mx	8	-43.1298	-	2.0068
			Max. My	2	-42.9440	-2.2809	2253.5237
			Max. Vy	8	26.8875	-	2.0068
			Max. Vx	14	30.9748	-2.2810	-
			Max. Torque	24			2251.3035
			Max Tension	1	0.0000	0.0000	-1.6063
			Max. Compression	26			0.0000
			Max. Mx	8	-65.9662	-5.1266	4.8327
					-43.2314	-	2.0116
			Max. My	2	-43.0507	-2.2892	2261.2440
L35	32.5 - 32.25	Pole	Max. Vy	8	26.8843	-	2.0116
			Max. Vx	14	30.9770	-2.2893	-
			Max. Torque	24			2259.0383
			Max Tension	1	0.0000	0.0000	-1.6078
			Max. Compression	26			0.0000
			Max. Mx	8	-66.3433	-5.1807	4.8637
					-43.5142	-	2.0282
			Max. My	2	-43.3360	-2.3173	2286.9231
			Max. Vy	8	26.9587	-	2.0282
			Max. Vx	14	31.0778	-2.3173	-
L36	32.25 - 31.42	Pole	Max. Torque	24			2284.7659
			Max Tension	1	0.0000	0.0000	-1.6129
			Max. Compression	26			
			Max. Mx	8	-66.3433	-5.1807	4.8637
					-43.5142	-	2.0282

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
L37	31.42 - 31.17	Pole	Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-66.4747	-5.1974	4.8736	
			Max. Mx	8	-43.6254	-	2.0331	
						2075.0474		
			Max. My	2	-43.4501	-2.3257	2294.6725	
			Max. Vy	8	26.9688	-	2.0331	
						2075.0474		
			Max. Vx	14	31.0945	-2.3258	-	
								2292.5300
								-1.6144
L38	31.17 - 29	Pole	Max Torque	24				
			Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-67.6107	-5.3277	4.9405	
			Max. Mx	8	-44.5191	-	2.0765	
						2133.8330		
			Max. My	2	-44.3504	-2.3997	2362.2387	
			Max. Vy	8	27.1669	-	2.0765	
						2133.8330		
			Max. Vx	14	31.3552	-2.3997	-	
								2360.2215
					-1.6214			
L39	29 - 28.65	Pole	Max Torque	24				
			Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-67.7848	-5.3489	4.9514	
			Max. Mx	8	-44.6641	-	2.0835	
						2143.3521		
			Max. My	2	-44.4987	-2.4116	2373.1869	
			Max. Vy	8	27.1847	-	2.0835	
						2143.3521		
			Max. Vx	14	31.3813	-2.4116	-	
								2371.1893
					-1.6225			
L40	28.65 - 28.42	Pole	Max Torque	24				
			Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-67.8993	-5.3629	4.9586	
			Max. Mx	8	-44.7564	-	2.0881	
						2149.6129		
			Max. My	2	-44.5925	-2.4195	2380.3886	
			Max. Vy	8	27.2016	-	2.0881	
						2149.6129		
			Max. Vx	14	31.4042	-2.4195	-	
								2378.4039
					-1.6232			
L41	28.42 - 23.5	Pole	Max Torque	24				
			Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-70.3256	-5.6612	5.1105	
			Max. Mx	8	-46.6959	-	2.1878	
						2284.5447		
			Max. My	2	-46.5533	-2.5895	2535.7981	
			Max. Vy	8	27.6091	-	2.1878	
						2284.5447		
			Max. Vx	14	31.9428	-2.5896	-	
								2534.0671
					-1.6397			
L42	23.5 - 23.25	Pole	Max Torque	24				
			Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-70.4693	-5.6768	5.1187	
			Max. Mx	8	-46.8245	-	2.1928	
						2291.4527		
			Max. My	2	-46.6859	-2.5982	2543.7646	
			Max. Vy	8	27.6133	-	2.1928	
						2291.4527		
			Max. Vx	14	31.9519	-2.5982	-	
								2542.0455
					-1.6405			
L43	23.25 - 23	Pole	Max Torque	24				
			Max Tension	1	0.0000	0.0000	0.0000	
			Max. Compression	26	-70.6130	-5.6921	5.1265	
			Max. Mx	8	-46.9424	-	2.1979	
						2298.3662		
			Max. My	2	-46.8049	-2.6069	2551.7383	
Max. Vy	8	27.6352	-	2.1979				
			2298.3662					

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L44	23 - 22.75	Pole	Max. Vx	14	31.9806	-2.6070	-
			Max. Torque	24			2550.0309
			Max Tension	1	0.0000	0.0000	-1.6413
			Max. Compression	26	-70.7444	-5.7074	0.0000
			Max. Mx	8	-47.0486	-	5.1343
							2.2030
							2305.2850
							-2.6156
L45	22.75 - 17.75	Pole	Max. My	2	-46.9122	-	2.2030
			Max. Vy	8	27.6561	-	2.2030
							2305.2850
			Max. Vx	14	32.0082	-2.6157	-
			Max. Torque	24			2558.0234
			Max Tension	1	0.0000	0.0000	-1.6421
			Max. Compression	26	-73.3332	-6.0368	5.3172
			Max. Mx	8	-49.1741	-	2.3059
L46	17.75 - 12.75	Pole					2444.6762
			Max. My	2	-49.0625	-2.7919	2720.6847
			Max. Vy	8	28.0560	-	2.3059
							2444.6762
			Max. Vx	14	32.5427	-2.7920	-
			Max. Torque	24			2719.2320
			Max Tension	1	0.0000	0.0000	-1.6741
			Max. Compression	26	-75.9163	-6.3814	5.5161
L47	12.75 - 7.75	Pole	Max. Mx	8	-51.3336	-	2.4102
							2585.9801
			Max. My	2	-51.2507	-2.9710	2884.1838
			Max. Vy	8	28.4339	-	2.4102
							2585.9801
			Max. Vx	14	33.0528	-2.9711	-
			Max. Torque	24			2883.0097
			Max Tension	1	0.0000	0.0000	-1.7171
L48	7.75 - 2.75	Pole	Max. Compression	26	-78.5068	-6.7291	5.7169
			Max. Mx	8	-53.5190	-	2.5159
							2729.1730
			Max. My	2	-53.4671	-3.1533	3049.8429
			Max. Vy	8	28.8112	-	2.5159
							2729.1730
			Max. Vx	14	33.4285	-3.1533	-
			Max. Torque	24			3048.9972
L49	2.75 - 0	Pole	Max Tension	1	0.0000	0.0000	-1.7612
			Max. Compression	26	-81.0916	-7.0765	5.9174
			Max. Mx	8	-55.7303	-	2.6229
							2874.2513
			Max. My	2	-55.7099	-3.3382	3217.3168
			Max. Vy	8	29.1877	-	2.6229
							2874.2513
			Max. Vx	14	33.8011	-3.3383	-
L49	2.75 - 0	Pole					3216.8493
			Max. Torque	24			-1.8063
			Max Tension	1	0.0000	0.0000	0.0000
			Max. Compression	26	-82.4774	-7.2626	6.0248
			Max. Mx	8	-56.9558	-	2.6824
							2954.8414
			Max. My	2	-56.9515	-3.4412	3310.1896
			Max. Vy	8	29.3975	-	2.6824
L49	2.75 - 0	Pole	Max. Vx	14	34.0071	-3.4413	-
							2954.8414
			Max. Torque	24			3309.9499
						-1.8347	



### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	82.4774	-0.0000	7.6365
	Max. H <sub>x</sub>	21	42.7280	29.2802	0.0000
	Max. H <sub>z</sub>	3	42.7280	-0.0000	33.8462
	Max. M <sub>x</sub>	2	3310.1896	0.0000	33.8462
	Max. M <sub>z</sub>	8	2954.8414	-29.3687	0.0000
	Max. Torsion	12	1.8086	-17.0707	-29.7616
	Min. Vert	19	42.7280	25.4700	-14.8173
	Min. H <sub>x</sub>	9	42.7280	-29.3687	0.0000
	Min. H <sub>z</sub>	15	42.7280	-0.0000	-33.9749
	Min. M <sub>x</sub>	14	-3309.9499	0.0000	-33.9749
	Min. M <sub>z</sub>	20	-2937.1362	29.2802	0.0000
	Min. Torsion	24	-1.8347	17.0631	29.7485

### Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	47.4755	0.0000	-0.0000	-2.1513	-2.7747	-0.0000
1.2 Dead+1.0 Wind 0 deg - No Ice	56.9706	0.0000	-33.8462	-3310.1896	-3.4410	1.1881
0.9 Dead+1.0 Wind 0 deg - No Ice	42.7280	0.0000	-33.8462	-3258.3609	-2.5424	1.1888
1.2 Dead+1.0 Wind 30 deg - No Ice	56.9706	14.6570	-25.5810	-2578.3567	-1474.1250	-0.4833
0.9 Dead+1.0 Wind 30 deg - No Ice	42.7280	14.6570	-25.5810	-2536.7922	-1449.9539	-0.4749
1.2 Dead+1.0 Wind 60 deg - No Ice	56.9706	25.5747	-14.8778	-1493.9126	-2557.9381	-0.7585
0.9 Dead+1.0 Wind 60 deg - No Ice	42.7280	25.5747	-14.8778	-1469.5806	-2516.6755	-0.7442
1.2 Dead+1.0 Wind 90 deg - No Ice	56.9706	29.3687	0.0000	-2.6822	-2954.8414	-0.8219
0.9 Dead+1.0 Wind 90 deg - No Ice	42.7280	29.3687	-0.0000	-1.9705	-2907.2320	-0.8059
1.2 Dead+1.0 Wind 120 deg - No Ice	56.9706	28.1452	16.3619	1620.3294	-2786.1710	-1.5099
0.9 Dead+1.0 Wind 120 deg - No Ice	42.7280	28.1452	16.3619	1595.7909	-2742.0925	-1.4964
1.2 Dead+1.0 Wind 150 deg - No Ice	56.9706	17.0707	29.7616	2857.4174	-1638.3210	-1.8086
0.9 Dead+1.0 Wind 150 deg - No Ice	42.7280	17.0707	29.7616	2814.0218	-1612.2770	-1.8014
1.2 Dead+1.0 Wind 180 deg - No Ice	56.9706	0.0000	33.9749	3309.9499	-3.4411	-1.1883
0.9 Dead+1.0 Wind 180 deg - No Ice	42.7280	0.0000	33.9749	3259.5148	-2.5424	-1.1889
1.2 Dead+1.0 Wind 210 deg - No Ice	56.9706	-14.6607	25.5875	2580.5283	1471.5571	0.4599
0.9 Dead+1.0 Wind 210 deg - No Ice	42.7280	-14.6607	25.5875	2540.2496	1449.1143	0.4523
1.2 Dead+1.0 Wind 240 deg - No Ice	56.9706	-25.4700	14.8173	1490.0489	2553.6185	0.7351
0.9 Dead+1.0 Wind 240 deg - No Ice	42.7280	-25.4700	14.8173	1467.0847	2514.0673	0.7216
1.2 Dead+1.0 Wind 270 deg - No Ice	56.9706	-29.2802	0.0000	-2.6824	2937.1362	0.8218
0.9 Dead+1.0 Wind 270 deg - No Ice	42.7280	-29.2802	-0.0000	-1.9706	2891.4919	0.8058
1.2 Dead+1.0 Wind 300 deg - No Ice	56.9706	-28.2824	-16.4411	-1628.6370	2784.4061	1.5358
0.9 Dead+1.0 Wind 300 deg - No Ice	42.7280	-28.2824	-16.4411	-1602.6606	2742.0944	1.5214

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
- No Ice						
1.2 Dead+1.0 Wind 330 deg	56.9706	-17.0631	-29.7485	-2862.9490	1631.5448	1.8347
- No Ice						
0.9 Dead+1.0 Wind 330 deg	42.7280	-17.0631	-29.7485	-2818.1141	1607.2862	1.8266
- No Ice						
1.2 Dead+1.0 Ice+1.0 Temp	82.4774	0.0000	-0.0000	-6.0248	-7.2626	-0.0003
1.2 Dead+1.0 Wind 0	82.4774	0.0000	-7.6365	-816.8613	-7.3655	0.2744
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 30	82.4774	3.3849	-5.8991	-654.3736	-378.4122	-0.1178
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 60	82.4774	5.8977	-3.4259	-381.1722	-651.3965	-0.1857
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 90	82.4774	6.7624	-0.0000	-6.1136	-749.3976	-0.2036
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 120	82.4774	6.3396	3.6811	391.0935	-689.7563	-0.3457
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 150	82.4774	3.8493	6.7035	693.5778	-408.1041	-0.4219
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 180	82.4774	0.0000	7.6602	805.5985	-7.3656	-0.2751
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 210	82.4774	-3.3768	5.8851	641.8978	363.5339	0.1158
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 240	82.4774	-5.8630	3.4059	368.2517	635.4609	0.1838
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 270	82.4774	-6.7637	-0.0000	-6.1137	734.5640	0.2029
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 300	82.4774	-6.3649	-3.6957	-403.8738	675.9845	0.3464
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	82.4774	-3.8480	-6.7012	-705.8611	393.4061	0.4226
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	47.4755	0.0000	-8.1116	-788.5905	-2.8571	0.2878
Dead+Wind 30 deg - Service	47.4755	3.5132	-6.1316	-614.3994	-352.4121	-0.1144
Dead+Wind 60 deg - Service	47.4755	6.1301	-3.5661	-356.6479	-610.0082	-0.1807
Dead+Wind 90 deg - Service	47.4755	7.0395	0.0000	-2.2239	-704.3312	-0.1982
Dead+Wind 120 deg - Service	47.4755	6.7455	3.9214	383.6076	-664.4062	-0.3677
Dead+Wind 150 deg - Service	47.4755	4.0911	7.1326	677.7639	-391.5624	-0.4398
Dead+Wind 180 deg - Service	47.4755	0.0000	8.1424	785.3670	-2.8571	-0.2879
Dead+Wind 210 deg - Service	47.4755	-3.5141	6.1331	611.7438	347.7308	0.1130
Dead+Wind 240 deg - Service	47.4755	-6.1050	3.5516	352.5537	604.9047	0.1794
Dead+Wind 270 deg - Service	47.4755	-7.0183	0.0000	-2.2239	696.0423	0.1981
Dead+Wind 300 deg - Service	47.4755	-6.7784	-3.9404	-388.7602	659.9140	0.3690
Dead+Wind 330 deg - Service	47.4755	-4.0893	-7.1294	-682.2505	385.8712	0.4411

## 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	0.0000	-47.4755	0.0000	-0.0000	47.4755	0.0000	0.000%
2	0.0000	-56.9706	-33.8461	0.0000	56.9706	33.8462	0.000%
3	0.0000	-42.7280	-33.8461	-0.0000	42.7280	33.8462	0.000%
4	14.6570	-56.9706	-25.5810	-14.6570	56.9706	25.5810	0.000%
5	14.6570	-42.7280	-25.5810	-14.6570	42.7280	25.5810	0.000%
6	25.5747	-56.9706	-14.8778	-25.5747	56.9706	14.8778	0.000%
7	25.5747	-42.7280	-14.8778	-25.5747	42.7280	14.8778	0.000%
8	29.3687	-56.9706	0.0000	-29.3687	56.9706	0.0000	0.000%
9	29.3687	-42.7280	0.0000	-29.3687	42.7280	0.0000	0.000%
10	28.1452	-56.9706	16.3619	-28.1452	56.9706	-16.3619	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
11	28.1452	-42.7280	16.3619	-28.1452	42.7280	-16.3619	0.000%
12	17.0707	-56.9706	29.7616	-17.0707	56.9706	-29.7616	0.000%
13	17.0707	-42.7280	29.7616	-17.0707	42.7280	-29.7616	0.000%
14	0.0000	-56.9706	33.9749	0.0000	56.9706	-33.9749	0.000%
15	0.0000	-42.7280	33.9749	-0.0000	42.7280	-33.9749	0.000%
16	-14.6607	-56.9706	25.5875	14.6607	56.9706	-25.5875	0.000%
17	-14.6607	-42.7280	25.5875	14.6607	42.7280	-25.5875	0.000%
18	-25.4700	-56.9706	14.8173	25.4700	56.9706	-14.8173	0.000%
19	-25.4700	-42.7280	14.8173	25.4700	42.7280	-14.8173	0.000%
20	-29.2802	-56.9706	0.0000	29.2802	56.9706	0.0000	0.000%
21	-29.2802	-42.7280	0.0000	29.2802	42.7280	0.0000	0.000%
22	-28.2824	-56.9706	-16.4411	28.2824	56.9706	16.4411	0.000%
23	-28.2824	-42.7280	-16.4411	28.2824	42.7280	16.4411	0.000%
24	-17.0631	-56.9706	-29.7485	17.0631	56.9706	29.7485	0.000%
25	-17.0631	-42.7280	-29.7485	17.0631	42.7280	29.7485	0.000%
26	0.0000	-82.4774	0.0000	-0.0000	82.4774	0.0000	0.000%
27	0.0000	-82.4774	-7.6365	-0.0000	82.4774	7.6365	0.000%
28	3.3849	-82.4774	-5.8991	-3.3849	82.4774	5.8991	0.000%
29	5.8977	-82.4774	-3.4259	-5.8977	82.4774	3.4259	0.000%
30	6.7624	-82.4774	0.0000	-6.7624	82.4774	0.0000	0.000%
31	6.3396	-82.4774	3.6811	-6.3396	82.4774	-3.6811	0.000%
32	3.8493	-82.4774	6.7035	-3.8493	82.4774	-6.7035	0.000%
33	0.0000	-82.4774	7.6602	-0.0000	82.4774	-7.6602	0.000%
34	-3.3768	-82.4774	5.8851	3.3768	82.4774	-5.8851	0.000%
35	-5.8630	-82.4774	3.4059	5.8630	82.4774	-3.4059	0.000%
36	-6.7637	-82.4774	0.0000	6.7637	82.4774	0.0000	0.000%
37	-6.3649	-82.4774	-3.6957	6.3649	82.4774	3.6957	0.000%
38	-3.8480	-82.4774	-6.7012	3.8480	82.4774	6.7012	0.000%
39	0.0000	-47.4755	-8.1116	0.0000	47.4755	8.1116	0.000%
40	3.5132	-47.4755	-6.1316	-3.5132	47.4755	6.1316	0.000%
41	6.1301	-47.4755	-3.5661	-6.1301	47.4755	3.5661	0.000%
42	7.0395	-47.4755	0.0000	-7.0395	47.4755	0.0000	0.000%
43	6.7455	-47.4755	3.9214	-6.7455	47.4755	-3.9214	0.000%
44	4.0911	-47.4755	7.1326	-4.0911	47.4755	-7.1326	0.000%
45	0.0000	-47.4755	8.1424	0.0000	47.4755	-8.1424	0.000%
46	-3.5141	-47.4755	6.1331	3.5141	47.4755	-6.1331	0.000%
47	-6.1050	-47.4755	3.5516	6.1050	47.4755	-3.5516	0.000%
48	-7.0183	-47.4755	0.0000	7.0183	47.4755	0.0000	0.000%
49	-6.7784	-47.4755	-3.9404	6.7784	47.4755	3.9404	0.000%
50	-4.0893	-47.4755	-7.1294	4.0893	47.4755	7.1294	0.000%

### Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00001123
2	Yes	6	0.00000001	0.00015314
3	Yes	5	0.00000001	0.00087017
4	Yes	7	0.00000001	0.00032202
5	Yes	7	0.00000001	0.00007655
6	Yes	7	0.00000001	0.00032963
7	Yes	7	0.00000001	0.00007872
8	Yes	6	0.00000001	0.00014824
9	Yes	5	0.00000001	0.00083536
10	Yes	7	0.00000001	0.00035217
11	Yes	7	0.00000001	0.00008134
12	Yes	7	0.00000001	0.00037539
13	Yes	7	0.00000001	0.00008700
14	Yes	6	0.00000001	0.00015290
15	Yes	5	0.00000001	0.00086878
16	Yes	7	0.00000001	0.00032797
17	Yes	7	0.00000001	0.00007831
18	Yes	7	0.00000001	0.00031910
19	Yes	7	0.00000001	0.00007596
20	Yes	6	0.00000001	0.00014789

21	Yes	5	0.00000001	0.00083393
22	Yes	7	0.00000001	0.00037072
23	Yes	7	0.00000001	0.00008634
24	Yes	7	0.00000001	0.00035715
25	Yes	7	0.00000001	0.00008202
26	Yes	5	0.00000001	0.00030623
27	Yes	7	0.00000001	0.00033161
28	Yes	7	0.00000001	0.00036962
29	Yes	7	0.00000001	0.00036939
30	Yes	7	0.00000001	0.00031164
31	Yes	7	0.00000001	0.00037875
32	Yes	7	0.00000001	0.00038589
33	Yes	7	0.00000001	0.00032390
34	Yes	7	0.00000001	0.00035571
35	Yes	7	0.00000001	0.00035347
36	Yes	7	0.00000001	0.00030585
37	Yes	7	0.00000001	0.00038288
38	Yes	7	0.00000001	0.00038590
39	Yes	5	0.00000001	0.00020312
40	Yes	5	0.00000001	0.00085821
41	Yes	5	0.00000001	0.00090796
42	Yes	5	0.00000001	0.00018622
43	Yes	5	0.00000001	0.00096383
44	Yes	6	0.00000001	0.00008141
45	Yes	5	0.00000001	0.00020146
46	Yes	5	0.00000001	0.00087655
47	Yes	5	0.00000001	0.00082261
48	Yes	5	0.00000001	0.00018420
49	Yes	6	0.00000001	0.00007951
50	Yes	5	0.00000001	0.00099101

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	140 - 135	27.7382	39	2.0604	0.0067
L2	135 - 130	25.5850	39	2.0453	0.0059
L3	130 - 125	23.4678	39	1.9947	0.0049
L4	125 - 120	21.4164	39	1.9180	0.0040
L5	120 - 115	19.4645	39	1.8058	0.0034
L6	115 - 114.75	17.6436	39	1.6674	0.0028
L7	114.75 - 109.75	17.5564	39	1.6642	0.0028
L8	109.75 - 104.75	15.8510	39	1.5917	0.0025
L9	104.75 - 101.58	14.2284	39	1.5062	0.0023
L10	101.58 - 101.33	13.2479	39	1.4471	0.0021
L11	101.33 - 96.33	13.1723	39	1.4408	0.0021
L12	96.33 - 91.33	11.7309	39	1.3114	0.0018
L13	91.33 - 91	10.4275	39	1.1776	0.0014
L14	91 - 90.75	10.3464	39	1.1687	0.0014
L15	90.75 - 85.75	10.2853	39	1.1650	0.0014
L16	85.75 - 80.75	9.1045	39	1.0902	0.0013
L17	80.75 - 75.75	8.0037	39	1.0122	0.0011
L18	75.75 - 70.75	6.9853	39	0.9330	0.0010
L19	70.75 - 69.98	6.0498	39	0.8538	0.0009
L20	69.98 - 69.73	5.9131	39	0.8415	0.0009
L21	69.73 - 64.73	5.8691	39	0.8375	0.0008
L22	64.73 - 63	5.0347	39	0.7564	0.0007
L23	63 - 62.75	4.7656	39	0.7287	0.0007
L24	62.75 - 59.08	4.7275	39	0.7257	0.0007
L25	59.08 - 58.82	4.1873	39	0.6802	0.0006
L26	58.82 - 58.67	4.1503	39	0.6767	0.0006
L27	58.67 - 53.67	4.1291	39	0.6747	0.0006
L28	53.67 - 48.58	3.4583	39	0.6067	0.0005
L29	53 - 47.58	3.3738	39	0.5977	0.0005
L30	47.58 - 42.58	2.7165	39	0.5545	0.0005
L31	42.58 - 39.67	2.1713	39	0.4870	0.0004
L32	39.67 - 39.42	1.8865	39	0.4477	0.0004

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L33	39.42 - 34.42	1.8631	39	0.4452	0.0004
L34	34.42 - 32.5	1.4244	39	0.3929	0.0003
L35	32.5 - 32.25	1.2702	39	0.3736	0.0003
L36	32.25 - 31.42	1.2508	39	0.3703	0.0003
L37	31.42 - 31.17	1.1873	39	0.3595	0.0003
L38	31.17 - 29	1.1686	39	0.3569	0.0003
L39	29 - 28.65	1.0115	39	0.3344	0.0003
L40	28.65 - 28.42	0.9871	39	0.3303	0.0003
L41	28.42 - 23.5	0.9713	39	0.3277	0.0003
L42	23.5 - 23.25	0.6632	39	0.2705	0.0002
L43	23.25 - 23	0.6491	39	0.2680	0.0002
L44	23 - 22.75	0.6351	39	0.2656	0.0002
L45	22.75 - 17.75	0.6213	39	0.2627	0.0002
L46	17.75 - 12.75	0.3770	39	0.2042	0.0002
L47	12.75 - 7.75	0.1938	39	0.1460	0.0001
L48	7.75 - 2.75	0.0712	39	0.0883	0.0001
L49	2.75 - 0	0.0089	39	0.0309	0.0000

### Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
138.0000	BXA-80063-6BF-EDIN-4 w/ Mount Pipe	39	26.8748	2.0571	0.0066	8354
127.0000	HPA-65R-BUU-H6 w/ Mount Pipe	39	22.2270	1.9513	0.0045	3509
118.0000	AIR 32 B2A B66AA w/ Mount Pipe	39	18.7190	1.7423	0.0032	2228
108.0000	MX08FRO665-21 w/ Mount Pipe	39	15.2730	1.5619	0.0025	3445
73.0000	DT465B-2XR w/ Mount Pipe	39	6.4605	0.8895	0.0009	3610
50.0000	GPS-TMG-HR-26NCM	39	3.0033	0.5720	0.0005	6035

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	140 - 135	116.3960	2	8.6451	0.0274
L2	135 - 130	107.3923	2	8.5866	0.0238
L3	130 - 125	98.5312	2	8.3801	0.0191
L4	125 - 120	89.9385	2	8.0619	0.0159
L5	120 - 115	81.7564	2	7.5932	0.0133
L6	115 - 114.75	74.1184	2	7.0132	0.0111
L7	114.75 - 109.75	73.7525	2	6.9995	0.0110
L8	109.75 - 104.75	66.5955	2	6.6950	0.0101
L9	104.75 - 101.58	59.7839	2	6.3360	0.0091
L10	101.58 - 101.33	55.6672	2	6.0874	0.0085
L11	101.33 - 96.33	55.3497	2	6.0610	0.0084
L12	96.33 - 91.33	49.2957	2	5.5167	0.0071
L13	91.33 - 91	43.8198	2	4.9536	0.0058
L14	91 - 90.75	43.4792	2	4.9162	0.0058
L15	90.75 - 85.75	43.2225	2	4.9009	0.0057
L16	85.75 - 80.75	38.2607	2	4.5859	0.0051
L17	80.75 - 75.75	33.6349	2	4.2575	0.0046
L18	75.75 - 70.75	29.3548	2	3.9243	0.0041
L19	70.75 - 69.98	25.4228	2	3.5908	0.0036
L20	69.98 - 69.73	24.8483	2	3.5390	0.0035
L21	69.73 - 64.73	24.6636	2	3.5221	0.0035
L22	64.73 - 63	21.1563	2	3.1806	0.0030
L23	63 - 62.75	20.0254	2	3.0642	0.0029

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L24	62.75 - 59.08	19.8654	2	3.0514	0.0028
L25	59.08 - 58.82	17.5946	2	2.8599	0.0026
L26	58.82 - 58.67	17.4393	2	2.8453	0.0026
L27	58.67 - 53.67	17.3501	2	2.8368	0.0026
L28	53.67 - 48.58	14.5307	2	2.5507	0.0022
L29	53 - 47.58	14.1755	2	2.5127	0.0022
L30	47.58 - 42.58	11.4133	2	2.3311	0.0020
L31	42.58 - 39.67	9.1219	2	2.0471	0.0017
L32	39.67 - 39.42	7.9249	2	1.8818	0.0015
L33	39.42 - 34.42	7.8267	2	1.8710	0.0015
L34	34.42 - 32.5	5.9832	2	1.6512	0.0013
L35	32.5 - 32.25	5.3356	2	1.5698	0.0013
L36	32.25 - 31.42	5.2538	2	1.5562	0.0012
L37	31.42 - 31.17	4.9873	2	1.5106	0.0012
L38	31.17 - 29	4.9085	2	1.4998	0.0012
L39	29 - 28.65	4.2485	2	1.4049	0.0011
L40	28.65 - 28.42	4.1461	2	1.3879	0.0011
L41	28.42 - 23.5	4.0795	2	1.3767	0.0011
L42	23.5 - 23.25	2.7854	2	1.1362	0.0009
L43	23.25 - 23	2.7261	2	1.1260	0.0009
L44	23 - 22.75	2.6675	2	1.1158	0.0009
L45	22.75 - 17.75	2.6094	2	1.1036	0.0008
L46	17.75 - 12.75	1.5831	2	0.8575	0.0006
L47	12.75 - 7.75	0.8136	2	0.6132	0.0005
L48	7.75 - 2.75	0.2989	2	0.3707	0.0003
L49	2.75 - 0	0.0373	2	0.1298	0.0001

### Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
138.0000	BXA-80063-6BF-EDIN-4 w/ Mount Pipe	2	112.7862	8.6328	0.0287	2175
127.0000	HPA-65R-BUU-H6 w/ Mount Pipe	2	93.3345	8.2008	0.0196	877
118.0000	AIR 32 B2A B66AA w/ Mount Pipe	2	78.6299	7.3273	0.0136	548
108.0000	MX08FRO665-21 w/ Mount Pipe	2	64.1694	6.5702	0.0105	840
73.0000	DT465B-2XR w/ Mount Pipe	2	27.1491	3.7411	0.0039	864
50.0000	GPS-TMG-HR-26NCM	2	12.6185	2.4047	0.0021	1439

### Compression Checks

### Pole Design Data

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
L1	140 - 135 (1)	TP14.296x13.161x0.1875	5.0000	0.0000	0.0	8.3963	-4.4065	491.1830	0.009
L2	135 - 130 (2)	TP15.4309x14.296x0.1875	5.0000	0.0000	0.0	9.0717	-4.6218	530.6970	0.009
L3	130 - 125 (3)	TP16.5659x15.4309x0.1875	5.0000	0.0000	0.0	9.7472	-8.6317	570.2100	0.015
L4	125 - 120 (4)	TP17.7008x16.5659x0.1875	5.0000	0.0000	0.0	10.4226	-9.0080	609.7230	0.015
L5	120 - 115 (5)	TP18.8358x17.7008x0.1875	5.0000	0.0000	0.0	11.0981	-13.3312	649.2360	0.021

Section No.	Elevation ft	Size	L ft	$L_u$ ft	$Kl/r$	A $in^2$	$P_u$ K	$\phi P_n$ K	Ratio $\frac{P_u}{\phi P_n}$
L6	115 - 114.75 (6)	TP18.8925x18.8358x0.46 25	0.2500	0.0000	0.0	27.054 8	-13.3829	1582.7100	0.008
L7	114.75 - 109.75 (7)	TP20.0275x18.8925x0.45	5.0000	0.0000	0.0	27.962 5	-14.0965	1635.8100	0.009
L8	109.75 - 104.75 (8)	TP21.1624x20.0275x0.42 5	5.0000	0.0000	0.0	27.973 8	-17.7981	1636.4700	0.011
L9	104.75 - 101.58 (9)	TP21.882x21.1624x0.418 8	3.1700	0.0000	0.0	28.527 1	-18.3165	1668.8300	0.011
L10	101.58 - 101.33 (10)	TP21.9388x21.882x0.312 5	0.2500	0.0000	0.0	21.450 5	-18.3661	1254.8600	0.015
L11	101.33 - 96.33 (11)	TP23.0738x21.9388x0.31 25	5.0000	0.0000	0.0	22.576 3	-19.1550	1320.7100	0.015
L12	96.33 - 91.33 (12)	TP24.2088x23.0738x0.31 25	5.0000	0.0000	0.0	23.702 1	-19.9983	1386.5700	0.014
L13	91.33 - 91 (13)	TP24.2837x24.2088x0.31 25	0.3300	0.0000	0.0	23.776 4	-20.0696	1390.9200	0.014
L14	91 - 90.75 (14)	TP24.3404x24.2837x0.6	0.2500	0.0000	0.0	45.211 2	-20.1304	2644.8600	0.008
L15	90.75 - 85.75 (15)	TP25.4754x24.3404x0.58 75	5.0000	0.0000	0.0	46.409 1	-21.2638	2714.9300	0.008
L16	85.75 - 80.75 (16)	TP26.6104x25.4754x0.56 25	5.0000	0.0000	0.0	46.505 3	-22.4408	2720.5600	0.008
L17	80.75 - 75.75 (17)	TP27.7454x26.6104x0.55	5.0000	0.0000	0.0	47.475 0	-23.6502	2777.2900	0.009
L18	75.75 - 70.75 (18)	TP28.8804x27.7454x0.54 38	5.0000	0.0000	0.0	48.905 2	-28.9906	2860.9500	0.010
L19	70.75 - 69.98 (19)	TP29.0552x28.8804x0.53 13	0.7700	0.0000	0.0	48.096 7	-29.1969	2813.6600	0.010
L20	69.98 - 69.73 (20)	TP29.112x29.0552x0.531 3	0.2500	0.0000	0.0	48.192 4	-29.2711	2819.2600	0.010
L21	69.73 - 64.73 (21)	TP30.247x29.112x0.525	5.0000	0.0000	0.0	49.527 2	-30.5938	2897.3400	0.011
L22	64.73 - 63 (22)	TP30.6397x30.247x0.518 8	1.7300	0.0000	0.0	49.594 5	-31.0515	2901.2800	0.011
L23	63 - 62.75 (23)	TP30.6964x30.6397x0.7	0.2500	0.0000	0.0	66.646 0	-31.1608	3898.7900	0.008
L24	62.75 - 59.08 (24)	TP31.5295x30.6964x0.68 75	3.6700	0.0000	0.0	67.301 1	-32.3943	3937.1100	0.008
L25	59.08 - 58.82 (25)	TP31.5885x31.5295x0.62 5	0.2600	0.0000	0.0	61.423 9	-32.4909	3593.3000	0.009
L26	58.82 - 58.67 (26)	TP31.6226x31.5885x0.62 5	0.1500	0.0000	0.0	61.491 4	-32.5413	3597.2500	0.009
L27	58.67 - 53.67 (27)	TP32.7576x31.6226x0.61 25	5.0000	0.0000	0.0	62.492 4	-34.1674	3655.8100	0.009
L28	53.67 - 48.58 (28)	TP33.913x32.7576x0.612 5	5.0900	0.0000	0.0	62.788 1	-34.3951	3673.1000	0.009
L29	48.58 - 47.58 (29)	TP33.5151x32.2847x0.63 75	5.4200	0.0000	0.0	66.525 4	-37.3340	3891.7400	0.010
L30	47.58 - 42.58 (30)	TP34.6503x33.5151x0.62 5	5.0000	0.0000	0.0	67.497 6	-39.0098	3948.6100	0.010
L31	42.58 - 39.67 (31)	TP35.3109x34.6503x0.61 25	2.9100	0.0000	0.0	67.456 3	-39.9940	3946.1900	0.010
L32	39.67 - 39.42 (32)	TP35.3677x35.3109x0.81 25	0.2500	0.0000	0.0	89.113 4	-40.1152	5213.1400	0.008
L33	39.42 - 34.42 (33)	TP36.5028x35.3677x0.78 75	5.0000	0.0000	0.0	89.271 3	-42.1573	5222.3700	0.008
L34	34.42 - 32.5 (34)	TP36.9387x36.5028x0.78 75	1.9200	0.0000	0.0	90.360 8	-42.9440	5286.1100	0.008
L35	32.5 - 32.25 (35)	TP36.9954x36.9387x0.61 25	0.2500	0.0000	0.0	70.731 2	-43.0507	4137.7700	0.010
L36	32.25 - 31.42 (36)	TP37.1839x36.9954x0.6	0.8300	0.0000	0.0	69.670 3	-43.3360	4075.7100	0.011
L37	31.42 - 31.17 (37)	TP37.2406x37.1839x0.77 5	0.2500	0.0000	0.0	89.700 0	-43.4501	5247.4500	0.008
L38	31.17 - 29 (38)	TP37.7333x37.2406x0.76 25	2.1700	0.0000	0.0	89.475 7	-44.3504	5234.3300	0.008
L39	29 - 28.65 (39)	TP37.8127x37.7333x0.67 5	0.3500	0.0000	0.0	79.565 7	-44.4988	4654.5900	0.010
L40	28.65 - 28.42	TP37.8649x37.8127x0.67	0.2300	0.0000	0.0	79.677	-44.5925	4661.1400	0.010



Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
L41	(40) 28.42 - 23.5	5 TP38.9819x37.8649x0.66	4.9200	0.0000	0.0	6 80.577	-46.5533	4713.7600	0.010
L42	(41) 23.5 - 23.25	25 TP39.0387x38.9819x0.78	0.2500	0.0000	0.0	1 95.609	-46.6859	5593.1700	0.008
L43	(42) 23.25 - 23	75 TP39.0954x39.0387x0.78	0.2500	0.0000	0.0	7 95.751	-46.8049	5601.4700	0.008
L44	(43) 23 - 22.75	75 TP39.1522x39.0954x0.65	0.2500	0.0000	0.0	6 79.433	-46.9122	4646.8800	0.010
L45	(44) 22.75 - 17.75	75 TP40.2873x39.1522x0.63	5.0000	0.0000	0.0	8 80.228	-49.0625	4693.3600	0.010
L46	(45) 17.75 - 12.75	75 TP41.4224x40.2873x0.62	5.0000	0.0000	0.0	4 80.931	-51.2507	4734.5200	0.011
L47	(46) 12.75 - 7.75	5 TP42.5576x41.4224x0.61	5.0000	0.0000	0.0	9 81.544	-53.4671	4770.3400	0.011
L48	(47) 7.75 - 2.75	25 TP43.6927x42.5576x0.6	5.0000	0.0000	0.0	3 80.768	-54.3864	4724.9700	0.012
L49	(48) 2.75 - 0 (49)	TP44.317x43.6927x0.6	2.7500	0.0000	0.0	7 82.065	-55.7430	4800.8400	0.012

**Pole Bending Design Data**

Section No.	Elevation ft	Size	M <sub>ux</sub> kip-ft	φM <sub>nx</sub> kip-ft	Ratio M <sub>ux</sub> / φM <sub>nx</sub>	M <sub>uy</sub> kip-ft	φM <sub>ny</sub> kip-ft	Ratio M <sub>uy</sub> / φM <sub>ny</sub>
L1	140 - 135 (1)	TP14.296x13.161x0.1875	21.4892	180.0050	0.119	0.0000	180.0050	0.000
L2	135 - 130 (2)	TP15.4309x14.296x0.1875	48.5081	210.3367	0.231	0.0000	210.3367	0.000
L3	130 - 125 (3)	5 TP16.5659x15.4309x0.1875	93.5400	243.0292	0.385	0.0000	243.0292	0.000
L4	125 - 120 (4)	75 TP17.7008x16.5659x0.1875	149.0158	278.0817	0.536	0.0000	278.0817	0.000
L5	120 - 115 (5)	75 TP18.8358x17.7008x0.1875	220.7625	312.0175	0.708	0.0000	312.0175	0.000
L6	115 - 114.75 (6)	25 TP18.8925x18.8358x0.46	224.8400	748.9600	0.300	0.0000	748.9600	0.000
L7	114.75 - 109.75 (7)	TP20.0275x18.8925x0.45	307.9275	823.9783	0.374	0.0000	823.9783	0.000
L8	109.75 - 104.75 (8)	5 TP21.1624x20.0275x0.42	403.0442	875.2833	0.460	0.0000	875.2833	0.000
L9	104.75 - 101.58 (9)	8 TP21.882x21.1624x0.418	467.7883	924.7250	0.506	0.0000	924.7250	0.000
L10	101.58 - 101.33 (10)	5 TP21.9388x21.882x0.312	472.9408	704.1108	0.672	0.0000	704.1108	0.000
L11	101.33 - 96.33 (11)	25 TP23.0738x21.9388x0.31	577.2283	780.5117	0.740	0.0000	780.5117	0.000
L12	96.33 - 91.33 (12)	25 TP24.2088x23.0738x0.31	683.8550	860.8500	0.794	0.0000	860.8500	0.000
L13	91.33 - 91 (13)	25 TP24.2837x24.2088x0.31	690.9750	866.2917	0.798	0.0000	866.2917	0.000
L14	91 - 90.75 (14)	TP24.3404x24.2837x0.6	696.3758	1611.9333	0.432	0.0000	1611.9333	0.000
L15	90.75 - 85.75 (15)	75 TP25.4754x24.3404x0.58	805.9267	1737.4417	0.464	0.0000	1737.4417	0.000
L16	85.75 - 80.75 (16)	25 TP26.6104x25.4754x0.56	918.3833	1825.7833	0.503	0.0000	1825.7833	0.000
L17	80.75 - 75.75 (17)	TP27.7454x26.6104x0.55	1033.7250	1948.5750	0.531	0.0000	1948.5750	0.000
L18	75.75 - 70.75 (18)	38 TP28.8804x27.7454x0.54	1159.5167	2093.6333	0.554	0.0000	2093.6333	0.000
L19	70.75 - 69.98 (19)	13 TP29.0552x28.8804x0.53	1179.8083	2073.7833	0.569	0.0000	2073.7833	0.000
L20	69.98 - 69.73 (20)	3 TP29.112x29.0552x0.531	1186.4167	2082.1167	0.570	0.0000	2082.1167	0.000
L21	69.73 - 64.73	TP30.247x29.112x0.525	1319.9667	2227.2500	0.593	0.0000	2227.2500	0.000

Section No.	Elevation ft	Size	$M_{ux}$ kip-ft	$\phi M_{nx}$ kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	$M_{uy}$ kip-ft	$\phi M_{ny}$ kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L22	(21) 64.73 - 63	TP30.6397x30.247x0.518	1366.8333	2261.1917	0.604	0.0000	2261.1917	0.000
L23	(22) 63 - 62.75	TP30.6964x30.6397x0.7	1373.6417	3008.0000	0.457	0.0000	3008.0000	0.000
L24	(23) 62.75 - 59.08	TP31.5295x30.6964x0.68	1474.4083	3126.3833	0.472	0.0000	3126.3833	0.000
L25	(24) 59.08 - 58.82	TP31.5885x31.5295x0.62	1481.6083	2870.5250	0.516	0.0000	2870.5250	0.000
L26	(25) 58.82 - 58.67	TP31.6226x31.5885x0.62	1485.7750	2876.9000	0.516	0.0000	2876.9000	0.000
L27	(26) 58.67 - 53.67	TP32.7576x31.6226x0.61	1625.9417	3035.2667	0.536	0.0000	3035.2667	0.000
L28	(27) 53.67 - 48.58	TP33.913x32.7576x0.612	1644.9500	3064.3250	0.537	0.0000	3064.3250	0.000
L29	(28) 48.58 - 47.58	TP33.5151x32.2847x0.63	1800.9917	3303.6917	0.545	0.0000	3303.6917	0.000
L30	(29) 47.58 - 42.58	TP34.6503x33.5151x0.62	1948.2500	3472.4583	0.561	0.0000	3472.4583	0.000
L31	(30) 42.58 - 39.67	TP35.3109x34.6503x0.61	2035.1917	3541.4833	0.575	0.0000	3541.4833	0.000
L32	(31) 39.67 - 39.42	TP35.3677x35.3109x0.81	2042.7083	4632.4917	0.441	0.0000	4632.4917	0.000
L33	(32) 39.42 - 34.42	TP36.5028x35.3677x0.78	2194.4750	4803.3667	0.457	0.0000	4803.3667	0.000
L34	(33) 34.42 - 32.5	TP36.9387x36.5028x0.78	2253.5250	4922.6083	0.458	0.0000	4922.6083	0.000
L35	(34) 32.5 - 32.25	TP36.9954x36.9387x0.61	2261.2417	3896.8167	0.580	0.0000	3896.8167	0.000
L36	(35) 32.25 - 31.42	TP37.1839x36.9954x0.6	2286.9250	3861.2167	0.592	0.0000	3861.2167	0.000
L37	(36) 31.42 - 31.17	TP37.2406x37.1839x0.77	2294.6750	4931.6750	0.465	0.0000	4931.6750	0.000
L38	(37) 31.17 - 29	TP37.7333x37.2406x0.76	2362.2417	4990.5667	0.473	0.0000	4990.5667	0.000
L39	(38) 29 - 28.65	TP37.8127x37.7333x0.67	2373.1917	4468.5917	0.531	0.0000	4468.5917	0.000
L40	(39) 28.65 - 28.42	TP37.8649x37.8127x0.67	2380.3917	4481.2750	0.531	0.0000	4481.2750	0.000
L41	(40) 28.42 - 23.5	TP38.9819x37.8649x0.66	2535.8000	4673.4583	0.543	0.0000	4673.4583	0.000
L42	(41) 23.5 - 23.25	TP39.0387x38.9819x0.78	2543.7667	5517.5750	0.461	0.0000	5517.5750	0.000
L43	(42) 23.25 - 23	TP39.0954x39.0387x0.78	2551.7417	5534.1333	0.461	0.0000	5534.1333	0.000
L44	(43) 23 - 22.75	TP39.1522x39.0954x0.65	2559.7167	4630.9750	0.553	0.0000	4630.9750	0.000
L45	(44) 22.75 - 17.75	TP40.2873x39.1522x0.63	2720.6833	4820.5250	0.564	0.0000	4820.5250	0.000
L46	(45) 17.75 - 12.75	TP41.4224x40.2873x0.62	2884.1833	5007.2833	0.576	0.0000	5007.2833	0.000
L47	(46) 12.75 - 7.75	TP42.5576x41.4224x0.61	3049.8417	5190.7583	0.588	0.0000	5190.7583	0.000
L48	(47) 7.75 - 2.75	TP43.6927x42.5576x0.6	3116.6167	5200.9000	0.599	0.0000	5200.9000	0.000
L49	(48) 2.75 - 0 (49)	TP44.317x43.6927x0.6	3217.3167	5370.4667	0.599	0.0000	5370.4667	0.000

### Pole Shear Design Data

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $\frac{V_u}{\phi V_n}$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	140 - 135 (1)	TP14.296x13.161x0.1875	5.3067	147.3550	0.036	0.0006	182.0642	0.000
L2	135 - 130 (2)	TP15.4309x14.296x0.1875	5.5037	159.2090	0.035	0.0006	212.5350	0.000

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $V_u$ $\phi V_n$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $T_u$ $\phi T_n$
L3	130 - 125 (3)	TP16.5659x15.4309x0.1875	11.0166	171.0630	0.064	0.0014	245.3617	0.000
L4	125 - 120 (4)	TP17.7008x16.5659x0.1875	11.1850	182.9170	0.061	0.0015	280.5450	0.000
L5	120 - 115 (5)	TP18.8358x17.7008x0.1875	16.2989	194.7710	0.084	0.1041	318.0850	0.000
L6	115 - 114.75 (6)	TP18.8925x18.8358x0.4625	16.3156	474.8120	0.034	0.1076	766.3508	0.000
L7	114.75 - 109.75 (7)	TP20.0275x18.8925x0.45	16.9099	490.7420	0.034	0.1783	841.3750	0.000
L8	109.75 - 104.75 (8)	TP21.1624x20.0275x0.425	20.2499	490.9400	0.041	0.2509	891.5833	0.000
L9	104.75 - 101.58 (9)	TP21.882x21.1624x0.418	20.6000	500.6500	0.041	0.3018	941.0417	0.000
L10	101.58 - 101.33 (10)	TP21.9388x21.882x0.3125	20.6149	376.4570	0.055	0.3115	712.9783	0.000
L11	101.33 - 96.33 (11)	TP23.0738x21.9388x0.3125	21.0998	396.2140	0.053	0.5099	789.7800	0.001
L12	96.33 - 91.33 (12)	TP24.2088x23.0738x0.3125	21.5652	415.9720	0.052	0.6195	870.5083	0.001
L13	91.33 - 91 (13)	TP24.2837x24.2088x0.3125	21.5829	417.2760	0.052	0.6232	875.9750	0.001
L14	91 - 90.75 (14)	TP24.3404x24.2837x0.6	21.6087	793.4570	0.027	0.6261	1649.6500	0.000
L15	90.75 - 85.75 (15)	TP25.4754x24.3404x0.5875	22.2023	814.4800	0.027	0.6849	1775.2083	0.000
L16	85.75 - 80.75 (16)	TP26.6104x25.4754x0.5625	22.7810	816.1680	0.028	0.7446	1861.8000	0.000
L17	80.75 - 75.75 (17)	TP27.7454x26.6104x0.55	23.3530	833.1870	0.028	0.8054	1984.3500	0.000
L18	75.75 - 70.75 (18)	TP28.8804x27.7454x0.5438	26.3111	858.2860	0.031	0.8594	2129.9083	0.000
L19	70.75 - 69.98 (19)	TP29.0552x28.8804x0.5313	26.3984	844.0980	0.031	0.8656	2108.5417	0.000
L20	69.98 - 69.73 (20)	TP29.112x29.0552x0.5313	26.4195	845.7770	0.031	0.8676	2116.9417	0.000
L21	69.73 - 64.73 (21)	TP30.247x29.112x0.525	26.9956	869.2020	0.031	0.9227	2262.4417	0.000
L22	64.73 - 63 (22)	TP30.6397x30.247x0.5188	27.2082	870.3830	0.031	0.9370	2295.9250	0.000
L23	63 - 62.75 (23)	TP30.6964x30.6397x0.7	27.2124	1169.6400	0.023	0.9390	3072.5583	0.000
L24	62.75 - 59.08 (24)	TP31.5295x30.6964x0.6875	27.6935	1181.1300	0.023	0.9660	3190.2250	0.000
L25	59.08 - 58.82 (25)	TP31.5885x31.5295x0.625	27.7129	1077.9900	0.026	0.9675	2923.1083	0.000
L26	58.82 - 58.67 (26)	TP31.6226x31.5885x0.625	27.7312	1079.1700	0.026	0.9684	2929.5417	0.000
L27	58.67 - 53.67 (27)	TP32.7576x31.6226x0.6125	28.3283	1096.7400	0.026	1.0050	3087.4417	0.000
L28	53.67 - 48.58 (28)	TP33.913x32.7576x0.6125	28.3980	1101.9300	0.026	1.0103	3116.7250	0.000
L29	48.58 - 47.58 (29)	TP33.5151x32.2847x0.6375	29.1846	1167.5200	0.025	0.9865	3361.5917	0.000
L30	47.58 - 42.58 (30)	TP34.6503x33.5151x0.625	29.7226	1184.5800	0.025	1.0314	3529.7750	0.000
L31	42.58 - 39.67 (31)	TP35.3109x34.6503x0.6125	30.0449	1183.8600	0.025	1.0511	3597.4000	0.000
L32	39.67 - 39.42 (32)	TP35.3677x35.3109x0.8125	30.0503	1563.9400	0.019	1.0526	4732.7500	0.000
L33	39.42 - 34.42 (33)	TP36.5028x35.3677x0.7875	30.6423	1566.7100	0.020	1.0830	4900.3000	0.000
L34	34.42 - 32.5 (34)	TP36.9387x36.5028x0.7875	30.8796	1585.8300	0.019	1.0932	5020.6417	0.000
L35	32.5 - 32.25 (35)	TP36.9954x36.9387x0.6125	30.8815	1241.3300	0.025	1.0943	3955.1750	0.000
L36	32.25 - 31.42 (36)	TP37.1839x36.9954x0.6	30.9813	1222.7100	0.025	1.0981	3917.3667	0.000
L37	31.42 - 31.17	TP37.2406x37.1839x0.77	30.9976	1574.2300	0.020	1.0992	5027.2833	0.000

Section No.	Elevation ft	Size	Actual $V_u$ K	$\phi V_n$ K	Ratio $\frac{V_u}{\phi V_n}$	Actual $T_u$ kip-ft	$\phi T_n$ kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L38	(37) 31.17 - 29	5 TP37.7333x37.2406x0.76	31.2607	1570.3000	0.020	1.1076	5084.1750	0.000
L39	(38) 29 - 28.65	25 TP37.8127x37.7333x0.67	31.2873	1396.3800	0.022	1.1090	4541.4917	0.000
L40	(39) 28.65 - 28.42	5 TP37.8649x37.8127x0.67	31.3104	1398.3400	0.022	1.1099	4554.2667	0.000
L41	(40) 28.42 - 23.5	5 TP38.9819x37.8649x0.66	31.8561	1414.1300	0.023	1.1310	4745.5583	0.000
L42	(41) 23.5 - 23.25	25 TP39.0387x38.9819x0.78	31.8655	1677.9500	0.019	1.1320	5620.8747	0.000
L43	(42) 23.25 - 23	75 TP39.0954x39.0387x0.78	31.8944	1680.4400	0.019	1.1330	5637.5667	0.000
L44	(43) 23 - 22.75	75 TP39.1522x39.0954x0.65	31.9223	1394.0600	0.023	1.1340	4700.5417	0.000
L45	(44) 22.75 - 17.75	75 TP40.2873x39.1522x0.63	32.4517	1408.0100	0.023	1.1594	4889.0667	0.000
L46	(45) 17.75 - 12.75	5 TP41.4224x40.2873x0.62	32.9508	1420.3500	0.023	1.1883	5074.6917	0.000
L47	(46) 12.75 - 7.75	5 TP42.5576x41.4224x0.61	33.3156	1431.1000	0.023	1.1882	5256.9250	0.000
L48	(47) 7.75 - 2.75	25 TP43.6927x42.5576x0.6	33.5324	1425.0800	0.024	1.1881	5264.8333	0.000
L49	(48) 2.75 - 0 (49)	TP44.317x43.6927x0.6	33.7821	1450.6900	0.023	1.1881	5435.2833	0.000

### Pole Interaction Design Data

Section No.	Elevation ft	Ratio $P_u$ $\phi P_n$	Ratio $M_{ux}$ $\phi M_{nx}$	Ratio $M_{uy}$ $\phi M_{ny}$	Ratio $V_u$ $\phi V_n$	Ratio $T_u$ $\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	140 - 135 (1)	0.009	0.119	0.000	0.036	0.000	0.130	1.050	4.8.2
L2	135 - 130 (2)	0.009	0.231	0.000	0.035	0.000	0.241	1.050	4.8.2
L3	130 - 125 (3)	0.015	0.385	0.000	0.064	0.000	0.404	1.050	4.8.2
L4	125 - 120 (4)	0.015	0.536	0.000	0.061	0.000	0.554	1.050	4.8.2
L5	120 - 115 (5)	0.021	0.708	0.000	0.084	0.000	0.735	1.050	4.8.2
L6	115 - 114.75 (6)	0.008	0.300	0.000	0.034	0.000	0.310	1.050	4.8.2
L7	114.75 - 109.75 (7)	0.009	0.374	0.000	0.034	0.000	0.384	1.050	4.8.2
L8	109.75 - 104.75 (8)	0.011	0.460	0.000	0.041	0.000	0.473	1.050	4.8.2
L9	104.75 - 101.58 (9)	0.011	0.506	0.000	0.041	0.000	0.519	1.050	4.8.2
L10	101.58 - 101.33 (10)	0.015	0.672	0.000	0.055	0.000	0.689	1.050	4.8.2
L11	101.33 - 96.33 (11)	0.015	0.740	0.000	0.053	0.001	0.757	1.050	4.8.2
L12	96.33 - 91.33 (12)	0.014	0.794	0.000	0.052	0.001	0.812	1.050	4.8.2
L13	91.33 - 91 (13)	0.014	0.798	0.000	0.052	0.001	0.815	1.050	4.8.2
L14	91 - 90.75 (14)	0.008	0.432	0.000	0.027	0.000	0.440	1.050	4.8.2
L15	90.75 - 85.75 (15)	0.008	0.464	0.000	0.027	0.000	0.472	1.050	4.8.2
L16	85.75 - 80.75 (16)	0.008	0.503	0.000	0.028	0.000	0.512	1.050	4.8.2
L17	80.75 - 75.75 (17)	0.009	0.531	0.000	0.028	0.000	0.540	1.050	4.8.2
L18	75.75 - 70.75 (18)	0.010	0.554	0.000	0.031	0.000	0.565	1.050	4.8.2
L19	70.75 - 69.98 (19)	0.010	0.569	0.000	0.031	0.000	0.580	1.050	4.8.2

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		$P_u$	$M_{ux}$	$M_{uy}$	$V_u$	$T_u$			
		$\phi P_n$	$\phi M_{nx}$	$\phi M_{ny}$	$\phi V_n$	$\phi T_n$			
L20	69.98 - 69.73 (20)	0.010	0.570	0.000	0.031	0.000	0.581	1.050	4.8.2
L21	69.73 - 64.73 (21)	0.011	0.593	0.000	0.031	0.000	0.604	1.050	4.8.2
L22	64.73 - 63 (22)	0.011	0.604	0.000	0.031	0.000	0.616	1.050	4.8.2
L23	63 - 62.75 (23)	0.008	0.457	0.000	0.023	0.000	0.465	1.050	4.8.2
L24	62.75 - 59.08 (24)	0.008	0.472	0.000	0.023	0.000	0.480	1.050	4.8.2
L25	59.08 - 58.82 (25)	0.009	0.516	0.000	0.026	0.000	0.526	1.050	4.8.2
L26	58.82 - 58.67 (26)	0.009	0.516	0.000	0.026	0.000	0.526	1.050	4.8.2
L27	58.67 - 53.67 (27)	0.009	0.536	0.000	0.026	0.000	0.546	1.050	4.8.2
L28	53.67 - 48.58 (28)	0.009	0.537	0.000	0.026	0.000	0.547	1.050	4.8.2
L29	48.58 - 47.58 (29)	0.010	0.545	0.000	0.025	0.000	0.555	1.050	4.8.2
L30	47.58 - 42.58 (30)	0.010	0.561	0.000	0.025	0.000	0.572	1.050	4.8.2
L31	42.58 - 39.67 (31)	0.010	0.575	0.000	0.025	0.000	0.585	1.050	4.8.2
L32	39.67 - 39.42 (32)	0.008	0.441	0.000	0.019	0.000	0.449	1.050	4.8.2
L33	39.42 - 34.42 (33)	0.008	0.457	0.000	0.020	0.000	0.465	1.050	4.8.2
L34	34.42 - 32.5 (34)	0.008	0.458	0.000	0.019	0.000	0.466	1.050	4.8.2
L35	32.5 - 32.25 (35)	0.010	0.580	0.000	0.025	0.000	0.591	1.050	4.8.2
L36	32.25 - 31.42 (36)	0.011	0.592	0.000	0.025	0.000	0.604	1.050	4.8.2
L37	31.42 - 31.17 (37)	0.008	0.465	0.000	0.020	0.000	0.474	1.050	4.8.2
L38	31.17 - 29 (38)	0.008	0.473	0.000	0.020	0.000	0.482	1.050	4.8.2
L39	29 - 28.65 (39)	0.010	0.531	0.000	0.022	0.000	0.541	1.050	4.8.2
L40	28.65 - 28.42 (40)	0.010	0.531	0.000	0.022	0.000	0.541	1.050	4.8.2
L41	28.42 - 23.5 (41)	0.010	0.543	0.000	0.023	0.000	0.553	1.050	4.8.2
L42	23.5 - 23.25 (42)	0.008	0.461	0.000	0.019	0.000	0.470	1.050	4.8.2
L43	23.25 - 23 (43)	0.008	0.461	0.000	0.019	0.000	0.470	1.050	4.8.2
L44	23 - 22.75 (44)	0.010	0.553	0.000	0.023	0.000	0.563	1.050	4.8.2
L45	22.75 - 17.75 (45)	0.010	0.564	0.000	0.023	0.000	0.575	1.050	4.8.2
L46	17.75 - 12.75 (46)	0.011	0.576	0.000	0.023	0.000	0.587	1.050	4.8.2
L47	12.75 - 7.75 (47)	0.011	0.588	0.000	0.023	0.000	0.599	1.050	4.8.2
L48	7.75 - 2.75 (48)	0.012	0.599	0.000	0.024	0.000	0.611	1.050	4.8.2
L49	2.75 - 0 (49)	0.012	0.599	0.000	0.023	0.000	0.611	1.050	4.8.2

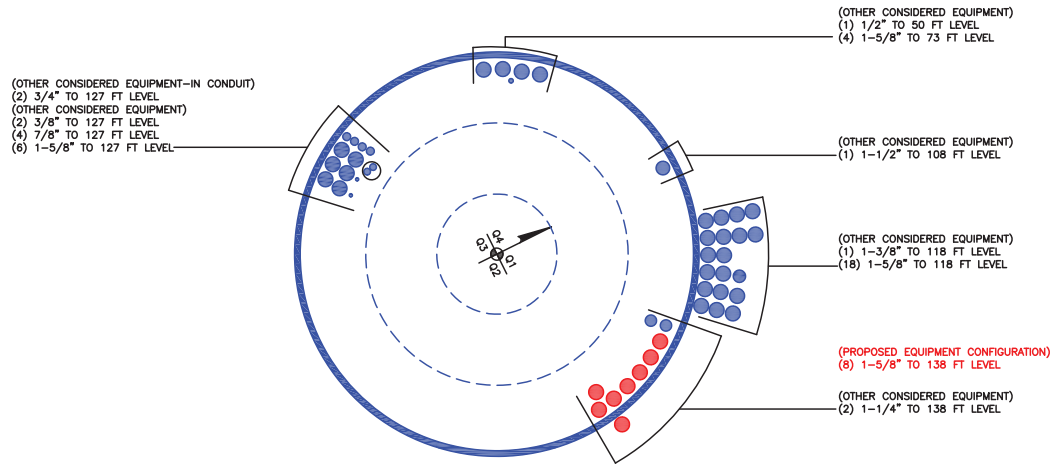
**Section Capacity Table**

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\sigma P_{allow}$ K	% Capacity	Pass Fail	
L1	140 - 135	Pole	TP14.296x13.161x0.1875	1	-4.4065	515.7421	12.3	Pass	
L2	135 - 130	Pole	TP15.4309x14.296x0.1875	2	-4.6218	557.2318	22.9	Pass	
L3	130 - 125	Pole	TP16.5659x15.4309x0.1875	3	-8.6317	598.7205	38.5	Pass	
L4	125 - 120	Pole	TP17.7008x16.5659x0.1875	4	-9.0080	640.2091	52.8	Pass	
L5	120 - 115	Pole	TP18.8358x17.7008x0.1875	5	-13.3312	681.6978	70.0	Pass	
L6	115 - 114.75	Pole	TP18.8925x18.8358x0.4625	6	-13.3829	1661.8454	29.5	Pass	
L7	114.75 - 109.75	Pole	TP20.0275x18.8925x0.45	7	-14.0965	1717.6004	36.5	Pass	
L8	109.75 - 104.75	Pole	TP21.1624x20.0275x0.425	8	-17.7981	1718.2934	45.1	Pass	
L9	104.75 - 101.58	Pole	TP21.882x21.1624x0.4188	9	-18.3165	1752.2714	49.4	Pass	
L10	101.58 - 101.33	Pole	TP21.9388x21.882x0.3125	10	-18.3661	1317.6029	65.7	Pass	
L11	101.33 - 96.33	Pole	TP23.0738x21.9388x0.3125	11	-19.1550	1386.7454	72.1	Pass	
L12	96.33 - 91.33	Pole	TP24.2088x23.0738x0.3125	12	-19.9983	1455.8984	77.3	Pass	
L13	91.33 - 91	Pole	TP24.2837x24.2088x0.3125	13	-20.0696	1460.4659	77.6	Pass	
L14	91 - 90.75	Pole	TP24.3404x24.2837x0.6	14	-20.1304	2777.1029	41.9	Pass	
L15	90.75 - 85.75	Pole	TP25.4754x24.3404x0.5875	15	-21.2638	2850.6764	45.0	Pass	
L16	85.75 - 80.75	Pole	TP26.6104x25.4754x0.5625	16	-22.4408	2856.5879	48.8	Pass	
L17	80.75 - 75.75	Pole	TP27.7454x26.6104x0.55	17	-23.6502	2916.1544	51.4	Pass	
L18	75.75 - 70.75	Pole	TP28.8804x27.7454x0.5438	18	-28.9906	3003.9974	53.8	Pass	
L19	70.75 - 69.98	Pole	TP29.0552x28.8804x0.5313	19	-29.1969	2954.3429	55.3	Pass	
L20	69.98 - 69.73	Pole	TP29.112x29.0552x0.5313	20	-29.2711	2960.2229	55.4	Pass	
L21	69.73 - 64.73	Pole	TP30.247x29.112x0.525	21	-30.5938	3042.2069	57.5	Pass	
L22	64.73 - 63	Pole	TP30.6397x30.247x0.5188	22	-31.0515	3046.3439	58.7	Pass	
L23	63 - 62.75	Pole	TP30.6964x30.6397x0.7	23	-31.1608	4093.7293	44.3	Pass	
L24	62.75 - 59.08	Pole	TP31.5295x30.6964x0.6875	24	-32.3943	4133.9653	45.8	Pass	
L25	59.08 - 58.82	Pole	TP31.5885x31.5295x0.625	25	-32.4909	3772.9648	50.1	Pass	
L26	58.82 - 58.67	Pole	TP31.6226x31.5885x0.625	26	-32.5413	3777.1123	50.1	Pass	
L27	58.67 - 53.67	Pole	TP32.7576x31.6226x0.6125	27	-34.1674	3838.6003	52.0	Pass	
L28	53.67 - 48.58	Pole	TP33.913x32.7576x0.6125	28	-34.3951	3856.7548	52.1	Pass	
L29	48.58 - 47.58	Pole	TP33.5151x32.2847x0.6375	29	-37.3340	4086.3268	52.9	Pass	
L30	47.58 - 42.58	Pole	TP34.6503x33.5151x0.625	30	-39.0098	4146.0403	54.4	Pass	
L31	42.58 - 39.67	Pole	TP35.3109x34.6503x0.6125	31	-39.9940	4143.4993	55.8	Pass	
L32	39.67 - 39.42	Pole	TP35.3677x35.3109x0.8125	32	-40.1152	5473.7968	42.8	Pass	
L33	39.42 - 34.42	Pole	TP36.5028x35.3677x0.7875	33	-42.1573	5483.4883	44.3	Pass	
L34	34.42 - 32.5	Pole	TP36.9387x36.5028x0.7875	34	-42.9440	5550.4152	44.4	Pass	
L35	32.5 - 32.25	Pole	TP36.9954x36.9387x0.6125	35	-43.0507	4344.6583	56.3	Pass	
L36	32.25 - 31.42	Pole	TP37.1839x36.9954x0.6	36	-43.3360	4279.4953	57.5	Pass	
L37	31.42 - 31.17	Pole	TP37.2406x37.1839x0.775	37	-43.4501	5509.8222	45.1	Pass	
L38	31.17 - 29	Pole	TP37.7333x37.2406x0.7625	38	-44.3504	5496.0463	45.9	Pass	
L39	29 - 28.65	Pole	TP37.8127x37.7333x0.675	39	-44.4988	4887.3193	51.5	Pass	
L40	28.65 - 28.42	Pole	TP37.8649x37.8127x0.675	40	-44.5925	4894.1968	51.5	Pass	
L41	28.42 - 23.5	Pole	TP38.9819x37.8649x0.6625	41	-46.5533	4949.4478	52.7	Pass	
L42	23.5 - 23.25	Pole	TP39.0387x38.9819x0.7875	42	-46.6859	5872.8282	44.7	Pass	
L43	23.25 - 23	Pole	TP39.0954x39.0387x0.7875	43	-46.8049	5881.5432	44.7	Pass	
L44	23 - 22.75	Pole	TP39.1522x39.0954x0.65	44	-46.9122	4879.2238	53.7	Pass	
L45	22.75 - 17.75	Pole	TP40.2873x39.1522x0.6375	45	-49.0625	4928.0278	54.8	Pass	
L46	17.75 - 12.75	Pole	TP41.4224x40.2873x0.625	46	-51.2507	4971.2458	55.9	Pass	
L47	12.75 - 7.75	Pole	TP42.5576x41.4224x0.6125	47	-53.4671	5008.8568	57.1	Pass	
L48	7.75 - 2.75	Pole	TP43.6927x42.5576x0.6	48	-54.3864	4961.2183	58.2	Pass	
L49	2.75 - 0	Pole	TP44.317x43.6927x0.6	49	-55.7430	5040.8818	58.2	Pass	
							Summary		
							Pole (L13)	77.6	Pass
							<b>RATING =</b>	<b>77.6</b>	<b>Pass</b>

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

**APPENDIX B**  
**BASE LEVEL DRAWING**





**APPENDIX C**  
**ADDITIONAL CALCULATIONS**

Site BU: 842873  
Work Order: 2028416

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**Pole Geometry**

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	140	38.42	0	18	13.161	21.882	0.1875	Auto	A572-65
2	101.58	53	4.42	18	21.88	33.913	0.3125	Auto	A572-65
3	53	53	0	18	32.28	44.317	0.3125	Auto	A572-65

**Reinforcement Configuration**

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0	31.42	plate	PL 5.75" x 1"	3	x						x						x					
2	32.5	48.67	plate	PL 5.75" x 1"	3						x						x						x
3	58.92	70.08	plate	PL 5.75" x 1" (Lu = 16")	3						x						x						x
4	0	59.08	channel	MP3-04 (1.25in)	3				x						x						x		
5	28.67	39.67	plate	CCI-SFP-060100	3			x						x							x		
6	0	23.5	plate	CCI-AFP-060100	3		x							x									x
7	52	63	plate	CCI-SFP-060100	3			x						x									x
8	70	91	plate	CCI-SFP-060100	3			x						x									x
9	101.58	115	plate	CCI-AFP-045100	3			x						x									x
10	23	29	plate	CCI-SFP-060100	2					x							x						
11																							

**Reinforcement Details**

	B (in)	H (in)	Gross Area (in <sup>2</sup> )	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in <sup>2</sup> )	Bolt Hole Size (in)	Reinforcement Material
1	5.75	1	5.75	0.5	PC 8.8 - M20 (100)	23	PC 8.8 - M20 (100)	23.000	14.000	4.438	1.2500	A572-65
2	5.75	1	5.75	0.5	PC 8.8 - M20 (100)	23	PC 8.8 - M20 (100)	23.000	14.000	4.438	1.2500	A572-65
3	5.75	1	5.75	0.5	PC 8.8 - M20 (100)	23	PC 8.8 - M20 (100)	23.000	16.000	4.438	1.2500	A572-65
4	4.78	1.61	4.13	0.61	PC 8.8 - M20 (100)	17	PC 8.8 - M20 (100)	17.000	18.000	3.566	1.2500	A572-65
5	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
6	6	1	6	0.5	PC 8.8 - M20 (100)	30	PC 8.8 - M20 (100)	30.000	16.000	4.750	1.1875	A572-65
7	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
8	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
9	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	20.000	3.250	1.1875	A572-65
10	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65

**Connection Details for Custom Reinforcements**

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
PL 5.75" x 1"	Top	8	N	3	2	70	None	-	-	-	-	-	-	-
	Bottom	8	N	3	2	70	None	-	-	-	-	-	-	-
PL 5.75" x 1" (Lu = 16")	Top	8	N	3	2	-	-	-	-	-	-	-	-	-
	Bottom	8	N	3	2	-	-	-	-	-	-	-	-	-

# TNX Geometry Input

Increment (ft):  [Export to TNX](#)

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	140 - 135	5		18	13.161	14.296	0.1875	A572-65	1.000
2	135 - 130	5		18	14.296	15.431	0.1875	A572-65	1.000
3	130 - 125	5		18	15.431	16.566	0.1875	A572-65	1.000
4	125 - 120	5		18	16.566	17.701	0.1875	A572-65	1.000
5	120 - 115	5		18	17.701	18.836	0.1875	A572-65	1.000
6	115 - 114.75	0.25		18	18.836	18.893	0.4625	A572-65	0.910
7	114.75 - 109.75	5		18	18.893	20.027	0.45	A572-65	0.905
8	109.75 - 104.75	5		18	20.027	21.162	0.425	A572-65	0.929
9	104.75 - 101.58	3.17	0	18	21.162	21.882	0.41875	A572-65	0.926
10	101.58 - 101.33	0.25		18	21.882	21.939	0.3125	A572-65	1.000
11	101.33 - 96.33	5		18	21.939	23.074	0.3125	A572-65	1.000
12	96.33 - 91.33	5		18	23.074	24.209	0.3125	A572-65	1.000
13	91.33 - 91	0.33		18	24.209	24.284	0.3125	A572-65	1.000
14	91 - 90.75	0.25		18	24.284	24.340	0.6	A572-65	0.925
15	90.75 - 85.75	5		18	24.340	25.475	0.5875	A572-65	0.926
16	85.75 - 80.75	5		18	25.475	26.610	0.5625	A572-65	0.948
17	80.75 - 75.75	5		18	26.610	27.745	0.55	A572-65	0.952
18	75.75 - 70.75	5		18	27.745	28.880	0.54375	A572-65	0.947
19	70.75 - 69.98	0.77		18	28.880	29.055	0.53125	A572-65	0.951
20	69.98 - 69.73	0.25		18	29.055	29.112	0.53125	A572-65	0.951
21	69.73 - 64.73	5		18	29.112	30.247	0.525	A572-65	0.948
22	64.73 - 63	1.73		18	30.247	30.640	0.51875	A572-65	0.954
23	63 - 62.75	0.25		18	30.640	30.696	0.7	A572-65	0.981
24	62.75 - 59.08	3.67		18	30.696	31.530	0.6875	A572-65	0.984
25	59.08 - 58.82	0.26		18	31.530	31.589	0.625	A572-65	1.000
26	58.82 - 58.67	0.15		18	31.589	31.623	0.625	A572-65	0.999
27	58.67 - 53.67	5		18	31.623	32.758	0.6125	A572-65	1.001
28	53.67 - 53	5.09	4.42	18	32.758	33.913	0.6125	A572-65	0.999
29	53 - 47.58	5.42		18	32.285	33.515	0.6375	A572-65	0.941
30	47.58 - 42.58	5		18	33.515	34.650	0.625	A572-65	0.944
31	42.58 - 39.67	2.91		18	34.650	35.311	0.6125	A572-65	0.954
32	39.67 - 39.42	0.25		18	35.311	35.368	0.8125	A572-65	0.925
33	39.42 - 34.42	5		18	35.368	36.503	0.7875	A572-65	0.936
34	34.42 - 32.5	1.92		18	36.503	36.939	0.7875	A572-65	0.929
35	32.5 - 32.25	0.25		18	36.939	36.995	0.6125	A572-65	0.944
36	32.25 - 31.42	0.83		18	36.995	37.184	0.6	A572-65	0.961
37	31.42 - 31.17	0.25		18	37.184	37.241	0.775	A572-65	0.939
38	31.17 - 29	2.17		18	37.241	37.733	0.7625	A572-65	0.947
39	29 - 28.65	0.35		18	37.733	37.813	0.675	A572-65	0.991
40	28.65 - 28.42	0.23		18	37.813	37.865	0.675	A572-65	0.990
41	28.42 - 23.5	4.92		18	37.865	38.982	0.6625	A572-65	0.993
42	23.5 - 23.25	0.25		18	38.982	39.039	0.7875	A572-65	1.026
43	23.25 - 23	0.25		18	39.039	39.095	0.7875	A572-65	1.025
44	23 - 22.75	0.25		18	39.095	39.152	0.65	A572-65	1.085
45	22.75 - 17.75	5		18	39.152	40.287	0.6375	A572-65	1.088
46	17.75 - 12.75	5		18	40.287	41.422	0.625	A572-65	1.092
47	12.75 - 7.75	5		18	41.422	42.558	0.6125	A572-65	1.098
48	7.75 - 2.75	5		18	42.558	43.693	0.6	A572-65	1.105
49	2.75 - 0	2.75		18	43.693	44.317	0.6	A572-65	1.096

## TNX Section Forces

Increment (ft):		TNX Output		
	5	P <sub>u</sub>	M <sub>ux</sub> (kip-ft)	V <sub>u</sub> (K)
	Section Height (ft)	(K)		
1	140 - 135	4.41	21.49	5.31
2	135 - 130	4.62	48.51	5.50
3	130 - 125	8.63	93.54	11.02
4	125 - 120	9.01	149.02	11.18
5	120 - 115	13.33	220.76	16.30
6	115 - 114.75	13.38	224.84	16.32
7	114.75 - 109.75	14.10	307.93	16.91
8	109.75 - 104.75	17.80	403.04	20.25
9	104.75 - 101.58	18.32	467.79	20.60
10	101.58 - 101.33	18.37	472.94	20.61
11	101.33 - 96.33	19.16	577.23	21.10
12	96.33 - 91.33	20.00	683.86	21.57
13	91.33 - 91	20.07	690.97	21.58
14	91 - 90.75	20.13	696.38	21.61
15	90.75 - 85.75	21.26	805.93	22.20
16	85.75 - 80.75	22.44	918.39	22.78
17	80.75 - 75.75	23.65	1033.72	23.35
18	75.75 - 70.75	28.99	1159.52	26.31
19	70.75 - 69.98	29.20	1179.81	26.40
20	69.98 - 69.73	29.27	1186.41	26.42
21	69.73 - 64.73	30.59	1319.96	27.00
22	64.73 - 63	31.05	1366.84	27.21
23	63 - 62.75	31.16	1373.64	27.21
24	62.75 - 59.08	32.39	1474.41	27.69
25	59.08 - 58.82	32.49	1481.61	27.71
26	58.82 - 58.67	32.54	1485.77	27.73
27	58.67 - 53.67	34.17	1625.95	28.33
28	53.67 - 53	34.40	1644.95	28.40
29	53 - 47.58	37.33	1800.99	29.18
30	47.58 - 42.58	39.01	1948.25	29.72
31	42.58 - 39.67	39.99	2035.19	30.04
32	39.67 - 39.42	40.12	2042.71	30.05
33	39.42 - 34.42	42.16	2194.47	30.64
34	34.42 - 32.5	42.94	2253.52	30.88
35	32.5 - 32.25	43.05	2261.25	30.88
36	32.25 - 31.42	43.34	2286.92	30.98
37	31.42 - 31.17	43.45	2294.67	31.00
38	31.17 - 29	44.35	2362.24	31.26
39	29 - 28.65	44.50	2373.19	31.29
40	28.65 - 28.42	44.59	2380.39	31.31
41	28.42 - 23.5	46.55	2535.80	31.86
42	23.5 - 23.25	46.69	2543.77	31.87
43	23.25 - 23	46.80	2551.74	31.89
44	23 - 22.75	46.91	2559.72	31.92
45	22.75 - 17.75	49.06	2720.69	32.45
46	17.75 - 12.75	51.25	2884.19	32.95
47	12.75 - 7.75	53.47	3049.84	33.32
48	7.75 - 2.75	55.71	3217.32	33.68
49	2.75 - 0	56.95	3310.19	33.88

# Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
140 - 135	Pole	TP14.296x13.161x0.1875	Pole	12.3%	Pass
135 - 130	Pole	TP15.431x14.296x0.1875	Pole	22.9%	Pass
130 - 125	Pole	TP16.566x15.431x0.1875	Pole	38.5%	Pass
125 - 120	Pole	TP17.701x16.566x0.1875	Pole	52.8%	Pass
120 - 115	Pole	TP18.836x17.701x0.1875	Pole	70.0%	Pass
115 - 114.75	Pole + Reinf.	TP18.893x18.836x0.4625	Reinf. 9 Tension Rupture	51.4%	Pass
114.75 - 109.75	Pole + Reinf.	TP20.027x18.893x0.45	Reinf. 9 Tension Rupture	64.6%	Pass
109.75 - 104.75	Pole + Reinf.	TP21.162x20.027x0.425	Reinf. 9 Tension Rupture	78.2%	Pass
104.75 - 101.58	Pole + Reinf.	TP21.882x21.162x0.4188	Reinf. 9 Tension Rupture	86.3%	Pass
101.58 - 101.33	Pole	TP21.939x21.882x0.3125	Pole	65.6%	Pass
101.33 - 96.33	Pole	TP23.074x21.939x0.3125	Pole	72.0%	Pass
96.33 - 91.33	Pole	TP24.209x23.074x0.3125	Pole	77.2%	Pass
91.33 - 91	Pole	TP24.284x24.209x0.3125	Pole	77.5%	Pass
91 - 90.75	Pole + Reinf.	TP24.34x24.284x0.6	Reinf. 8 Tension Rupture	67.0%	Pass
90.75 - 85.75	Pole + Reinf.	TP25.475x24.34x0.5875	Reinf. 8 Tension Rupture	72.2%	Pass
85.75 - 80.75	Pole + Reinf.	TP26.61x25.475x0.5625	Reinf. 8 Tension Rupture	76.8%	Pass
80.75 - 75.75	Pole + Reinf.	TP27.745x26.61x0.55	Reinf. 8 Tension Rupture	80.9%	Pass
75.75 - 70.75	Pole + Reinf.	TP28.88x27.745x0.5438	Reinf. 8 Tension Rupture	85.2%	Pass
70.75 - 69.98	Pole + Reinf.	TP29.055x28.88x0.5313	Reinf. 3 Tension Rupture	89.6%	Pass
69.98 - 69.73	Pole + Reinf.	TP29.112x29.055x0.5313	Reinf. 3 Tension Rupture	89.9%	Pass
69.73 - 64.73	Pole + Reinf.	TP30.247x29.112x0.525	Reinf. 3 Tension Rupture	93.9%	Pass
64.73 - 63	Pole + Reinf.	TP30.64x30.247x0.5188	Reinf. 3 Tension Rupture	95.2%	Pass
63 - 62.75	Pole + Reinf.	TP30.696x30.64x0.7	Reinf. 3 Tension Rupture	73.5%	Pass
62.75 - 59.08	Pole + Reinf.	TP31.53x30.696x0.6875	Reinf. 3 Tension Rupture	75.8%	Pass
59.08 - 58.82	Pole + Reinf.	TP31.589x31.53x0.625	Reinf. 4 Tension Rupture	77.6%	Pass
58.82 - 58.67	Pole + Reinf.	TP31.623x31.589x0.625	Reinf. 4 Tension Rupture	77.6%	Pass
58.67 - 53.67	Pole + Reinf.	TP32.758x31.623x0.6125	Reinf. 4 Tension Rupture	80.5%	Pass
53.67 - 53	Pole + Reinf.	TP33.913x32.758x0.6125	Reinf. 4 Tension Rupture	80.8%	Pass
53 - 47.58	Pole + Reinf.	TP33.515x32.285x0.6375	Reinf. 2 Tension Rupture	85.8%	Pass
47.58 - 42.58	Pole + Reinf.	TP34.65x33.515x0.625	Reinf. 2 Tension Rupture	88.2%	Pass
42.58 - 39.67	Pole + Reinf.	TP35.311x34.65x0.6125	Reinf. 2 Tension Rupture	89.6%	Pass
39.67 - 39.42	Pole + Reinf.	TP35.368x35.311x0.8125	Reinf. 2 Tension Rupture	69.5%	Pass
39.42 - 34.42	Pole + Reinf.	TP36.503x35.368x0.7875	Reinf. 2 Tension Rupture	71.5%	Pass
34.42 - 32.5	Pole + Reinf.	TP36.939x36.503x0.7875	Reinf. 2 Tension Rupture	72.2%	Pass
32.5 - 32.25	Pole + Reinf.	TP36.995x36.939x0.6125	Reinf. 5 Tension Rupture	89.3%	Pass
32.25 - 31.42	Pole + Reinf.	TP37.184x36.995x0.6	Reinf. 5 Tension Rupture	89.6%	Pass
31.42 - 31.17	Pole + Reinf.	TP37.241x37.184x0.775	Reinf. 1 Tension Rupture	72.6%	Pass
31.17 - 29	Pole + Reinf.	TP37.733x37.241x0.7625	Reinf. 1 Tension Rupture	73.4%	Pass
29 - 28.65	Pole + Reinf.	TP37.813x37.733x0.675	Reinf. 1 Tension Rupture	87.4%	Pass
28.65 - 28.42	Pole + Reinf.	TP37.865x37.813x0.675	Reinf. 1 Tension Rupture	87.4%	Pass
28.42 - 23.5	Pole + Reinf.	TP38.982x37.865x0.6625	Reinf. 1 Tension Rupture	89.1%	Pass
23.5 - 23.25	Pole + Reinf.	TP39.039x38.982x0.7875	Reinf. 1 Tension Rupture	72.9%	Pass
23.25 - 23	Pole + Reinf.	TP39.095x39.039x0.7875	Reinf. 1 Tension Rupture	73.0%	Pass
23 - 22.75	Pole + Reinf.	TP39.152x39.095x0.65	Reinf. 1 Tension Rupture	88.6%	Pass
22.75 - 17.75	Pole + Reinf.	TP40.287x39.152x0.6375	Reinf. 1 Tension Rupture	90.2%	Pass
17.75 - 12.75	Pole + Reinf.	TP41.422x40.287x0.625	Reinf. 1 Tension Rupture	91.7%	Pass
12.75 - 7.75	Pole + Reinf.	TP42.558x41.422x0.6125	Reinf. 1 Tension Rupture	93.0%	Pass
7.75 - 2.75	Pole + Reinf.	TP43.693x42.558x0.6	Reinf. 1 Tension Rupture	94.3%	Pass
2.75 - 0	Pole + Reinf.	TP44.317x43.693x0.6	Reinf. 1 Tension Rupture	94.9%	Pass
				Summary	
			Pole	77.5%	Pass
			Reinforcement	95.2%	Pass
			Overall	95.2%	Pass

# Additional Calculations

Section Elevation (ft)	Moment of Inertia (in <sup>4</sup> )			Area (in <sup>2</sup> )			% Capacity*										
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10
140 - 135	211	n/a	211	8.40	n/a	8.40	12.3%										
135 - 130	266	n/a	266	9.07	n/a	9.07	22.9%										
130 - 125	330	n/a	330	9.75	n/a	9.75	38.5%										
125 - 120	404	n/a	404	10.42	n/a	10.42	52.8%										
120 - 115	487	n/a	487	11.10	n/a	11.10	70.0%										
115 - 114.75	492	680	1172	11.13	13.50	24.63	29.3%									51.4%	
114.75 - 109.75	587	758	1345	11.81	13.50	25.31	37.4%									64.6%	
109.75 - 104.75	694	841	1534	12.48	13.50	25.98	46.0%									78.2%	
104.75 - 101.58	767	896	1663	12.91	13.50	26.41	51.4%									86.3%	
101.58 - 101.33	1267	n/a	1267	21.45	n/a	21.45	65.6%										
101.33 - 96.33	1477	n/a	1477	22.58	n/a	22.58	72.0%										
96.33 - 91.33	1709	n/a	1709	23.70	n/a	23.70	77.2%										
91.33 - 91	1726	n/a	1726	23.78	n/a	23.78	77.5%										
91 - 90.75	1738	1473	3210	23.83	18.00	41.83	41.5%									67.0%	
90.75 - 85.75	1996	1605	3601	24.96	18.00	42.96	44.8%									72.2%	
85.75 - 80.75	2278	1743	4021	26.08	18.00	44.08	47.7%									76.8%	
80.75 - 75.75	2586	1887	4473	27.21	18.00	45.21	50.3%									80.9%	
75.75 - 70.75	2921	2037	4957	28.33	18.00	46.33	53.1%									85.2%	
70.75 - 69.98	2975	1972	4947	28.51	17.25	45.76	54.5%			89.6%							
69.98 - 69.73	2992	1980	4972	28.56	17.25	45.81	54.6%			89.9%							
69.73 - 64.73	3360	2130	5490	29.69	17.25	46.94	57.3%			93.9%							
64.73 - 63	3494	2183	5677	30.08	17.25	47.33	58.3%			95.2%							
63 - 62.75	3520	4069	7589	30.14	35.25	65.39	45.6%			73.5%						67.6%	
62.75 - 59.08	3817	4283	8100	30.96	35.25	66.21	47.4%			75.8%						69.8%	
59.08 - 58.82	3836	3575	7411	31.02	30.39	61.41	51.7%				77.6%					75.8%	
58.82 - 58.67	3848	3583	7431	31.05	30.39	61.44	51.8%				77.6%					75.9%	
58.67 - 53.67	4282	3833	8115	32.18	30.39	62.57	54.2%				80.5%					78.7%	
53.67 - 53	4342	3867	8209	32.33	30.39	62.72	54.6%				80.8%					79.1%	
53 - 47.58	4585	4469	9054	32.93	29.64	62.57	53.9%		85.8%		80.5%						
47.58 - 42.58	5072	4764	9836	34.06	29.64	63.70	55.9%		88.2%		82.8%						
42.58 - 39.67	5370	4941	10311	34.71	29.64	64.35	57.1%		89.6%		84.0%						
39.67 - 39.42	5396	7960	13356	34.77	47.64	82.41	44.4%		69.5%		65.2%	67.8%					
39.42 - 34.42	5938	8460	14398	35.89	47.64	83.53	46.1%		71.5%		67.0%	69.7%					
34.42 - 32.5	6155	8656	14811	36.33	47.64	83.97	46.7%		72.2%		67.7%	70.4%					
32.5 - 32.25	6183	5544	11728	36.38	30.39	66.77	59.3%				85.9%	89.3%					
32.25 - 31.42	6279	5599	11878	36.57	30.39	66.96	59.6%				86.2%	89.6%					
31.42 - 31.17	6308	8793	15102	36.63	47.64	84.27	47.2%	72.6%			68.1%	70.8%					
31.17 - 29	6564	9019	15584	37.12	47.64	84.76	47.9%	73.4%			68.8%	71.6%					
29 - 28.65	6667	7167	13834	37.19	41.64	78.83	58.7%	87.4%			86.1%						72.1%
28.65 - 28.42	6695	7186	13881	37.25	41.64	78.89	58.8%	87.4%			86.1%						72.2%
28.42 - 23.5	7308	7603	14911	38.35	41.64	79.99	60.5%	89.1%			87.8%						73.8%
23.5 - 23.25	7299	10570	17870	38.41	59.64	98.05	49.5%	72.9%			68.3%	66.5%					67.8%
23.25 - 23	7331	10600	17931	38.47	59.64	98.11	49.6%	73.0%			68.4%	66.6%					67.9%
23 - 22.75	7349	7433	14783	38.52	47.64	86.16	59.4%	88.6%			79.1%	69.8%					
22.75 - 17.75	8012	7855	15867	39.65	47.64	87.29	61.1%	90.2%			80.5%	71.2%					
17.75 - 12.75	8714	8288	17002	40.77	47.64	88.41	62.7%	91.7%			81.9%	72.6%					
12.75 - 7.75	9456	8733	18189	41.90	47.64	89.54	64.4%	93.0%			83.1%	73.8%					
7.75 - 2.75	10238	9190	19428	43.03	47.64	90.67	65.9%	94.3%			84.3%	74.9%					
2.75 - 0	10687	9446	20132	43.65	47.64	91.29	66.7%	94.9%			84.9%	75.5%					

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



# Monopole Flange Plate Connection

Elevation = 101.58 ft.

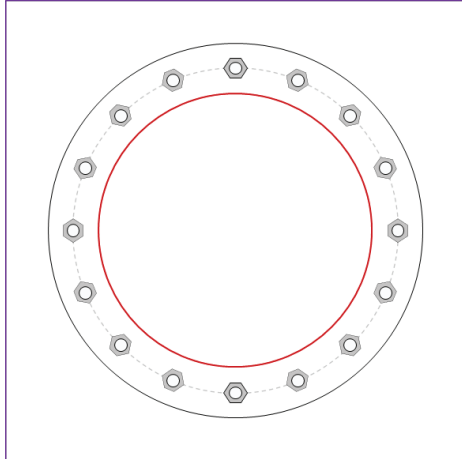


BU #	842873
Site Name	SHELTON NE
Order #	589479 Rev. 0
TIA-222 Revision	H

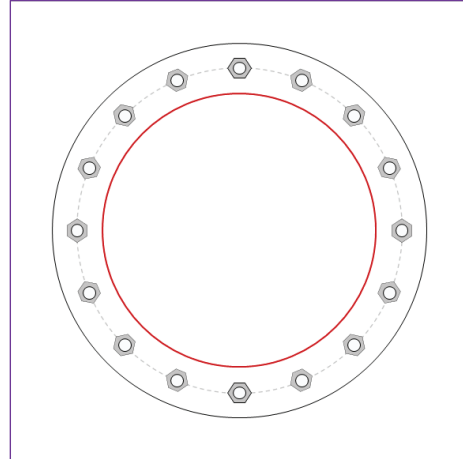
Applied Loads	
Moment (kip-ft)	467.79
Axial Force (kips)	18.32
Shear Force (kips)	20.60

\*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



### Connection Properties

#### Bolt Data

(16) 1"  $\phi$  bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 26" BC

#### Top Plate Data

30" OD x 1.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

#### Top Stiffener Data

N/A

#### Top Pole Data

21.882" x 0.1875" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

#### Bottom Plate Data

30" OD x 1.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

#### Bottom Stiffener Data

N/A

#### Bottom Pole Data

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

### Analysis Results

#### Bolt Capacity

Max Load (kips)	52.80
Allowable (kips)	54.50
Stress Rating:	<b>92.3%</b> Pass

#### Top Plate Capacity

Max Stress (ksi):	28.17	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	<b>59.6%</b>	Pass
Tension Side Stress Rating:	<b>52.5%</b>	Pass

#### Bottom Plate Capacity

Max Stress (ksi):	28.17	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	<b>59.6%</b>	Pass
Tension Side Stress Rating:	<b>52.5%</b>	Pass

# Monopole Base Plate Connection

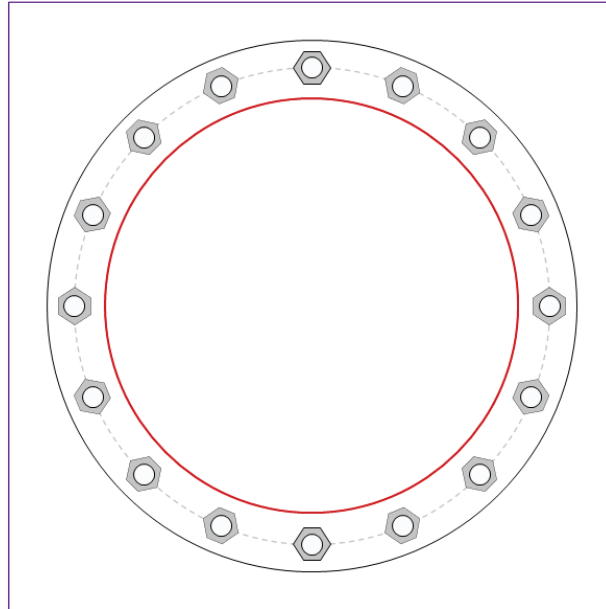


Site Info	
BU #	842873
Site Name	SHELTON NE
Order #	589479 Rev. 0

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

Applied Loads	
Moment (kip-ft)	3310.19
Axial Force (kips)	56.95
Shear Force (kips)	33.88

\*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data
GROUP 1: (8) 2-1/4" $\phi$ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 51" BC
GROUP 2: (4) 2-1/4" $\phi$ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 51" BC
GROUP 3: (4) 2-1/4" $\phi$ bolts (F1554-105 N; $F_y=105$ ksi, $F_u=125$ ksi) on 51" BC
Base Plate Data
57" OD x 2.25" Plate (A633 Grade E; $F_y=60$ ksi, $F_u=70$ ksi)
Stiffener Data
N/A
Pole Data
44.317" x 0.3125" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary	(units of kips, kip-in)		
GROUP 1:	$P_{u,t} = 187.44$	$\phi P_{n,t} = 243.75$	<b>Stress Rating</b>
	$V_u = 4.23$	$\phi V_n = 149.1$	<b>73.2%</b>
	$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>
GROUP 2:	$P_{u,t} = 194.38$	$\phi P_{n,t} = 243.75$	<b>Stress Rating</b>
	$V_u = 0$	$\phi V_n = 149.1$	<b>75.9%</b>
	$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>
GROUP 3:	$P_{u,t} = 194.38$	$\phi P_{n,t} = 304.69$	<b>Stress Rating</b>
	$V_u = 0$	$\phi V_n = 186.38$	<b>60.8%</b>
	$M_u = n/a$	$\phi M_n = n/a$	<b>Pass</b>
Base Plate Summary			
Max Stress (ksi):	36.86	(Flexural)	
Allowable Stress (ksi):	54		
Stress Rating:	<b>65.0%</b>		<b>Pass</b>

# CCIplate

Elevation (ft) = 0 (Base)

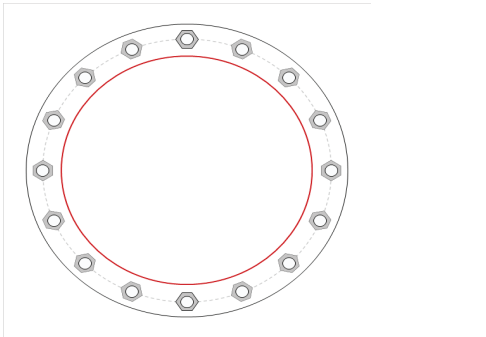
note: Bending interaction not considered when Grout Considered = "Yes"

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

## Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, $\eta$	$I_{br}$ (in)	Thread Type	Area Override, in <sup>2</sup>	Tension Only
1	1	0	2.25	A615-75	51	0.5	0	N-Included		No
2	1	45	2.25	A615-75	51	0.5	0	N-Included		No
3	1	90	2.25	A615-75	51	0.5	0	N-Included		No
4	1	135	2.25	A615-75	51	0.5	0	N-Included		No
5	1	180	2.25	A615-75	51	0.5	0	N-Included		No
6	1	225	2.25	A615-75	51	0.5	0	N-Included		No
7	1	270	2.25	A615-75	51	0.5	0	N-Included		No
8	1	315	2.25	A615-75	51	0.5	0	N-Included		No
9	2	67.5	2.25	A615-75	51	0.5	0	N-Included		No
10	2	157.5	2.25	A615-75	51	0.5	0	N-Included		No
11	2	247.5	2.25	A615-75	51	0.5	0	N-Included		No
12	2	337.5	2.25	A615-75	51	0.5	0	N-Included		No
13	3	112.5	2.25	F1554-105	51	0.5	0	N-Included		No
14	3	202.5	2.25	F1554-105	51	0.5	0	N-Included		No
15	3	292.5	2.25	F1554-105	51	0.5	0	N-Included		No
16	3	382.5	2.25	F1554-105	51	0.5	0	N-Included		No

## Plot Graphic



**Drilled Pier Foundation**

BU # :	842873
Site Name:	SHELTON NE
Order Number:	589479 Rev. 0
TIA-222 Revision:	H
Tower Type:	Monopole



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

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	3310.19	
Axial Force (kips)	56.97	
Shear Force (kips)	33.85	

Analysis Results		
Soil Lateral Check		
	Compression	Uplift
D <sub>top</sub> (ft from TOC)	3.78	-
Soil Safety Factor	1.60	-
Max Moment (kip-ft)	3436.55	-
Rating*	79.0%	-

Material Properties		
Concrete Strength, f <sub>c</sub> :	4	ksi
Rebar Strength, F <sub>y</sub> :	60	ksi
Tie Yield Strength, F <sub>y</sub> :	40	ksi

Rebar 2, F <sub>y</sub> Override (ksi)	
Rebar 3, F <sub>y</sub> Override (ksi)	

Soil Vertical Check		
	Compression	Uplift
Skin Friction (kips)	318.06	-
End Bearing (kips)	254.47	-
Weight of Concrete (kips)	73.80	-
Total Capacity (kips)	572.53	-
Axial (kips)	130.77	-
Rating*	21.8%	-

Pier Design Data	
Depth	14 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
From 0.5' above grade to 14' below grade	
Pier Diameter	6 ft
Rebar Quantity	26
Rebar Size	11
Clear Cover to Ties	3 in
Tie Size	5
Tie Spacing	in

Rebar & Pier Options  
 Embedded Pole Inputs  
 Belled Pier Inputs

Reinforced Concrete Flexure		
	Compression	Uplift
Critical Depth (ft from TOC)	3.81	-
Critical Moment (kip-ft)	3436.50	-
Critical Moment Capacity	5373.96	-
Rating*	60.9%	-

Reinforced Concrete Shear		
	Compression	Uplift
Critical Depth (ft from TOC)	10.91	-
Critical Shear (kip)	418.89	-
Critical Shear Capacity	596.83	-
Rating*	66.8%	-

Shear-Friction Methodology is Applied

Structural Foundation Rating*	66.8%
Soil Interaction Rating*	79.0%

\*Rating per TIA-222-H Section 15.5

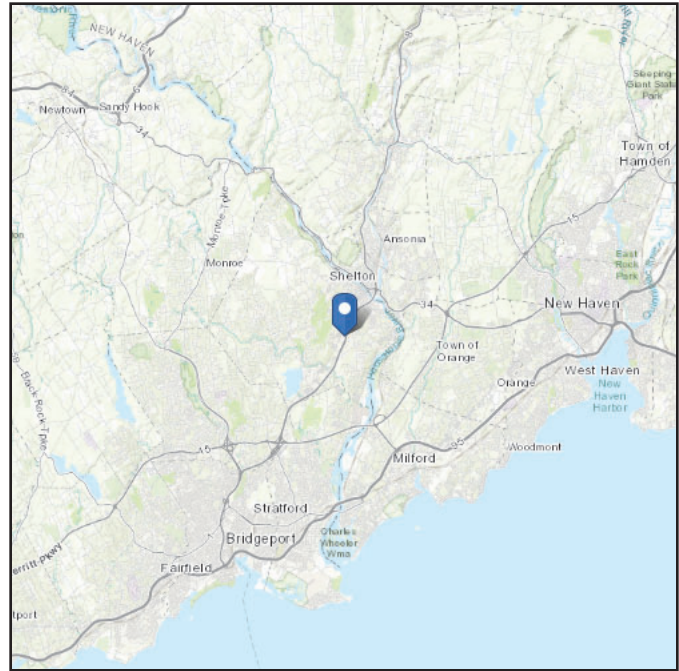
Soil Profile														
Groundwater Depth		n/a		# of Layers		2								
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ <sub>soil</sub> (pcf)	γ <sub>concrete</sub> (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	165	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3	14	11	165	150	4	0	2.045	2.045			12		Cohesive

# ASCE 7 Hazards Report

**Address:**  
No Address at This  
Location

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

**Elevation:** 311.07 ft (NAVD 88)  
**Latitude:** 41.293947  
**Longitude:** -73.107175



## Wind

### Results:

Wind Speed:	119 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Mon Oct 11 2021

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

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

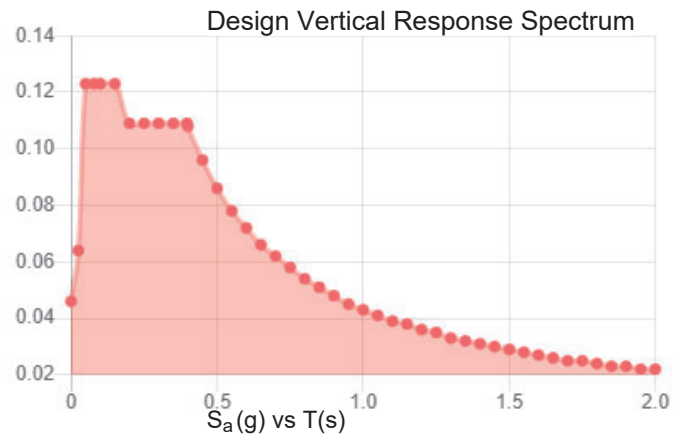
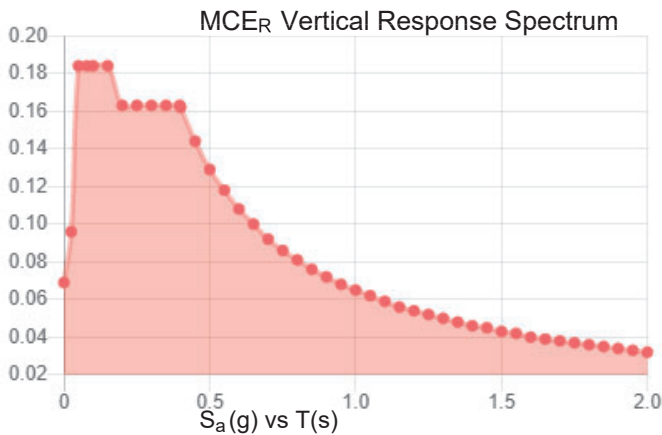
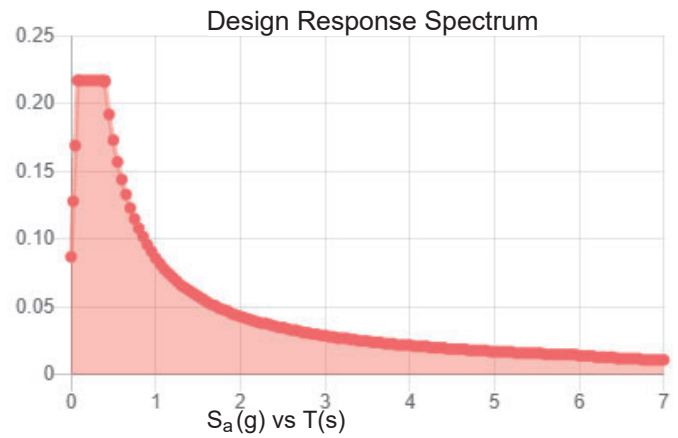
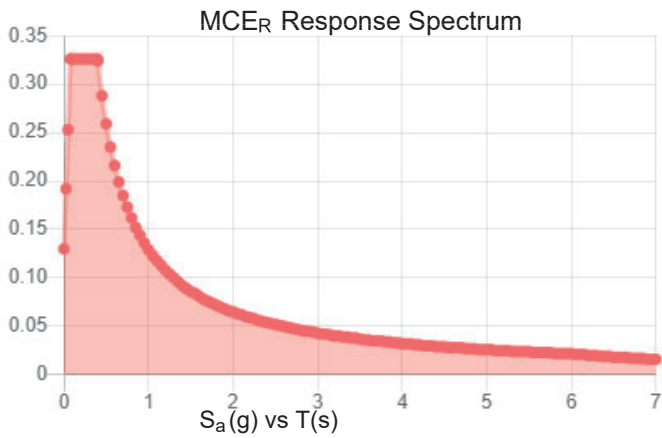


**Site Soil Class:** D - Default (see Section 11.4.3)

**Results:**

$S_s$ :	0.204	$S_{D1}$ :	0.086
$S_1$ :	0.054	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.115
$F_v$ :	2.4	PGA <sub>M</sub> :	0.18
$S_{MS}$ :	0.326	$F_{PGA}$ :	1.571
$S_{M1}$ :	0.129	$I_e$ :	1
$S_{DS}$ :	0.217	$C_v$ :	0.707

**Seismic Design Category** B



**Data Accessed:**

Mon Oct 11 2021

**Date Source:**

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

## Ice

---

**Results:**

Ice Thickness: 1.00 in.  
Concurrent Temperature: 15 F  
Gust Speed: 50 mph

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

**Date Accessed:** Mon Oct 11 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 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

---

The ASCE 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.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

# Exhibit E

## **Mount Analysis**



Maser Consulting Connecticut  
2000 Midlantic Drive, Suite 100  
Mt. Laurel, NJ 08054  
856.797.0412  
Peter.Albano@ColliersEngineering.com

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## Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10099780  
Maser Consulting Connecticut Project #: 21781040A

September 9, 2021

### Site Information

Site ID: 468414-VZW / SHELTON 2 CT  
Site Name: SHELTON 2 CT  
Carrier Name: Verizon Wireless  
Address: 70 Platt Road  
Shelton, Connecticut 06484  
Fairfield County  
Latitude: 41.293944°  
Longitude: -73.107178°

### Structure Information

Tower Type: 140-Ft Monopole  
Mount Type: 15.00-Ft Platform

FUZE ID # 16231897

### Analysis Results

Platform: 46.0 % 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 also Noted on Mount Modification Drawings**

**Requirements may also be Noted on A & E drawings**

**For additional questions and support, please reach out to:**

**[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)**

Report Prepared By: Grant Walters



## **Executive Summary:**

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

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:**

<b>Document Type</b>	<b>Remarks</b>
Radio Frequency Sheet (RFDS)	Verizon RFDS, Site ID: 675036, dated August 10, 2021
Mount Mapping Report	Hudson Design Group LLC., Site #: 468414, dated August 17, 2021
Previous Mount Analysis	Maser Consulting Connecticut, Project #: 21871040A dated August 27, 2021
Mount Modification Drawings	Maser Consulting Connecticut, Project #: 21871040A dated September 9, 2021

## **Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 119 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, $K_e$ : 0.989
Seismic Parameters:	$S_s$ : 0.204 $S_1$ : 0.054
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 mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
139.00	140.00	6	Quintel	QS6656-5D	Added
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Amphenol	BXA-80063-6BF-EDIN-0	Retained
		2	Raycap	RRFDC-3315-PF-48	

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
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

**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
Antenna Pipe	36.2 %	Pass
Standoff Horizontal	30.2 %	Pass
Grating Brace	11.5 %	Pass
Face Horizontal	17.2 %	Pass
Base Horizontal	43.2 %	Pass
Angle Plate	46.0 %	Pass
Bottom Plate	33.2 %	Pass
Support Rail	15.7 %	Pass
Support Rail Angle	28.0 %	Pass
Kicker	22.7 %	Pass
Mount Connection	21.8 %	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>46.0 %</b>
---	---------------

### **Recommendation:**

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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 PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



	<b>Antenna Mount Mapping Form (PATENT PENDING)</b>			FCC #
	<b>Tower Owner:</b>	CROWN CASTLE	<b>Mapping Date:</b>	8/17/2021
	<b>Site Name:</b>	SHELTON 2 CT	<b>Tower Type:</b>	Monopole
	<b>Site Number or ID:</b>	468414	<b>Tower Height (Ft.):</b>	142'-8"
<b>Mapping Contractor:</b>	HUDSON DESIGN GROUP LLC,	<b>Mount Elevation (Ft.):</b>	142.1	

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 the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

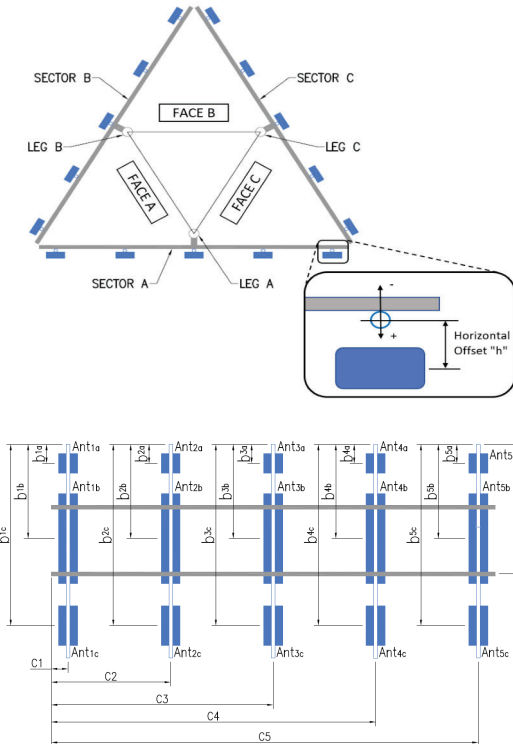
Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."
A1	2" STD. PIPE X 72" LONG	41.00	6.00	C1	2" STD. PIPE X 72" LONG	41.00	6.00
A2	2" STD. PIPE X 47" LONG	41.00	39.00	C2	2" STD. PIPE X 72" LONG	41.00	94.00
A3	2" STD. PIPE X 72" LONG	41.00	94.00	C3	2" STD. PIPE X 72" LONG	41.00	139.00
A4	2" STD. PIPE X 72" LONG	41.00	139.00	C4	2" STD. PIPE X 72" LONG	41.00	175.00
A5	2" STD. PIPE X 72" LONG	41.00	175.00	C5			
A6				C6			
B1	2" STD. PIPE X 72" LONG	41.00	6.00	D1			
B2	2" STD. PIPE X 72" LONG	41.00	94.00	D2			
B3	2" STD. PIPE X 72" LONG	41.00	139.00	D3			
B4	2" STD. PIPE X 72" LONG	41.00	175.00	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :  
 Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) : 4  
 Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) : 7

Please enter additional information or comments below.

Tower Face Width at Mount Elev. (ft.):	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	14
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.		0.375

Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b <sub>1a</sub> , b <sub>2a</sub> , b <sub>3a</sub> , b <sub>1b</sub> ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)		Antenna Azimuth (Degrees)
<b>Sector A</b>										
Ant <sub>1a</sub>	B4 RRH2X60-4R	11.00	6.00	36.00		144.35	14.00	-7.00		2
Ant <sub>1b</sub>	HBXX-6516DS-A2M	12.00	7.00	51.00		143.267	27.00	9.00	40.00	2
Ant <sub>1c</sub>										
Ant <sub>2a</sub>	RRFDC-3315-PF-48	15.70	10.30	28.90		144.767	9.00			2,144
Ant <sub>2b</sub>										
Ant <sub>2c</sub>										
Ant <sub>3a</sub>	B13 RRH4X30	12.00	8.00	21.00		144.6	11.00	-6.00		3
Ant <sub>3b</sub>	NO TAG	15.00	8.00	82.00		142.85	32.00	11.00	40.00	3
Ant <sub>3c</sub>										
Ant <sub>4a</sub>	B25 RRH 4X30	12.00	7.00	21.00		144.017	18.00	-7.00		4
Ant <sub>4b</sub>	HBXX-6516DS-A2M	12.00	7.00	82.00		143.267	27.00	9.00	40.00	4
Ant <sub>4c</sub>										
Ant <sub>5a</sub>	NO TAG	15.00	8.00	82.00		142.683	34.00	8.00	40.00	4
Ant <sub>5b</sub>										
Ant <sub>5c</sub>										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



**Antenna Layout (Looking Out From Tower)**





**Observed Safety and Structural Issues During the Mount Mapping**

Issue #	Description of Issue	Photo #
1	NO CLIMB CRANE SITE	
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)

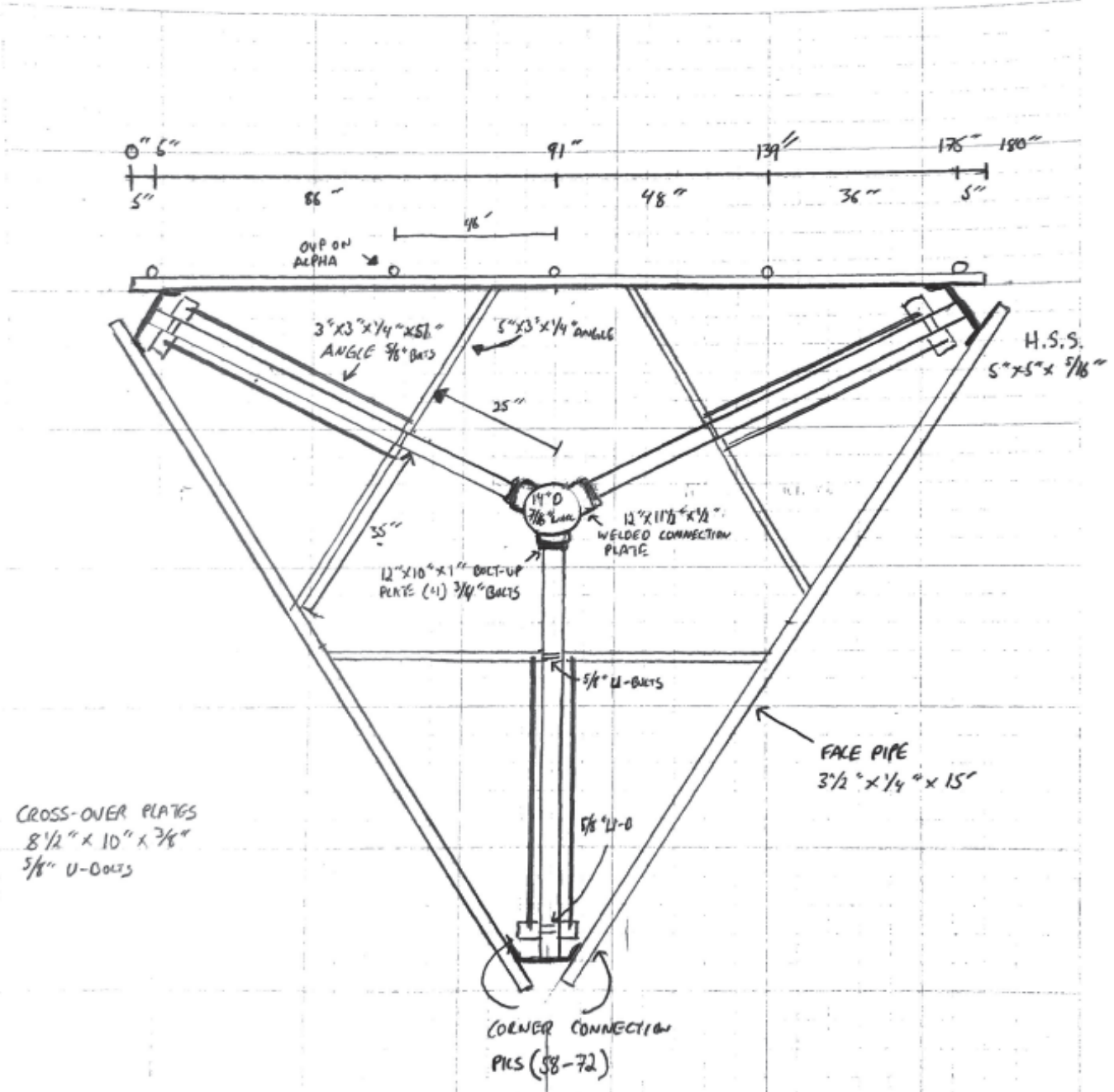
FCC #

Tower Owner:	CROWN CASTLE	Mapping Date:	8/17/2021
Site Name:	SHELTON 2 CT	Tower Type:	Monopole
Site Number or ID:	468414	Tower Height (FT):	142'-8"
Mapping Contractor:	HUDSON DESIGN GROUP LLC.	Mount Elevation (FT):	142.1

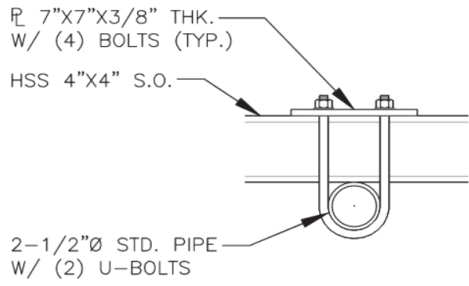
This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited 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

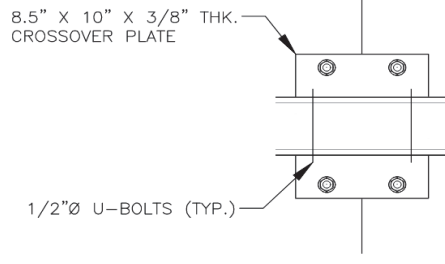
DATE: 08/17/2021  
 Project Name: COLLIERS  
 Project No.: SHELTON 2 CT  
 Design By: [Signature] Chk'd By: \_\_\_\_\_ Page 2 of 2



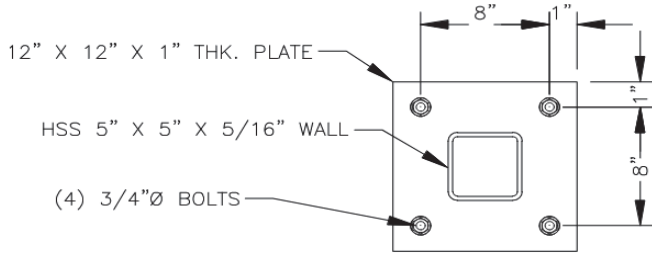
Please Insert Sketches of the Antenna Mount, cont'd



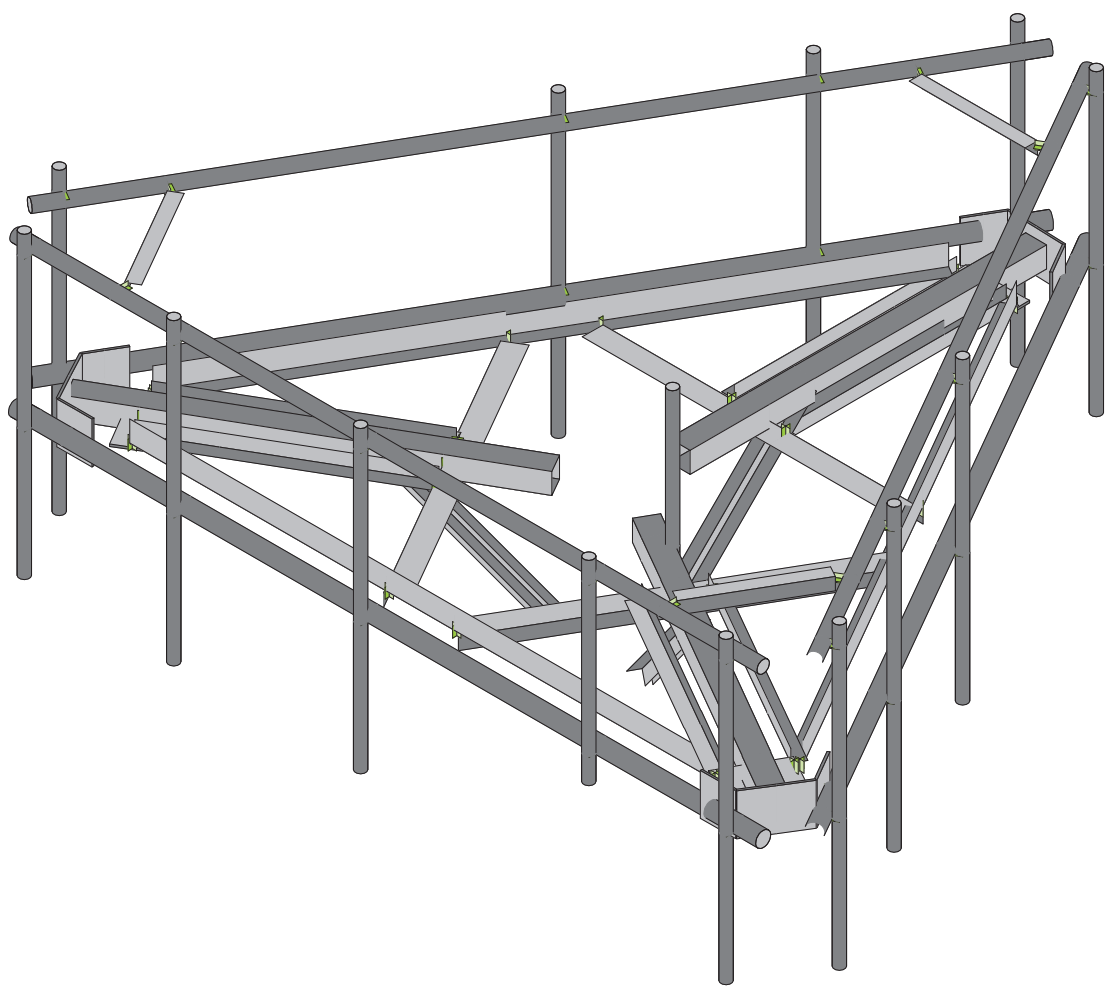
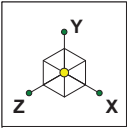
**CROSSOVER PLATE DETAIL (1 PLS.)**



**CROSSOVER PLATE  
DETAIL**



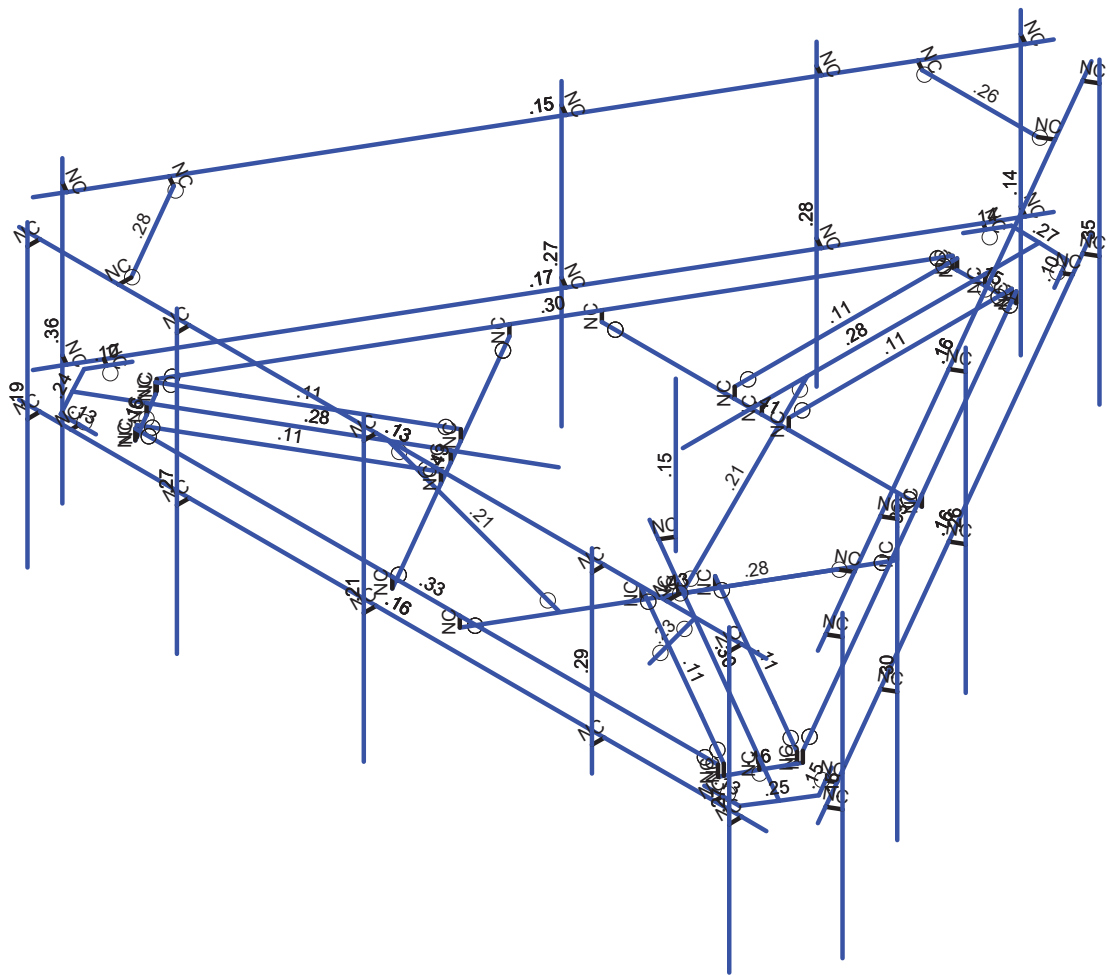
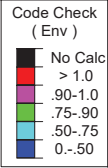
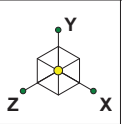
**STANDOFF TO RING  
MOUNT CONNECTION**



Maser Consulting

468414-VZW\_MT\_LO\_H

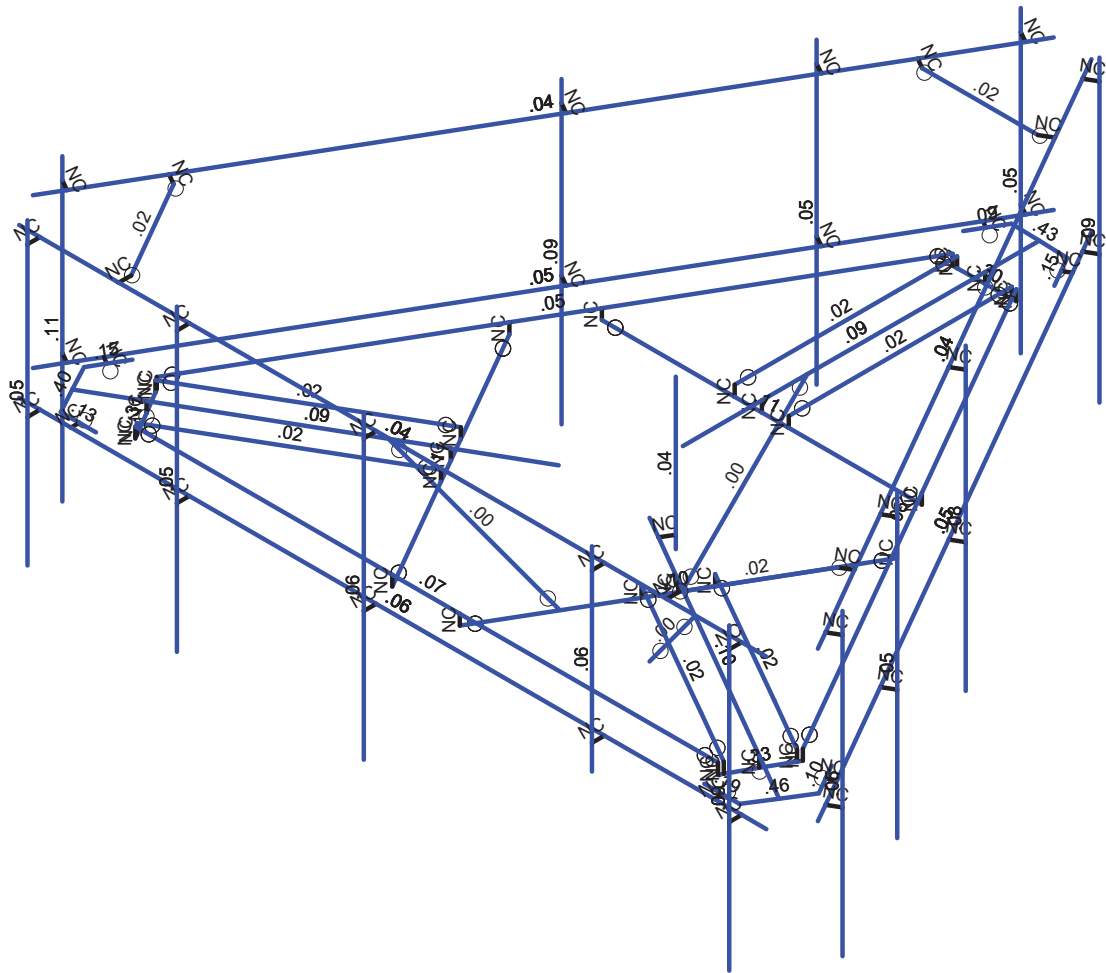
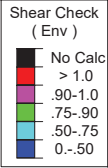
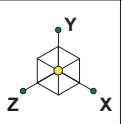
SK - 1  
Sept 7, 2021 at 11:29 AM  
468414-VZW\_MT\_LO\_H.r3d



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

Maser Consulting		SK - 2
	468414-VZW_MT_LO_H	Sept 7, 2021 at 11:29 AM
		468414-VZW_MT_LO_H.r3d





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

Maser Consulting		SK - 3
	468414-VZW_MT_LO_H	Sept 7, 2021 at 11:29 AM
		468414-VZW_MT_LO_H.r3d



**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					96		
2	Antenna Di	None					96		
3	Antenna Wo (0 Deg)	None					96		
4	Antenna Wo (30 Deg)	None					96		
5	Antenna Wo (60 Deg)	None					96		
6	Antenna Wo (90 Deg)	None					96		
7	Antenna Wo (120 Deg)	None					96		
8	Antenna Wo (150 Deg)	None					96		
9	Antenna Wo (180 Deg)	None					96		
10	Antenna Wo (210 Deg)	None					96		
11	Antenna Wo (240 Deg)	None					96		
12	Antenna Wo (270 Deg)	None					96		
13	Antenna Wo (300 Deg)	None					96		
14	Antenna Wo (330 Deg)	None					96		
15	Antenna Wi (0 Deg)	None					96		
16	Antenna Wi (30 Deg)	None					96		
17	Antenna Wi (60 Deg)	None					96		
18	Antenna Wi (90 Deg)	None					96		
19	Antenna Wi (120 Deg)	None					96		
20	Antenna Wi (150 Deg)	None					96		
21	Antenna Wi (180 Deg)	None					96		
22	Antenna Wi (210 Deg)	None					96		
23	Antenna Wi (240 Deg)	None					96		
24	Antenna Wi (270 Deg)	None					96		
25	Antenna Wi (300 Deg)	None					96		
26	Antenna Wi (330 Deg)	None					96		
27	Antenna Wm (0 Deg)	None					96		
28	Antenna Wm (30 Deg)	None					96		
29	Antenna Wm (60 Deg)	None					96		
30	Antenna Wm (90 Deg)	None					96		
31	Antenna Wm (120 Deg)	None					96		
32	Antenna Wm (150 Deg)	None					96		
33	Antenna Wm (180 Deg)	None					96		
34	Antenna Wm (210 Deg)	None					96		
35	Antenna Wm (240 Deg)	None					96		
36	Antenna Wm (270 Deg)	None					96		
37	Antenna Wm (300 Deg)	None					96		
38	Antenna Wm (330 Deg)	None					96		
39	Structure D	None		-1					3
40	Structure Di	None						53	3
41	Structure Wo (0 Deg)	None						106	
42	Structure Wo (30 Deg)	None						106	
43	Structure Wo (60 Deg)	None						106	
44	Structure Wo (90 Deg)	None						106	
45	Structure Wo (120 D...	None						106	
46	Structure Wo (150 D...	None						106	
47	Structure Wo (180 D...	None						106	
48	Structure Wo (210 D...	None						106	
49	Structure Wo (240 D...	None						106	
50	Structure Wo (270 D...	None						106	
51	Structure Wo (300 D...	None						106	
52	Structure Wo (330 D...	None						106	
53	Structure Wi (0 Deg)	None						106	
54	Structure Wi (30 Deg)	None						106	
55	Structure Wi (60 Deg)	None						106	
56	Structure Wi (90 Deg)	None						106	

### Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						106	
58	Structure Wi (150 De...	None						106	
59	Structure Wi (180 De...	None						106	
60	Structure Wi (210 De...	None						106	
61	Structure Wi (240 De...	None						106	
62	Structure Wi (270 De...	None						106	
63	Structure Wi (300 De...	None						106	
64	Structure Wi (330 De...	None						106	
65	Structure Wm (0 Deg)	None						106	
66	Structure Wm (30 De...	None						106	
67	Structure Wm (60 De...	None						106	
68	Structure Wm (90 De...	None						106	
69	Structure Wm (120 D...	None						106	
70	Structure Wm (150 D...	None						106	
71	Structure Wm (180 D...	None						106	
72	Structure Wm (210 D...	None						106	
73	Structure Wm (240 D...	None						106	
74	Structure Wm (270 D...	None						106	
75	Structure Wm (300 D...	None						106	
76	Structure Wm (330 D...	None						106	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	BLC 39 Transient Are...	None						30	
82	BLC 40 Transient Are...	None						30	

### Load Combinations

	Description	Solve	PD...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLC Fac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
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 D...	Yes	Y		1	1.2	39	1.2	7	1	45	1			
6	1.2D+1.0Wo (150 D...	Yes	Y		1	1.2	39	1.2	8	1	46	1			
7	1.2D+1.0Wo (180 D...	Yes	Y		1	1.2	39	1.2	9	1	47	1			
8	1.2D+1.0Wo (210 D...	Yes	Y		1	1.2	39	1.2	10	1	48	1			
9	1.2D+1.0Wo (240 D...	Yes	Y		1	1.2	39	1.2	11	1	49	1			
10	1.2D+1.0Wo (270 D...	Yes	Y		1	1.2	39	1.2	12	1	50	1			
11	1.2D+1.0Wo (300 D...	Yes	Y		1	1.2	39	1.2	13	1	51	1			
12	1.2D+1.0Wo (330 D...	Yes	Y		1	1.2	39	1.2	14	1	52	1			
13	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53
14	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54
15	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55
16	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56
17	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57
18	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58
19	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59
20	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60
21	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61
22	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62
23	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63
24	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1	
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1	



**Load Combinations (Continued)**

Description	Solve	PD	S...	BLCFac	BLCFac	BLCFac	BLCFac	BLC Fac	BLCFac	BLCFac	BLCFac	BLCFac	BLCFac
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1
48	1.2D + 1.5Lm2 + 1.0...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5				
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5				
51	1.4D	Yes	Y	1	1.4	39	1.4						
52	Seismic Mass		Y	1	1	39	1						
53	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX		SY	1	SZ	-1
54	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866
55	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5
56	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	1	SY	1	SZ	
57	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	.5
58	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	.866
59	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX		SY	1	SZ	1
60	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866
61	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5
62	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	-1	SY	1	SZ	
63	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5
64	1.2D + 1.0Ev + 1.0E...		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866

**Joint Coordinates and Temperatures**

Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-7.5	0	4.766667	0
2	N2	7.5	0	4.766667	0
3	N3	7	0	4.766667	0
4	N4	7	0	5.016667	0
5	N5	7	3.416667	5.016667	0
6	N6	7	-2.583333	5.016667	0
7	N7	0	0	-0.	0
8	N8	7.878054	0	4.111857	0
9	N9	0.378054	0	-8.878524	0
10	N10	-0.378054	0	-8.878524	0
11	N11	-7.878054	0	4.111857	0
12	N18	-6.458333	0	4.766667	0
13	N19	-5.833333	0	4.1	0
14	N20	6.458333	0	4.766667	0



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

Sept 7, 2021  
 11:29 AM  
 Checked By: \_\_\_\_\_

**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N21	-6.458333	0	4.6	0	
16	N22	6.458333	0	4.6	0	
17	N23	-6.833333	0	4.6	0	
18	N24	6.083333	0	4.6	0	
19	N25	-6.125	0	4.6	0	
20	N26	6.791667	0	4.6	0	
21	N27	7.400384	0	3.61784	0	
22	N28	0.587884	0	-8.181756	0	
23	N29	-0.56705	0	-8.21784	0	
24	N30	-7.37955	0	3.581756	0	
25	N31	-6.164398	0	3.548752	0	
26	N32	-6.479871	0	3.023465	0	
27	N33	-5.877718	0	4.026096	0	
28	N34	-6.43548	0	3.09738	0	
29	N35	7.096025	0	4.10892	0	
30	N36	0.010417	0	-8.199798	0	
31	N37	-5.833333	-0.208333	4.1	0	
32	N38	-6.479871	-0.208333	3.023465	0	
33	N39	-5.877718	-0.208333	4.026096	0	
34	N40	-6.43548	-0.208333	3.09738	0	
35	N41	-6.164398	-0.208333	3.548752	0	
36	N42	-7.106442	0	4.090878	0	
37	N43	6.467371	0	3.001815	0	
38	N44	6.155508	0	3.564149	0	
39	N45	5.858333	0	4.1	0	
40	N46	6.42556	0	3.077206	0	
41	N47	5.90015	0	4.024599	0	
42	N48	6.467371	-0.208333	3.001815	0	
43	N49	5.858333	-0.208333	4.1	0	
44	N50	6.42556	-0.208333	3.077206	0	
45	N51	5.90015	-0.208333	4.024599	0	
46	N52	6.155508	-0.208333	3.564149	0	
47	N53	-0.634037	0	-7.101815	0	
48	N54	0.008889	0	-7.112901	0	
49	N55	0.621537	0	-7.123465	0	
50	N56	-0.547842	0	-7.103301	0	
51	N57	0.53533	0	-7.121979	0	
52	N58	-0.634037	-0.208333	-7.101815	0	
53	N59	0.621537	-0.208333	-7.123465	0	
54	N60	-0.547842	-0.208333	-7.103301	0	
55	N61	0.53533	-0.208333	-7.121979	0	
56	N62	0.008889	-0.208333	-7.112901	0	
57	N63	7.357221	0	3.209747	0	
58	N64	0.898888	0	-7.976414	0	
59	N65	7.212884	0	3.293081	0	
60	N66	0.75455	0	-7.893081	0	
61	N67	0.94205	0	-7.568321	0	
62	N68	7.046217	0	3.004406	0	
63	N69	-0.898888	0	-7.976414	0	
64	N70	-7.357221	0	3.209747	0	
65	N71	-0.75455	0	-7.893081	0	
66	N72	-7.212884	0	3.293081	0	
67	N73	-7.025384	0	2.968321	0	
68	N74	-0.921217	0	-7.604406	0	
69	N75	-0.912954	0	0.526661	0	
70	N76	-2.014168	0	1.788469	0	
71	N77	-0.679605	-0.208333	4.1	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N78	-3.890507	-0.208333	-1.461445	0	
73	N79	-2.290443	0	1.319376	0	
74	N80	-2.555835	0	0.850275	0	
75	N81	-2.284999	-0.208333	1.319376	0	
76	N82	-2.014168	-0.208333	1.788469	0	
77	N83	-2.555835	-0.208333	0.850275	0	
78	N84	-0.679605	-0.	4.1	0	
79	N85	-3.890507	-0.	-1.461445	0	
80	N86	0.912579	0	0.527311	0	
81	N87	2.555944	0	0.850086	0	
82	N88	3.890507	-0.208333	-1.461445	0	
83	N89	0.679605	-0.208333	4.1	0	
84	N90	2.279696	0	1.31918	0	
85	N91	2.014277	0	1.78828	0	
86	N92	2.285113	-0.208333	1.31918	0	
87	N93	2.555944	-0.208333	0.850086	0	
88	N94	2.014277	-0.208333	1.78828	0	
89	N95	3.890507	-0.	-1.461445	0	
90	N96	0.679605	-0.	4.1	0	
91	N97	0.000375	0	-1.053972	0	
92	N98	-0.541776	0	-2.638555	0	
93	N99	-3.210902	-0.208333	-2.638555	0	
94	N100	3.210902	-0.208333	-2.638555	0	
95	N101	0.002602	0	-2.638555	0	
96	N102	0.541558	0	-2.638555	0	
97	N103	-0.000113	-0.208333	-2.638555	0	
98	N104	-0.541776	-0.208333	-2.638555	0	
99	N105	0.541558	-0.208333	-2.638555	0	
100	N106	-3.210902	-0.	-2.638555	0	
101	N107	3.210902	-0.	-2.638555	0	
102	N108	1.345591	0	0.777311	0	
103	N109	1.470591	0	0.560804	0	
104	N110	1.470591	-0.25	0.560804	0	
105	N111	1.470591	2.75	0.560804	0	
106	N112	4.25	0	4.766667	0	
107	N113	4.25	0	5.016667	0	
108	N114	4.25	3.416667	5.016667	0	
109	N115	4.25	-0.5	5.016667	0	
110	N116	-0.333333	0	4.766667	0	
111	N117	-0.333333	0	5.016667	0	
112	N118	-0.333333	3.416667	5.016667	0	
113	N119	-0.333333	-2.583333	5.016667	0	
114	N120	-4.083333	0	4.766667	0	
115	N121	-4.083333	0	5.016667	0	
116	N122	-4.083333	3.416667	5.016667	0	
117	N123	-4.083333	-2.583333	5.016667	0	
118	N124	-7.083333	0	4.766667	0	
119	N125	-7.083333	0	5.016667	0	
120	N126	-7.083333	3.416667	5.016667	0	
121	N127	-7.083333	-2.583333	5.016667	0	
122	N128	0.628054	0	-8.445511	0	
123	N129	0.844561	0	-8.570511	0	
124	N130	0.844561	3.416667	-8.570511	0	
125	N131	0.844561	-2.583333	-8.570511	0	
126	N132	4.294721	0	-2.094658	0	
127	N133	4.511227	0	-2.219658	0	
128	N134	4.511227	3.416667	-2.219658	0	





**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N135	4.511227	-2.583333	-2.219658	0	
130	N136	6.169721	0	1.152937	0	
131	N137	6.386227	0	1.027937	0	
132	N138	6.386227	3.416667	1.027937	0	
133	N139	6.386227	-2.583333	1.027937	0	
134	N140	7.669721	0	3.751013	0	
135	N141	7.886227	0	3.626013	0	
136	N142	7.886227	3.416667	3.626013	0	
137	N143	7.886227	-2.583333	3.626013	0	
138	N144	-7.628054	0	3.678844	0	
139	N145	-7.844561	0	3.553844	0	
140	N146	-7.844561	3.416667	3.553844	0	
141	N147	-7.844561	-2.583333	3.553844	0	
142	N148	-3.961388	0	-2.672008	0	
143	N149	-4.177894	0	-2.797008	0	
144	N150	-4.177894	3.416667	-2.797008	0	
145	N151	-4.177894	-2.583333	-2.797008	0	
146	N152	-2.086388	0	-5.919604	0	
147	N153	-2.302894	0	-6.044604	0	
148	N154	-2.302894	3.416667	-6.044604	0	
149	N155	-2.302894	-2.583333	-6.044604	0	
150	N156	-0.586388	0	-8.51768	0	
151	N157	-0.802894	0	-8.64268	0	
152	N158	-0.802894	3.416667	-8.64268	0	
153	N159	-0.802894	-2.583333	-8.64268	0	
154	N160	-0.547842	0	-5.853301	0	
155	N161	0.53533	0	-5.871979	0	
156	N162	-4.795187	0	3.401096	0	
157	N163	-5.352948	0	2.47238	0	
158	N164	5.343028	0	2.452206	0	
159	N165	4.817618	0	3.399599	0	
160	N160A	-7.5	3	4.766667	0	
161	N161A	7.5	3	4.766667	0	
162	N162A	7	3	4.766667	0	
163	N163A	7	3	5.016667	0	
164	N164A	7.878054	3	4.111857	0	
165	N165A	0.378054	3	-8.878524	0	
166	N166	-0.378054	3	-8.878524	0	
167	N167	-7.878054	3	4.111857	0	
168	N168	4.25	3	4.766667	0	
169	N169	4.25	3	5.016667	0	
170	N170	-0.333333	3	4.766667	0	
171	N171	-0.333333	3	5.016667	0	
172	N172	-4.083333	3	4.766667	0	
173	N173	-4.083333	3	5.016667	0	
174	N174	-7.083333	3	4.766667	0	
175	N175	-7.083333	3	5.016667	0	
176	N176	0.628054	3	-8.445511	0	
177	N177	0.844561	3	-8.570511	0	
178	N178	4.294721	3	-2.094658	0	
179	N179	4.511227	3	-2.219658	0	
180	N180	6.169721	3	1.152937	0	
181	N181	6.386227	3	1.027937	0	
182	N182	7.669721	3	3.751013	0	
183	N183	7.886227	3	3.626013	0	
184	N184	-7.628054	3	3.678844	0	
185	N185	-7.844561	3	3.553844	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
186	N186	-3.961388	3	-2.672008	0	
187	N187	-4.177894	3	-2.797008	0	
188	N188	-2.086388	3	-5.919604	0	
189	N189	-2.302894	3	-6.044604	0	
190	N190	-0.586388	3	-8.51768	0	
191	N191	-0.802894	3	-8.64268	0	
192	N192	-0.912954	-2.5	0.526661	0	
193	N193	0.912579	-2.5	0.527311	0	
194	N194	0.000375	-2.5	-1.053972	0	
195	N195	0.000375	0	-3.553972	0	
196	N197	-3.078017	0	1.776661	0	
197	N199	3.077642	0	1.777311	0	
198	N198	5.5	3	4.766667	0	
199	N199A	-5.5	3	4.766667	0	
200	N200	5.5	3	4.516667	0	
201	N201	-5.5	3	4.516667	0	
202	N202	1.378054	3	-7.146473	0	
203	N203	6.878054	3	2.379806	0	
204	N204	1.161548	3	-7.021473	0	
205	N205	6.661548	3	2.504806	0	
206	N206	-6.878054	3	2.379806	0	
207	N207	-1.378054	3	-7.146473	0	
208	N208	-6.661548	3	2.504806	0	
209	N209	-1.161548	3	-7.021473	0	

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design ...	A [in <sup>2</sup> ]	Iyy [in <sup>4</sup> ]	Izz [in <sup>4</sup> ]	J [in <sup>4</sup> ]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Angle Plate 2	PL3/8x4	Beam	Single Angle	A36 Gr.36	Typical	1.5	.018	2	.066
3	Standoff Horizontal	HSS5X5X5	Beam	HSS Pipe	A500 Gr. B 46	Typical	5.26	19	19	31.2
4	Grating Brace	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
6	Base Horizontal	L5X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.94	1.41	5.09	.044
7	Angle Plate	PL1/2x10	Beam	RECT	A36 Gr.36	Typical	5	.104	41.667	.404
8	Grating Connection	PL1/2x8	Beam	RECT	A36 Gr.36	Typical	4	.083	21.333	.32
9	Bottom Plate	PL1/2x8	Beam	RECT	A36 Gr.36	Typical	4	.083	21.333	.32
10	MOD Support rail	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
11	MOD Support rail Angle	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
12	MOD Kicker	LL3x3x3x6	Beam	Double Angl...	A36 Gr.36	Typical	2.18	4.97	1.9	.027

**Hot Rolled Steel Properties**

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

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
2	M2	N3	N4			RIGID	None	None	RIGID	Typical
3	MP1A	N5	N6			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
4	M4	N8	N9			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
5	M5	N10	N11			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
6	M9	N18	N21			RIGID	None	None	RIGID	Typical
7	M10	N20	N22			RIGID	None	None	RIGID	Typical
8	M11	N23	N25			Angle Plate	Beam	RECT	A36 Gr.36	Typical
9	M12	N24	N26			Angle Plate	Beam	RECT	A36 Gr.36	Typical
10	M13	N23	N30			Angle Plate	Beam	RECT	A36 Gr.36	Typical
11	M14	N42	N75			Standoff Horizontal	Beam	HSS Pipe	A500 Gr. ...	Typical
12	M15	N33	N76			Grating Brace	Beam	Single Angle	A36 Gr.36	Typical
13	M16	N34	N80		270	Grating Brace	Beam	Single Angle	A36 Gr.36	Typical
14	M17	N27	N26			Angle Plate	Beam	RECT	A36 Gr.36	Typical
15	M18	N29	N28			Angle Plate	Beam	RECT	A36 Gr.36	Typical
16	M19	N37	N38		90	Bottom Plate	Beam	RECT	A36 Gr.36	Typical
17	M20	N19	N37			RIGID	None	None	RIGID	Typical
18	M21	N32	N38			RIGID	None	None	RIGID	Typical
19	M22	N33	N39			RIGID	None	None	RIGID	Typical
20	M23	N34	N40			RIGID	None	None	RIGID	Typical
21	M24	N31	N41		60	RIGID	None	None	RIGID	Typical
22	M25	N48	N49		90	Bottom Plate	Beam	RECT	A36 Gr.36	Typical
23	M26	N43	N48			RIGID	None	None	RIGID	Typical
24	M27	N45	N49			RIGID	None	None	RIGID	Typical
25	M28	N46	N50			RIGID	None	None	RIGID	Typical
26	M29	N47	N51			RIGID	None	None	RIGID	Typical
27	M30	N44	N52		30	RIGID	None	None	RIGID	Typical
28	M31	N58	N59		90	Bottom Plate	Beam	RECT	A36 Gr.36	Typical
29	M32	N53	N58			RIGID	None	None	RIGID	Typical
30	M33	N55	N59			RIGID	None	None	RIGID	Typical
31	M34	N56	N60			RIGID	None	None	RIGID	Typical
32	M35	N57	N61			RIGID	None	None	RIGID	Typical
33	M36	N54	N62			RIGID	None	None	RIGID	Typical
34	M37	N63	N65			RIGID	None	None	RIGID	Typical
35	M38	N64	N66			RIGID	None	None	RIGID	Typical
36	M39	N27	N68			Angle Plate	Beam	RECT	A36 Gr.36	Typical
37	M40	N67	N28			Angle Plate	Beam	RECT	A36 Gr.36	Typical
38	M41	N69	N71			RIGID	None	None	RIGID	Typical
39	M42	N70	N72			RIGID	None	None	RIGID	Typical
40	M43	N29	N74			Angle Plate	Beam	RECT	A36 Gr.36	Typical
41	M44	N73	N30			Angle Plate	Beam	RECT	A36 Gr.36	Typical
42	M45	N77	N78		90	Base Horizontal	Beam	Single Angle	A36 Gr.36	Typical
43	M46	N84	N77			RIGID	None	None	RIGID	Typical
44	M47	N85	N78			RIGID	None	None	RIGID	Typical
45	M48	N35	N86			Standoff Horizontal	Beam	HSS Pipe	A500 Gr. ...	Typical
46	M49	N46	N87			Grating Brace	Beam	Single Angle	A36 Gr.36	Typical
47	M50	N47	N91		270	Grating Brace	Beam	Single Angle	A36 Gr.36	Typical
48	M51	N88	N89		90	Base Horizontal	Beam	Single Angle	A36 Gr.36	Typical
49	M52	N95	N88			RIGID	None	None	RIGID	Typical
50	M53	N96	N89			RIGID	None	None	RIGID	Typical
51	M54	N36	N97			Standoff Horizontal	Beam	HSS Pipe	A500 Gr. ...	Typical
52	M55	N56	N98			Grating Brace	Beam	Single Angle	A36 Gr.36	Typical
53	M56	N57	N102		270	Grating Brace	Beam	Single Angle	A36 Gr.36	Typical
54	M57	N99	N100		90	Base Horizontal	Beam	Single Angle	A36 Gr.36	Typical
55	M58	N98	N104			RIGID	None	None	RIGID	Typical
56	M59	N101	N103			RIGID	None	None	RIGID	Typical
57	M60	N102	N105			RIGID	None	None	RIGID	Typical

**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
58	M61	N106	N99			RIGID	None	None	RIGID	Typical
59	M62	N107	N100			RIGID	None	None	RIGID	Typical
60	M63	N76	N82		240	RIGID	None	None	RIGID	Typical
61	M64	N80	N83		240	RIGID	None	None	RIGID	Typical
62	M65	N87	N93		120	RIGID	None	None	RIGID	Typical
63	M66	N90	N92		120	RIGID	None	None	RIGID	Typical
64	M67	N91	N94		120	RIGID	None	None	RIGID	Typical
65	M68	N79	N81		240	RIGID	None	None	RIGID	Typical
66	M69	N109	N108			RIGID	None	None	RIGID	Typical
67	M70	N111	N110			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
68	M71	N112	N113			RIGID	None	None	RIGID	Typical
69	MP2A	N114	N115			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
70	M73	N116	N117			RIGID	None	None	RIGID	Typical
71	MP3A	N118	N119			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
72	M75	N120	N121			RIGID	None	None	RIGID	Typical
73	MP4A	N122	N123			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
74	M77	N124	N125			RIGID	None	None	RIGID	Typical
75	MP5A	N126	N127			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
76	M79	N128	N129			RIGID	None	None	RIGID	Typical
77	MP1C	N130	N131			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
78	M81	N132	N133			RIGID	None	None	RIGID	Typical
79	MP2C	N134	N135			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
80	M83	N136	N137			RIGID	None	None	RIGID	Typical
81	MP3C	N138	N139			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
82	M85	N140	N141			RIGID	None	None	RIGID	Typical
83	MP4C	N142	N143			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
84	M87	N144	N145			RIGID	None	None	RIGID	Typical
85	MP1B	N146	N147			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
86	M89	N148	N149			RIGID	None	None	RIGID	Typical
87	MP2B	N150	N151			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
88	M91	N152	N153			RIGID	None	None	RIGID	Typical
89	MP3B	N154	N155			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
90	M93	N156	N157			RIGID	None	None	RIGID	Typical
91	MP4B	N158	N159			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
92	M96	N45	N19			Base Horizontal	Beam	Single Angle	A36 Gr.36	Typical
93	M93A	N55	N43			Base Horizontal	Beam	Single Angle	A36 Gr.36	Typical
94	M94	N32	N53			Base Horizontal	Beam	Single Angle	A36 Gr.36	Typical
95	M95	N160A	N161A			MOD Support rail	Beam	Pipe	A53 Gr. B	Typical
96	M96A	N162A	N163A			RIGID	None	None	RIGID	Typical
97	M97	N164A	N165A			MOD Support rail	Beam	Pipe	A53 Gr. B	Typical
98	M98	N166	N167			MOD Support rail	Beam	Pipe	A53 Gr. B	Typical
99	M99	N168	N169			RIGID	None	None	RIGID	Typical
100	M100	N170	N171			RIGID	None	None	RIGID	Typical
101	M101	N172	N173			RIGID	None	None	RIGID	Typical
102	M102	N174	N175			RIGID	None	None	RIGID	Typical
103	M103	N176	N177			RIGID	None	None	RIGID	Typical
104	M104	N178	N179			RIGID	None	None	RIGID	Typical
105	M105	N180	N181			RIGID	None	None	RIGID	Typical
106	M106	N182	N183			RIGID	None	None	RIGID	Typical
107	M107	N184	N185			RIGID	None	None	RIGID	Typical
108	M108	N186	N187			RIGID	None	None	RIGID	Typical
109	M109	N188	N189			RIGID	None	None	RIGID	Typical
110	M110	N190	N191			RIGID	None	None	RIGID	Typical
111	M111	N195	N194			MOD Kicker	Beam	Double Angle ...	A36 Gr.36	Typical
112	M112	N197	N192			MOD Kicker	Beam	Double Angle ...	A36 Gr.36	Typical
113	M113	N199	N193			MOD Kicker	Beam	Double Angle ...	A36 Gr.36	Typical
114	M114	N201	N199A			RIGID	None	None	RIGID	Typical



**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
115	M115	N200	N198			RIGID	None	None	RIGID	Typical
116	M116	N205	N203			RIGID	None	None	RIGID	Typical
117	M117	N204	N202			RIGID	None	None	RIGID	Typical
118	M118	N209	N207			RIGID	None	None	RIGID	Typical
119	M119	N208	N206			RIGID	None	None	RIGID	Typical
120	M120	N209	N204		90	MOD Support rail ...	Beam	Single Angle	A36 Gr.36	Typical
121	M121	N201	N208		90	MOD Support rail ...	Beam	Single Angle	A36 Gr.36	Typical
122	M122	N205	N200		90	MOD Support rail ...	Beam	Single Angle	A36 Gr.36	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rati...A...	Inactive	Seismic ...
1	M1						Yes	Default		None
2	M2						Yes	** NA **		None
3	MP1A						Yes	** NA **		None
4	M4						Yes			None
5	M5						Yes			None
6	M9	OOOOOX					Yes	** NA **		None
7	M10	OOOOOX					Yes	** NA **		None
8	M11						Yes			None
9	M12						Yes			None
10	M13						Yes			None
11	M14						Yes	Default		None
12	M15	BenPIN	BenPIN				Yes	Default		None
13	M16	BenPIN	BenPIN				Yes	Default		None
14	M17						Yes			None
15	M18						Yes			None
16	M19						Yes	Default		None
17	M20						Yes	** NA **		None
18	M21						Yes	** NA **		None
19	M22						Yes	** NA **		None
20	M23						Yes	** NA **		None
21	M24	OOOOXO					Yes	** NA **		None
22	M25						Yes			None
23	M26						Yes	** NA **		None
24	M27						Yes	** NA **		None
25	M28						Yes	** NA **		None
26	M29						Yes	** NA **		None
27	M30	OOOOOX					Yes	** NA **		None
28	M31						Yes			None
29	M32						Yes	** NA **		None
30	M33						Yes	** NA **		None
31	M34						Yes	** NA **		None
32	M35						Yes	** NA **		None
33	M36	OOOOXO					Yes	** NA **		None
34	M37	OOOOOX					Yes	** NA **		None
35	M38	OOOOOX					Yes	** NA **		None
36	M39						Yes			None
37	M40						Yes			None
38	M41	OOOOOX					Yes	** NA **		None
39	M42	OOOOOX					Yes	** NA **		None
40	M43						Yes	Default		None
41	M44						Yes			None
42	M45	BenPIN	BenPIN				Yes	Default		None
43	M46						Yes	** NA **		None
44	M47						Yes	** NA **		None





**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rati...A...	Inactive	Seismic ...
45	M48						Yes	Default		None
46	M49	BenPIN	BenPIN				Yes	Default		None
47	M50	BenPIN	BenPIN				Yes	Default		None
48	M51	BenPIN	BenPIN				Yes	Default		None
49	M52						Yes	** NA **		None
50	M53						Yes	** NA **		None
51	M54						Yes	Default		None
52	M55	BenPIN	BenPIN				Yes	Default		None
53	M56	BenPIN	BenPIN				Yes	Default		None
54	M57	BenPIN	BenPIN				Yes	Default		None
55	M58						Yes	** NA **		None
56	M59						Yes	** NA **		None
57	M60						Yes	** NA **		None
58	M61						Yes	** NA **		None
59	M62						Yes	** NA **		None
60	M63						Yes	** NA **		None
61	M64						Yes	** NA **		None
62	M65						Yes	** NA **		None
63	M66						Yes	** NA **		None
64	M67						Yes	** NA **		None
65	M68						Yes	** NA **		None
66	M69						Yes	** NA **		None
67	M70						Yes	** NA **		None
68	M71						Yes	** NA **		None
69	MP2A						Yes	** NA **		None
70	M73						Yes	** NA **		None
71	MP3A						Yes	** NA **		None
72	M75						Yes	** NA **		None
73	MP4A						Yes	** NA **		None
74	M77						Yes	** NA **		None
75	MP5A						Yes	** NA **		None
76	M79						Yes	** NA **		None
77	MP1C						Yes	** NA **		None
78	M81						Yes	** NA **		None
79	MP2C						Yes	** NA **		None
80	M83						Yes	** NA **		None
81	MP3C						Yes	** NA **		None
82	M85						Yes	** NA **		None
83	MP4C						Yes	** NA **		None
84	M87						Yes	** NA **		None
85	MP1B						Yes	** NA **		None
86	M89						Yes	** NA **		None
87	MP2B						Yes	** NA **		None
88	M91						Yes	** NA **		None
89	MP3B						Yes	** NA **		None
90	M93						Yes	** NA **		None
91	MP4B						Yes	** NA **		None
92	M96	BenPIN	BenPIN				Yes	Default		None
93	M93A	BenPIN	BenPIN				Yes	Default		None
94	M94	BenPIN	BenPIN				Yes	Default		None
95	M95						Yes	Default		None
96	M96A						Yes	** NA **		None
97	M97						Yes			None
98	M98						Yes			None
99	M99						Yes	** NA **		None
100	M100						Yes	** NA **		None
101	M101						Yes	** NA **		None





**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rati...A...	Inactive	Seismic ...
102	M102						Yes	** NA **		None
103	M103						Yes	** NA **		None
104	M104						Yes	** NA **		None
105	M105						Yes	** NA **		None
106	M106						Yes	** NA **		None
107	M107						Yes	** NA **		None
108	M108						Yes	** NA **		None
109	M109						Yes	** NA **		None
110	M110						Yes	** NA **		None
111	M111	BenPIN	BenPIN				Yes	Default		None
112	M112	BenPIN	BenPIN				Yes	Default		None
113	M113	BenPIN	BenPIN				Yes	Default		None
114	M114		OOOOOO				Yes	** NA **		None
115	M115		OOOOOO				Yes	** NA **		None
116	M116		OOOOOO				Yes	** NA **		None
117	M117		OOOOOO				Yes	** NA **		None
118	M118		OOOOOO				Yes	** NA **		None
119	M119		OOOOOO				Yes	** NA **		None
120	M120						Yes	Default		None
121	M121						Yes	Default		None
122	M122						Yes	Default		None

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-32.5	1
2	MP1A	My	-.025	1
3	MP1A	Mz	.011	1
4	MP1A	Y	-32.5	5
5	MP1A	My	-.025	5
6	MP1A	Mz	.011	5
7	MP1B	Y	-32.5	1
8	MP1B	My	-.019	1
9	MP1B	Mz	-.02	1
10	MP1B	Y	-32.5	5
11	MP1B	My	-.019	5
12	MP1B	Mz	-.02	5
13	MP1C	Y	-32.5	1
14	MP1C	My	.023	1
15	MP1C	Mz	-.015	1
16	MP1C	Y	-32.5	5
17	MP1C	My	.023	5
18	MP1C	Mz	-.015	5
19	MP1A	Y	-32.5	1
20	MP1A	My	-.003	1
21	MP1A	Mz	-.027	1
22	MP1A	Y	-32.5	5
23	MP1A	My	-.003	5
24	MP1A	Mz	-.027	5
25	MP1B	Y	-32.5	1
26	MP1B	My	.024	1
27	MP1B	Mz	-.012	1
28	MP1B	Y	-32.5	5
29	MP1B	My	.024	5
30	MP1B	Mz	-.012	5
31	MP1C	Y	-32.5	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP1C	My	.008	1
33	MP1C	Mz	.026	1
34	MP1C	Y	-32.5	5
35	MP1C	My	.008	5
36	MP1C	Mz	.026	5
37	MP2B	Y	-43.55	1.5
38	MP2B	My	.004	1.5
39	MP2B	Mz	-.021	1.5
40	MP2B	Y	-43.55	3.5
41	MP2B	My	.004	3.5
42	MP2B	Mz	-.021	3.5
43	MP2C	Y	-43.55	1.5
44	MP2C	My	.02	1.5
45	MP2C	Mz	.007	1.5
46	MP2C	Y	-43.55	3.5
47	MP2C	My	.02	3.5
48	MP2C	Mz	.007	3.5
49	MP3A	Y	-43.55	1.5
50	MP3A	My	-.019	1.5
51	MP3A	Mz	-.011	1.5
52	MP3A	Y	-43.55	3.5
53	MP3A	My	-.019	3.5
54	MP3A	Mz	-.011	3.5
55	MP2A	Y	-84.4	.5
56	MP2A	My	-.037	.5
57	MP2A	Mz	-.021	.5
58	MP2B	Y	-84.4	.5
59	MP2B	My	-.007	.5
60	MP2B	Mz	.042	.5
61	MP2C	Y	-84.4	.5
62	MP2C	My	-.04	.5
63	MP2C	Mz	-.014	.5
64	MP1A	Y	-70.3	1.5
65	MP1A	My	.03	1.5
66	MP1A	Mz	.018	1.5
67	MP1B	Y	-70.3	1.5
68	MP1B	My	-.006	1.5
69	MP1B	Mz	.035	1.5
70	MP1C	Y	-70.3	1.5
71	MP1C	My	-.033	1.5
72	MP1C	Mz	-.012	1.5
73	MP3B	Y	-9.6	1
74	MP3B	My	.000834	1
75	MP3B	Mz	-.005	1
76	MP3B	Y	-9.6	5
77	MP3B	My	.000834	5
78	MP3B	Mz	-.005	5
79	MP3C	Y	-9.6	1
80	MP3C	My	.005	1
81	MP3C	Mz	.002	1
82	MP3C	Y	-9.6	5
83	MP3C	My	.005	5
84	MP3C	Mz	.002	5
85	MP4A	Y	-9.6	1
86	MP4A	My	-.004	1
87	MP4A	Mz	-.002	1
88	MP4A	Y	-9.6	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
89	MP4A	My	-.004	5
90	MP4A	Mz	-.002	5
91	MP2A	Y	-32	2
92	MP2A	My	.016	2
93	MP2A	Mz	0	2
94	M70	Y	-32	1
95	M70	My	-.016	1
96	M70	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	Y	-68.962	1
2	MP1A	My	-.053	1
3	MP1A	Mz	.023	1
4	MP1A	Y	-68.962	5
5	MP1A	My	-.053	5
6	MP1A	Mz	.023	5
7	MP1B	Y	-68.962	1
8	MP1B	My	-.039	1
9	MP1B	Mz	-.042	1
10	MP1B	Y	-68.962	5
11	MP1B	My	-.039	5
12	MP1B	Mz	-.042	5
13	MP1C	Y	-68.962	1
14	MP1C	My	.048	1
15	MP1C	Mz	-.031	1
16	MP1C	Y	-68.962	5
17	MP1C	My	.048	5
18	MP1C	Mz	-.031	5
19	MP1A	Y	-68.962	1
20	MP1A	My	-.007	1
21	MP1A	Mz	-.057	1
22	MP1A	Y	-68.962	5
23	MP1A	My	-.007	5
24	MP1A	Mz	-.057	5
25	MP1B	Y	-68.962	1
26	MP1B	My	.051	1
27	MP1B	Mz	-.026	1
28	MP1B	Y	-68.962	5
29	MP1B	My	.051	5
30	MP1B	Mz	-.026	5
31	MP1C	Y	-68.962	1
32	MP1C	My	.017	1
33	MP1C	Mz	.055	1
34	MP1C	Y	-68.962	5
35	MP1C	My	.017	5
36	MP1C	Mz	.055	5
37	MP2B	Y	-35.636	1.5
38	MP2B	My	.003	1.5
39	MP2B	Mz	-.018	1.5
40	MP2B	Y	-35.636	3.5
41	MP2B	My	.003	3.5
42	MP2B	Mz	-.018	3.5
43	MP2C	Y	-35.636	1.5
44	MP2C	My	.017	1.5
45	MP2C	Mz	.006	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
46	MP2C	Y	-35.636	3.5
47	MP2C	My	.017	3.5
48	MP2C	Mz	.006	3.5
49	MP3A	Y	-35.636	1.5
50	MP3A	My	-.015	1.5
51	MP3A	Mz	-.009	1.5
52	MP3A	Y	-35.636	3.5
53	MP3A	My	-.015	3.5
54	MP3A	Mz	-.009	3.5
55	MP2A	Y	-44.929	.5
56	MP2A	My	-.019	.5
57	MP2A	Mz	-.011	.5
58	MP2B	Y	-44.929	.5
59	MP2B	My	-.004	.5
60	MP2B	Mz	.022	.5
61	MP2C	Y	-44.929	.5
62	MP2C	My	-.021	.5
63	MP2C	Mz	-.008	.5
64	MP1A	Y	-40.405	1.5
65	MP1A	My	.017	1.5
66	MP1A	Mz	.01	1.5
67	MP1B	Y	-40.405	1.5
68	MP1B	My	-.004	1.5
69	MP1B	Mz	.02	1.5
70	MP1C	Y	-40.405	1.5
71	MP1C	My	-.019	1.5
72	MP1C	Mz	-.007	1.5
73	MP3B	Y	-50.456	1
74	MP3B	My	.004	1
75	MP3B	Mz	-.025	1
76	MP3B	Y	-50.456	5
77	MP3B	My	.004	5
78	MP3B	Mz	-.025	5
79	MP3C	Y	-50.456	1
80	MP3C	My	.024	1
81	MP3C	Mz	.009	1
82	MP3C	Y	-50.456	5
83	MP3C	My	.024	5
84	MP3C	Mz	.009	5
85	MP4A	Y	-50.456	1
86	MP4A	My	-.022	1
87	MP4A	Mz	-.013	1
88	MP4A	Y	-50.456	5
89	MP4A	My	-.022	5
90	MP4A	Mz	-.013	5
91	MP2A	Y	-87.967	2
92	MP2A	My	.044	2
93	MP2A	Mz	0	2
94	M70	Y	-87.967	1
95	M70	My	-.044	1
96	M70	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	0	1
2	MP1A	Z	-129.734	1



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP1A	Mx	-.042	1
4	MP1A	X	0	5
5	MP1A	Z	-129.734	5
6	MP1A	Mx	-.042	5
7	MP1B	X	0	1
8	MP1B	Z	-113.805	1
9	MP1B	Mx	.069	1
10	MP1B	X	0	5
11	MP1B	Z	-113.805	5
12	MP1B	Mx	.069	5
13	MP1C	X	0	1
14	MP1C	Z	-132.678	1
15	MP1C	Mx	.06	1
16	MP1C	X	0	5
17	MP1C	Z	-132.678	5
18	MP1C	Mx	.06	5
19	MP1A	X	0	1
20	MP1A	Z	-129.734	1
21	MP1A	Mx	.107	1
22	MP1A	X	0	5
23	MP1A	Z	-129.734	5
24	MP1A	Mx	.107	5
25	MP1B	X	0	1
26	MP1B	Z	-113.805	1
27	MP1B	Mx	.043	1
28	MP1B	X	0	5
29	MP1B	Z	-113.805	5
30	MP1B	Mx	.043	5
31	MP1C	X	0	1
32	MP1C	Z	-132.678	1
33	MP1C	Mx	-.106	1
34	MP1C	X	0	5
35	MP1C	Z	-132.678	5
36	MP1C	Mx	-.106	5
37	MP2B	X	0	1.5
38	MP2B	Z	-32.049	1.5
39	MP2B	Mx	.016	1.5
40	MP2B	X	0	3.5
41	MP2B	Z	-32.049	3.5
42	MP2B	Mx	.016	3.5
43	MP2C	X	0	1.5
44	MP2C	Z	-72.632	1.5
45	MP2C	Mx	-.012	1.5
46	MP2C	X	0	3.5
47	MP2C	Z	-72.632	3.5
48	MP2C	Mx	-.012	3.5
49	MP3A	X	0	1.5
50	MP3A	Z	-66.302	1.5
51	MP3A	Mx	.017	1.5
52	MP3A	X	0	3.5
53	MP3A	Z	-66.302	3.5
54	MP3A	Mx	.017	3.5
55	MP2A	X	0	.5
56	MP2A	Z	-57.068	.5
57	MP2A	Mx	.014	.5
58	MP2B	X	0	.5
59	MP2B	Z	-42.217	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP2B	Mx	-.021	.5
61	MP2C	X	0	.5
62	MP2C	Z	-59.813	.5
63	MP2C	Mx	.01	.5
64	MP1A	X	0	1.5
65	MP1A	Z	-55.092	1.5
66	MP1A	Mx	-.014	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-34.552	1.5
69	MP1B	Mx	-.017	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-58.888	1.5
72	MP1C	Mx	.01	1.5
73	MP3B	X	0	1
74	MP3B	Z	-68.752	1
75	MP3B	Mx	.034	1
76	MP3B	X	0	5
77	MP3B	Z	-68.752	5
78	MP3B	Mx	.034	5
79	MP3C	X	0	1
80	MP3C	Z	-114.515	1
81	MP3C	Mx	-.02	1
82	MP3C	X	0	5
83	MP3C	Z	-114.515	5
84	MP3C	Mx	-.02	5
85	MP4A	X	0	1
86	MP4A	Z	-107.377	1
87	MP4A	Mx	.027	1
88	MP4A	X	0	5
89	MP4A	Z	-107.377	5
90	MP4A	Mx	.027	5
91	MP2A	X	0	2
92	MP2A	Z	-135.1	2
93	MP2A	Mx	0	2
94	M70	X	0	1
95	M70	Z	-135.1	1
96	M70	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	67.633	1
2	MP1A	Z	-117.144	1
3	MP1A	Mx	-.09	1
4	MP1A	X	67.633	5
5	MP1A	Z	-117.144	5
6	MP1A	Mx	-.09	5
7	MP1B	X	57.863	1
8	MP1B	Z	-100.222	1
9	MP1B	Mx	.028	1
10	MP1B	X	57.863	5
11	MP1B	Z	-100.222	5
12	MP1B	Mx	.028	5
13	MP1C	X	67.3	1
14	MP1C	Z	-116.566	1
15	MP1C	Mx	.1	1
16	MP1C	X	67.3	5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
17	MP1C	Z	-116.566	5
18	MP1C	Mx	.1	5
19	MP1A	X	67.633	1
20	MP1A	Z	-117.144	1
21	MP1A	Mx	.09	1
22	MP1A	X	67.633	5
23	MP1A	Z	-117.144	5
24	MP1A	Mx	.09	5
25	MP1B	X	57.863	1
26	MP1B	Z	-100.222	1
27	MP1B	Mx	.081	1
28	MP1B	X	57.863	5
29	MP1B	Z	-100.222	5
30	MP1B	Mx	.081	5
31	MP1C	X	67.3	1
32	MP1C	Z	-116.566	1
33	MP1C	Mx	-.077	1
34	MP1C	X	67.3	5
35	MP1C	Z	-116.566	5
36	MP1C	Mx	-.077	5
37	MP2B	X	18.09	1.5
38	MP2B	Z	-31.333	1.5
39	MP2B	Mx	.017	1.5
40	MP2B	X	18.09	3.5
41	MP2B	Z	-31.333	3.5
42	MP2B	Mx	.017	3.5
43	MP2C	X	38.382	1.5
44	MP2C	Z	-66.479	1.5
45	MP2C	Mx	.007	1.5
46	MP2C	X	38.382	3.5
47	MP2C	Z	-66.479	3.5
48	MP2C	Mx	.007	3.5
49	MP3A	X	39.099	1.5
50	MP3A	Z	-67.722	1.5
51	MP3A	Mx	0	1.5
52	MP3A	X	39.099	3.5
53	MP3A	Z	-67.722	3.5
54	MP3A	Mx	0	3.5
55	MP2A	X	31.113	.5
56	MP2A	Z	-53.889	.5
57	MP2A	Mx	0	.5
58	MP2B	X	22.004	.5
59	MP2B	Z	-38.112	.5
60	MP2B	Mx	-.021	.5
61	MP2C	X	30.802	.5
62	MP2C	Z	-53.35	.5
63	MP2C	Mx	-.005	.5
64	MP1A	X	31.113	1.5
65	MP1A	Z	-53.889	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	18.515	1.5
68	MP1B	Z	-32.069	1.5
69	MP1B	Mx	-.017	1.5
70	MP1C	X	30.683	1.5
71	MP1C	Z	-53.144	1.5
72	MP1C	Mx	-.005	1.5
73	MP3B	X	36.705	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
74	MP3B	Z	-63.576	1
75	MP3B	Mx	.034	1
76	MP3B	X	36.705	5
77	MP3B	Z	-63.576	5
78	MP3B	Mx	.034	5
79	MP3C	X	59.587	1
80	MP3C	Z	-103.207	1
81	MP3C	Mx	.01	1
82	MP3C	X	59.587	5
83	MP3C	Z	-103.207	5
84	MP3C	Mx	.01	5
85	MP4A	X	60.396	1
86	MP4A	Z	-104.608	1
87	MP4A	Mx	0	1
88	MP4A	X	60.396	5
89	MP4A	Z	-104.608	5
90	MP4A	Mx	0	5
91	MP2A	X	63.547	2
92	MP2A	Z	-110.066	2
93	MP2A	Mx	.032	2
94	M70	X	63.547	1
95	M70	Z	-110.066	1
96	M70	Mx	-.032	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	112.353	1
2	MP1A	Z	-64.867	1
3	MP1A	Mx	-.107	1
4	MP1A	X	112.353	5
5	MP1A	Z	-64.867	5
6	MP1A	Mx	-.107	5
7	MP1B	X	109.226	1
8	MP1B	Z	-63.062	1
9	MP1B	Mx	-.024	1
10	MP1B	X	109.226	5
11	MP1B	Z	-63.062	5
12	MP1B	Mx	-.024	5
13	MP1C	X	109.226	1
14	MP1C	Z	-63.062	1
15	MP1C	Mx	.105	1
16	MP1C	X	109.226	5
17	MP1C	Z	-63.062	5
18	MP1C	Mx	.105	5
19	MP1A	X	112.353	1
20	MP1A	Z	-64.867	1
21	MP1A	Mx	.042	1
22	MP1A	X	112.353	5
23	MP1A	Z	-64.867	5
24	MP1A	Mx	.042	5
25	MP1B	X	109.226	1
26	MP1B	Z	-63.062	1
27	MP1B	Mx	.105	1
28	MP1B	X	109.226	5
29	MP1B	Z	-63.062	5
30	MP1B	Mx	.105	5



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP1C	X	109.226	1
32	MP1C	Z	-63.062	1
33	MP1C	Mx	-.024	1
34	MP1C	X	109.226	5
35	MP1C	Z	-63.062	5
36	MP1C	Mx	-.024	5
37	MP2B	X	50.695	1.5
38	MP2B	Z	-29.269	1.5
39	MP2B	Mx	.019	1.5
40	MP2B	X	50.695	3.5
41	MP2B	Z	-29.269	3.5
42	MP2B	Mx	.019	3.5
43	MP2C	X	50.695	1.5
44	MP2C	Z	-29.269	1.5
45	MP2C	Mx	.019	1.5
46	MP2C	X	50.695	3.5
47	MP2C	Z	-29.269	3.5
48	MP2C	Mx	.019	3.5
49	MP3A	X	57.42	1.5
50	MP3A	Z	-33.151	1.5
51	MP3A	Mx	-.017	1.5
52	MP3A	X	57.42	3.5
53	MP3A	Z	-33.151	3.5
54	MP3A	Mx	-.017	3.5
55	MP2A	X	49.422	.5
56	MP2A	Z	-28.534	.5
57	MP2A	Mx	-.014	.5
58	MP2B	X	46.507	.5
59	MP2B	Z	-26.851	.5
60	MP2B	Mx	-.017	.5
61	MP2C	X	46.507	.5
62	MP2C	Z	-26.851	.5
63	MP2C	Mx	-.017	.5
64	MP1A	X	47.711	1.5
65	MP1A	Z	-27.546	1.5
66	MP1A	Mx	.014	1.5
67	MP1B	X	43.679	1.5
68	MP1B	Z	-25.218	1.5
69	MP1B	Mx	-.016	1.5
70	MP1C	X	43.679	1.5
71	MP1C	Z	-25.218	1.5
72	MP1C	Mx	-.016	1.5
73	MP3B	X	85.409	1
74	MP3B	Z	-49.311	1
75	MP3B	Mx	.032	1
76	MP3B	X	85.409	5
77	MP3B	Z	-49.311	5
78	MP3B	Mx	.032	5
79	MP3C	X	85.409	1
80	MP3C	Z	-49.311	1
81	MP3C	Mx	.032	1
82	MP3C	X	85.409	5
83	MP3C	Z	-49.311	5
84	MP3C	Mx	.032	5
85	MP4A	X	92.991	1
86	MP4A	Z	-53.689	1
87	MP4A	Mx	-.027	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP4A	X	92.991	5
89	MP4A	Z	-53.689	5
90	MP4A	Mx	-.027	5
91	MP2A	X	96.197	2
92	MP2A	Z	-55.54	2
93	MP2A	Mx	.048	2
94	M70	X	96.197	1
95	M70	Z	-55.54	1
96	M70	Mx	-.048	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	118.67	1
2	MP1A	Z	0	1
3	MP1A	Mx	-.091	1
4	MP1A	X	118.67	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.091	5
7	MP1B	X	134.599	1
8	MP1B	Z	0	1
9	MP1B	Mx	-.077	1
10	MP1B	X	134.599	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.077	5
13	MP1C	X	115.727	1
14	MP1C	Z	0	1
15	MP1C	Mx	.081	1
16	MP1C	X	115.727	5
17	MP1C	Z	0	5
18	MP1C	Mx	.081	5
19	MP1A	X	118.67	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.012	1
22	MP1A	X	118.67	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.012	5
25	MP1B	X	134.599	1
26	MP1B	Z	0	1
27	MP1B	Mx	.1	1
28	MP1B	X	134.599	5
29	MP1B	Z	0	5
30	MP1B	Mx	.1	5
31	MP1C	X	115.727	1
32	MP1C	Z	0	1
33	MP1C	Mx	.028	1
34	MP1C	X	115.727	5
35	MP1C	Z	0	5
36	MP1C	Mx	.028	5
37	MP2B	X	76.763	1.5
38	MP2B	Z	0	1.5
39	MP2B	Mx	.007	1.5
40	MP2B	X	76.763	3.5
41	MP2B	Z	0	3.5
42	MP2B	Mx	.007	3.5
43	MP2C	X	36.181	1.5
44	MP2C	Z	0	1.5



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 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
45	MP2C	Mx	.017	1.5
46	MP2C	X	36.181	3.5
47	MP2C	Z	0	3.5
48	MP2C	Mx	.017	3.5
49	MP3A	X	42.51	1.5
50	MP3A	Z	0	1.5
51	MP3A	Mx	-.018	1.5
52	MP3A	X	42.51	3.5
53	MP3A	Z	0	3.5
54	MP3A	Mx	-.018	3.5
55	MP2A	X	46.753	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.02	.5
58	MP2B	X	61.604	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.005	.5
61	MP2C	X	44.008	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	-.021	.5
64	MP1A	X	40.825	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.018	1.5
67	MP1B	X	61.365	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	-.005	1.5
70	MP1C	X	37.03	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.017	1.5
73	MP3B	X	119.173	1
74	MP3B	Z	0	1
75	MP3B	Mx	.01	1
76	MP3B	X	119.173	5
77	MP3B	Z	0	5
78	MP3B	Mx	.01	5
79	MP3C	X	73.411	1
80	MP3C	Z	0	1
81	MP3C	Mx	.034	1
82	MP3C	X	73.411	5
83	MP3C	Z	0	5
84	MP3C	Mx	.034	5
85	MP4A	X	80.549	1
86	MP4A	Z	0	1
87	MP4A	Mx	-.035	1
88	MP4A	X	80.549	5
89	MP4A	Z	0	5
90	MP4A	Mx	-.035	5
91	MP2A	X	103.072	2
92	MP2A	Z	0	2
93	MP2A	Mx	.052	2
94	M70	X	103.072	1
95	M70	Z	0	1
96	M70	Mx	-.052	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	97.98	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
2	MP1A	Z	56.569	1
3	MP1A	Mx	-.057	1
4	MP1A	X	97.98	5
5	MP1A	Z	56.569	5
6	MP1A	Mx	-.057	5
7	MP1B	X	114.902	1
8	MP1B	Z	66.339	1
9	MP1B	Mx	-.106	1
10	MP1B	X	114.902	5
11	MP1B	Z	66.339	5
12	MP1B	Mx	-.106	5
13	MP1C	X	98.558	1
14	MP1C	Z	56.903	1
15	MP1C	Mx	.043	1
16	MP1C	X	98.558	5
17	MP1C	Z	56.903	5
18	MP1C	Mx	.043	5
19	MP1A	X	97.98	1
20	MP1A	Z	56.569	1
21	MP1A	Mx	-.057	1
22	MP1A	X	97.98	5
23	MP1A	Z	56.569	5
24	MP1A	Mx	-.057	5
25	MP1B	X	114.902	1
26	MP1B	Z	66.339	1
27	MP1B	Mx	.06	1
28	MP1B	X	114.902	5
29	MP1B	Z	66.339	5
30	MP1B	Mx	.06	5
31	MP1C	X	98.558	1
32	MP1C	Z	56.903	1
33	MP1C	Mx	.069	1
34	MP1C	X	98.558	5
35	MP1C	Z	56.903	5
36	MP1C	Mx	.069	5
37	MP2B	X	62.901	1.5
38	MP2B	Z	36.316	1.5
39	MP2B	Mx	-.012	1.5
40	MP2B	X	62.901	3.5
41	MP2B	Z	36.316	3.5
42	MP2B	Mx	-.012	3.5
43	MP2C	X	27.756	1.5
44	MP2C	Z	16.025	1.5
45	MP2C	Mx	.016	1.5
46	MP2C	X	27.756	3.5
47	MP2C	Z	16.025	3.5
48	MP2C	Mx	.016	3.5
49	MP3A	X	26.513	1.5
50	MP3A	Z	15.307	1.5
51	MP3A	Mx	-.015	1.5
52	MP3A	X	26.513	3.5
53	MP3A	Z	15.307	3.5
54	MP3A	Mx	-.015	3.5
55	MP2A	X	36.022	.5
56	MP2A	Z	20.797	.5
57	MP2A	Mx	-.021	.5
58	MP2B	X	51.799	.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
59	MP2B	Z	29.906	.5
60	MP2B	Mx	.01	.5
61	MP2C	X	36.561	.5
62	MP2C	Z	21.108	.5
63	MP2C	Mx	-.021	.5
64	MP1A	X	29.178	1.5
65	MP1A	Z	16.846	1.5
66	MP1A	Mx	.017	1.5
67	MP1B	X	50.999	1.5
68	MP1B	Z	29.444	1.5
69	MP1B	Mx	.01	1.5
70	MP1C	X	29.923	1.5
71	MP1C	Z	17.276	1.5
72	MP1C	Mx	-.017	1.5
73	MP3B	X	99.173	1
74	MP3B	Z	57.257	1
75	MP3B	Mx	-.02	1
76	MP3B	X	99.173	5
77	MP3B	Z	57.257	5
78	MP3B	Mx	-.02	5
79	MP3C	X	59.541	1
80	MP3C	Z	34.376	1
81	MP3C	Mx	.034	1
82	MP3C	X	59.541	5
83	MP3C	Z	34.376	5
84	MP3C	Mx	.034	5
85	MP4A	X	58.14	1
86	MP4A	Z	33.567	1
87	MP4A	Mx	-.034	1
88	MP4A	X	58.14	5
89	MP4A	Z	33.567	5
90	MP4A	Mx	-.034	5
91	MP2A	X	96.197	2
92	MP2A	Z	55.54	2
93	MP2A	Mx	.048	2
94	M70	X	96.197	1
95	M70	Z	55.54	1
96	M70	Mx	-.048	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	59.335	1
2	MP1A	Z	102.771	1
3	MP1A	Mx	-.012	1
4	MP1A	X	59.335	5
5	MP1A	Z	102.771	5
6	MP1A	Mx	-.012	5
7	MP1B	X	61.14	1
8	MP1B	Z	105.898	1
9	MP1B	Mx	-.099	1
10	MP1B	X	61.14	5
11	MP1B	Z	105.898	5
12	MP1B	Mx	-.099	5
13	MP1C	X	61.14	1
14	MP1C	Z	105.898	1
15	MP1C	Mx	-.006	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	61.14	5
17	MP1C	Z	105.898	5
18	MP1C	Mx	-.006	5
19	MP1A	X	59.335	1
20	MP1A	Z	102.771	1
21	MP1A	Mx	-.091	1
22	MP1A	X	59.335	5
23	MP1A	Z	102.771	5
24	MP1A	Mx	-.091	5
25	MP1B	X	61.14	1
26	MP1B	Z	105.898	1
27	MP1B	Mx	.006	1
28	MP1B	X	61.14	5
29	MP1B	Z	105.898	5
30	MP1B	Mx	.006	5
31	MP1C	X	61.14	1
32	MP1C	Z	105.898	1
33	MP1C	Mx	.099	1
34	MP1C	X	61.14	5
35	MP1C	Z	105.898	5
36	MP1C	Mx	.099	5
37	MP2B	X	25.137	1.5
38	MP2B	Z	43.539	1.5
39	MP2B	Mx	-.019	1.5
40	MP2B	X	25.137	3.5
41	MP2B	Z	43.539	3.5
42	MP2B	Mx	-.019	3.5
43	MP2C	X	25.137	1.5
44	MP2C	Z	43.539	1.5
45	MP2C	Mx	.019	1.5
46	MP2C	X	25.137	3.5
47	MP2C	Z	43.539	3.5
48	MP2C	Mx	.019	3.5
49	MP3A	X	21.255	1.5
50	MP3A	Z	36.815	1.5
51	MP3A	Mx	-.018	1.5
52	MP3A	X	21.255	3.5
53	MP3A	Z	36.815	3.5
54	MP3A	Mx	-.018	3.5
55	MP2A	X	23.376	.5
56	MP2A	Z	40.489	.5
57	MP2A	Mx	-.02	.5
58	MP2B	X	25.06	.5
59	MP2B	Z	43.404	.5
60	MP2B	Mx	.019	.5
61	MP2C	X	25.06	.5
62	MP2C	Z	43.404	.5
63	MP2C	Mx	-.019	.5
64	MP1A	X	20.413	1.5
65	MP1A	Z	35.356	1.5
66	MP1A	Mx	.018	1.5
67	MP1B	X	22.741	1.5
68	MP1B	Z	39.388	1.5
69	MP1B	Mx	.017	1.5
70	MP1C	X	22.741	1.5
71	MP1C	Z	39.388	1.5
72	MP1C	Mx	-.017	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP3B	X	44.652	1
74	MP3B	Z	77.34	1
75	MP3B	Mx	-.034	1
76	MP3B	X	44.652	5
77	MP3B	Z	77.34	5
78	MP3B	Mx	-.034	5
79	MP3C	X	44.652	1
80	MP3C	Z	77.34	1
81	MP3C	Mx	.034	1
82	MP3C	X	44.652	5
83	MP3C	Z	77.34	5
84	MP3C	Mx	.034	5
85	MP4A	X	40.274	1
86	MP4A	Z	69.757	1
87	MP4A	Mx	-.035	1
88	MP4A	X	40.274	5
89	MP4A	Z	69.757	5
90	MP4A	Mx	-.035	5
91	MP2A	X	63.547	2
92	MP2A	Z	110.066	2
93	MP2A	Mx	.032	2
94	M70	X	63.547	1
95	M70	Z	110.066	1
96	M70	Mx	-.032	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	1
2	MP1A	Z	129.734	1
3	MP1A	Mx	.042	1
4	MP1A	X	0	5
5	MP1A	Z	129.734	5
6	MP1A	Mx	.042	5
7	MP1B	X	0	1
8	MP1B	Z	113.805	1
9	MP1B	Mx	-.069	1
10	MP1B	X	0	5
11	MP1B	Z	113.805	5
12	MP1B	Mx	-.069	5
13	MP1C	X	0	1
14	MP1C	Z	132.678	1
15	MP1C	Mx	-.06	1
16	MP1C	X	0	5
17	MP1C	Z	132.678	5
18	MP1C	Mx	-.06	5
19	MP1A	X	0	1
20	MP1A	Z	129.734	1
21	MP1A	Mx	-.107	1
22	MP1A	X	0	5
23	MP1A	Z	129.734	5
24	MP1A	Mx	-.107	5
25	MP1B	X	0	1
26	MP1B	Z	113.805	1
27	MP1B	Mx	-.043	1
28	MP1B	X	0	5
29	MP1B	Z	113.805	5



Company : Maser Consulting  
 Designer :  
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**Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
30	MP1B	Mx	-.043	5
31	MP1C	X	0	1
32	MP1C	Z	132.678	1
33	MP1C	Mx	.106	1
34	MP1C	X	0	5
35	MP1C	Z	132.678	5
36	MP1C	Mx	.106	5
37	MP2B	X	0	1.5
38	MP2B	Z	32.049	1.5
39	MP2B	Mx	-.016	1.5
40	MP2B	X	0	3.5
41	MP2B	Z	32.049	3.5
42	MP2B	Mx	-.016	3.5
43	MP2C	X	0	1.5
44	MP2C	Z	72.632	1.5
45	MP2C	Mx	.012	1.5
46	MP2C	X	0	3.5
47	MP2C	Z	72.632	3.5
48	MP2C	Mx	.012	3.5
49	MP3A	X	0	1.5
50	MP3A	Z	66.302	1.5
51	MP3A	Mx	-.017	1.5
52	MP3A	X	0	3.5
53	MP3A	Z	66.302	3.5
54	MP3A	Mx	-.017	3.5
55	MP2A	X	0	.5
56	MP2A	Z	57.068	.5
57	MP2A	Mx	-.014	.5
58	MP2B	X	0	.5
59	MP2B	Z	42.217	.5
60	MP2B	Mx	.021	.5
61	MP2C	X	0	.5
62	MP2C	Z	59.813	.5
63	MP2C	Mx	-.01	.5
64	MP1A	X	0	1.5
65	MP1A	Z	55.092	1.5
66	MP1A	Mx	.014	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	34.552	1.5
69	MP1B	Mx	.017	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	58.888	1.5
72	MP1C	Mx	-.01	1.5
73	MP3B	X	0	1
74	MP3B	Z	68.752	1
75	MP3B	Mx	-.034	1
76	MP3B	X	0	5
77	MP3B	Z	68.752	5
78	MP3B	Mx	-.034	5
79	MP3C	X	0	1
80	MP3C	Z	114.515	1
81	MP3C	Mx	.02	1
82	MP3C	X	0	5
83	MP3C	Z	114.515	5
84	MP3C	Mx	.02	5
85	MP4A	X	0	1
86	MP4A	Z	107.377	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
87	MP4A	Mx	-.027	1
88	MP4A	X	0	5
89	MP4A	Z	107.377	5
90	MP4A	Mx	-.027	5
91	MP2A	X	0	2
92	MP2A	Z	135.1	2
93	MP2A	Mx	0	2
94	M70	X	0	1
95	M70	Z	135.1	1
96	M70	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-67.633	1
2	MP1A	Z	117.144	1
3	MP1A	Mx	.09	1
4	MP1A	X	-67.633	5
5	MP1A	Z	117.144	5
6	MP1A	Mx	.09	5
7	MP1B	X	-57.863	1
8	MP1B	Z	100.222	1
9	MP1B	Mx	-.028	1
10	MP1B	X	-57.863	5
11	MP1B	Z	100.222	5
12	MP1B	Mx	-.028	5
13	MP1C	X	-67.3	1
14	MP1C	Z	116.566	1
15	MP1C	Mx	-.1	1
16	MP1C	X	-67.3	5
17	MP1C	Z	116.566	5
18	MP1C	Mx	-.1	5
19	MP1A	X	-67.633	1
20	MP1A	Z	117.144	1
21	MP1A	Mx	-.09	1
22	MP1A	X	-67.633	5
23	MP1A	Z	117.144	5
24	MP1A	Mx	-.09	5
25	MP1B	X	-57.863	1
26	MP1B	Z	100.222	1
27	MP1B	Mx	-.081	1
28	MP1B	X	-57.863	5
29	MP1B	Z	100.222	5
30	MP1B	Mx	-.081	5
31	MP1C	X	-67.3	1
32	MP1C	Z	116.566	1
33	MP1C	Mx	.077	1
34	MP1C	X	-67.3	5
35	MP1C	Z	116.566	5
36	MP1C	Mx	.077	5
37	MP2B	X	-18.09	1.5
38	MP2B	Z	31.333	1.5
39	MP2B	Mx	-.017	1.5
40	MP2B	X	-18.09	3.5
41	MP2B	Z	31.333	3.5
42	MP2B	Mx	-.017	3.5
43	MP2C	X	-38.382	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP2C	Z	66.479	1.5
45	MP2C	Mx	-.007	1.5
46	MP2C	X	-38.382	3.5
47	MP2C	Z	66.479	3.5
48	MP2C	Mx	-.007	3.5
49	MP3A	X	-39.099	1.5
50	MP3A	Z	67.722	1.5
51	MP3A	Mx	0	1.5
52	MP3A	X	-39.099	3.5
53	MP3A	Z	67.722	3.5
54	MP3A	Mx	0	3.5
55	MP2A	X	-31.113	.5
56	MP2A	Z	53.889	.5
57	MP2A	Mx	0	.5
58	MP2B	X	-22.004	.5
59	MP2B	Z	38.112	.5
60	MP2B	Mx	.021	.5
61	MP2C	X	-30.802	.5
62	MP2C	Z	53.35	.5
63	MP2C	Mx	.005	.5
64	MP1A	X	-31.113	1.5
65	MP1A	Z	53.889	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	-18.515	1.5
68	MP1B	Z	32.069	1.5
69	MP1B	Mx	.017	1.5
70	MP1C	X	-30.683	1.5
71	MP1C	Z	53.144	1.5
72	MP1C	Mx	.005	1.5
73	MP3B	X	-36.705	1
74	MP3B	Z	63.576	1
75	MP3B	Mx	-.034	1
76	MP3B	X	-36.705	5
77	MP3B	Z	63.576	5
78	MP3B	Mx	-.034	5
79	MP3C	X	-59.587	1
80	MP3C	Z	103.207	1
81	MP3C	Mx	-.01	1
82	MP3C	X	-59.587	5
83	MP3C	Z	103.207	5
84	MP3C	Mx	-.01	5
85	MP4A	X	-60.396	1
86	MP4A	Z	104.608	1
87	MP4A	Mx	0	1
88	MP4A	X	-60.396	5
89	MP4A	Z	104.608	5
90	MP4A	Mx	0	5
91	MP2A	X	-63.547	2
92	MP2A	Z	110.066	2
93	MP2A	Mx	-.032	2
94	M70	X	-63.547	1
95	M70	Z	110.066	1
96	M70	Mx	.032	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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**Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-112.353	1
2	MP1A	Z	64.867	1
3	MP1A	Mx	.107	1
4	MP1A	X	-112.353	5
5	MP1A	Z	64.867	5
6	MP1A	Mx	.107	5
7	MP1B	X	-109.226	1
8	MP1B	Z	63.062	1
9	MP1B	Mx	.024	1
10	MP1B	X	-109.226	5
11	MP1B	Z	63.062	5
12	MP1B	Mx	.024	5
13	MP1C	X	-109.226	1
14	MP1C	Z	63.062	1
15	MP1C	Mx	-.105	1
16	MP1C	X	-109.226	5
17	MP1C	Z	63.062	5
18	MP1C	Mx	-.105	5
19	MP1A	X	-112.353	1
20	MP1A	Z	64.867	1
21	MP1A	Mx	-.042	1
22	MP1A	X	-112.353	5
23	MP1A	Z	64.867	5
24	MP1A	Mx	-.042	5
25	MP1B	X	-109.226	1
26	MP1B	Z	63.062	1
27	MP1B	Mx	-.105	1
28	MP1B	X	-109.226	5
29	MP1B	Z	63.062	5
30	MP1B	Mx	-.105	5
31	MP1C	X	-109.226	1
32	MP1C	Z	63.062	1
33	MP1C	Mx	.024	1
34	MP1C	X	-109.226	5
35	MP1C	Z	63.062	5
36	MP1C	Mx	.024	5
37	MP2B	X	-50.695	1.5
38	MP2B	Z	29.269	1.5
39	MP2B	Mx	-.019	1.5
40	MP2B	X	-50.695	3.5
41	MP2B	Z	29.269	3.5
42	MP2B	Mx	-.019	3.5
43	MP2C	X	-50.695	1.5
44	MP2C	Z	29.269	1.5
45	MP2C	Mx	-.019	1.5
46	MP2C	X	-50.695	3.5
47	MP2C	Z	29.269	3.5
48	MP2C	Mx	-.019	3.5
49	MP3A	X	-57.42	1.5
50	MP3A	Z	33.151	1.5
51	MP3A	Mx	.017	1.5
52	MP3A	X	-57.42	3.5
53	MP3A	Z	33.151	3.5
54	MP3A	Mx	.017	3.5
55	MP2A	X	-49.422	.5
56	MP2A	Z	28.534	.5
57	MP2A	Mx	.014	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2B	X	-46.507	.5
59	MP2B	Z	26.851	.5
60	MP2B	Mx	.017	.5
61	MP2C	X	-46.507	.5
62	MP2C	Z	26.851	.5
63	MP2C	Mx	.017	.5
64	MP1A	X	-47.711	1.5
65	MP1A	Z	27.546	1.5
66	MP1A	Mx	-.014	1.5
67	MP1B	X	-43.679	1.5
68	MP1B	Z	25.218	1.5
69	MP1B	Mx	.016	1.5
70	MP1C	X	-43.679	1.5
71	MP1C	Z	25.218	1.5
72	MP1C	Mx	.016	1.5
73	MP3B	X	-85.409	1
74	MP3B	Z	49.311	1
75	MP3B	Mx	-.032	1
76	MP3B	X	-85.409	5
77	MP3B	Z	49.311	5
78	MP3B	Mx	-.032	5
79	MP3C	X	-85.409	1
80	MP3C	Z	49.311	1
81	MP3C	Mx	-.032	1
82	MP3C	X	-85.409	5
83	MP3C	Z	49.311	5
84	MP3C	Mx	-.032	5
85	MP4A	X	-92.991	1
86	MP4A	Z	53.689	1
87	MP4A	Mx	.027	1
88	MP4A	X	-92.991	5
89	MP4A	Z	53.689	5
90	MP4A	Mx	.027	5
91	MP2A	X	-96.197	2
92	MP2A	Z	55.54	2
93	MP2A	Mx	-.048	2
94	M70	X	-96.197	1
95	M70	Z	55.54	1
96	M70	Mx	.048	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-118.67	1
2	MP1A	Z	0	1
3	MP1A	Mx	.091	1
4	MP1A	X	-118.67	5
5	MP1A	Z	0	5
6	MP1A	Mx	.091	5
7	MP1B	X	-134.599	1
8	MP1B	Z	0	1
9	MP1B	Mx	.077	1
10	MP1B	X	-134.599	5
11	MP1B	Z	0	5
12	MP1B	Mx	.077	5
13	MP1C	X	-115.727	1
14	MP1C	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1C	Mx	-.081	1
16	MP1C	X	-115.727	5
17	MP1C	Z	0	5
18	MP1C	Mx	-.081	5
19	MP1A	X	-118.67	1
20	MP1A	Z	0	1
21	MP1A	Mx	.012	1
22	MP1A	X	-118.67	5
23	MP1A	Z	0	5
24	MP1A	Mx	.012	5
25	MP1B	X	-134.599	1
26	MP1B	Z	0	1
27	MP1B	Mx	-.1	1
28	MP1B	X	-134.599	5
29	MP1B	Z	0	5
30	MP1B	Mx	-.1	5
31	MP1C	X	-115.727	1
32	MP1C	Z	0	1
33	MP1C	Mx	-.028	1
34	MP1C	X	-115.727	5
35	MP1C	Z	0	5
36	MP1C	Mx	-.028	5
37	MP2B	X	-76.763	1.5
38	MP2B	Z	0	1.5
39	MP2B	Mx	-.007	1.5
40	MP2B	X	-76.763	3.5
41	MP2B	Z	0	3.5
42	MP2B	Mx	-.007	3.5
43	MP2C	X	-36.181	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	-.017	1.5
46	MP2C	X	-36.181	3.5
47	MP2C	Z	0	3.5
48	MP2C	Mx	-.017	3.5
49	MP3A	X	-42.51	1.5
50	MP3A	Z	0	1.5
51	MP3A	Mx	.018	1.5
52	MP3A	X	-42.51	3.5
53	MP3A	Z	0	3.5
54	MP3A	Mx	.018	3.5
55	MP2A	X	-46.753	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.02	.5
58	MP2B	X	-61.604	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	.005	.5
61	MP2C	X	-44.008	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	.021	.5
64	MP1A	X	-40.825	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.018	1.5
67	MP1B	X	-61.365	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.005	1.5
70	MP1C	X	-37.03	1.5
71	MP1C	Z	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	.017	1.5
73	MP3B	X	-119.173	1
74	MP3B	Z	0	1
75	MP3B	Mx	-.01	1
76	MP3B	X	-119.173	5
77	MP3B	Z	0	5
78	MP3B	Mx	-.01	5
79	MP3C	X	-73.411	1
80	MP3C	Z	0	1
81	MP3C	Mx	-.034	1
82	MP3C	X	-73.411	5
83	MP3C	Z	0	5
84	MP3C	Mx	-.034	5
85	MP4A	X	-80.549	1
86	MP4A	Z	0	1
87	MP4A	Mx	.035	1
88	MP4A	X	-80.549	5
89	MP4A	Z	0	5
90	MP4A	Mx	.035	5
91	MP2A	X	-103.072	2
92	MP2A	Z	0	2
93	MP2A	Mx	-.052	2
94	M70	X	-103.072	1
95	M70	Z	0	1
96	M70	Mx	.052	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-97.98	1
2	MP1A	Z	-56.569	1
3	MP1A	Mx	.057	1
4	MP1A	X	-97.98	5
5	MP1A	Z	-56.569	5
6	MP1A	Mx	.057	5
7	MP1B	X	-114.902	1
8	MP1B	Z	-66.339	1
9	MP1B	Mx	.106	1
10	MP1B	X	-114.902	5
11	MP1B	Z	-66.339	5
12	MP1B	Mx	.106	5
13	MP1C	X	-98.558	1
14	MP1C	Z	-56.903	1
15	MP1C	Mx	-.043	1
16	MP1C	X	-98.558	5
17	MP1C	Z	-56.903	5
18	MP1C	Mx	-.043	5
19	MP1A	X	-97.98	1
20	MP1A	Z	-56.569	1
21	MP1A	Mx	.057	1
22	MP1A	X	-97.98	5
23	MP1A	Z	-56.569	5
24	MP1A	Mx	.057	5
25	MP1B	X	-114.902	1
26	MP1B	Z	-66.339	1
27	MP1B	Mx	-.06	1
28	MP1B	X	-114.902	5



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

Sept 7, 2021  
 11:29 AM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	-66.339	5
30	MP1B	Mx	-.06	5
31	MP1C	X	-98.558	1
32	MP1C	Z	-56.903	1
33	MP1C	Mx	-.069	1
34	MP1C	X	-98.558	5
35	MP1C	Z	-56.903	5
36	MP1C	Mx	-.069	5
37	MP2B	X	-62.901	1.5
38	MP2B	Z	-36.316	1.5
39	MP2B	Mx	.012	1.5
40	MP2B	X	-62.901	3.5
41	MP2B	Z	-36.316	3.5
42	MP2B	Mx	.012	3.5
43	MP2C	X	-27.756	1.5
44	MP2C	Z	-16.025	1.5
45	MP2C	Mx	-.016	1.5
46	MP2C	X	-27.756	3.5
47	MP2C	Z	-16.025	3.5
48	MP2C	Mx	-.016	3.5
49	MP3A	X	-26.513	1.5
50	MP3A	Z	-15.307	1.5
51	MP3A	Mx	.015	1.5
52	MP3A	X	-26.513	3.5
53	MP3A	Z	-15.307	3.5
54	MP3A	Mx	.015	3.5
55	MP2A	X	-36.022	.5
56	MP2A	Z	-20.797	.5
57	MP2A	Mx	.021	.5
58	MP2B	X	-51.799	.5
59	MP2B	Z	-29.906	.5
60	MP2B	Mx	-.01	.5
61	MP2C	X	-36.561	.5
62	MP2C	Z	-21.108	.5
63	MP2C	Mx	.021	.5
64	MP1A	X	-29.178	1.5
65	MP1A	Z	-16.846	1.5
66	MP1A	Mx	-.017	1.5
67	MP1B	X	-50.999	1.5
68	MP1B	Z	-29.444	1.5
69	MP1B	Mx	-.01	1.5
70	MP1C	X	-29.923	1.5
71	MP1C	Z	-17.276	1.5
72	MP1C	Mx	.017	1.5
73	MP3B	X	-99.173	1
74	MP3B	Z	-57.257	1
75	MP3B	Mx	.02	1
76	MP3B	X	-99.173	5
77	MP3B	Z	-57.257	5
78	MP3B	Mx	.02	5
79	MP3C	X	-59.541	1
80	MP3C	Z	-34.376	1
81	MP3C	Mx	-.034	1
82	MP3C	X	-59.541	5
83	MP3C	Z	-34.376	5
84	MP3C	Mx	-.034	5
85	MP4A	X	-58.14	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP4A	Z	-33.567	1
87	MP4A	Mx	.034	1
88	MP4A	X	-58.14	5
89	MP4A	Z	-33.567	5
90	MP4A	Mx	.034	5
91	MP2A	X	-96.197	2
92	MP2A	Z	-55.54	2
93	MP2A	Mx	-.048	2
94	M70	X	-96.197	1
95	M70	Z	-55.54	1
96	M70	Mx	.048	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-59.335	1
2	MP1A	Z	-102.771	1
3	MP1A	Mx	.012	1
4	MP1A	X	-59.335	5
5	MP1A	Z	-102.771	5
6	MP1A	Mx	.012	5
7	MP1B	X	-61.14	1
8	MP1B	Z	-105.898	1
9	MP1B	Mx	.099	1
10	MP1B	X	-61.14	5
11	MP1B	Z	-105.898	5
12	MP1B	Mx	.099	5
13	MP1C	X	-61.14	1
14	MP1C	Z	-105.898	1
15	MP1C	Mx	.006	1
16	MP1C	X	-61.14	5
17	MP1C	Z	-105.898	5
18	MP1C	Mx	.006	5
19	MP1A	X	-59.335	1
20	MP1A	Z	-102.771	1
21	MP1A	Mx	.091	1
22	MP1A	X	-59.335	5
23	MP1A	Z	-102.771	5
24	MP1A	Mx	.091	5
25	MP1B	X	-61.14	1
26	MP1B	Z	-105.898	1
27	MP1B	Mx	-.006	1
28	MP1B	X	-61.14	5
29	MP1B	Z	-105.898	5
30	MP1B	Mx	-.006	5
31	MP1C	X	-61.14	1
32	MP1C	Z	-105.898	1
33	MP1C	Mx	-.099	1
34	MP1C	X	-61.14	5
35	MP1C	Z	-105.898	5
36	MP1C	Mx	-.099	5
37	MP2B	X	-25.137	1.5
38	MP2B	Z	-43.539	1.5
39	MP2B	Mx	.019	1.5
40	MP2B	X	-25.137	3.5
41	MP2B	Z	-43.539	3.5
42	MP2B	Mx	.019	3.5





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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
43	MP2C	X	-25.137	1.5
44	MP2C	Z	-43.539	1.5
45	MP2C	Mx	-.019	1.5
46	MP2C	X	-25.137	3.5
47	MP2C	Z	-43.539	3.5
48	MP2C	Mx	-.019	3.5
49	MP3A	X	-21.255	1.5
50	MP3A	Z	-36.815	1.5
51	MP3A	Mx	.018	1.5
52	MP3A	X	-21.255	3.5
53	MP3A	Z	-36.815	3.5
54	MP3A	Mx	.018	3.5
55	MP2A	X	-23.376	.5
56	MP2A	Z	-40.489	.5
57	MP2A	Mx	.02	.5
58	MP2B	X	-25.06	.5
59	MP2B	Z	-43.404	.5
60	MP2B	Mx	-.019	.5
61	MP2C	X	-25.06	.5
62	MP2C	Z	-43.404	.5
63	MP2C	Mx	.019	.5
64	MP1A	X	-20.413	1.5
65	MP1A	Z	-35.356	1.5
66	MP1A	Mx	-.018	1.5
67	MP1B	X	-22.741	1.5
68	MP1B	Z	-39.388	1.5
69	MP1B	Mx	-.017	1.5
70	MP1C	X	-22.741	1.5
71	MP1C	Z	-39.388	1.5
72	MP1C	Mx	.017	1.5
73	MP3B	X	-44.652	1
74	MP3B	Z	-77.34	1
75	MP3B	Mx	.034	1
76	MP3B	X	-44.652	5
77	MP3B	Z	-77.34	5
78	MP3B	Mx	.034	5
79	MP3C	X	-44.652	1
80	MP3C	Z	-77.34	1
81	MP3C	Mx	-.034	1
82	MP3C	X	-44.652	5
83	MP3C	Z	-77.34	5
84	MP3C	Mx	-.034	5
85	MP4A	X	-40.274	1
86	MP4A	Z	-69.757	1
87	MP4A	Mx	.035	1
88	MP4A	X	-40.274	5
89	MP4A	Z	-69.757	5
90	MP4A	Mx	.035	5
91	MP2A	X	-63.547	2
92	MP2A	Z	-110.066	2
93	MP2A	Mx	-.032	2
94	M70	X	-63.547	1
95	M70	Z	-110.066	1
96	M70	Mx	.032	1

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	1
2	MP1A	Z	-25.35	1
3	MP1A	Mx	-.008	1
4	MP1A	X	0	5
5	MP1A	Z	-25.35	5
6	MP1A	Mx	-.008	5
7	MP1B	X	0	1
8	MP1B	Z	-22.478	1
9	MP1B	Mx	.014	1
10	MP1B	X	0	5
11	MP1B	Z	-22.478	5
12	MP1B	Mx	.014	5
13	MP1C	X	0	1
14	MP1C	Z	-25.88	1
15	MP1C	Mx	.012	1
16	MP1C	X	0	5
17	MP1C	Z	-25.88	5
18	MP1C	Mx	.012	5
19	MP1A	X	0	1
20	MP1A	Z	-25.35	1
21	MP1A	Mx	.021	1
22	MP1A	X	0	5
23	MP1A	Z	-25.35	5
24	MP1A	Mx	.021	5
25	MP1B	X	0	1
26	MP1B	Z	-22.478	1
27	MP1B	Mx	.008	1
28	MP1B	X	0	5
29	MP1B	Z	-22.478	5
30	MP1B	Mx	.008	5
31	MP1C	X	0	1
32	MP1C	Z	-25.88	1
33	MP1C	Mx	-.021	1
34	MP1C	X	0	5
35	MP1C	Z	-25.88	5
36	MP1C	Mx	-.021	5
37	MP2B	X	0	1.5
38	MP2B	Z	-6.914	1.5
39	MP2B	Mx	.003	1.5
40	MP2B	X	0	3.5
41	MP2B	Z	-6.914	3.5
42	MP2B	Mx	.003	3.5
43	MP2C	X	0	1.5
44	MP2C	Z	-14.549	1.5
45	MP2C	Mx	-.002	1.5
46	MP2C	X	0	3.5
47	MP2C	Z	-14.549	3.5
48	MP2C	Mx	-.002	3.5
49	MP3A	X	0	1.5
50	MP3A	Z	-13.359	1.5
51	MP3A	Mx	.003	1.5
52	MP3A	X	0	3.5
53	MP3A	Z	-13.359	3.5
54	MP3A	Mx	.003	3.5
55	MP2A	X	0	.5
56	MP2A	Z	-12.145	.5
57	MP2A	Mx	.003	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2B	X	0	.5
59	MP2B	Z	-9.265	.5
60	MP2B	Mx	-.005	.5
61	MP2C	X	0	.5
62	MP2C	Z	-12.677	.5
63	MP2C	Mx	.002	.5
64	MP1A	X	0	1.5
65	MP1A	Z	-11.765	1.5
66	MP1A	Mx	-.003	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-7.79	1.5
69	MP1B	Mx	-.004	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-12.5	1.5
72	MP1C	Mx	.002	1.5
73	MP3B	X	0	1
74	MP3B	Z	-14.304	1
75	MP3B	Mx	.007	1
76	MP3B	X	0	5
77	MP3B	Z	-14.304	5
78	MP3B	Mx	.007	5
79	MP3C	X	0	1
80	MP3C	Z	-22.536	1
81	MP3C	Mx	-.004	1
82	MP3C	X	0	5
83	MP3C	Z	-22.536	5
84	MP3C	Mx	-.004	5
85	MP4A	X	0	1
86	MP4A	Z	-21.252	1
87	MP4A	Mx	.005	1
88	MP4A	X	0	5
89	MP4A	Z	-21.252	5
90	MP4A	Mx	.005	5
91	MP2A	X	0	2
92	MP2A	Z	-27.015	2
93	MP2A	Mx	0	2
94	M70	X	0	1
95	M70	Z	-27.015	1
96	M70	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	13.174	1
2	MP1A	Z	-22.817	1
3	MP1A	Mx	-.018	1
4	MP1A	X	13.174	5
5	MP1A	Z	-22.817	5
6	MP1A	Mx	-.018	5
7	MP1B	X	11.412	1
8	MP1B	Z	-19.766	1
9	MP1B	Mx	.006	1
10	MP1B	X	11.412	5
11	MP1B	Z	-19.766	5
12	MP1B	Mx	.006	5
13	MP1C	X	13.113	1
14	MP1C	Z	-22.713	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1C	Mx	.019	1
16	MP1C	X	13.113	5
17	MP1C	Z	-22.713	5
18	MP1C	Mx	.019	5
19	MP1A	X	13.174	1
20	MP1A	Z	-22.817	1
21	MP1A	Mx	.018	1
22	MP1A	X	13.174	5
23	MP1A	Z	-22.817	5
24	MP1A	Mx	.018	5
25	MP1B	X	11.412	1
26	MP1B	Z	-19.766	1
27	MP1B	Mx	.016	1
28	MP1B	X	11.412	5
29	MP1B	Z	-19.766	5
30	MP1B	Mx	.016	5
31	MP1C	X	13.113	1
32	MP1C	Z	-22.713	1
33	MP1C	Mx	-.015	1
34	MP1C	X	13.113	5
35	MP1C	Z	-22.713	5
36	MP1C	Mx	-.015	5
37	MP2B	X	3.846	1.5
38	MP2B	Z	-6.661	1.5
39	MP2B	Mx	.004	1.5
40	MP2B	X	3.846	3.5
41	MP2B	Z	-6.661	3.5
42	MP2B	Mx	.004	3.5
43	MP2C	X	7.663	1.5
44	MP2C	Z	-13.273	1.5
45	MP2C	Mx	.001	1.5
46	MP2C	X	7.663	3.5
47	MP2C	Z	-13.273	3.5
48	MP2C	Mx	.001	3.5
49	MP3A	X	7.798	1.5
50	MP3A	Z	-13.507	1.5
51	MP3A	Mx	0	1.5
52	MP3A	X	7.798	3.5
53	MP3A	Z	-13.507	3.5
54	MP3A	Mx	0	3.5
55	MP2A	X	6.573	.5
56	MP2A	Z	-11.384	.5
57	MP2A	Mx	0	.5
58	MP2B	X	4.806	.5
59	MP2B	Z	-8.324	.5
60	MP2B	Mx	-.005	.5
61	MP2C	X	6.512	.5
62	MP2C	Z	-11.28	.5
63	MP2C	Mx	-.001	.5
64	MP1A	X	6.573	1.5
65	MP1A	Z	-11.384	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	4.135	1.5
68	MP1B	Z	-7.162	1.5
69	MP1B	Mx	-.004	1.5
70	MP1C	X	6.489	1.5
71	MP1C	Z	-11.24	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	-.001	1.5
73	MP3B	X	7.571	1
74	MP3B	Z	-13.113	1
75	MP3B	Mx	.007	1
76	MP3B	X	7.571	5
77	MP3B	Z	-13.113	5
78	MP3B	Mx	.007	5
79	MP3C	X	11.687	1
80	MP3C	Z	-20.242	1
81	MP3C	Mx	.002	1
82	MP3C	X	11.687	5
83	MP3C	Z	-20.242	5
84	MP3C	Mx	.002	5
85	MP4A	X	11.832	1
86	MP4A	Z	-20.494	1
87	MP4A	Mx	0	1
88	MP4A	X	11.832	5
89	MP4A	Z	-20.494	5
90	MP4A	Mx	0	5
91	MP2A	X	12.771	2
92	MP2A	Z	-22.12	2
93	MP2A	Mx	.006	2
94	M70	X	12.771	1
95	M70	Z	-22.12	1
96	M70	Mx	-.006	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	21.953	1
2	MP1A	Z	-12.675	1
3	MP1A	Mx	-.021	1
4	MP1A	X	21.953	5
5	MP1A	Z	-12.675	5
6	MP1A	Mx	-.021	5
7	MP1B	X	21.39	1
8	MP1B	Z	-12.349	1
9	MP1B	Mx	-.005	1
10	MP1B	X	21.39	5
11	MP1B	Z	-12.349	5
12	MP1B	Mx	-.005	5
13	MP1C	X	21.39	1
14	MP1C	Z	-12.349	1
15	MP1C	Mx	.021	1
16	MP1C	X	21.39	5
17	MP1C	Z	-12.349	5
18	MP1C	Mx	.021	5
19	MP1A	X	21.953	1
20	MP1A	Z	-12.675	1
21	MP1A	Mx	.008	1
22	MP1A	X	21.953	5
23	MP1A	Z	-12.675	5
24	MP1A	Mx	.008	5
25	MP1B	X	21.39	1
26	MP1B	Z	-12.349	1
27	MP1B	Mx	.021	1
28	MP1B	X	21.39	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	-12.349	5
30	MP1B	Mx	.021	5
31	MP1C	X	21.39	1
32	MP1C	Z	-12.349	1
33	MP1C	Mx	-.005	1
34	MP1C	X	21.39	5
35	MP1C	Z	-12.349	5
36	MP1C	Mx	-.005	5
37	MP2B	X	10.304	1.5
38	MP2B	Z	-5.949	1.5
39	MP2B	Mx	.004	1.5
40	MP2B	X	10.304	3.5
41	MP2B	Z	-5.949	3.5
42	MP2B	Mx	.004	3.5
43	MP2C	X	10.304	1.5
44	MP2C	Z	-5.949	1.5
45	MP2C	Mx	.004	1.5
46	MP2C	X	10.304	3.5
47	MP2C	Z	-5.949	3.5
48	MP2C	Mx	.004	3.5
49	MP3A	X	11.569	1.5
50	MP3A	Z	-6.679	1.5
51	MP3A	Mx	-.003	1.5
52	MP3A	X	11.569	3.5
53	MP3A	Z	-6.679	3.5
54	MP3A	Mx	-.003	3.5
55	MP2A	X	10.518	.5
56	MP2A	Z	-6.073	.5
57	MP2A	Mx	-.003	.5
58	MP2B	X	9.953	.5
59	MP2B	Z	-5.746	.5
60	MP2B	Mx	-.004	.5
61	MP2C	X	9.953	.5
62	MP2C	Z	-5.746	.5
63	MP2C	Mx	-.004	.5
64	MP1A	X	10.189	1.5
65	MP1A	Z	-5.883	1.5
66	MP1A	Mx	.003	1.5
67	MP1B	X	9.408	1.5
68	MP1B	Z	-5.432	1.5
69	MP1B	Mx	-.003	1.5
70	MP1C	X	9.408	1.5
71	MP1C	Z	-5.432	1.5
72	MP1C	Mx	-.003	1.5
73	MP3B	X	17.041	1
74	MP3B	Z	-9.838	1
75	MP3B	Mx	.006	1
76	MP3B	X	17.041	5
77	MP3B	Z	-9.838	5
78	MP3B	Mx	.006	5
79	MP3C	X	17.041	1
80	MP3C	Z	-9.838	1
81	MP3C	Mx	.006	1
82	MP3C	X	17.041	5
83	MP3C	Z	-9.838	5
84	MP3C	Mx	.006	5
85	MP4A	X	18.405	1





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP4A	Z	-10.626	1
87	MP4A	Mx	-.005	1
88	MP4A	X	18.405	5
89	MP4A	Z	-10.626	5
90	MP4A	Mx	-.005	5
91	MP2A	X	19.57	2
92	MP2A	Z	-11.299	2
93	MP2A	Mx	.01	2
94	M70	X	19.57	1
95	M70	Z	-11.299	1
96	M70	Mx	-.01	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	23.355	1
2	MP1A	Z	0	1
3	MP1A	Mx	-.018	1
4	MP1A	X	23.355	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.018	5
7	MP1B	X	26.227	1
8	MP1B	Z	0	1
9	MP1B	Mx	-.015	1
10	MP1B	X	26.227	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.015	5
13	MP1C	X	22.824	1
14	MP1C	Z	0	1
15	MP1C	Mx	.016	1
16	MP1C	X	22.824	5
17	MP1C	Z	0	5
18	MP1C	Mx	.016	5
19	MP1A	X	23.355	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.002	1
22	MP1A	X	23.355	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.002	5
25	MP1B	X	26.227	1
26	MP1B	Z	0	1
27	MP1B	Mx	.019	1
28	MP1B	X	26.227	5
29	MP1B	Z	0	5
30	MP1B	Mx	.019	5
31	MP1C	X	22.824	1
32	MP1C	Z	0	1
33	MP1C	Mx	.006	1
34	MP1C	X	22.824	5
35	MP1C	Z	0	5
36	MP1C	Mx	.006	5
37	MP2B	X	15.327	1.5
38	MP2B	Z	0	1.5
39	MP2B	Mx	.001	1.5
40	MP2B	X	15.327	3.5
41	MP2B	Z	0	3.5
42	MP2B	Mx	.001	3.5



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 Designer :  
 Job Number :  
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**Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2C	X	7.691	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	.004	1.5
46	MP2C	X	7.691	3.5
47	MP2C	Z	0	3.5
48	MP2C	Mx	.004	3.5
49	MP3A	X	8.882	1.5
50	MP3A	Z	0	1.5
51	MP3A	Mx	-.004	1.5
52	MP3A	X	8.882	3.5
53	MP3A	Z	0	3.5
54	MP3A	Mx	-.004	3.5
55	MP2A	X	10.144	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.004	.5
58	MP2B	X	13.025	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.001	.5
61	MP2C	X	9.612	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	-.005	.5
64	MP1A	X	9.004	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.004	1.5
67	MP1B	X	12.979	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	8.27	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.004	1.5
73	MP3B	X	23.374	1
74	MP3B	Z	0	1
75	MP3B	Mx	.002	1
76	MP3B	X	23.374	5
77	MP3B	Z	0	5
78	MP3B	Mx	.002	5
79	MP3C	X	15.142	1
80	MP3C	Z	0	1
81	MP3C	Mx	.007	1
82	MP3C	X	15.142	5
83	MP3C	Z	0	5
84	MP3C	Mx	.007	5
85	MP4A	X	16.426	1
86	MP4A	Z	0	1
87	MP4A	Mx	-.007	1
88	MP4A	X	16.426	5
89	MP4A	Z	0	5
90	MP4A	Mx	-.007	5
91	MP2A	X	21.125	2
92	MP2A	Z	0	2
93	MP2A	Mx	.011	2
94	M70	X	21.125	1
95	M70	Z	0	1
96	M70	Mx	-.011	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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**Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	19.362	1
2	MP1A	Z	11.179	1
3	MP1A	Mx	-.011	1
4	MP1A	X	19.362	5
5	MP1A	Z	11.179	5
6	MP1A	Mx	-.011	5
7	MP1B	X	22.413	1
8	MP1B	Z	12.94	1
9	MP1B	Mx	-.021	1
10	MP1B	X	22.413	5
11	MP1B	Z	12.94	5
12	MP1B	Mx	-.021	5
13	MP1C	X	19.466	1
14	MP1C	Z	11.239	1
15	MP1C	Mx	.008	1
16	MP1C	X	19.466	5
17	MP1C	Z	11.239	5
18	MP1C	Mx	.008	5
19	MP1A	X	19.362	1
20	MP1A	Z	11.179	1
21	MP1A	Mx	-.011	1
22	MP1A	X	19.362	5
23	MP1A	Z	11.179	5
24	MP1A	Mx	-.011	5
25	MP1B	X	22.413	1
26	MP1B	Z	12.94	1
27	MP1B	Mx	.012	1
28	MP1B	X	22.413	5
29	MP1B	Z	12.94	5
30	MP1B	Mx	.012	5
31	MP1C	X	19.466	1
32	MP1C	Z	11.239	1
33	MP1C	Mx	.014	1
34	MP1C	X	19.466	5
35	MP1C	Z	11.239	5
36	MP1C	Mx	.014	5
37	MP2B	X	12.6	1.5
38	MP2B	Z	7.275	1.5
39	MP2B	Mx	-.002	1.5
40	MP2B	X	12.6	3.5
41	MP2B	Z	7.275	3.5
42	MP2B	Mx	-.002	3.5
43	MP2C	X	5.988	1.5
44	MP2C	Z	3.457	1.5
45	MP2C	Mx	.003	1.5
46	MP2C	X	5.988	3.5
47	MP2C	Z	3.457	3.5
48	MP2C	Mx	.003	3.5
49	MP3A	X	5.754	1.5
50	MP3A	Z	3.322	1.5
51	MP3A	Mx	-.003	1.5
52	MP3A	X	5.754	3.5
53	MP3A	Z	3.322	3.5
54	MP3A	Mx	-.003	3.5
55	MP2A	X	7.919	.5
56	MP2A	Z	4.572	.5
57	MP2A	Mx	-.005	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2B	X	10.979	.5
59	MP2B	Z	6.339	.5
60	MP2B	Mx	.002	.5
61	MP2C	X	8.024	.5
62	MP2C	Z	4.632	.5
63	MP2C	Mx	-.005	.5
64	MP1A	X	6.602	1.5
65	MP1A	Z	3.812	1.5
66	MP1A	Mx	.004	1.5
67	MP1B	X	10.825	1.5
68	MP1B	Z	6.25	1.5
69	MP1B	Mx	.002	1.5
70	MP1C	X	6.746	1.5
71	MP1C	Z	3.895	1.5
72	MP1C	Mx	-.004	1.5
73	MP3B	X	19.517	1
74	MP3B	Z	11.268	1
75	MP3B	Mx	-.004	1
76	MP3B	X	19.517	5
77	MP3B	Z	11.268	5
78	MP3B	Mx	-.004	5
79	MP3C	X	12.387	1
80	MP3C	Z	7.152	1
81	MP3C	Mx	.007	1
82	MP3C	X	12.387	5
83	MP3C	Z	7.152	5
84	MP3C	Mx	.007	5
85	MP4A	X	12.135	1
86	MP4A	Z	7.006	1
87	MP4A	Mx	-.007	1
88	MP4A	X	12.135	5
89	MP4A	Z	7.006	5
90	MP4A	Mx	-.007	5
91	MP2A	X	19.57	2
92	MP2A	Z	11.299	2
93	MP2A	Mx	.01	2
94	M70	X	19.57	1
95	M70	Z	11.299	1
96	M70	Mx	-.01	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	11.677	1
2	MP1A	Z	20.226	1
3	MP1A	Mx	-.002	1
4	MP1A	X	11.677	5
5	MP1A	Z	20.226	5
6	MP1A	Mx	-.002	5
7	MP1B	X	12.003	1
8	MP1B	Z	20.79	1
9	MP1B	Mx	-.019	1
10	MP1B	X	12.003	5
11	MP1B	Z	20.79	5
12	MP1B	Mx	-.019	5
13	MP1C	X	12.003	1
14	MP1C	Z	20.79	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1C	Mx	-.001	1
16	MP1C	X	12.003	5
17	MP1C	Z	20.79	5
18	MP1C	Mx	-.001	5
19	MP1A	X	11.677	1
20	MP1A	Z	20.226	1
21	MP1A	Mx	-.018	1
22	MP1A	X	11.677	5
23	MP1A	Z	20.226	5
24	MP1A	Mx	-.018	5
25	MP1B	X	12.003	1
26	MP1B	Z	20.79	1
27	MP1B	Mx	.001	1
28	MP1B	X	12.003	5
29	MP1B	Z	20.79	5
30	MP1B	Mx	.001	5
31	MP1C	X	12.003	1
32	MP1C	Z	20.79	1
33	MP1C	Mx	.019	1
34	MP1C	X	12.003	5
35	MP1C	Z	20.79	5
36	MP1C	Mx	.019	5
37	MP2B	X	5.172	1.5
38	MP2B	Z	8.957	1.5
39	MP2B	Mx	-.004	1.5
40	MP2B	X	5.172	3.5
41	MP2B	Z	8.957	3.5
42	MP2B	Mx	-.004	3.5
43	MP2C	X	5.172	1.5
44	MP2C	Z	8.957	1.5
45	MP2C	Mx	.004	1.5
46	MP2C	X	5.172	3.5
47	MP2C	Z	8.957	3.5
48	MP2C	Mx	.004	3.5
49	MP3A	X	4.441	1.5
50	MP3A	Z	7.692	1.5
51	MP3A	Mx	-.004	1.5
52	MP3A	X	4.441	3.5
53	MP3A	Z	7.692	3.5
54	MP3A	Mx	-.004	3.5
55	MP2A	X	5.072	.5
56	MP2A	Z	8.785	.5
57	MP2A	Mx	-.004	.5
58	MP2B	X	5.399	.5
59	MP2B	Z	9.351	.5
60	MP2B	Mx	.004	.5
61	MP2C	X	5.399	.5
62	MP2C	Z	9.351	.5
63	MP2C	Mx	-.004	.5
64	MP1A	X	4.502	1.5
65	MP1A	Z	7.798	1.5
66	MP1A	Mx	.004	1.5
67	MP1B	X	4.953	1.5
68	MP1B	Z	8.578	1.5
69	MP1B	Mx	.004	1.5
70	MP1C	X	4.953	1.5
71	MP1C	Z	8.578	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	-.004	1.5
73	MP3B	X	9	1
74	MP3B	Z	15.589	1
75	MP3B	Mx	-.007	1
76	MP3B	X	9	5
77	MP3B	Z	15.589	5
78	MP3B	Mx	-.007	5
79	MP3C	X	9	1
80	MP3C	Z	15.589	1
81	MP3C	Mx	.007	1
82	MP3C	X	9	5
83	MP3C	Z	15.589	5
84	MP3C	Mx	.007	5
85	MP4A	X	8.213	1
86	MP4A	Z	14.225	1
87	MP4A	Mx	-.007	1
88	MP4A	X	8.213	5
89	MP4A	Z	14.225	5
90	MP4A	Mx	-.007	5
91	MP2A	X	12.771	2
92	MP2A	Z	22.12	2
93	MP2A	Mx	.006	2
94	M70	X	12.771	1
95	M70	Z	22.12	1
96	M70	Mx	-.006	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	1
2	MP1A	Z	25.35	1
3	MP1A	Mx	.008	1
4	MP1A	X	0	5
5	MP1A	Z	25.35	5
6	MP1A	Mx	.008	5
7	MP1B	X	0	1
8	MP1B	Z	22.478	1
9	MP1B	Mx	-.014	1
10	MP1B	X	0	5
11	MP1B	Z	22.478	5
12	MP1B	Mx	-.014	5
13	MP1C	X	0	1
14	MP1C	Z	25.88	1
15	MP1C	Mx	-.012	1
16	MP1C	X	0	5
17	MP1C	Z	25.88	5
18	MP1C	Mx	-.012	5
19	MP1A	X	0	1
20	MP1A	Z	25.35	1
21	MP1A	Mx	-.021	1
22	MP1A	X	0	5
23	MP1A	Z	25.35	5
24	MP1A	Mx	-.021	5
25	MP1B	X	0	1
26	MP1B	Z	22.478	1
27	MP1B	Mx	-.008	1
28	MP1B	X	0	5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	22.478	5
30	MP1B	Mx	-.008	5
31	MP1C	X	0	1
32	MP1C	Z	25.88	1
33	MP1C	Mx	.021	1
34	MP1C	X	0	5
35	MP1C	Z	25.88	5
36	MP1C	Mx	.021	5
37	MP2B	X	0	1.5
38	MP2B	Z	6.914	1.5
39	MP2B	Mx	-.003	1.5
40	MP2B	X	0	3.5
41	MP2B	Z	6.914	3.5
42	MP2B	Mx	-.003	3.5
43	MP2C	X	0	1.5
44	MP2C	Z	14.549	1.5
45	MP2C	Mx	.002	1.5
46	MP2C	X	0	3.5
47	MP2C	Z	14.549	3.5
48	MP2C	Mx	.002	3.5
49	MP3A	X	0	1.5
50	MP3A	Z	13.359	1.5
51	MP3A	Mx	-.003	1.5
52	MP3A	X	0	3.5
53	MP3A	Z	13.359	3.5
54	MP3A	Mx	-.003	3.5
55	MP2A	X	0	.5
56	MP2A	Z	12.145	.5
57	MP2A	Mx	-.003	.5
58	MP2B	X	0	.5
59	MP2B	Z	9.265	.5
60	MP2B	Mx	.005	.5
61	MP2C	X	0	.5
62	MP2C	Z	12.677	.5
63	MP2C	Mx	-.002	.5
64	MP1A	X	0	1.5
65	MP1A	Z	11.765	1.5
66	MP1A	Mx	.003	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	7.79	1.5
69	MP1B	Mx	.004	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	12.5	1.5
72	MP1C	Mx	-.002	1.5
73	MP3B	X	0	1
74	MP3B	Z	14.304	1
75	MP3B	Mx	-.007	1
76	MP3B	X	0	5
77	MP3B	Z	14.304	5
78	MP3B	Mx	-.007	5
79	MP3C	X	0	1
80	MP3C	Z	22.536	1
81	MP3C	Mx	.004	1
82	MP3C	X	0	5
83	MP3C	Z	22.536	5
84	MP3C	Mx	.004	5
85	MP4A	X	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP4A	Z	21.252	1
87	MP4A	Mx	-.005	1
88	MP4A	X	0	5
89	MP4A	Z	21.252	5
90	MP4A	Mx	-.005	5
91	MP2A	X	0	2
92	MP2A	Z	27.015	2
93	MP2A	Mx	0	2
94	M70	X	0	1
95	M70	Z	27.015	1
96	M70	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-13.174	1
2	MP1A	Z	22.817	1
3	MP1A	Mx	.018	1
4	MP1A	X	-13.174	5
5	MP1A	Z	22.817	5
6	MP1A	Mx	.018	5
7	MP1B	X	-11.412	1
8	MP1B	Z	19.766	1
9	MP1B	Mx	-.006	1
10	MP1B	X	-11.412	5
11	MP1B	Z	19.766	5
12	MP1B	Mx	-.006	5
13	MP1C	X	-13.113	1
14	MP1C	Z	22.713	1
15	MP1C	Mx	-.019	1
16	MP1C	X	-13.113	5
17	MP1C	Z	22.713	5
18	MP1C	Mx	-.019	5
19	MP1A	X	-13.174	1
20	MP1A	Z	22.817	1
21	MP1A	Mx	-.018	1
22	MP1A	X	-13.174	5
23	MP1A	Z	22.817	5
24	MP1A	Mx	-.018	5
25	MP1B	X	-11.412	1
26	MP1B	Z	19.766	1
27	MP1B	Mx	-.016	1
28	MP1B	X	-11.412	5
29	MP1B	Z	19.766	5
30	MP1B	Mx	-.016	5
31	MP1C	X	-13.113	1
32	MP1C	Z	22.713	1
33	MP1C	Mx	.015	1
34	MP1C	X	-13.113	5
35	MP1C	Z	22.713	5
36	MP1C	Mx	.015	5
37	MP2B	X	-3.846	1.5
38	MP2B	Z	6.661	1.5
39	MP2B	Mx	-.004	1.5
40	MP2B	X	-3.846	3.5
41	MP2B	Z	6.661	3.5
42	MP2B	Mx	-.004	3.5



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
43	MP2C	X	-7.663	1.5
44	MP2C	Z	13.273	1.5
45	MP2C	Mx	-.001	1.5
46	MP2C	X	-7.663	3.5
47	MP2C	Z	13.273	3.5
48	MP2C	Mx	-.001	3.5
49	MP3A	X	-7.798	1.5
50	MP3A	Z	13.507	1.5
51	MP3A	Mx	0	1.5
52	MP3A	X	-7.798	3.5
53	MP3A	Z	13.507	3.5
54	MP3A	Mx	0	3.5
55	MP2A	X	-6.573	.5
56	MP2A	Z	11.384	.5
57	MP2A	Mx	0	.5
58	MP2B	X	-4.806	.5
59	MP2B	Z	8.324	.5
60	MP2B	Mx	.005	.5
61	MP2C	X	-6.512	.5
62	MP2C	Z	11.28	.5
63	MP2C	Mx	.001	.5
64	MP1A	X	-6.573	1.5
65	MP1A	Z	11.384	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	-4.135	1.5
68	MP1B	Z	7.162	1.5
69	MP1B	Mx	.004	1.5
70	MP1C	X	-6.489	1.5
71	MP1C	Z	11.24	1.5
72	MP1C	Mx	.001	1.5
73	MP3B	X	-7.571	1
74	MP3B	Z	13.113	1
75	MP3B	Mx	-.007	1
76	MP3B	X	-7.571	5
77	MP3B	Z	13.113	5
78	MP3B	Mx	-.007	5
79	MP3C	X	-11.687	1
80	MP3C	Z	20.242	1
81	MP3C	Mx	-.002	1
82	MP3C	X	-11.687	5
83	MP3C	Z	20.242	5
84	MP3C	Mx	-.002	5
85	MP4A	X	-11.832	1
86	MP4A	Z	20.494	1
87	MP4A	Mx	0	1
88	MP4A	X	-11.832	5
89	MP4A	Z	20.494	5
90	MP4A	Mx	0	5
91	MP2A	X	-12.771	2
92	MP2A	Z	22.12	2
93	MP2A	Mx	-.006	2
94	M70	X	-12.771	1
95	M70	Z	22.12	1
96	M70	Mx	.006	1

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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**Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-21.953	1
2	MP1A	Z	12.675	1
3	MP1A	Mx	.021	1
4	MP1A	X	-21.953	5
5	MP1A	Z	12.675	5
6	MP1A	Mx	.021	5
7	MP1B	X	-21.39	1
8	MP1B	Z	12.349	1
9	MP1B	Mx	.005	1
10	MP1B	X	-21.39	5
11	MP1B	Z	12.349	5
12	MP1B	Mx	.005	5
13	MP1C	X	-21.39	1
14	MP1C	Z	12.349	1
15	MP1C	Mx	-.021	1
16	MP1C	X	-21.39	5
17	MP1C	Z	12.349	5
18	MP1C	Mx	-.021	5
19	MP1A	X	-21.953	1
20	MP1A	Z	12.675	1
21	MP1A	Mx	-.008	1
22	MP1A	X	-21.953	5
23	MP1A	Z	12.675	5
24	MP1A	Mx	-.008	5
25	MP1B	X	-21.39	1
26	MP1B	Z	12.349	1
27	MP1B	Mx	-.021	1
28	MP1B	X	-21.39	5
29	MP1B	Z	12.349	5
30	MP1B	Mx	-.021	5
31	MP1C	X	-21.39	1
32	MP1C	Z	12.349	1
33	MP1C	Mx	.005	1
34	MP1C	X	-21.39	5
35	MP1C	Z	12.349	5
36	MP1C	Mx	.005	5
37	MP2B	X	-10.304	1.5
38	MP2B	Z	5.949	1.5
39	MP2B	Mx	-.004	1.5
40	MP2B	X	-10.304	3.5
41	MP2B	Z	5.949	3.5
42	MP2B	Mx	-.004	3.5
43	MP2C	X	-10.304	1.5
44	MP2C	Z	5.949	1.5
45	MP2C	Mx	-.004	1.5
46	MP2C	X	-10.304	3.5
47	MP2C	Z	5.949	3.5
48	MP2C	Mx	-.004	3.5
49	MP3A	X	-11.569	1.5
50	MP3A	Z	6.679	1.5
51	MP3A	Mx	.003	1.5
52	MP3A	X	-11.569	3.5
53	MP3A	Z	6.679	3.5
54	MP3A	Mx	.003	3.5
55	MP2A	X	-10.518	.5
56	MP2A	Z	6.073	.5
57	MP2A	Mx	.003	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2B	X	-9.953	.5
59	MP2B	Z	5.746	.5
60	MP2B	Mx	.004	.5
61	MP2C	X	-9.953	.5
62	MP2C	Z	5.746	.5
63	MP2C	Mx	.004	.5
64	MP1A	X	-10.189	1.5
65	MP1A	Z	5.883	1.5
66	MP1A	Mx	-.003	1.5
67	MP1B	X	-9.408	1.5
68	MP1B	Z	5.432	1.5
69	MP1B	Mx	.003	1.5
70	MP1C	X	-9.408	1.5
71	MP1C	Z	5.432	1.5
72	MP1C	Mx	.003	1.5
73	MP3B	X	-17.041	1
74	MP3B	Z	9.838	1
75	MP3B	Mx	-.006	1
76	MP3B	X	-17.041	5
77	MP3B	Z	9.838	5
78	MP3B	Mx	-.006	5
79	MP3C	X	-17.041	1
80	MP3C	Z	9.838	1
81	MP3C	Mx	-.006	1
82	MP3C	X	-17.041	5
83	MP3C	Z	9.838	5
84	MP3C	Mx	-.006	5
85	MP4A	X	-18.405	1
86	MP4A	Z	10.626	1
87	MP4A	Mx	.005	1
88	MP4A	X	-18.405	5
89	MP4A	Z	10.626	5
90	MP4A	Mx	.005	5
91	MP2A	X	-19.57	2
92	MP2A	Z	11.299	2
93	MP2A	Mx	-.01	2
94	M70	X	-19.57	1
95	M70	Z	11.299	1
96	M70	Mx	.01	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-23.355	1
2	MP1A	Z	0	1
3	MP1A	Mx	.018	1
4	MP1A	X	-23.355	5
5	MP1A	Z	0	5
6	MP1A	Mx	.018	5
7	MP1B	X	-26.227	1
8	MP1B	Z	0	1
9	MP1B	Mx	.015	1
10	MP1B	X	-26.227	5
11	MP1B	Z	0	5
12	MP1B	Mx	.015	5
13	MP1C	X	-22.824	1
14	MP1C	Z	0	1



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

Sept 7, 2021  
 11:29 AM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1C	Mx	-.016	1
16	MP1C	X	-22.824	5
17	MP1C	Z	0	5
18	MP1C	Mx	-.016	5
19	MP1A	X	-23.355	1
20	MP1A	Z	0	1
21	MP1A	Mx	.002	1
22	MP1A	X	-23.355	5
23	MP1A	Z	0	5
24	MP1A	Mx	.002	5
25	MP1B	X	-26.227	1
26	MP1B	Z	0	1
27	MP1B	Mx	-.019	1
28	MP1B	X	-26.227	5
29	MP1B	Z	0	5
30	MP1B	Mx	-.019	5
31	MP1C	X	-22.824	1
32	MP1C	Z	0	1
33	MP1C	Mx	-.006	1
34	MP1C	X	-22.824	5
35	MP1C	Z	0	5
36	MP1C	Mx	-.006	5
37	MP2B	X	-15.327	1.5
38	MP2B	Z	0	1.5
39	MP2B	Mx	-.001	1.5
40	MP2B	X	-15.327	3.5
41	MP2B	Z	0	3.5
42	MP2B	Mx	-.001	3.5
43	MP2C	X	-7.691	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	-.004	1.5
46	MP2C	X	-7.691	3.5
47	MP2C	Z	0	3.5
48	MP2C	Mx	-.004	3.5
49	MP3A	X	-8.882	1.5
50	MP3A	Z	0	1.5
51	MP3A	Mx	.004	1.5
52	MP3A	X	-8.882	3.5
53	MP3A	Z	0	3.5
54	MP3A	Mx	.004	3.5
55	MP2A	X	-10.144	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.004	.5
58	MP2B	X	-13.025	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	.001	.5
61	MP2C	X	-9.612	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	.005	.5
64	MP1A	X	-9.004	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.004	1.5
67	MP1B	X	-12.979	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-8.27	1.5
71	MP1C	Z	0	1.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	.004	1.5
73	MP3B	X	-23.374	1
74	MP3B	Z	0	1
75	MP3B	Mx	-.002	1
76	MP3B	X	-23.374	5
77	MP3B	Z	0	5
78	MP3B	Mx	-.002	5
79	MP3C	X	-15.142	1
80	MP3C	Z	0	1
81	MP3C	Mx	-.007	1
82	MP3C	X	-15.142	5
83	MP3C	Z	0	5
84	MP3C	Mx	-.007	5
85	MP4A	X	-16.426	1
86	MP4A	Z	0	1
87	MP4A	Mx	.007	1
88	MP4A	X	-16.426	5
89	MP4A	Z	0	5
90	MP4A	Mx	.007	5
91	MP2A	X	-21.125	2
92	MP2A	Z	0	2
93	MP2A	Mx	-.011	2
94	M70	X	-21.125	1
95	M70	Z	0	1
96	M70	Mx	.011	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-19.362	1
2	MP1A	Z	-11.179	1
3	MP1A	Mx	.011	1
4	MP1A	X	-19.362	5
5	MP1A	Z	-11.179	5
6	MP1A	Mx	.011	5
7	MP1B	X	-22.413	1
8	MP1B	Z	-12.94	1
9	MP1B	Mx	.021	1
10	MP1B	X	-22.413	5
11	MP1B	Z	-12.94	5
12	MP1B	Mx	.021	5
13	MP1C	X	-19.466	1
14	MP1C	Z	-11.239	1
15	MP1C	Mx	-.008	1
16	MP1C	X	-19.466	5
17	MP1C	Z	-11.239	5
18	MP1C	Mx	-.008	5
19	MP1A	X	-19.362	1
20	MP1A	Z	-11.179	1
21	MP1A	Mx	.011	1
22	MP1A	X	-19.362	5
23	MP1A	Z	-11.179	5
24	MP1A	Mx	.011	5
25	MP1B	X	-22.413	1
26	MP1B	Z	-12.94	1
27	MP1B	Mx	-.012	1
28	MP1B	X	-22.413	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	-12.94	5
30	MP1B	Mx	-.012	5
31	MP1C	X	-19.466	1
32	MP1C	Z	-11.239	1
33	MP1C	Mx	-.014	1
34	MP1C	X	-19.466	5
35	MP1C	Z	-11.239	5
36	MP1C	Mx	-.014	5
37	MP2B	X	-12.6	1.5
38	MP2B	Z	-7.275	1.5
39	MP2B	Mx	.002	1.5
40	MP2B	X	-12.6	3.5
41	MP2B	Z	-7.275	3.5
42	MP2B	Mx	.002	3.5
43	MP2C	X	-5.988	1.5
44	MP2C	Z	-3.457	1.5
45	MP2C	Mx	-.003	1.5
46	MP2C	X	-5.988	3.5
47	MP2C	Z	-3.457	3.5
48	MP2C	Mx	-.003	3.5
49	MP3A	X	-5.754	1.5
50	MP3A	Z	-3.322	1.5
51	MP3A	Mx	.003	1.5
52	MP3A	X	-5.754	3.5
53	MP3A	Z	-3.322	3.5
54	MP3A	Mx	.003	3.5
55	MP2A	X	-7.919	.5
56	MP2A	Z	-4.572	.5
57	MP2A	Mx	.005	.5
58	MP2B	X	-10.979	.5
59	MP2B	Z	-6.339	.5
60	MP2B	Mx	-.002	.5
61	MP2C	X	-8.024	.5
62	MP2C	Z	-4.632	.5
63	MP2C	Mx	.005	.5
64	MP1A	X	-6.602	1.5
65	MP1A	Z	-3.812	1.5
66	MP1A	Mx	-.004	1.5
67	MP1B	X	-10.825	1.5
68	MP1B	Z	-6.25	1.5
69	MP1B	Mx	-.002	1.5
70	MP1C	X	-6.746	1.5
71	MP1C	Z	-3.895	1.5
72	MP1C	Mx	.004	1.5
73	MP3B	X	-19.517	1
74	MP3B	Z	-11.268	1
75	MP3B	Mx	.004	1
76	MP3B	X	-19.517	5
77	MP3B	Z	-11.268	5
78	MP3B	Mx	.004	5
79	MP3C	X	-12.387	1
80	MP3C	Z	-7.152	1
81	MP3C	Mx	-.007	1
82	MP3C	X	-12.387	5
83	MP3C	Z	-7.152	5
84	MP3C	Mx	-.007	5
85	MP4A	X	-12.135	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP4A	Z	-7.006	1
87	MP4A	Mx	.007	1
88	MP4A	X	-12.135	5
89	MP4A	Z	-7.006	5
90	MP4A	Mx	.007	5
91	MP2A	X	-19.57	2
92	MP2A	Z	-11.299	2
93	MP2A	Mx	-.01	2
94	M70	X	-19.57	1
95	M70	Z	-11.299	1
96	M70	Mx	.01	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-11.677	1
2	MP1A	Z	-20.226	1
3	MP1A	Mx	.002	1
4	MP1A	X	-11.677	5
5	MP1A	Z	-20.226	5
6	MP1A	Mx	.002	5
7	MP1B	X	-12.003	1
8	MP1B	Z	-20.79	1
9	MP1B	Mx	.019	1
10	MP1B	X	-12.003	5
11	MP1B	Z	-20.79	5
12	MP1B	Mx	.019	5
13	MP1C	X	-12.003	1
14	MP1C	Z	-20.79	1
15	MP1C	Mx	.001	1
16	MP1C	X	-12.003	5
17	MP1C	Z	-20.79	5
18	MP1C	Mx	.001	5
19	MP1A	X	-11.677	1
20	MP1A	Z	-20.226	1
21	MP1A	Mx	.018	1
22	MP1A	X	-11.677	5
23	MP1A	Z	-20.226	5
24	MP1A	Mx	.018	5
25	MP1B	X	-12.003	1
26	MP1B	Z	-20.79	1
27	MP1B	Mx	-.001	1
28	MP1B	X	-12.003	5
29	MP1B	Z	-20.79	5
30	MP1B	Mx	-.001	5
31	MP1C	X	-12.003	1
32	MP1C	Z	-20.79	1
33	MP1C	Mx	-.019	1
34	MP1C	X	-12.003	5
35	MP1C	Z	-20.79	5
36	MP1C	Mx	-.019	5
37	MP2B	X	-5.172	1.5
38	MP2B	Z	-8.957	1.5
39	MP2B	Mx	.004	1.5
40	MP2B	X	-5.172	3.5
41	MP2B	Z	-8.957	3.5
42	MP2B	Mx	.004	3.5



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
43	MP2C	X	-5.172	1.5
44	MP2C	Z	-8.957	1.5
45	MP2C	Mx	-.004	1.5
46	MP2C	X	-5.172	3.5
47	MP2C	Z	-8.957	3.5
48	MP2C	Mx	-.004	3.5
49	MP3A	X	-4.441	1.5
50	MP3A	Z	-7.692	1.5
51	MP3A	Mx	.004	1.5
52	MP3A	X	-4.441	3.5
53	MP3A	Z	-7.692	3.5
54	MP3A	Mx	.004	3.5
55	MP2A	X	-5.072	.5
56	MP2A	Z	-8.785	.5
57	MP2A	Mx	.004	.5
58	MP2B	X	-5.399	.5
59	MP2B	Z	-9.351	.5
60	MP2B	Mx	-.004	.5
61	MP2C	X	-5.399	.5
62	MP2C	Z	-9.351	.5
63	MP2C	Mx	.004	.5
64	MP1A	X	-4.502	1.5
65	MP1A	Z	-7.798	1.5
66	MP1A	Mx	-.004	1.5
67	MP1B	X	-4.953	1.5
68	MP1B	Z	-8.578	1.5
69	MP1B	Mx	-.004	1.5
70	MP1C	X	-4.953	1.5
71	MP1C	Z	-8.578	1.5
72	MP1C	Mx	.004	1.5
73	MP3B	X	-9	1
74	MP3B	Z	-15.589	1
75	MP3B	Mx	.007	1
76	MP3B	X	-9	5
77	MP3B	Z	-15.589	5
78	MP3B	Mx	.007	5
79	MP3C	X	-9	1
80	MP3C	Z	-15.589	1
81	MP3C	Mx	-.007	1
82	MP3C	X	-9	5
83	MP3C	Z	-15.589	5
84	MP3C	Mx	-.007	5
85	MP4A	X	-8.213	1
86	MP4A	Z	-14.225	1
87	MP4A	Mx	.007	1
88	MP4A	X	-8.213	5
89	MP4A	Z	-14.225	5
90	MP4A	Mx	.007	5
91	MP2A	X	-12.771	2
92	MP2A	Z	-22.12	2
93	MP2A	Mx	-.006	2
94	M70	X	-12.771	1
95	M70	Z	-22.12	1
96	M70	Mx	.006	1

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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**Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	1
2	MP1A	Z	-8.245	1
3	MP1A	Mx	-.003	1
4	MP1A	X	0	5
5	MP1A	Z	-8.245	5
6	MP1A	Mx	-.003	5
7	MP1B	X	0	1
8	MP1B	Z	-7.233	1
9	MP1B	Mx	.004	1
10	MP1B	X	0	5
11	MP1B	Z	-7.233	5
12	MP1B	Mx	.004	5
13	MP1C	X	0	1
14	MP1C	Z	-8.432	1
15	MP1C	Mx	.004	1
16	MP1C	X	0	5
17	MP1C	Z	-8.432	5
18	MP1C	Mx	.004	5
19	MP1A	X	0	1
20	MP1A	Z	-8.245	1
21	MP1A	Mx	.007	1
22	MP1A	X	0	5
23	MP1A	Z	-8.245	5
24	MP1A	Mx	.007	5
25	MP1B	X	0	1
26	MP1B	Z	-7.233	1
27	MP1B	Mx	.003	1
28	MP1B	X	0	5
29	MP1B	Z	-7.233	5
30	MP1B	Mx	.003	5
31	MP1C	X	0	1
32	MP1C	Z	-8.432	1
33	MP1C	Mx	-.007	1
34	MP1C	X	0	5
35	MP1C	Z	-8.432	5
36	MP1C	Mx	-.007	5
37	MP2B	X	0	1.5
38	MP2B	Z	-2.037	1.5
39	MP2B	Mx	.001	1.5
40	MP2B	X	0	3.5
41	MP2B	Z	-2.037	3.5
42	MP2B	Mx	.001	3.5
43	MP2C	X	0	1.5
44	MP2C	Z	-4.616	1.5
45	MP2C	Mx	-.000789	1.5
46	MP2C	X	0	3.5
47	MP2C	Z	-4.616	3.5
48	MP2C	Mx	-.000789	3.5
49	MP3A	X	0	1.5
50	MP3A	Z	-4.214	1.5
51	MP3A	Mx	.001	1.5
52	MP3A	X	0	3.5
53	MP3A	Z	-4.214	3.5
54	MP3A	Mx	.001	3.5
55	MP2A	X	0	.5
56	MP2A	Z	-3.627	.5
57	MP2A	Mx	.000907	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2B	X	0	.5
59	MP2B	Z	-2.683	.5
60	MP2B	Mx	-.001	.5
61	MP2C	X	0	.5
62	MP2C	Z	-3.801	.5
63	MP2C	Mx	.00065	.5
64	MP1A	X	0	1.5
65	MP1A	Z	-3.501	1.5
66	MP1A	Mx	-.000875	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	-2.196	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	-3.743	1.5
72	MP1C	Mx	.00064	1.5
73	MP3B	X	0	1
74	MP3B	Z	-4.37	1
75	MP3B	Mx	.002	1
76	MP3B	X	0	5
77	MP3B	Z	-4.37	5
78	MP3B	Mx	.002	5
79	MP3C	X	0	1
80	MP3C	Z	-7.278	1
81	MP3C	Mx	-.001	1
82	MP3C	X	0	5
83	MP3C	Z	-7.278	5
84	MP3C	Mx	-.001	5
85	MP4A	X	0	1
86	MP4A	Z	-6.824	1
87	MP4A	Mx	.002	1
88	MP4A	X	0	5
89	MP4A	Z	-6.824	5
90	MP4A	Mx	.002	5
91	MP2A	X	0	2
92	MP2A	Z	-8.586	2
93	MP2A	Mx	0	2
94	M70	X	0	1
95	M70	Z	-8.586	1
96	M70	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	4.298	1
2	MP1A	Z	-7.445	1
3	MP1A	Mx	-.006	1
4	MP1A	X	4.298	5
5	MP1A	Z	-7.445	5
6	MP1A	Mx	-.006	5
7	MP1B	X	3.677	1
8	MP1B	Z	-6.37	1
9	MP1B	Mx	.002	1
10	MP1B	X	3.677	5
11	MP1B	Z	-6.37	5
12	MP1B	Mx	.002	5
13	MP1C	X	4.277	1
14	MP1C	Z	-7.408	1





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1C	Mx	.006	1
16	MP1C	X	4.277	5
17	MP1C	Z	-7.408	5
18	MP1C	Mx	.006	5
19	MP1A	X	4.298	1
20	MP1A	Z	-7.445	1
21	MP1A	Mx	.006	1
22	MP1A	X	4.298	5
23	MP1A	Z	-7.445	5
24	MP1A	Mx	.006	5
25	MP1B	X	3.677	1
26	MP1B	Z	-6.37	1
27	MP1B	Mx	.005	1
28	MP1B	X	3.677	5
29	MP1B	Z	-6.37	5
30	MP1B	Mx	.005	5
31	MP1C	X	4.277	1
32	MP1C	Z	-7.408	1
33	MP1C	Mx	-.005	1
34	MP1C	X	4.277	5
35	MP1C	Z	-7.408	5
36	MP1C	Mx	-.005	5
37	MP2B	X	1.15	1.5
38	MP2B	Z	-1.991	1.5
39	MP2B	Mx	.001	1.5
40	MP2B	X	1.15	3.5
41	MP2B	Z	-1.991	3.5
42	MP2B	Mx	.001	3.5
43	MP2C	X	2.439	1.5
44	MP2C	Z	-4.225	1.5
45	MP2C	Mx	.000423	1.5
46	MP2C	X	2.439	3.5
47	MP2C	Z	-4.225	3.5
48	MP2C	Mx	.000423	3.5
49	MP3A	X	2.485	1.5
50	MP3A	Z	-4.304	1.5
51	MP3A	Mx	0	1.5
52	MP3A	X	2.485	3.5
53	MP3A	Z	-4.304	3.5
54	MP3A	Mx	0	3.5
55	MP2A	X	1.977	.5
56	MP2A	Z	-3.425	.5
57	MP2A	Mx	0	.5
58	MP2B	X	1.398	.5
59	MP2B	Z	-2.422	.5
60	MP2B	Mx	-.001	.5
61	MP2C	X	1.958	.5
62	MP2C	Z	-3.391	.5
63	MP2C	Mx	-.00034	.5
64	MP1A	X	1.977	1.5
65	MP1A	Z	-3.425	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	1.177	1.5
68	MP1B	Z	-2.038	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	1.95	1.5
71	MP1C	Z	-3.378	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	-.000339	1.5
73	MP3B	X	2.333	1
74	MP3B	Z	-4.041	1
75	MP3B	Mx	.002	1
76	MP3B	X	2.333	5
77	MP3B	Z	-4.041	5
78	MP3B	Mx	.002	5
79	MP3C	X	3.787	1
80	MP3C	Z	-6.559	1
81	MP3C	Mx	.000658	1
82	MP3C	X	3.787	5
83	MP3C	Z	-6.559	5
84	MP3C	Mx	.000658	5
85	MP4A	X	3.838	1
86	MP4A	Z	-6.648	1
87	MP4A	Mx	0	1
88	MP4A	X	3.838	5
89	MP4A	Z	-6.648	5
90	MP4A	Mx	0	5
91	MP2A	X	4.039	2
92	MP2A	Z	-6.995	2
93	MP2A	Mx	.002	2
94	M70	X	4.039	1
95	M70	Z	-6.995	1
96	M70	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	7.141	1
2	MP1A	Z	-4.123	1
3	MP1A	Mx	-.007	1
4	MP1A	X	7.141	5
5	MP1A	Z	-4.123	5
6	MP1A	Mx	-.007	5
7	MP1B	X	6.942	1
8	MP1B	Z	-4.008	1
9	MP1B	Mx	-.002	1
10	MP1B	X	6.942	5
11	MP1B	Z	-4.008	5
12	MP1B	Mx	-.002	5
13	MP1C	X	6.942	1
14	MP1C	Z	-4.008	1
15	MP1C	Mx	.007	1
16	MP1C	X	6.942	5
17	MP1C	Z	-4.008	5
18	MP1C	Mx	.007	5
19	MP1A	X	7.141	1
20	MP1A	Z	-4.123	1
21	MP1A	Mx	.003	1
22	MP1A	X	7.141	5
23	MP1A	Z	-4.123	5
24	MP1A	Mx	.003	5
25	MP1B	X	6.942	1
26	MP1B	Z	-4.008	1
27	MP1B	Mx	.007	1
28	MP1B	X	6.942	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP1B	Z	-4.008	5
30	MP1B	Mx	.007	5
31	MP1C	X	6.942	1
32	MP1C	Z	-4.008	1
33	MP1C	Mx	-.002	1
34	MP1C	X	6.942	5
35	MP1C	Z	-4.008	5
36	MP1C	Mx	-.002	5
37	MP2B	X	3.222	1.5
38	MP2B	Z	-1.86	1.5
39	MP2B	Mx	.001	1.5
40	MP2B	X	3.222	3.5
41	MP2B	Z	-1.86	3.5
42	MP2B	Mx	.001	3.5
43	MP2C	X	3.222	1.5
44	MP2C	Z	-1.86	1.5
45	MP2C	Mx	.001	1.5
46	MP2C	X	3.222	3.5
47	MP2C	Z	-1.86	3.5
48	MP2C	Mx	.001	3.5
49	MP3A	X	3.649	1.5
50	MP3A	Z	-2.107	1.5
51	MP3A	Mx	-.001	1.5
52	MP3A	X	3.649	3.5
53	MP3A	Z	-2.107	3.5
54	MP3A	Mx	-.001	3.5
55	MP2A	X	3.141	.5
56	MP2A	Z	-1.813	.5
57	MP2A	Mx	-.000907	.5
58	MP2B	X	2.956	.5
59	MP2B	Z	-1.706	.5
60	MP2B	Mx	-.001	.5
61	MP2C	X	2.956	.5
62	MP2C	Z	-1.706	.5
63	MP2C	Mx	-.001	.5
64	MP1A	X	3.032	1.5
65	MP1A	Z	-1.751	1.5
66	MP1A	Mx	.000875	1.5
67	MP1B	X	2.776	1.5
68	MP1B	Z	-1.603	1.5
69	MP1B	Mx	-.001	1.5
70	MP1C	X	2.776	1.5
71	MP1C	Z	-1.603	1.5
72	MP1C	Mx	-.001	1.5
73	MP3B	X	5.428	1
74	MP3B	Z	-3.134	1
75	MP3B	Mx	.002	1
76	MP3B	X	5.428	5
77	MP3B	Z	-3.134	5
78	MP3B	Mx	.002	5
79	MP3C	X	5.428	1
80	MP3C	Z	-3.134	1
81	MP3C	Mx	.002	1
82	MP3C	X	5.428	5
83	MP3C	Z	-3.134	5
84	MP3C	Mx	.002	5
85	MP4A	X	5.91	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP4A	Z	-3.412	1
87	MP4A	Mx	-.002	1
88	MP4A	X	5.91	5
89	MP4A	Z	-3.412	5
90	MP4A	Mx	-.002	5
91	MP2A	X	6.114	2
92	MP2A	Z	-3.53	2
93	MP2A	Mx	.003	2
94	M70	X	6.114	1
95	M70	Z	-3.53	1
96	M70	Mx	-.003	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	7.542	1
2	MP1A	Z	0	1
3	MP1A	Mx	-.006	1
4	MP1A	X	7.542	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.006	5
7	MP1B	X	8.554	1
8	MP1B	Z	0	1
9	MP1B	Mx	-.005	1
10	MP1B	X	8.554	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.005	5
13	MP1C	X	7.355	1
14	MP1C	Z	0	1
15	MP1C	Mx	.005	1
16	MP1C	X	7.355	5
17	MP1C	Z	0	5
18	MP1C	Mx	.005	5
19	MP1A	X	7.542	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.000752	1
22	MP1A	X	7.542	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.000752	5
25	MP1B	X	8.554	1
26	MP1B	Z	0	1
27	MP1B	Mx	.006	1
28	MP1B	X	8.554	5
29	MP1B	Z	0	5
30	MP1B	Mx	.006	5
31	MP1C	X	7.355	1
32	MP1C	Z	0	1
33	MP1C	Mx	.002	1
34	MP1C	X	7.355	5
35	MP1C	Z	0	5
36	MP1C	Mx	.002	5
37	MP2B	X	4.879	1.5
38	MP2B	Z	0	1.5
39	MP2B	Mx	.000424	1.5
40	MP2B	X	4.879	3.5
41	MP2B	Z	0	3.5
42	MP2B	Mx	.000424	3.5



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]	
43	MP2C	X	2.299	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	.001	1.5
46	MP2C	X	2.299	3.5
47	MP2C	Z	0	3.5
48	MP2C	Mx	.001	3.5
49	MP3A	X	2.702	1.5
50	MP3A	Z	0	1.5
51	MP3A	Mx	-.001	1.5
52	MP3A	X	2.702	3.5
53	MP3A	Z	0	3.5
54	MP3A	Mx	-.001	3.5
55	MP2A	X	2.971	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.001	.5
58	MP2B	X	3.915	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.00034	.5
61	MP2C	X	2.797	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	-.001	.5
64	MP1A	X	2.595	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	3.9	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	-.000339	1.5
70	MP1C	X	2.353	1.5
71	MP1C	Z	0	1.5
72	MP1C	Mx	-.001	1.5
73	MP3B	X	7.574	1
74	MP3B	Z	0	1
75	MP3B	Mx	.000658	1
76	MP3B	X	7.574	5
77	MP3B	Z	0	5
78	MP3B	Mx	.000658	5
79	MP3C	X	4.666	1
80	MP3C	Z	0	1
81	MP3C	Mx	.002	1
82	MP3C	X	4.666	5
83	MP3C	Z	0	5
84	MP3C	Mx	.002	5
85	MP4A	X	5.119	1
86	MP4A	Z	0	1
87	MP4A	Mx	-.002	1
88	MP4A	X	5.119	5
89	MP4A	Z	0	5
90	MP4A	Mx	-.002	5
91	MP2A	X	6.551	2
92	MP2A	Z	0	2
93	MP2A	Mx	.003	2
94	M70	X	6.551	1
95	M70	Z	0	1
96	M70	Mx	-.003	1

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
RISA-3D Version 17.0.4 [\\...\Mount Fix\Rev 0\Risa\468414-VZW_MT_LO_H.r3d] Page 64			



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

Sept 7, 2021  
 11:29 AM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	6.227	1
2	MP1A	Z	3.595	1
3	MP1A	Mx	-.004	1
4	MP1A	X	6.227	5
5	MP1A	Z	3.595	5
6	MP1A	Mx	-.004	5
7	MP1B	X	7.303	1
8	MP1B	Z	4.216	1
9	MP1B	Mx	-.007	1
10	MP1B	X	7.303	5
11	MP1B	Z	4.216	5
12	MP1B	Mx	-.007	5
13	MP1C	X	6.264	1
14	MP1C	Z	3.616	1
15	MP1C	Mx	.003	1
16	MP1C	X	6.264	5
17	MP1C	Z	3.616	5
18	MP1C	Mx	.003	5
19	MP1A	X	6.227	1
20	MP1A	Z	3.595	1
21	MP1A	Mx	-.004	1
22	MP1A	X	6.227	5
23	MP1A	Z	3.595	5
24	MP1A	Mx	-.004	5
25	MP1B	X	7.303	1
26	MP1B	Z	4.216	1
27	MP1B	Mx	.004	1
28	MP1B	X	7.303	5
29	MP1B	Z	4.216	5
30	MP1B	Mx	.004	5
31	MP1C	X	6.264	1
32	MP1C	Z	3.616	1
33	MP1C	Mx	.004	1
34	MP1C	X	6.264	5
35	MP1C	Z	3.616	5
36	MP1C	Mx	.004	5
37	MP2B	X	3.998	1.5
38	MP2B	Z	2.308	1.5
39	MP2B	Mx	-.000789	1.5
40	MP2B	X	3.998	3.5
41	MP2B	Z	2.308	3.5
42	MP2B	Mx	-.000789	3.5
43	MP2C	X	1.764	1.5
44	MP2C	Z	1.018	1.5
45	MP2C	Mx	.001	1.5
46	MP2C	X	1.764	3.5
47	MP2C	Z	1.018	3.5
48	MP2C	Mx	.001	3.5
49	MP3A	X	1.685	1.5
50	MP3A	Z	.973	1.5
51	MP3A	Mx	-.000973	1.5
52	MP3A	X	1.685	3.5
53	MP3A	Z	.973	3.5
54	MP3A	Mx	-.000973	3.5
55	MP2A	X	2.289	.5
56	MP2A	Z	1.322	.5
57	MP2A	Mx	-.001	.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2B	X	3.292	.5
59	MP2B	Z	1.901	.5
60	MP2B	Mx	.00065	.5
61	MP2C	X	2.324	.5
62	MP2C	Z	1.342	.5
63	MP2C	Mx	-.001	.5
64	MP1A	X	1.854	1.5
65	MP1A	Z	1.071	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	3.241	1.5
68	MP1B	Z	1.871	1.5
69	MP1B	Mx	.00064	1.5
70	MP1C	X	1.902	1.5
71	MP1C	Z	1.098	1.5
72	MP1C	Mx	-.001	1.5
73	MP3B	X	6.303	1
74	MP3B	Z	3.639	1
75	MP3B	Mx	-.001	1
76	MP3B	X	6.303	5
77	MP3B	Z	3.639	5
78	MP3B	Mx	-.001	5
79	MP3C	X	3.784	1
80	MP3C	Z	2.185	1
81	MP3C	Mx	.002	1
82	MP3C	X	3.784	5
83	MP3C	Z	2.185	5
84	MP3C	Mx	.002	5
85	MP4A	X	3.695	1
86	MP4A	Z	2.133	1
87	MP4A	Mx	-.002	1
88	MP4A	X	3.695	5
89	MP4A	Z	2.133	5
90	MP4A	Mx	-.002	5
91	MP2A	X	6.114	2
92	MP2A	Z	3.53	2
93	MP2A	Mx	.003	2
94	M70	X	6.114	1
95	M70	Z	3.53	1
96	M70	Mx	-.003	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	3.771	1
2	MP1A	Z	6.532	1
3	MP1A	Mx	-.000752	1
4	MP1A	X	3.771	5
5	MP1A	Z	6.532	5
6	MP1A	Mx	-.000752	5
7	MP1B	X	3.886	1
8	MP1B	Z	6.73	1
9	MP1B	Mx	-.006	1
10	MP1B	X	3.886	5
11	MP1B	Z	6.73	5
12	MP1B	Mx	-.006	5
13	MP1C	X	3.886	1
14	MP1C	Z	6.73	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1C	Mx	-.000353	1
16	MP1C	X	3.886	5
17	MP1C	Z	6.73	5
18	MP1C	Mx	-.000353	5
19	MP1A	X	3.771	1
20	MP1A	Z	6.532	1
21	MP1A	Mx	-.006	1
22	MP1A	X	3.771	5
23	MP1A	Z	6.532	5
24	MP1A	Mx	-.006	5
25	MP1B	X	3.886	1
26	MP1B	Z	6.73	1
27	MP1B	Mx	.000354	1
28	MP1B	X	3.886	5
29	MP1B	Z	6.73	5
30	MP1B	Mx	.000354	5
31	MP1C	X	3.886	1
32	MP1C	Z	6.73	1
33	MP1C	Mx	.006	1
34	MP1C	X	3.886	5
35	MP1C	Z	6.73	5
36	MP1C	Mx	.006	5
37	MP2B	X	1.598	1.5
38	MP2B	Z	2.767	1.5
39	MP2B	Mx	-.001	1.5
40	MP2B	X	1.598	3.5
41	MP2B	Z	2.767	3.5
42	MP2B	Mx	-.001	3.5
43	MP2C	X	1.598	1.5
44	MP2C	Z	2.767	1.5
45	MP2C	Mx	.001	1.5
46	MP2C	X	1.598	3.5
47	MP2C	Z	2.767	3.5
48	MP2C	Mx	.001	3.5
49	MP3A	X	1.351	1.5
50	MP3A	Z	2.34	1.5
51	MP3A	Mx	-.001	1.5
52	MP3A	X	1.351	3.5
53	MP3A	Z	2.34	3.5
54	MP3A	Mx	-.001	3.5
55	MP2A	X	1.486	.5
56	MP2A	Z	2.573	.5
57	MP2A	Mx	-.001	.5
58	MP2B	X	1.593	.5
59	MP2B	Z	2.759	.5
60	MP2B	Mx	.001	.5
61	MP2C	X	1.593	.5
62	MP2C	Z	2.759	.5
63	MP2C	Mx	-.001	.5
64	MP1A	X	1.297	1.5
65	MP1A	Z	2.247	1.5
66	MP1A	Mx	.001	1.5
67	MP1B	X	1.445	1.5
68	MP1B	Z	2.503	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	1.445	1.5
71	MP1C	Z	2.503	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	-.001	1.5
73	MP3B	X	2.838	1
74	MP3B	Z	4.915	1
75	MP3B	Mx	-.002	1
76	MP3B	X	2.838	5
77	MP3B	Z	4.915	5
78	MP3B	Mx	-.002	5
79	MP3C	X	2.838	1
80	MP3C	Z	4.915	1
81	MP3C	Mx	.002	1
82	MP3C	X	2.838	5
83	MP3C	Z	4.915	5
84	MP3C	Mx	.002	5
85	MP4A	X	2.56	1
86	MP4A	Z	4.433	1
87	MP4A	Mx	-.002	1
88	MP4A	X	2.56	5
89	MP4A	Z	4.433	5
90	MP4A	Mx	-.002	5
91	MP2A	X	4.039	2
92	MP2A	Z	6.995	2
93	MP2A	Mx	.002	2
94	M70	X	4.039	1
95	M70	Z	6.995	1
96	M70	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	1
2	MP1A	Z	8.245	1
3	MP1A	Mx	.003	1
4	MP1A	X	0	5
5	MP1A	Z	8.245	5
6	MP1A	Mx	.003	5
7	MP1B	X	0	1
8	MP1B	Z	7.233	1
9	MP1B	Mx	-.004	1
10	MP1B	X	0	5
11	MP1B	Z	7.233	5
12	MP1B	Mx	-.004	5
13	MP1C	X	0	1
14	MP1C	Z	8.432	1
15	MP1C	Mx	-.004	1
16	MP1C	X	0	5
17	MP1C	Z	8.432	5
18	MP1C	Mx	-.004	5
19	MP1A	X	0	1
20	MP1A	Z	8.245	1
21	MP1A	Mx	-.007	1
22	MP1A	X	0	5
23	MP1A	Z	8.245	5
24	MP1A	Mx	-.007	5
25	MP1B	X	0	1
26	MP1B	Z	7.233	1
27	MP1B	Mx	-.003	1
28	MP1B	X	0	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	7.233	5
30	MP1B	Mx	-.003	5
31	MP1C	X	0	1
32	MP1C	Z	8.432	1
33	MP1C	Mx	.007	1
34	MP1C	X	0	5
35	MP1C	Z	8.432	5
36	MP1C	Mx	.007	5
37	MP2B	X	0	1.5
38	MP2B	Z	2.037	1.5
39	MP2B	Mx	-.001	1.5
40	MP2B	X	0	3.5
41	MP2B	Z	2.037	3.5
42	MP2B	Mx	-.001	3.5
43	MP2C	X	0	1.5
44	MP2C	Z	4.616	1.5
45	MP2C	Mx	.000789	1.5
46	MP2C	X	0	3.5
47	MP2C	Z	4.616	3.5
48	MP2C	Mx	.000789	3.5
49	MP3A	X	0	1.5
50	MP3A	Z	4.214	1.5
51	MP3A	Mx	-.001	1.5
52	MP3A	X	0	3.5
53	MP3A	Z	4.214	3.5
54	MP3A	Mx	-.001	3.5
55	MP2A	X	0	.5
56	MP2A	Z	3.627	.5
57	MP2A	Mx	-.000907	.5
58	MP2B	X	0	.5
59	MP2B	Z	2.683	.5
60	MP2B	Mx	.001	.5
61	MP2C	X	0	.5
62	MP2C	Z	3.801	.5
63	MP2C	Mx	-.00065	.5
64	MP1A	X	0	1.5
65	MP1A	Z	3.501	1.5
66	MP1A	Mx	.000875	1.5
67	MP1B	X	0	1.5
68	MP1B	Z	2.196	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	0	1.5
71	MP1C	Z	3.743	1.5
72	MP1C	Mx	-.00064	1.5
73	MP3B	X	0	1
74	MP3B	Z	4.37	1
75	MP3B	Mx	-.002	1
76	MP3B	X	0	5
77	MP3B	Z	4.37	5
78	MP3B	Mx	-.002	5
79	MP3C	X	0	1
80	MP3C	Z	7.278	1
81	MP3C	Mx	.001	1
82	MP3C	X	0	5
83	MP3C	Z	7.278	5
84	MP3C	Mx	.001	5
85	MP4A	X	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP4A	Z	6.824	1
87	MP4A	Mx	-0.02	1
88	MP4A	X	0	5
89	MP4A	Z	6.824	5
90	MP4A	Mx	-0.02	5
91	MP2A	X	0	2
92	MP2A	Z	8.586	2
93	MP2A	Mx	0	2
94	M70	X	0	1
95	M70	Z	8.586	1
96	M70	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-4.298	1
2	MP1A	Z	7.445	1
3	MP1A	Mx	.006	1
4	MP1A	X	-4.298	5
5	MP1A	Z	7.445	5
6	MP1A	Mx	.006	5
7	MP1B	X	-3.677	1
8	MP1B	Z	6.37	1
9	MP1B	Mx	-0.02	1
10	MP1B	X	-3.677	5
11	MP1B	Z	6.37	5
12	MP1B	Mx	-0.02	5
13	MP1C	X	-4.277	1
14	MP1C	Z	7.408	1
15	MP1C	Mx	-0.06	1
16	MP1C	X	-4.277	5
17	MP1C	Z	7.408	5
18	MP1C	Mx	-0.06	5
19	MP1A	X	-4.298	1
20	MP1A	Z	7.445	1
21	MP1A	Mx	-0.06	1
22	MP1A	X	-4.298	5
23	MP1A	Z	7.445	5
24	MP1A	Mx	-0.06	5
25	MP1B	X	-3.677	1
26	MP1B	Z	6.37	1
27	MP1B	Mx	-0.05	1
28	MP1B	X	-3.677	5
29	MP1B	Z	6.37	5
30	MP1B	Mx	-0.05	5
31	MP1C	X	-4.277	1
32	MP1C	Z	7.408	1
33	MP1C	Mx	.005	1
34	MP1C	X	-4.277	5
35	MP1C	Z	7.408	5
36	MP1C	Mx	.005	5
37	MP2B	X	-1.15	1.5
38	MP2B	Z	1.991	1.5
39	MP2B	Mx	-0.01	1.5
40	MP2B	X	-1.15	3.5
41	MP2B	Z	1.991	3.5
42	MP2B	Mx	-0.01	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP2C	X	-2.439	1.5
44	MP2C	Z	4.225	1.5
45	MP2C	Mx	-.000423	1.5
46	MP2C	X	-2.439	3.5
47	MP2C	Z	4.225	3.5
48	MP2C	Mx	-.000423	3.5
49	MP3A	X	-2.485	1.5
50	MP3A	Z	4.304	1.5
51	MP3A	Mx	0	1.5
52	MP3A	X	-2.485	3.5
53	MP3A	Z	4.304	3.5
54	MP3A	Mx	0	3.5
55	MP2A	X	-1.977	.5
56	MP2A	Z	3.425	.5
57	MP2A	Mx	0	.5
58	MP2B	X	-1.398	.5
59	MP2B	Z	2.422	.5
60	MP2B	Mx	.001	.5
61	MP2C	X	-1.958	.5
62	MP2C	Z	3.391	.5
63	MP2C	Mx	.00034	.5
64	MP1A	X	-1.977	1.5
65	MP1A	Z	3.425	1.5
66	MP1A	Mx	0	1.5
67	MP1B	X	-1.177	1.5
68	MP1B	Z	2.038	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-1.95	1.5
71	MP1C	Z	3.378	1.5
72	MP1C	Mx	.000339	1.5
73	MP3B	X	-2.333	1
74	MP3B	Z	4.041	1
75	MP3B	Mx	-.002	1
76	MP3B	X	-2.333	5
77	MP3B	Z	4.041	5
78	MP3B	Mx	-.002	5
79	MP3C	X	-3.787	1
80	MP3C	Z	6.559	1
81	MP3C	Mx	-.000658	1
82	MP3C	X	-3.787	5
83	MP3C	Z	6.559	5
84	MP3C	Mx	-.000658	5
85	MP4A	X	-3.838	1
86	MP4A	Z	6.648	1
87	MP4A	Mx	0	1
88	MP4A	X	-3.838	5
89	MP4A	Z	6.648	5
90	MP4A	Mx	0	5
91	MP2A	X	-4.039	2
92	MP2A	Z	6.995	2
93	MP2A	Mx	-.002	2
94	M70	X	-4.039	1
95	M70	Z	6.995	1
96	M70	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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**Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-7.141	1
2	MP1A	Z	4.123	1
3	MP1A	Mx	.007	1
4	MP1A	X	-7.141	5
5	MP1A	Z	4.123	5
6	MP1A	Mx	.007	5
7	MP1B	X	-6.942	1
8	MP1B	Z	4.008	1
9	MP1B	Mx	.002	1
10	MP1B	X	-6.942	5
11	MP1B	Z	4.008	5
12	MP1B	Mx	.002	5
13	MP1C	X	-6.942	1
14	MP1C	Z	4.008	1
15	MP1C	Mx	-.007	1
16	MP1C	X	-6.942	5
17	MP1C	Z	4.008	5
18	MP1C	Mx	-.007	5
19	MP1A	X	-7.141	1
20	MP1A	Z	4.123	1
21	MP1A	Mx	-.003	1
22	MP1A	X	-7.141	5
23	MP1A	Z	4.123	5
24	MP1A	Mx	-.003	5
25	MP1B	X	-6.942	1
26	MP1B	Z	4.008	1
27	MP1B	Mx	-.007	1
28	MP1B	X	-6.942	5
29	MP1B	Z	4.008	5
30	MP1B	Mx	-.007	5
31	MP1C	X	-6.942	1
32	MP1C	Z	4.008	1
33	MP1C	Mx	.002	1
34	MP1C	X	-6.942	5
35	MP1C	Z	4.008	5
36	MP1C	Mx	.002	5
37	MP2B	X	-3.222	1.5
38	MP2B	Z	1.86	1.5
39	MP2B	Mx	-.001	1.5
40	MP2B	X	-3.222	3.5
41	MP2B	Z	1.86	3.5
42	MP2B	Mx	-.001	3.5
43	MP2C	X	-3.222	1.5
44	MP2C	Z	1.86	1.5
45	MP2C	Mx	-.001	1.5
46	MP2C	X	-3.222	3.5
47	MP2C	Z	1.86	3.5
48	MP2C	Mx	-.001	3.5
49	MP3A	X	-3.649	1.5
50	MP3A	Z	2.107	1.5
51	MP3A	Mx	.001	1.5
52	MP3A	X	-3.649	3.5
53	MP3A	Z	2.107	3.5
54	MP3A	Mx	.001	3.5
55	MP2A	X	-3.141	.5
56	MP2A	Z	1.813	.5
57	MP2A	Mx	.000907	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2B	X	-2.956	.5
59	MP2B	Z	1.706	.5
60	MP2B	Mx	.001	.5
61	MP2C	X	-2.956	.5
62	MP2C	Z	1.706	.5
63	MP2C	Mx	.001	.5
64	MP1A	X	-3.032	1.5
65	MP1A	Z	1.751	1.5
66	MP1A	Mx	-.000875	1.5
67	MP1B	X	-2.776	1.5
68	MP1B	Z	1.603	1.5
69	MP1B	Mx	.001	1.5
70	MP1C	X	-2.776	1.5
71	MP1C	Z	1.603	1.5
72	MP1C	Mx	.001	1.5
73	MP3B	X	-5.428	1
74	MP3B	Z	3.134	1
75	MP3B	Mx	-.002	1
76	MP3B	X	-5.428	5
77	MP3B	Z	3.134	5
78	MP3B	Mx	-.002	5
79	MP3C	X	-5.428	1
80	MP3C	Z	3.134	1
81	MP3C	Mx	-.002	1
82	MP3C	X	-5.428	5
83	MP3C	Z	3.134	5
84	MP3C	Mx	-.002	5
85	MP4A	X	-5.91	1
86	MP4A	Z	3.412	1
87	MP4A	Mx	.002	1
88	MP4A	X	-5.91	5
89	MP4A	Z	3.412	5
90	MP4A	Mx	.002	5
91	MP2A	X	-6.114	2
92	MP2A	Z	3.53	2
93	MP2A	Mx	-.003	2
94	M70	X	-6.114	1
95	M70	Z	3.53	1
96	M70	Mx	.003	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-7.542	1
2	MP1A	Z	0	1
3	MP1A	Mx	.006	1
4	MP1A	X	-7.542	5
5	MP1A	Z	0	5
6	MP1A	Mx	.006	5
7	MP1B	X	-8.554	1
8	MP1B	Z	0	1
9	MP1B	Mx	.005	1
10	MP1B	X	-8.554	5
11	MP1B	Z	0	5
12	MP1B	Mx	.005	5
13	MP1C	X	-7.355	1
14	MP1C	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP1C	Mx	-.005	1
16	MP1C	X	-7.355	5
17	MP1C	Z	0	5
18	MP1C	Mx	-.005	5
19	MP1A	X	-7.542	1
20	MP1A	Z	0	1
21	MP1A	Mx	.000752	1
22	MP1A	X	-7.542	5
23	MP1A	Z	0	5
24	MP1A	Mx	.000752	5
25	MP1B	X	-8.554	1
26	MP1B	Z	0	1
27	MP1B	Mx	-.006	1
28	MP1B	X	-8.554	5
29	MP1B	Z	0	5
30	MP1B	Mx	-.006	5
31	MP1C	X	-7.355	1
32	MP1C	Z	0	1
33	MP1C	Mx	-.002	1
34	MP1C	X	-7.355	5
35	MP1C	Z	0	5
36	MP1C	Mx	-.002	5
37	MP2B	X	-4.879	1.5
38	MP2B	Z	0	1.5
39	MP2B	Mx	-.000424	1.5
40	MP2B	X	-4.879	3.5
41	MP2B	Z	0	3.5
42	MP2B	Mx	-.000424	3.5
43	MP2C	X	-2.299	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	-.001	1.5
46	MP2C	X	-2.299	3.5
47	MP2C	Z	0	3.5
48	MP2C	Mx	-.001	3.5
49	MP3A	X	-2.702	1.5
50	MP3A	Z	0	1.5
51	MP3A	Mx	.001	1.5
52	MP3A	X	-2.702	3.5
53	MP3A	Z	0	3.5
54	MP3A	Mx	.001	3.5
55	MP2A	X	-2.971	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.001	.5
58	MP2B	X	-3.915	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	.00034	.5
61	MP2C	X	-2.797	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	.001	.5
64	MP1A	X	-2.595	1.5
65	MP1A	Z	0	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-3.9	1.5
68	MP1B	Z	0	1.5
69	MP1B	Mx	.000339	1.5
70	MP1C	X	-2.353	1.5
71	MP1C	Z	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP1C	Mx	.001	1.5
73	MP3B	X	-7.574	1
74	MP3B	Z	0	1
75	MP3B	Mx	-.000658	1
76	MP3B	X	-7.574	5
77	MP3B	Z	0	5
78	MP3B	Mx	-.000658	5
79	MP3C	X	-4.666	1
80	MP3C	Z	0	1
81	MP3C	Mx	-.002	1
82	MP3C	X	-4.666	5
83	MP3C	Z	0	5
84	MP3C	Mx	-.002	5
85	MP4A	X	-5.119	1
86	MP4A	Z	0	1
87	MP4A	Mx	.002	1
88	MP4A	X	-5.119	5
89	MP4A	Z	0	5
90	MP4A	Mx	.002	5
91	MP2A	X	-6.551	2
92	MP2A	Z	0	2
93	MP2A	Mx	-.003	2
94	M70	X	-6.551	1
95	M70	Z	0	1
96	M70	Mx	.003	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-6.227	1
2	MP1A	Z	-3.595	1
3	MP1A	Mx	.004	1
4	MP1A	X	-6.227	5
5	MP1A	Z	-3.595	5
6	MP1A	Mx	.004	5
7	MP1B	X	-7.303	1
8	MP1B	Z	-4.216	1
9	MP1B	Mx	.007	1
10	MP1B	X	-7.303	5
11	MP1B	Z	-4.216	5
12	MP1B	Mx	.007	5
13	MP1C	X	-6.264	1
14	MP1C	Z	-3.616	1
15	MP1C	Mx	-.003	1
16	MP1C	X	-6.264	5
17	MP1C	Z	-3.616	5
18	MP1C	Mx	-.003	5
19	MP1A	X	-6.227	1
20	MP1A	Z	-3.595	1
21	MP1A	Mx	.004	1
22	MP1A	X	-6.227	5
23	MP1A	Z	-3.595	5
24	MP1A	Mx	.004	5
25	MP1B	X	-7.303	1
26	MP1B	Z	-4.216	1
27	MP1B	Mx	-.004	1
28	MP1B	X	-7.303	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	-4.216	5
30	MP1B	Mx	-.004	5
31	MP1C	X	-6.264	1
32	MP1C	Z	-3.616	1
33	MP1C	Mx	-.004	1
34	MP1C	X	-6.264	5
35	MP1C	Z	-3.616	5
36	MP1C	Mx	-.004	5
37	MP2B	X	-3.998	1.5
38	MP2B	Z	-2.308	1.5
39	MP2B	Mx	.000789	1.5
40	MP2B	X	-3.998	3.5
41	MP2B	Z	-2.308	3.5
42	MP2B	Mx	.000789	3.5
43	MP2C	X	-1.764	1.5
44	MP2C	Z	-1.018	1.5
45	MP2C	Mx	-.001	1.5
46	MP2C	X	-1.764	3.5
47	MP2C	Z	-1.018	3.5
48	MP2C	Mx	-.001	3.5
49	MP3A	X	-1.685	1.5
50	MP3A	Z	-.973	1.5
51	MP3A	Mx	.000973	1.5
52	MP3A	X	-1.685	3.5
53	MP3A	Z	-.973	3.5
54	MP3A	Mx	.000973	3.5
55	MP2A	X	-2.289	.5
56	MP2A	Z	-1.322	.5
57	MP2A	Mx	.001	.5
58	MP2B	X	-3.292	.5
59	MP2B	Z	-1.901	.5
60	MP2B	Mx	-.00065	.5
61	MP2C	X	-2.324	.5
62	MP2C	Z	-1.342	.5
63	MP2C	Mx	.001	.5
64	MP1A	X	-1.854	1.5
65	MP1A	Z	-1.071	1.5
66	MP1A	Mx	-.001	1.5
67	MP1B	X	-3.241	1.5
68	MP1B	Z	-1.871	1.5
69	MP1B	Mx	-.00064	1.5
70	MP1C	X	-1.902	1.5
71	MP1C	Z	-1.098	1.5
72	MP1C	Mx	.001	1.5
73	MP3B	X	-6.303	1
74	MP3B	Z	-3.639	1
75	MP3B	Mx	.001	1
76	MP3B	X	-6.303	5
77	MP3B	Z	-3.639	5
78	MP3B	Mx	.001	5
79	MP3C	X	-3.784	1
80	MP3C	Z	-2.185	1
81	MP3C	Mx	-.002	1
82	MP3C	X	-3.784	5
83	MP3C	Z	-2.185	5
84	MP3C	Mx	-.002	5
85	MP4A	X	-3.695	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
86	MP4A	Z	-2.133	1
87	MP4A	Mx	.002	1
88	MP4A	X	-3.695	5
89	MP4A	Z	-2.133	5
90	MP4A	Mx	.002	5
91	MP2A	X	-6.114	2
92	MP2A	Z	-3.53	2
93	MP2A	Mx	-.003	2
94	M70	X	-6.114	1
95	M70	Z	-3.53	1
96	M70	Mx	.003	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-3.771	1
2	MP1A	Z	-6.532	1
3	MP1A	Mx	.000752	1
4	MP1A	X	-3.771	5
5	MP1A	Z	-6.532	5
6	MP1A	Mx	.000752	5
7	MP1B	X	-3.886	1
8	MP1B	Z	-6.73	1
9	MP1B	Mx	.006	1
10	MP1B	X	-3.886	5
11	MP1B	Z	-6.73	5
12	MP1B	Mx	.006	5
13	MP1C	X	-3.886	1
14	MP1C	Z	-6.73	1
15	MP1C	Mx	.000353	1
16	MP1C	X	-3.886	5
17	MP1C	Z	-6.73	5
18	MP1C	Mx	.000353	5
19	MP1A	X	-3.771	1
20	MP1A	Z	-6.532	1
21	MP1A	Mx	.006	1
22	MP1A	X	-3.771	5
23	MP1A	Z	-6.532	5
24	MP1A	Mx	.006	5
25	MP1B	X	-3.886	1
26	MP1B	Z	-6.73	1
27	MP1B	Mx	-.000354	1
28	MP1B	X	-3.886	5
29	MP1B	Z	-6.73	5
30	MP1B	Mx	-.000354	5
31	MP1C	X	-3.886	1
32	MP1C	Z	-6.73	1
33	MP1C	Mx	-.006	1
34	MP1C	X	-3.886	5
35	MP1C	Z	-6.73	5
36	MP1C	Mx	-.006	5
37	MP2B	X	-1.598	1.5
38	MP2B	Z	-2.767	1.5
39	MP2B	Mx	.001	1.5
40	MP2B	X	-1.598	3.5
41	MP2B	Z	-2.767	3.5
42	MP2B	Mx	.001	3.5







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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M2	Y	-500	0

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-500	0

**Member Point Loads (BLC 79 : Lv1)**

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

**Member Point Loads (BLC 80 : Lv2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	%50

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

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,F...]	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-6.566	-6.566	0	%100
2	MP1A	Y	-4.979	-4.979	0	%100
3	M4	Y	-6.566	-6.566	0	%100
4	M5	Y	-6.566	-6.566	0	%100
5	M11	Y	-15.753	-15.753	0	%100
6	M12	Y	-15.753	-15.753	0	%100
7	M13	Y	-15.753	-15.753	0	%100
8	M14	Y	-11.604	-11.604	0	%100
9	M15	Y	-7.614	-7.614	0	%100
10	M16	Y	-7.614	-7.614	0	%100
11	M17	Y	-15.753	-15.753	0	%100
12	M18	Y	-15.753	-15.753	0	%100
13	M19	Y	-12.936	-12.936	0	%100
14	M25	Y	-12.936	-12.936	0	%100
15	M31	Y	-12.936	-12.936	0	%100
16	M39	Y	-15.753	-15.753	0	%100
17	M40	Y	-15.753	-15.753	0	%100
18	M43	Y	-15.753	-15.753	0	%100
19	M44	Y	-15.753	-15.753	0	%100
20	M45	Y	-9.854	-9.854	0	%100
21	M48	Y	-11.604	-11.604	0	%100
22	M49	Y	-7.614	-7.614	0	%100
23	M50	Y	-7.614	-7.614	0	%100
24	M51	Y	-9.854	-9.854	0	%100
25	M54	Y	-11.604	-11.604	0	%100
26	M55	Y	-7.614	-7.614	0	%100
27	M56	Y	-7.614	-7.614	0	%100
28	M57	Y	-9.854	-9.854	0	%100
29	M70	Y	-4.979	-4.979	0	%100
30	MP2A	Y	-4.979	-4.979	0	%100
31	MP3A	Y	-4.979	-4.979	0	%100
32	MP4A	Y	-4.979	-4.979	0	%100
33	MP5A	Y	-4.979	-4.979	0	%100
34	MP1C	Y	-4.979	-4.979	0	%100
35	MP2C	Y	-4.979	-4.979	0	%100
36	MP3C	Y	-4.979	-4.979	0	%100
37	MP4C	Y	-4.979	-4.979	0	%100
38	MP1B	Y	-4.979	-4.979	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, %]
39	MP2B	Y	-4.979	-4.979	0	%100
40	MP3B	Y	-4.979	-4.979	0	%100
41	MP4B	Y	-4.979	-4.979	0	%100
42	M96	Y	-9.854	-9.854	0	%100
43	M93A	Y	-9.854	-9.854	0	%100
44	M94	Y	-9.854	-9.854	0	%100
45	M95	Y	-5.685	-5.685	0	%100
46	M97	Y	-5.685	-5.685	0	%100
47	M98	Y	-5.685	-5.685	0	%100
48	M111	Y	-11.151	-11.151	0	%100
49	M112	Y	-11.151	-11.151	0	%100
50	M113	Y	-11.151	-11.151	0	%100
51	M120	Y	-7.614	-7.614	0	%100
52	M121	Y	-7.614	-7.614	0	%100
53	M122	Y	-7.614	-7.614	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-11.647	-11.647	0	%100
3	MP1A	X	0	0	0	%100
4	MP1A	Z	-7.903	-7.903	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	-2.912	-2.912	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	-2.912	-2.912	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	-33.276	-33.276	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	-33.276	-33.276	0	%100
13	M13	X	0	0	0	%100
14	M13	Z	-7.436	-7.436	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	-11.43	-11.43	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	-10.976	-10.976	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-10.991	-10.991	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	-9.235	-9.235	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-33.243	-33.243	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	-.441	-.441	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-.391	-.391	0	%100
29	M31	X	0	0	0	%100
30	M31	Z	-1.663	-1.663	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	-8.319	-8.319	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	-8.319	-8.319	0	%100
35	M43	X	0	0	0	%100
36	M43	Z	-8.319	-8.319	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	-8.319	-8.319	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, %]
39	M45	X	0	0	%100
40	M45	Z	-3.495	-3.495	%100
41	M48	X	0	0	%100
42	M48	Z	-11.393	-11.393	%100
43	M49	X	0	0	%100
44	M49	Z	-11.011	-11.011	%100
45	M50	X	0	0	%100
46	M50	Z	-11.026	-11.026	%100
47	M51	X	0	0	%100
48	M51	Z	-3.495	-3.495	%100
49	M54	X	0	0	%100
50	M54	Z	-3e-5	-3e-5	%100
51	M55	X	0	0	%100
52	M55	Z	-2.7e-5	-2.7e-5	%100
53	M56	X	0	0	%100
54	M56	Z	-2.8e-5	-2.8e-5	%100
55	M57	X	0	0	%100
56	M57	Z	-13.979	-13.979	%100
57	M70	X	0	0	%100
58	M70	Z	-6.463	-6.463	%100
59	MP2A	X	0	0	%100
60	MP2A	Z	-7.14	-7.14	%100
61	MP3A	X	0	0	%100
62	MP3A	Z	-7.903	-7.903	%100
63	MP4A	X	0	0	%100
64	MP4A	Z	-7.903	-7.903	%100
65	MP5A	X	0	0	%100
66	MP5A	Z	-7.903	-7.903	%100
67	MP1C	X	0	0	%100
68	MP1C	Z	-7.903	-7.903	%100
69	MP2C	X	0	0	%100
70	MP2C	Z	-7.903	-7.903	%100
71	MP3C	X	0	0	%100
72	MP3C	Z	-7.903	-7.903	%100
73	MP4C	X	0	0	%100
74	MP4C	Z	-7.903	-7.903	%100
75	MP1B	X	0	0	%100
76	MP1B	Z	-7.903	-7.903	%100
77	MP2B	X	0	0	%100
78	MP2B	Z	-7.903	-7.903	%100
79	MP3B	X	0	0	%100
80	MP3B	Z	-7.903	-7.903	%100
81	MP4B	X	0	0	%100
82	MP4B	Z	-7.903	-7.903	%100
83	M96	X	0	0	%100
84	M96	Z	-27.73	-27.73	%100
85	M93A	X	0	0	%100
86	M93A	Z	-6.932	-6.932	%100
87	M94	X	0	0	%100
88	M94	Z	-6.932	-6.932	%100
89	M95	X	0	0	%100
90	M95	Z	-9.567	-9.567	%100
91	M97	X	0	0	%100
92	M97	Z	-2.392	-2.392	%100
93	M98	X	0	0	%100
94	M98	Z	-2.392	-2.392	%100
95	M111	X	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, %]
96	M111	Z	-12.805	-12.805	0	%100
97	M112	X	0	0	0	%100
98	M112	Z	-13.422	-13.422	0	%100
99	M113	X	0	0	0	%100
100	M113	Z	-13.422	-13.422	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	-12.282	-12.282	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	-3.071	-3.071	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	-3.071	-3.071	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	4.367	4.367	0	%100
2	M1	Z	-7.565	-7.565	0	%100
3	MP1A	X	3.952	3.952	0	%100
4	MP1A	Z	-6.844	-6.844	0	%100
5	M4	X	4.367	4.367	0	%100
6	M4	Z	-7.565	-7.565	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	12.478	12.478	0	%100
10	M11	Z	-21.613	-21.613	0	%100
11	M12	X	12.478	12.478	0	%100
12	M12	Z	-21.613	-21.613	0	%100
13	M13	X	12.021	12.021	0	%100
14	M13	Z	-20.82	-20.82	0	%100
15	M14	X	1.911	1.911	0	%100
16	M14	Z	-3.31	-3.31	0	%100
17	M15	X	1.824	1.824	0	%100
18	M15	Z	-3.159	-3.159	0	%100
19	M16	X	1.826	1.826	0	%100
20	M16	Z	-3.163	-3.163	0	%100
21	M17	X	.016	.016	0	%100
22	M17	Z	-.028	-.028	0	%100
23	M18	X	12.92	12.92	0	%100
24	M18	Z	-22.378	-22.378	0	%100
25	M19	X	.636	.636	0	%100
26	M19	Z	-1.102	-1.102	0	%100
27	M25	X	.000247	.000247	0	%100
28	M25	Z	-.000428	-.000428	0	%100
29	M31	X	.611	.611	0	%100
30	M31	Z	-1.059	-1.059	0	%100
31	M39	X	12.478	12.478	0	%100
32	M39	Z	-21.613	-21.613	0	%100
33	M40	X	12.478	12.478	0	%100
34	M40	Z	-21.613	-21.613	0	%100
35	M43	X	0	0	0	%100
36	M43	Z	0	0	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	5.242	5.242	0	%100
40	M45	Z	-9.08	-9.08	0	%100
41	M48	X	7.607	7.607	0	%100
42	M48	Z	-13.176	-13.176	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, %]
43	M49	X	7.329	7.329	0 %100
44	M49	Z	-12.694	-12.694	0 %100
45	M50	X	7.339	7.339	0 %100
46	M50	Z	-12.712	-12.712	0 %100
47	M51	X	0	0	0 %100
48	M51	Z	0	0	0 %100
49	M54	X	1.893	1.893	0 %100
50	M54	Z	-3.278	-3.278	0 %100
51	M55	X	1.841	1.841	0 %100
52	M55	Z	-3.188	-3.188	0 %100
53	M56	X	1.844	1.844	0 %100
54	M56	Z	-3.193	-3.193	0 %100
55	M57	X	5.242	5.242	0 %100
56	M57	Z	-9.08	-9.08	0 %100
57	M70	X	3.231	3.231	0 %100
58	M70	Z	-5.597	-5.597	0 %100
59	MP2A	X	3.57	3.57	0 %100
60	MP2A	Z	-6.184	-6.184	0 %100
61	MP3A	X	3.952	3.952	0 %100
62	MP3A	Z	-6.844	-6.844	0 %100
63	MP4A	X	3.952	3.952	0 %100
64	MP4A	Z	-6.844	-6.844	0 %100
65	MP5A	X	3.952	3.952	0 %100
66	MP5A	Z	-6.844	-6.844	0 %100
67	MP1C	X	3.952	3.952	0 %100
68	MP1C	Z	-6.844	-6.844	0 %100
69	MP2C	X	3.952	3.952	0 %100
70	MP2C	Z	-6.844	-6.844	0 %100
71	MP3C	X	3.952	3.952	0 %100
72	MP3C	Z	-6.844	-6.844	0 %100
73	MP4C	X	3.952	3.952	0 %100
74	MP4C	Z	-6.844	-6.844	0 %100
75	MP1B	X	3.952	3.952	0 %100
76	MP1B	Z	-6.844	-6.844	0 %100
77	MP2B	X	3.952	3.952	0 %100
78	MP2B	Z	-6.844	-6.844	0 %100
79	MP3B	X	3.952	3.952	0 %100
80	MP3B	Z	-6.844	-6.844	0 %100
81	MP4B	X	3.952	3.952	0 %100
82	MP4B	Z	-6.844	-6.844	0 %100
83	M96	X	10.399	10.399	0 %100
84	M96	Z	-18.011	-18.011	0 %100
85	M93A	X	10.399	10.399	0 %100
86	M93A	Z	-18.011	-18.011	0 %100
87	M94	X	0	0	0 %100
88	M94	Z	0	0	0 %100
89	M95	X	3.588	3.588	0 %100
90	M95	Z	-6.214	-6.214	0 %100
91	M97	X	3.588	3.588	0 %100
92	M97	Z	-6.214	-6.214	0 %100
93	M98	X	0	0	0 %100
94	M98	Z	0	0	0 %100
95	M111	X	6.505	6.505	0 %100
96	M111	Z	-11.268	-11.268	0 %100
97	M112	X	6.505	6.505	0 %100
98	M112	Z	-11.268	-11.268	0 %100
99	M113	X	6.814	6.814	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, %]
100	M113	Z	-11.801	-11.801	0	%100
101	M120	X	4.606	4.606	0	%100
102	M120	Z	-7.978	-7.978	0	%100
103	M121	X	4.606	4.606	0	%100
104	M121	Z	-7.978	-7.978	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.522	2.522	0	%100
2	M1	Z	-1.456	-1.456	0	%100
3	MP1A	X	6.844	6.844	0	%100
4	MP1A	Z	-3.952	-3.952	0	%100
5	M4	X	10.086	10.086	0	%100
6	M4	Z	-5.823	-5.823	0	%100
7	M5	X	2.522	2.522	0	%100
8	M5	Z	-1.456	-1.456	0	%100
9	M11	X	7.204	7.204	0	%100
10	M11	Z	-4.159	-4.159	0	%100
11	M12	X	7.204	7.204	0	%100
12	M12	Z	-4.159	-4.159	0	%100
13	M13	X	28.79	28.79	0	%100
14	M13	Z	-16.622	-16.622	0	%100
15	M14	X	2.6e-5	2.6e-5	0	%100
16	M14	Z	-1.5e-5	-1.5e-5	0	%100
17	M15	X	2.3e-5	2.3e-5	0	%100
18	M15	Z	-1.4e-5	-1.4e-5	0	%100
19	M16	X	2.5e-5	2.5e-5	0	%100
20	M16	Z	-1.4e-5	-1.4e-5	0	%100
21	M17	X	6.44	6.44	0	%100
22	M17	Z	-3.718	-3.718	0	%100
23	M18	X	7.997	7.997	0	%100
24	M18	Z	-4.617	-4.617	0	%100
25	M19	X	1.44	1.44	0	%100
26	M19	Z	-.832	-.832	0	%100
27	M25	X	.382	.382	0	%100
28	M25	Z	-.221	-.221	0	%100
29	M31	X	.339	.339	0	%100
30	M31	Z	-.196	-.196	0	%100
31	M39	X	28.818	28.818	0	%100
32	M39	Z	-16.638	-16.638	0	%100
33	M40	X	28.818	28.818	0	%100
34	M40	Z	-16.638	-16.638	0	%100
35	M43	X	7.204	7.204	0	%100
36	M43	Z	-4.159	-4.159	0	%100
37	M44	X	7.204	7.204	0	%100
38	M44	Z	-4.159	-4.159	0	%100
39	M45	X	12.106	12.106	0	%100
40	M45	Z	-6.99	-6.99	0	%100
41	M48	X	9.898	9.898	0	%100
42	M48	Z	-5.715	-5.715	0	%100
43	M49	X	9.506	9.506	0	%100
44	M49	Z	-5.488	-5.488	0	%100
45	M50	X	9.519	9.519	0	%100
46	M50	Z	-5.496	-5.496	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, %]
47	M51	X	3.027	3.027	0	%100
48	M51	Z	-1.747	-1.747	0	%100
49	M54	X	9.866	9.866	0	%100
50	M54	Z	-5.696	-5.696	0	%100
51	M55	X	9.535	9.535	0	%100
52	M55	Z	-5.505	-5.505	0	%100
53	M56	X	9.549	9.549	0	%100
54	M56	Z	-5.513	-5.513	0	%100
55	M57	X	3.027	3.027	0	%100
56	M57	Z	-1.747	-1.747	0	%100
57	M70	X	5.597	5.597	0	%100
58	M70	Z	-3.231	-3.231	0	%100
59	MP2A	X	6.184	6.184	0	%100
60	MP2A	Z	-3.57	-3.57	0	%100
61	MP3A	X	6.844	6.844	0	%100
62	MP3A	Z	-3.952	-3.952	0	%100
63	MP4A	X	6.844	6.844	0	%100
64	MP4A	Z	-3.952	-3.952	0	%100
65	MP5A	X	6.844	6.844	0	%100
66	MP5A	Z	-3.952	-3.952	0	%100
67	MP1C	X	6.844	6.844	0	%100
68	MP1C	Z	-3.952	-3.952	0	%100
69	MP2C	X	6.844	6.844	0	%100
70	MP2C	Z	-3.952	-3.952	0	%100
71	MP3C	X	6.844	6.844	0	%100
72	MP3C	Z	-3.952	-3.952	0	%100
73	MP4C	X	6.844	6.844	0	%100
74	MP4C	Z	-3.952	-3.952	0	%100
75	MP1B	X	6.844	6.844	0	%100
76	MP1B	Z	-3.952	-3.952	0	%100
77	MP2B	X	6.844	6.844	0	%100
78	MP2B	Z	-3.952	-3.952	0	%100
79	MP3B	X	6.844	6.844	0	%100
80	MP3B	Z	-3.952	-3.952	0	%100
81	MP4B	X	6.844	6.844	0	%100
82	MP4B	Z	-3.952	-3.952	0	%100
83	M96	X	6.004	6.004	0	%100
84	M96	Z	-3.466	-3.466	0	%100
85	M93A	X	24.015	24.015	0	%100
86	M93A	Z	-13.865	-13.865	0	%100
87	M94	X	6.004	6.004	0	%100
88	M94	Z	-3.466	-3.466	0	%100
89	M95	X	2.071	2.071	0	%100
90	M95	Z	-1.196	-1.196	0	%100
91	M97	X	8.285	8.285	0	%100
92	M97	Z	-4.783	-4.783	0	%100
93	M98	X	2.071	2.071	0	%100
94	M98	Z	-1.196	-1.196	0	%100
95	M111	X	11.623	11.623	0	%100
96	M111	Z	-6.711	-6.711	0	%100
97	M112	X	11.09	11.09	0	%100
98	M112	Z	-6.403	-6.403	0	%100
99	M113	X	11.623	11.623	0	%100
100	M113	Z	-6.711	-6.711	0	%100
101	M120	X	2.659	2.659	0	%100
102	M120	Z	-1.535	-1.535	0	%100
103	M121	X	10.637	10.637	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, %]
104	M121	Z	-6.141	-6.141	0	%100
105	M122	X	2.659	2.659	0	%100
106	M122	Z	-1.535	-1.535	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP1A	X	7.903	7.903	0	%100
4	MP1A	Z	0	0	0	%100
5	M4	X	8.735	8.735	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	8.735	8.735	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	0	0	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	0	0	0	%100
13	M13	X	25.84	25.84	0	%100
14	M13	Z	0	0	0	%100
15	M14	X	3.785	3.785	0	%100
16	M14	Z	0	0	0	%100
17	M15	X	3.682	3.682	0	%100
18	M15	Z	0	0	0	%100
19	M16	X	3.687	3.687	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	24.041	24.041	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	.032	.032	0	%100
24	M18	Z	0	0	0	%100
25	M19	X	1.223	1.223	0	%100
26	M19	Z	0	0	0	%100
27	M25	X	1.272	1.272	0	%100
28	M25	Z	0	0	0	%100
29	M31	X	.000495	.000495	0	%100
30	M31	Z	0	0	0	%100
31	M39	X	24.957	24.957	0	%100
32	M39	Z	0	0	0	%100
33	M40	X	24.957	24.957	0	%100
34	M40	Z	0	0	0	%100
35	M43	X	24.957	24.957	0	%100
36	M43	Z	0	0	0	%100
37	M44	X	24.957	24.957	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	10.484	10.484	0	%100
40	M45	Z	0	0	0	%100
41	M48	X	3.822	3.822	0	%100
42	M48	Z	0	0	0	%100
43	M49	X	3.647	3.647	0	%100
44	M49	Z	0	0	0	%100
45	M50	X	3.652	3.652	0	%100
46	M50	Z	0	0	0	%100
47	M51	X	10.484	10.484	0	%100
48	M51	Z	0	0	0	%100
49	M54	X	15.215	15.215	0	%100
50	M54	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
51	M55	X	14.658	14.658	0 %100
52	M55	Z	0	0	0 %100
53	M56	X	14.678	14.678	0 %100
54	M56	Z	0	0	0 %100
55	M57	X	0	0	0 %100
56	M57	Z	0	0	0 %100
57	M70	X	6.463	6.463	0 %100
58	M70	Z	0	0	0 %100
59	MP2A	X	7.14	7.14	0 %100
60	MP2A	Z	0	0	0 %100
61	MP3A	X	7.903	7.903	0 %100
62	MP3A	Z	0	0	0 %100
63	MP4A	X	7.903	7.903	0 %100
64	MP4A	Z	0	0	0 %100
65	MP5A	X	7.903	7.903	0 %100
66	MP5A	Z	0	0	0 %100
67	MP1C	X	7.903	7.903	0 %100
68	MP1C	Z	0	0	0 %100
69	MP2C	X	7.903	7.903	0 %100
70	MP2C	Z	0	0	0 %100
71	MP3C	X	7.903	7.903	0 %100
72	MP3C	Z	0	0	0 %100
73	MP4C	X	7.903	7.903	0 %100
74	MP4C	Z	0	0	0 %100
75	MP1B	X	7.903	7.903	0 %100
76	MP1B	Z	0	0	0 %100
77	MP2B	X	7.903	7.903	0 %100
78	MP2B	Z	0	0	0 %100
79	MP3B	X	7.903	7.903	0 %100
80	MP3B	Z	0	0	0 %100
81	MP4B	X	7.903	7.903	0 %100
82	MP4B	Z	0	0	0 %100
83	M96	X	0	0	0 %100
84	M96	Z	0	0	0 %100
85	M93A	X	20.797	20.797	0 %100
86	M93A	Z	0	0	0 %100
87	M94	X	20.797	20.797	0 %100
88	M94	Z	0	0	0 %100
89	M95	X	0	0	0 %100
90	M95	Z	0	0	0 %100
91	M97	X	7.175	7.175	0 %100
92	M97	Z	0	0	0 %100
93	M98	X	7.175	7.175	0 %100
94	M98	Z	0	0	0 %100
95	M111	X	13.627	13.627	0 %100
96	M111	Z	0	0	0 %100
97	M112	X	13.011	13.011	0 %100
98	M112	Z	0	0	0 %100
99	M113	X	13.011	13.011	0 %100
100	M113	Z	0	0	0 %100
101	M120	X	0	0	0 %100
102	M120	Z	0	0	0 %100
103	M121	X	9.212	9.212	0 %100
104	M121	Z	0	0	0 %100
105	M122	X	9.212	9.212	0 %100
106	M122	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.522	2.522	0	%100
2	M1	Z	1.456	1.456	0	%100
3	MP1A	X	6.844	6.844	0	%100
4	MP1A	Z	3.952	3.952	0	%100
5	M4	X	2.522	2.522	0	%100
6	M4	Z	1.456	1.456	0	%100
7	M5	X	10.086	10.086	0	%100
8	M5	Z	5.823	5.823	0	%100
9	M11	X	7.204	7.204	0	%100
10	M11	Z	4.159	4.159	0	%100
11	M12	X	7.204	7.204	0	%100
12	M12	Z	4.159	4.159	0	%100
13	M13	X	7.997	7.997	0	%100
14	M13	Z	4.617	4.617	0	%100
15	M14	X	9.866	9.866	0	%100
16	M14	Z	5.696	5.696	0	%100
17	M15	X	9.535	9.535	0	%100
18	M15	Z	5.505	5.505	0	%100
19	M16	X	9.549	9.549	0	%100
20	M16	Z	5.513	5.513	0	%100
21	M17	X	28.79	28.79	0	%100
22	M17	Z	16.622	16.622	0	%100
23	M18	X	6.44	6.44	0	%100
24	M18	Z	3.718	3.718	0	%100
25	M19	X	.339	.339	0	%100
26	M19	Z	.196	.196	0	%100
27	M25	X	1.44	1.44	0	%100
28	M25	Z	.832	.832	0	%100
29	M31	X	.382	.382	0	%100
30	M31	Z	.221	.221	0	%100
31	M39	X	7.204	7.204	0	%100
32	M39	Z	4.159	4.159	0	%100
33	M40	X	7.204	7.204	0	%100
34	M40	Z	4.159	4.159	0	%100
35	M43	X	28.818	28.818	0	%100
36	M43	Z	16.638	16.638	0	%100
37	M44	X	28.818	28.818	0	%100
38	M44	Z	16.638	16.638	0	%100
39	M45	X	3.027	3.027	0	%100
40	M45	Z	1.747	1.747	0	%100
41	M48	X	2.6e-5	2.6e-5	0	%100
42	M48	Z	1.5e-5	1.5e-5	0	%100
43	M49	X	2.3e-5	2.3e-5	0	%100
44	M49	Z	1.4e-5	1.4e-5	0	%100
45	M50	X	2.5e-5	2.5e-5	0	%100
46	M50	Z	1.4e-5	1.4e-5	0	%100
47	M51	X	12.106	12.106	0	%100
48	M51	Z	6.99	6.99	0	%100
49	M54	X	9.898	9.898	0	%100
50	M54	Z	5.715	5.715	0	%100
51	M55	X	9.506	9.506	0	%100
52	M55	Z	5.488	5.488	0	%100
53	M56	X	9.519	9.519	0	%100
54	M56	Z	5.496	5.496	0	%100
55	M57	X	3.027	3.027	0	%100
56	M57	Z	1.747	1.747	0	%100
57	M70	X	5.597	5.597	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

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**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.%]
58	M70	Z	3.231	3.231	0	%100
59	MP2A	X	6.184	6.184	0	%100
60	MP2A	Z	3.57	3.57	0	%100
61	MP3A	X	6.844	6.844	0	%100
62	MP3A	Z	3.952	3.952	0	%100
63	MP4A	X	6.844	6.844	0	%100
64	MP4A	Z	3.952	3.952	0	%100
65	MP5A	X	6.844	6.844	0	%100
66	MP5A	Z	3.952	3.952	0	%100
67	MP1C	X	6.844	6.844	0	%100
68	MP1C	Z	3.952	3.952	0	%100
69	MP2C	X	6.844	6.844	0	%100
70	MP2C	Z	3.952	3.952	0	%100
71	MP3C	X	6.844	6.844	0	%100
72	MP3C	Z	3.952	3.952	0	%100
73	MP4C	X	6.844	6.844	0	%100
74	MP4C	Z	3.952	3.952	0	%100
75	MP1B	X	6.844	6.844	0	%100
76	MP1B	Z	3.952	3.952	0	%100
77	MP2B	X	6.844	6.844	0	%100
78	MP2B	Z	3.952	3.952	0	%100
79	MP3B	X	6.844	6.844	0	%100
80	MP3B	Z	3.952	3.952	0	%100
81	MP4B	X	6.844	6.844	0	%100
82	MP4B	Z	3.952	3.952	0	%100
83	M96	X	6.004	6.004	0	%100
84	M96	Z	3.466	3.466	0	%100
85	M93A	X	6.004	6.004	0	%100
86	M93A	Z	3.466	3.466	0	%100
87	M94	X	24.015	24.015	0	%100
88	M94	Z	13.865	13.865	0	%100
89	M95	X	2.071	2.071	0	%100
90	M95	Z	1.196	1.196	0	%100
91	M97	X	2.071	2.071	0	%100
92	M97	Z	1.196	1.196	0	%100
93	M98	X	8.285	8.285	0	%100
94	M98	Z	4.783	4.783	0	%100
95	M111	X	11.623	11.623	0	%100
96	M111	Z	6.711	6.711	0	%100
97	M112	X	11.623	11.623	0	%100
98	M112	Z	6.711	6.711	0	%100
99	M113	X	11.09	11.09	0	%100
100	M113	Z	6.403	6.403	0	%100
101	M120	X	2.659	2.659	0	%100
102	M120	Z	1.535	1.535	0	%100
103	M121	X	2.659	2.659	0	%100
104	M121	Z	1.535	1.535	0	%100
105	M122	X	10.637	10.637	0	%100
106	M122	Z	6.141	6.141	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	4.367	4.367	0	%100
2	M1	Z	7.565	7.565	0	%100
3	MP1A	X	3.952	3.952	0	%100
4	MP1A	Z	6.844	6.844	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, %]	
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	4.367	4.367	0	%100
8	M5	Z	7.565	7.565	0	%100
9	M11	X	12.478	12.478	0	%100
10	M11	Z	21.613	21.613	0	%100
11	M12	X	12.478	12.478	0	%100
12	M12	Z	21.613	21.613	0	%100
13	M13	X	.016	.016	0	%100
14	M13	Z	.028	.028	0	%100
15	M14	X	7.607	7.607	0	%100
16	M14	Z	13.176	13.176	0	%100
17	M15	X	7.329	7.329	0	%100
18	M15	Z	12.694	12.694	0	%100
19	M16	X	7.339	7.339	0	%100
20	M16	Z	12.712	12.712	0	%100
21	M17	X	12.92	12.92	0	%100
22	M17	Z	22.378	22.378	0	%100
23	M18	X	12.021	12.021	0	%100
24	M18	Z	20.82	20.82	0	%100
25	M19	X	.000247	.000247	0	%100
26	M19	Z	.000428	.000428	0	%100
27	M25	X	.611	.611	0	%100
28	M25	Z	1.059	1.059	0	%100
29	M31	X	.636	.636	0	%100
30	M31	Z	1.102	1.102	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	0	0	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	0	0	0	%100
35	M43	X	12.478	12.478	0	%100
36	M43	Z	21.613	21.613	0	%100
37	M44	X	12.478	12.478	0	%100
38	M44	Z	21.613	21.613	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	0	0	0	%100
41	M48	X	1.893	1.893	0	%100
42	M48	Z	3.278	3.278	0	%100
43	M49	X	1.841	1.841	0	%100
44	M49	Z	3.188	3.188	0	%100
45	M50	X	1.844	1.844	0	%100
46	M50	Z	3.193	3.193	0	%100
47	M51	X	5.242	5.242	0	%100
48	M51	Z	9.08	9.08	0	%100
49	M54	X	1.911	1.911	0	%100
50	M54	Z	3.31	3.31	0	%100
51	M55	X	1.824	1.824	0	%100
52	M55	Z	3.159	3.159	0	%100
53	M56	X	1.826	1.826	0	%100
54	M56	Z	3.163	3.163	0	%100
55	M57	X	5.242	5.242	0	%100
56	M57	Z	9.08	9.08	0	%100
57	M70	X	3.231	3.231	0	%100
58	M70	Z	5.597	5.597	0	%100
59	MP2A	X	3.57	3.57	0	%100
60	MP2A	Z	6.184	6.184	0	%100
61	MP3A	X	3.952	3.952	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, %]
62	MP3A	Z	6.844	6.844	0	%100
63	MP4A	X	3.952	3.952	0	%100
64	MP4A	Z	6.844	6.844	0	%100
65	MP5A	X	3.952	3.952	0	%100
66	MP5A	Z	6.844	6.844	0	%100
67	MP1C	X	3.952	3.952	0	%100
68	MP1C	Z	6.844	6.844	0	%100
69	MP2C	X	3.952	3.952	0	%100
70	MP2C	Z	6.844	6.844	0	%100
71	MP3C	X	3.952	3.952	0	%100
72	MP3C	Z	6.844	6.844	0	%100
73	MP4C	X	3.952	3.952	0	%100
74	MP4C	Z	6.844	6.844	0	%100
75	MP1B	X	3.952	3.952	0	%100
76	MP1B	Z	6.844	6.844	0	%100
77	MP2B	X	3.952	3.952	0	%100
78	MP2B	Z	6.844	6.844	0	%100
79	MP3B	X	3.952	3.952	0	%100
80	MP3B	Z	6.844	6.844	0	%100
81	MP4B	X	3.952	3.952	0	%100
82	MP4B	Z	6.844	6.844	0	%100
83	M96	X	10.399	10.399	0	%100
84	M96	Z	18.011	18.011	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M94	X	10.399	10.399	0	%100
88	M94	Z	18.011	18.011	0	%100
89	M95	X	3.588	3.588	0	%100
90	M95	Z	6.214	6.214	0	%100
91	M97	X	0	0	0	%100
92	M97	Z	0	0	0	%100
93	M98	X	3.588	3.588	0	%100
94	M98	Z	6.214	6.214	0	%100
95	M111	X	6.505	6.505	0	%100
96	M111	Z	11.268	11.268	0	%100
97	M112	X	6.814	6.814	0	%100
98	M112	Z	11.801	11.801	0	%100
99	M113	X	6.505	6.505	0	%100
100	M113	Z	11.268	11.268	0	%100
101	M120	X	4.606	4.606	0	%100
102	M120	Z	7.978	7.978	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	4.606	4.606	0	%100
106	M122	Z	7.978	7.978	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	11.647	11.647	0	%100
3	MP1A	X	0	0	0	%100
4	MP1A	Z	7.903	7.903	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	2.912	2.912	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	2.912	2.912	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, %]
9	M11	X	0	0	0	%100
10	M11	Z	33.276	33.276	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	33.276	33.276	0	%100
13	M13	X	0	0	0	%100
14	M13	Z	7.436	7.436	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	11.43	11.43	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	10.976	10.976	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	10.991	10.991	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	9.235	9.235	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	33.243	33.243	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	.441	.441	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	.391	.391	0	%100
29	M31	X	0	0	0	%100
30	M31	Z	1.663	1.663	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	8.319	8.319	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	8.319	8.319	0	%100
35	M43	X	0	0	0	%100
36	M43	Z	8.319	8.319	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	8.319	8.319	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	3.495	3.495	0	%100
41	M48	X	0	0	0	%100
42	M48	Z	11.393	11.393	0	%100
43	M49	X	0	0	0	%100
44	M49	Z	11.011	11.011	0	%100
45	M50	X	0	0	0	%100
46	M50	Z	11.026	11.026	0	%100
47	M51	X	0	0	0	%100
48	M51	Z	3.495	3.495	0	%100
49	M54	X	0	0	0	%100
50	M54	Z	3e-5	3e-5	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	2.7e-5	2.7e-5	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	2.8e-5	2.8e-5	0	%100
55	M57	X	0	0	0	%100
56	M57	Z	13.979	13.979	0	%100
57	M70	X	0	0	0	%100
58	M70	Z	6.463	6.463	0	%100
59	MP2A	X	0	0	0	%100
60	MP2A	Z	7.14	7.14	0	%100
61	MP3A	X	0	0	0	%100
62	MP3A	Z	7.903	7.903	0	%100
63	MP4A	X	0	0	0	%100
64	MP4A	Z	7.903	7.903	0	%100
65	MP5A	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, %]
66	MP5A	Z	7.903	7.903	0	%100
67	MP1C	X	0	0	0	%100
68	MP1C	Z	7.903	7.903	0	%100
69	MP2C	X	0	0	0	%100
70	MP2C	Z	7.903	7.903	0	%100
71	MP3C	X	0	0	0	%100
72	MP3C	Z	7.903	7.903	0	%100
73	MP4C	X	0	0	0	%100
74	MP4C	Z	7.903	7.903	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	7.903	7.903	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	7.903	7.903	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	7.903	7.903	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	7.903	7.903	0	%100
83	M96	X	0	0	0	%100
84	M96	Z	27.73	27.73	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	6.932	6.932	0	%100
87	M94	X	0	0	0	%100
88	M94	Z	6.932	6.932	0	%100
89	M95	X	0	0	0	%100
90	M95	Z	9.567	9.567	0	%100
91	M97	X	0	0	0	%100
92	M97	Z	2.392	2.392	0	%100
93	M98	X	0	0	0	%100
94	M98	Z	2.392	2.392	0	%100
95	M111	X	0	0	0	%100
96	M111	Z	12.805	12.805	0	%100
97	M112	X	0	0	0	%100
98	M112	Z	13.422	13.422	0	%100
99	M113	X	0	0	0	%100
100	M113	Z	13.422	13.422	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	12.282	12.282	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	3.071	3.071	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	3.071	3.071	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-4.367	-4.367	0	%100
2	M1	Z	7.565	7.565	0	%100
3	MP1A	X	-3.952	-3.952	0	%100
4	MP1A	Z	6.844	6.844	0	%100
5	M4	X	-4.367	-4.367	0	%100
6	M4	Z	7.565	7.565	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	-12.478	-12.478	0	%100
10	M11	Z	21.613	21.613	0	%100
11	M12	X	-12.478	-12.478	0	%100
12	M12	Z	21.613	21.613	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

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**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, %]
13	M13	X	-12.021	-12.021	0 %100
14	M13	Z	20.82	20.82	0 %100
15	M14	X	-1.911	-1.911	0 %100
16	M14	Z	3.31	3.31	0 %100
17	M15	X	-1.824	-1.824	0 %100
18	M15	Z	3.159	3.159	0 %100
19	M16	X	-1.826	-1.826	0 %100
20	M16	Z	3.163	3.163	0 %100
21	M17	X	-.016	-.016	0 %100
22	M17	Z	.028	.028	0 %100
23	M18	X	-12.92	-12.92	0 %100
24	M18	Z	22.378	22.378	0 %100
25	M19	X	-.636	-.636	0 %100
26	M19	Z	1.102	1.102	0 %100
27	M25	X	-.000247	-.000247	0 %100
28	M25	Z	.000428	.000428	0 %100
29	M31	X	-.611	-.611	0 %100
30	M31	Z	1.059	1.059	0 %100
31	M39	X	-12.478	-12.478	0 %100
32	M39	Z	21.613	21.613	0 %100
33	M40	X	-12.478	-12.478	0 %100
34	M40	Z	21.613	21.613	0 %100
35	M43	X	0	0	0 %100
36	M43	Z	0	0	0 %100
37	M44	X	0	0	0 %100
38	M44	Z	0	0	0 %100
39	M45	X	-5.242	-5.242	0 %100
40	M45	Z	9.08	9.08	0 %100
41	M48	X	-7.607	-7.607	0 %100
42	M48	Z	13.176	13.176	0 %100
43	M49	X	-7.329	-7.329	0 %100
44	M49	Z	12.694	12.694	0 %100
45	M50	X	-7.339	-7.339	0 %100
46	M50	Z	12.712	12.712	0 %100
47	M51	X	0	0	0 %100
48	M51	Z	0	0	0 %100
49	M54	X	-1.893	-1.893	0 %100
50	M54	Z	3.278	3.278	0 %100
51	M55	X	-1.841	-1.841	0 %100
52	M55	Z	3.188	3.188	0 %100
53	M56	X	-1.844	-1.844	0 %100
54	M56	Z	3.193	3.193	0 %100
55	M57	X	-5.242	-5.242	0 %100
56	M57	Z	9.08	9.08	0 %100
57	M70	X	-3.231	-3.231	0 %100
58	M70	Z	5.597	5.597	0 %100
59	MP2A	X	-3.57	-3.57	0 %100
60	MP2A	Z	6.184	6.184	0 %100
61	MP3A	X	-3.952	-3.952	0 %100
62	MP3A	Z	6.844	6.844	0 %100
63	MP4A	X	-3.952	-3.952	0 %100
64	MP4A	Z	6.844	6.844	0 %100
65	MP5A	X	-3.952	-3.952	0 %100
66	MP5A	Z	6.844	6.844	0 %100
67	MP1C	X	-3.952	-3.952	0 %100
68	MP1C	Z	6.844	6.844	0 %100
69	MP2C	X	-3.952	-3.952	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, %]
70	MP2C	Z	6.844	6.844	0	%100
71	MP3C	X	-3.952	-3.952	0	%100
72	MP3C	Z	6.844	6.844	0	%100
73	MP4C	X	-3.952	-3.952	0	%100
74	MP4C	Z	6.844	6.844	0	%100
75	MP1B	X	-3.952	-3.952	0	%100
76	MP1B	Z	6.844	6.844	0	%100
77	MP2B	X	-3.952	-3.952	0	%100
78	MP2B	Z	6.844	6.844	0	%100
79	MP3B	X	-3.952	-3.952	0	%100
80	MP3B	Z	6.844	6.844	0	%100
81	MP4B	X	-3.952	-3.952	0	%100
82	MP4B	Z	6.844	6.844	0	%100
83	M96	X	-10.399	-10.399	0	%100
84	M96	Z	18.011	18.011	0	%100
85	M93A	X	-10.399	-10.399	0	%100
86	M93A	Z	18.011	18.011	0	%100
87	M94	X	0	0	0	%100
88	M94	Z	0	0	0	%100
89	M95	X	-3.588	-3.588	0	%100
90	M95	Z	6.214	6.214	0	%100
91	M97	X	-3.588	-3.588	0	%100
92	M97	Z	6.214	6.214	0	%100
93	M98	X	0	0	0	%100
94	M98	Z	0	0	0	%100
95	M111	X	-6.505	-6.505	0	%100
96	M111	Z	11.268	11.268	0	%100
97	M112	X	-6.505	-6.505	0	%100
98	M112	Z	11.268	11.268	0	%100
99	M113	X	-6.814	-6.814	0	%100
100	M113	Z	11.801	11.801	0	%100
101	M120	X	-4.606	-4.606	0	%100
102	M120	Z	7.978	7.978	0	%100
103	M121	X	-4.606	-4.606	0	%100
104	M121	Z	7.978	7.978	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.522	-2.522	0	%100
2	M1	Z	1.456	1.456	0	%100
3	MP1A	X	-6.844	-6.844	0	%100
4	MP1A	Z	3.952	3.952	0	%100
5	M4	X	-10.086	-10.086	0	%100
6	M4	Z	5.823	5.823	0	%100
7	M5	X	-2.522	-2.522	0	%100
8	M5	Z	1.456	1.456	0	%100
9	M11	X	-7.204	-7.204	0	%100
10	M11	Z	4.159	4.159	0	%100
11	M12	X	-7.204	-7.204	0	%100
12	M12	Z	4.159	4.159	0	%100
13	M13	X	-28.79	-28.79	0	%100
14	M13	Z	16.622	16.622	0	%100
15	M14	X	-2.6e-5	-2.6e-5	0	%100
16	M14	Z	1.5e-5	1.5e-5	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, %]
17	M15	X	-2.3e-5	-2.3e-5	0 %100
18	M15	Z	1.4e-5	1.4e-5	0 %100
19	M16	X	-2.5e-5	-2.5e-5	0 %100
20	M16	Z	1.4e-5	1.4e-5	0 %100
21	M17	X	-6.44	-6.44	0 %100
22	M17	Z	3.718	3.718	0 %100
23	M18	X	-7.997	-7.997	0 %100
24	M18	Z	4.617	4.617	0 %100
25	M19	X	-1.44	-1.44	0 %100
26	M19	Z	.832	.832	0 %100
27	M25	X	-.382	-.382	0 %100
28	M25	Z	.221	.221	0 %100
29	M31	X	-.339	-.339	0 %100
30	M31	Z	.196	.196	0 %100
31	M39	X	-28.818	-28.818	0 %100
32	M39	Z	16.638	16.638	0 %100
33	M40	X	-28.818	-28.818	0 %100
34	M40	Z	16.638	16.638	0 %100
35	M43	X	-7.204	-7.204	0 %100
36	M43	Z	4.159	4.159	0 %100
37	M44	X	-7.204	-7.204	0 %100
38	M44	Z	4.159	4.159	0 %100
39	M45	X	-12.106	-12.106	0 %100
40	M45	Z	6.99	6.99	0 %100
41	M48	X	-9.898	-9.898	0 %100
42	M48	Z	5.715	5.715	0 %100
43	M49	X	-9.506	-9.506	0 %100
44	M49	Z	5.488	5.488	0 %100
45	M50	X	-9.519	-9.519	0 %100
46	M50	Z	5.496	5.496	0 %100
47	M51	X	-3.027	-3.027	0 %100
48	M51	Z	1.747	1.747	0 %100
49	M54	X	-9.866	-9.866	0 %100
50	M54	Z	5.696	5.696	0 %100
51	M55	X	-9.535	-9.535	0 %100
52	M55	Z	5.505	5.505	0 %100
53	M56	X	-9.549	-9.549	0 %100
54	M56	Z	5.513	5.513	0 %100
55	M57	X	-3.027	-3.027	0 %100
56	M57	Z	1.747	1.747	0 %100
57	M70	X	-5.597	-5.597	0 %100
58	M70	Z	3.231	3.231	0 %100
59	MP2A	X	-6.184	-6.184	0 %100
60	MP2A	Z	3.57	3.57	0 %100
61	MP3A	X	-6.844	-6.844	0 %100
62	MP3A	Z	3.952	3.952	0 %100
63	MP4A	X	-6.844	-6.844	0 %100
64	MP4A	Z	3.952	3.952	0 %100
65	MP5A	X	-6.844	-6.844	0 %100
66	MP5A	Z	3.952	3.952	0 %100
67	MP1C	X	-6.844	-6.844	0 %100
68	MP1C	Z	3.952	3.952	0 %100
69	MP2C	X	-6.844	-6.844	0 %100
70	MP2C	Z	3.952	3.952	0 %100
71	MP3C	X	-6.844	-6.844	0 %100
72	MP3C	Z	3.952	3.952	0 %100
73	MP4C	X	-6.844	-6.844	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, %]
74	MP4C	Z	3.952	3.952	0	%100
75	MP1B	X	-6.844	-6.844	0	%100
76	MP1B	Z	3.952	3.952	0	%100
77	MP2B	X	-6.844	-6.844	0	%100
78	MP2B	Z	3.952	3.952	0	%100
79	MP3B	X	-6.844	-6.844	0	%100
80	MP3B	Z	3.952	3.952	0	%100
81	MP4B	X	-6.844	-6.844	0	%100
82	MP4B	Z	3.952	3.952	0	%100
83	M96	X	-6.004	-6.004	0	%100
84	M96	Z	3.466	3.466	0	%100
85	M93A	X	-24.015	-24.015	0	%100
86	M93A	Z	13.865	13.865	0	%100
87	M94	X	-6.004	-6.004	0	%100
88	M94	Z	3.466	3.466	0	%100
89	M95	X	-2.071	-2.071	0	%100
90	M95	Z	1.196	1.196	0	%100
91	M97	X	-8.285	-8.285	0	%100
92	M97	Z	4.783	4.783	0	%100
93	M98	X	-2.071	-2.071	0	%100
94	M98	Z	1.196	1.196	0	%100
95	M111	X	-11.623	-11.623	0	%100
96	M111	Z	6.711	6.711	0	%100
97	M112	X	-11.09	-11.09	0	%100
98	M112	Z	6.403	6.403	0	%100
99	M113	X	-11.623	-11.623	0	%100
100	M113	Z	6.711	6.711	0	%100
101	M120	X	-2.659	-2.659	0	%100
102	M120	Z	1.535	1.535	0	%100
103	M121	X	-10.637	-10.637	0	%100
104	M121	Z	6.141	6.141	0	%100
105	M122	X	-2.659	-2.659	0	%100
106	M122	Z	1.535	1.535	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP1A	X	-7.903	-7.903	0	%100
4	MP1A	Z	0	0	0	%100
5	M4	X	-8.735	-8.735	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	-8.735	-8.735	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	0	0	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	0	0	0	%100
13	M13	X	-25.84	-25.84	0	%100
14	M13	Z	0	0	0	%100
15	M14	X	-3.785	-3.785	0	%100
16	M14	Z	0	0	0	%100
17	M15	X	-3.682	-3.682	0	%100
18	M15	Z	0	0	0	%100
19	M16	X	-3.687	-3.687	0	%100
20	M16	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, %]
21	M17	X	-24.041	-24.041	0 %100
22	M17	Z	0	0	0 %100
23	M18	X	-.032	-.032	0 %100
24	M18	Z	0	0	0 %100
25	M19	X	-1.223	-1.223	0 %100
26	M19	Z	0	0	0 %100
27	M25	X	-1.272	-1.272	0 %100
28	M25	Z	0	0	0 %100
29	M31	X	-.000495	-.000495	0 %100
30	M31	Z	0	0	0 %100
31	M39	X	-24.957	-24.957	0 %100
32	M39	Z	0	0	0 %100
33	M40	X	-24.957	-24.957	0 %100
34	M40	Z	0	0	0 %100
35	M43	X	-24.957	-24.957	0 %100
36	M43	Z	0	0	0 %100
37	M44	X	-24.957	-24.957	0 %100
38	M44	Z	0	0	0 %100
39	M45	X	-10.484	-10.484	0 %100
40	M45	Z	0	0	0 %100
41	M48	X	-3.822	-3.822	0 %100
42	M48	Z	0	0	0 %100
43	M49	X	-3.647	-3.647	0 %100
44	M49	Z	0	0	0 %100
45	M50	X	-3.652	-3.652	0 %100
46	M50	Z	0	0	0 %100
47	M51	X	-10.484	-10.484	0 %100
48	M51	Z	0	0	0 %100
49	M54	X	-15.215	-15.215	0 %100
50	M54	Z	0	0	0 %100
51	M55	X	-14.658	-14.658	0 %100
52	M55	Z	0	0	0 %100
53	M56	X	-14.678	-14.678	0 %100
54	M56	Z	0	0	0 %100
55	M57	X	0	0	0 %100
56	M57	Z	0	0	0 %100
57	M70	X	-6.463	-6.463	0 %100
58	M70	Z	0	0	0 %100
59	MP2A	X	-7.14	-7.14	0 %100
60	MP2A	Z	0	0	0 %100
61	MP3A	X	-7.903	-7.903	0 %100
62	MP3A	Z	0	0	0 %100
63	MP4A	X	-7.903	-7.903	0 %100
64	MP4A	Z	0	0	0 %100
65	MP5A	X	-7.903	-7.903	0 %100
66	MP5A	Z	0	0	0 %100
67	MP1C	X	-7.903	-7.903	0 %100
68	MP1C	Z	0	0	0 %100
69	MP2C	X	-7.903	-7.903	0 %100
70	MP2C	Z	0	0	0 %100
71	MP3C	X	-7.903	-7.903	0 %100
72	MP3C	Z	0	0	0 %100
73	MP4C	X	-7.903	-7.903	0 %100
74	MP4C	Z	0	0	0 %100
75	MP1B	X	-7.903	-7.903	0 %100
76	MP1B	Z	0	0	0 %100
77	MP2B	X	-7.903	-7.903	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.%]
78	MP2B	Z	0	0	0	%100
79	MP3B	X	-7.903	-7.903	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	-7.903	-7.903	0	%100
82	MP4B	Z	0	0	0	%100
83	M96	X	0	0	0	%100
84	M96	Z	0	0	0	%100
85	M93A	X	-20.797	-20.797	0	%100
86	M93A	Z	0	0	0	%100
87	M94	X	-20.797	-20.797	0	%100
88	M94	Z	0	0	0	%100
89	M95	X	0	0	0	%100
90	M95	Z	0	0	0	%100
91	M97	X	-7.175	-7.175	0	%100
92	M97	Z	0	0	0	%100
93	M98	X	-7.175	-7.175	0	%100
94	M98	Z	0	0	0	%100
95	M111	X	-13.627	-13.627	0	%100
96	M111	Z	0	0	0	%100
97	M112	X	-13.011	-13.011	0	%100
98	M112	Z	0	0	0	%100
99	M113	X	-13.011	-13.011	0	%100
100	M113	Z	0	0	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	0	0	0	%100
103	M121	X	-9.212	-9.212	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	-9.212	-9.212	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.522	-2.522	0	%100
2	M1	Z	-1.456	-1.456	0	%100
3	MP1A	X	-6.844	-6.844	0	%100
4	MP1A	Z	-3.952	-3.952	0	%100
5	M4	X	-2.522	-2.522	0	%100
6	M4	Z	-1.456	-1.456	0	%100
7	M5	X	-10.086	-10.086	0	%100
8	M5	Z	-5.823	-5.823	0	%100
9	M11	X	-7.204	-7.204	0	%100
10	M11	Z	-4.159	-4.159	0	%100
11	M12	X	-7.204	-7.204	0	%100
12	M12	Z	-4.159	-4.159	0	%100
13	M13	X	-7.997	-7.997	0	%100
14	M13	Z	-4.617	-4.617	0	%100
15	M14	X	-9.866	-9.866	0	%100
16	M14	Z	-5.696	-5.696	0	%100
17	M15	X	-9.535	-9.535	0	%100
18	M15	Z	-5.505	-5.505	0	%100
19	M16	X	-9.549	-9.549	0	%100
20	M16	Z	-5.513	-5.513	0	%100
21	M17	X	-28.79	-28.79	0	%100
22	M17	Z	-16.622	-16.622	0	%100
23	M18	X	-6.44	-6.44	0	%100
24	M18	Z	-3.718	-3.718	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, %]
25	M19	X	-.339	-.339	0 %100
26	M19	Z	-.196	-.196	0 %100
27	M25	X	-1.44	-1.44	0 %100
28	M25	Z	-.832	-.832	0 %100
29	M31	X	-.382	-.382	0 %100
30	M31	Z	-.221	-.221	0 %100
31	M39	X	-7.204	-7.204	0 %100
32	M39	Z	-4.159	-4.159	0 %100
33	M40	X	-7.204	-7.204	0 %100
34	M40	Z	-4.159	-4.159	0 %100
35	M43	X	-28.818	-28.818	0 %100
36	M43	Z	-16.638	-16.638	0 %100
37	M44	X	-28.818	-28.818	0 %100
38	M44	Z	-16.638	-16.638	0 %100
39	M45	X	-3.027	-3.027	0 %100
40	M45	Z	-1.747	-1.747	0 %100
41	M48	X	-2.6e-5	-2.6e-5	0 %100
42	M48	Z	-1.5e-5	-1.5e-5	0 %100
43	M49	X	-2.3e-5	-2.3e-5	0 %100
44	M49	Z	-1.4e-5	-1.4e-5	0 %100
45	M50	X	-2.5e-5	-2.5e-5	0 %100
46	M50	Z	-1.4e-5	-1.4e-5	0 %100
47	M51	X	-12.106	-12.106	0 %100
48	M51	Z	-6.99	-6.99	0 %100
49	M54	X	-9.898	-9.898	0 %100
50	M54	Z	-5.715	-5.715	0 %100
51	M55	X	-9.506	-9.506	0 %100
52	M55	Z	-5.488	-5.488	0 %100
53	M56	X	-9.519	-9.519	0 %100
54	M56	Z	-5.496	-5.496	0 %100
55	M57	X	-3.027	-3.027	0 %100
56	M57	Z	-1.747	-1.747	0 %100
57	M70	X	-5.597	-5.597	0 %100
58	M70	Z	-3.231	-3.231	0 %100
59	MP2A	X	-6.184	-6.184	0 %100
60	MP2A	Z	-3.57	-3.57	0 %100
61	MP3A	X	-6.844	-6.844	0 %100
62	MP3A	Z	-3.952	-3.952	0 %100
63	MP4A	X	-6.844	-6.844	0 %100
64	MP4A	Z	-3.952	-3.952	0 %100
65	MP5A	X	-6.844	-6.844	0 %100
66	MP5A	Z	-3.952	-3.952	0 %100
67	MP1C	X	-6.844	-6.844	0 %100
68	MP1C	Z	-3.952	-3.952	0 %100
69	MP2C	X	-6.844	-6.844	0 %100
70	MP2C	Z	-3.952	-3.952	0 %100
71	MP3C	X	-6.844	-6.844	0 %100
72	MP3C	Z	-3.952	-3.952	0 %100
73	MP4C	X	-6.844	-6.844	0 %100
74	MP4C	Z	-3.952	-3.952	0 %100
75	MP1B	X	-6.844	-6.844	0 %100
76	MP1B	Z	-3.952	-3.952	0 %100
77	MP2B	X	-6.844	-6.844	0 %100
78	MP2B	Z	-3.952	-3.952	0 %100
79	MP3B	X	-6.844	-6.844	0 %100
80	MP3B	Z	-3.952	-3.952	0 %100
81	MP4B	X	-6.844	-6.844	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.%]
82	MP4B	Z	-3.952	-3.952	0	%100
83	M96	X	-6.004	-6.004	0	%100
84	M96	Z	-3.466	-3.466	0	%100
85	M93A	X	-6.004	-6.004	0	%100
86	M93A	Z	-3.466	-3.466	0	%100
87	M94	X	-24.015	-24.015	0	%100
88	M94	Z	-13.865	-13.865	0	%100
89	M95	X	-2.071	-2.071	0	%100
90	M95	Z	-1.196	-1.196	0	%100
91	M97	X	-2.071	-2.071	0	%100
92	M97	Z	-1.196	-1.196	0	%100
93	M98	X	-8.285	-8.285	0	%100
94	M98	Z	-4.783	-4.783	0	%100
95	M111	X	-11.623	-11.623	0	%100
96	M111	Z	-6.711	-6.711	0	%100
97	M112	X	-11.623	-11.623	0	%100
98	M112	Z	-6.711	-6.711	0	%100
99	M113	X	-11.09	-11.09	0	%100
100	M113	Z	-6.403	-6.403	0	%100
101	M120	X	-2.659	-2.659	0	%100
102	M120	Z	-1.535	-1.535	0	%100
103	M121	X	-2.659	-2.659	0	%100
104	M121	Z	-1.535	-1.535	0	%100
105	M122	X	-10.637	-10.637	0	%100
106	M122	Z	-6.141	-6.141	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-4.367	-4.367	0	%100
2	M1	Z	-7.565	-7.565	0	%100
3	MP1A	X	-3.952	-3.952	0	%100
4	MP1A	Z	-6.844	-6.844	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	-4.367	-4.367	0	%100
8	M5	Z	-7.565	-7.565	0	%100
9	M11	X	-12.478	-12.478	0	%100
10	M11	Z	-21.613	-21.613	0	%100
11	M12	X	-12.478	-12.478	0	%100
12	M12	Z	-21.613	-21.613	0	%100
13	M13	X	-.016	-.016	0	%100
14	M13	Z	-.028	-.028	0	%100
15	M14	X	-7.607	-7.607	0	%100
16	M14	Z	-13.176	-13.176	0	%100
17	M15	X	-7.329	-7.329	0	%100
18	M15	Z	-12.694	-12.694	0	%100
19	M16	X	-7.339	-7.339	0	%100
20	M16	Z	-12.712	-12.712	0	%100
21	M17	X	-12.92	-12.92	0	%100
22	M17	Z	-22.378	-22.378	0	%100
23	M18	X	-12.021	-12.021	0	%100
24	M18	Z	-20.82	-20.82	0	%100
25	M19	X	-.000247	-.000247	0	%100
26	M19	Z	-.000428	-.000428	0	%100
27	M25	X	-.611	-.611	0	%100
28	M25	Z	-1.059	-1.059	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, %]
29	M31	X	-.636	-.636	0	%100
30	M31	Z	-1.102	-1.102	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	0	0	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	0	0	0	%100
35	M43	X	-12.478	-12.478	0	%100
36	M43	Z	-21.613	-21.613	0	%100
37	M44	X	-12.478	-12.478	0	%100
38	M44	Z	-21.613	-21.613	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	0	0	0	%100
41	M48	X	-1.893	-1.893	0	%100
42	M48	Z	-3.278	-3.278	0	%100
43	M49	X	-1.841	-1.841	0	%100
44	M49	Z	-3.188	-3.188	0	%100
45	M50	X	-1.844	-1.844	0	%100
46	M50	Z	-3.193	-3.193	0	%100
47	M51	X	-5.242	-5.242	0	%100
48	M51	Z	-9.08	-9.08	0	%100
49	M54	X	-1.911	-1.911	0	%100
50	M54	Z	-3.31	-3.31	0	%100
51	M55	X	-1.824	-1.824	0	%100
52	M55	Z	-3.159	-3.159	0	%100
53	M56	X	-1.826	-1.826	0	%100
54	M56	Z	-3.163	-3.163	0	%100
55	M57	X	-5.242	-5.242	0	%100
56	M57	Z	-9.08	-9.08	0	%100
57	M70	X	-3.231	-3.231	0	%100
58	M70	Z	-5.597	-5.597	0	%100
59	MP2A	X	-3.57	-3.57	0	%100
60	MP2A	Z	-6.184	-6.184	0	%100
61	MP3A	X	-3.952	-3.952	0	%100
62	MP3A	Z	-6.844	-6.844	0	%100
63	MP4A	X	-3.952	-3.952	0	%100
64	MP4A	Z	-6.844	-6.844	0	%100
65	MP5A	X	-3.952	-3.952	0	%100
66	MP5A	Z	-6.844	-6.844	0	%100
67	MP1C	X	-3.952	-3.952	0	%100
68	MP1C	Z	-6.844	-6.844	0	%100
69	MP2C	X	-3.952	-3.952	0	%100
70	MP2C	Z	-6.844	-6.844	0	%100
71	MP3C	X	-3.952	-3.952	0	%100
72	MP3C	Z	-6.844	-6.844	0	%100
73	MP4C	X	-3.952	-3.952	0	%100
74	MP4C	Z	-6.844	-6.844	0	%100
75	MP1B	X	-3.952	-3.952	0	%100
76	MP1B	Z	-6.844	-6.844	0	%100
77	MP2B	X	-3.952	-3.952	0	%100
78	MP2B	Z	-6.844	-6.844	0	%100
79	MP3B	X	-3.952	-3.952	0	%100
80	MP3B	Z	-6.844	-6.844	0	%100
81	MP4B	X	-3.952	-3.952	0	%100
82	MP4B	Z	-6.844	-6.844	0	%100
83	M96	X	-10.399	-10.399	0	%100
84	M96	Z	-18.011	-18.011	0	%100
85	M93A	X	0	0	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, %]
86	M93A	Z	0	0	0	%100
87	M94	X	-10.399	-10.399	0	%100
88	M94	Z	-18.011	-18.011	0	%100
89	M95	X	-3.588	-3.588	0	%100
90	M95	Z	-6.214	-6.214	0	%100
91	M97	X	0	0	0	%100
92	M97	Z	0	0	0	%100
93	M98	X	-3.588	-3.588	0	%100
94	M98	Z	-6.214	-6.214	0	%100
95	M111	X	-6.505	-6.505	0	%100
96	M111	Z	-11.268	-11.268	0	%100
97	M112	X	-6.814	-6.814	0	%100
98	M112	Z	-11.801	-11.801	0	%100
99	M113	X	-6.505	-6.505	0	%100
100	M113	Z	-11.268	-11.268	0	%100
101	M120	X	-4.606	-4.606	0	%100
102	M120	Z	-7.978	-7.978	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	-4.606	-4.606	0	%100
106	M122	Z	-7.978	-7.978	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-3.413	-3.413	0	%100
3	MP1A	X	0	0	0	%100
4	MP1A	Z	-2.752	-2.752	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	-.853	-.853	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	-.853	-.853	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	-6.696	-6.696	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	-6.696	-6.696	0	%100
13	M13	X	0	0	0	%100
14	M13	Z	-1.509	-1.509	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	-3.037	-3.037	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	-2.92	-2.92	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-2.924	-2.924	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	-1.874	-1.874	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-6.747	-6.747	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	-.314	-.314	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-.279	-.279	0	%100
29	M31	X	0	0	0	%100
30	M31	Z	-1.186	-1.186	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	-1.674	-1.674	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, %]
33	M40	X	0	0	%100
34	M40	Z	-1.674	-1.674	%100
35	M43	X	0	0	%100
36	M43	Z	-1.674	-1.674	%100
37	M44	X	0	0	%100
38	M44	Z	-1.674	-1.674	%100
39	M45	X	0	0	%100
40	M45	Z	-.956	-.956	%100
41	M48	X	0	0	%100
42	M48	Z	-3.027	-3.027	%100
43	M49	X	0	0	%100
44	M49	Z	-2.929	-2.929	%100
45	M50	X	0	0	%100
46	M50	Z	-2.934	-2.934	%100
47	M51	X	0	0	%100
48	M51	Z	-.956	-.956	%100
49	M54	X	0	0	%100
50	M54	Z	-8e-6	-8e-6	%100
51	M55	X	0	0	%100
52	M55	Z	-7e-6	-7e-6	%100
53	M56	X	0	0	%100
54	M56	Z	-8e-6	-8e-6	%100
55	M57	X	0	0	%100
56	M57	Z	-3.825	-3.825	%100
57	M70	X	0	0	%100
58	M70	Z	-2.261	-2.261	%100
59	MP2A	X	0	0	%100
60	MP2A	Z	-2.5	-2.5	%100
61	MP3A	X	0	0	%100
62	MP3A	Z	-2.752	-2.752	%100
63	MP4A	X	0	0	%100
64	MP4A	Z	-2.752	-2.752	%100
65	MP5A	X	0	0	%100
66	MP5A	Z	-2.752	-2.752	%100
67	MP1C	X	0	0	%100
68	MP1C	Z	-2.752	-2.752	%100
69	MP2C	X	0	0	%100
70	MP2C	Z	-2.752	-2.752	%100
71	MP3C	X	0	0	%100
72	MP3C	Z	-2.752	-2.752	%100
73	MP4C	X	0	0	%100
74	MP4C	Z	-2.752	-2.752	%100
75	MP1B	X	0	0	%100
76	MP1B	Z	-2.752	-2.752	%100
77	MP2B	X	0	0	%100
78	MP2B	Z	-2.752	-2.752	%100
79	MP3B	X	0	0	%100
80	MP3B	Z	-2.752	-2.752	%100
81	MP4B	X	0	0	%100
82	MP4B	Z	-2.752	-2.752	%100
83	M96	X	0	0	%100
84	M96	Z	-6.252	-6.252	%100
85	M93A	X	0	0	%100
86	M93A	Z	-1.563	-1.563	%100
87	M94	X	0	0	%100
88	M94	Z	-1.563	-1.563	%100
89	M95	X	0	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, %]
90	M95	Z	-3.046	-3.046	0	%100
91	M97	X	0	0	0	%100
92	M97	Z	-.761	-.761	0	%100
93	M98	X	0	0	0	%100
94	M98	Z	-.761	-.761	0	%100
95	M111	X	0	0	0	%100
96	M111	Z	-2.856	-2.856	0	%100
97	M112	X	0	0	0	%100
98	M112	Z	-3.411	-3.411	0	%100
99	M113	X	0	0	0	%100
100	M113	Z	-3.411	-3.411	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	-3.2	-3.2	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	-.8	-.8	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	-.8	-.8	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.28	1.28	0	%100
2	M1	Z	-2.217	-2.217	0	%100
3	MP1A	X	1.376	1.376	0	%100
4	MP1A	Z	-2.383	-2.383	0	%100
5	M4	X	1.28	1.28	0	%100
6	M4	Z	-2.217	-2.217	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	2.511	2.511	0	%100
10	M11	Z	-4.349	-4.349	0	%100
11	M12	X	2.511	2.511	0	%100
12	M12	Z	-4.349	-4.349	0	%100
13	M13	X	2.44	2.44	0	%100
14	M13	Z	-4.226	-4.226	0	%100
15	M14	X	.508	.508	0	%100
16	M14	Z	-.88	-.88	0	%100
17	M15	X	.485	.485	0	%100
18	M15	Z	-.84	-.84	0	%100
19	M16	X	.486	.486	0	%100
20	M16	Z	-.841	-.841	0	%100
21	M17	X	.003	.003	0	%100
22	M17	Z	-.006	-.006	0	%100
23	M18	X	2.622	2.622	0	%100
24	M18	Z	-4.542	-4.542	0	%100
25	M19	X	.454	.454	0	%100
26	M19	Z	-.786	-.786	0	%100
27	M25	X	.000176	.000176	0	%100
28	M25	Z	-.000305	-.000305	0	%100
29	M31	X	.436	.436	0	%100
30	M31	Z	-.755	-.755	0	%100
31	M39	X	2.511	2.511	0	%100
32	M39	Z	-4.349	-4.349	0	%100
33	M40	X	2.511	2.511	0	%100
34	M40	Z	-4.349	-4.349	0	%100
35	M43	X	0	0	0	%100
36	M43	Z	0	0	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, %]	
37	M44	X	0	0	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	1.434	1.434	0	%100
40	M45	Z	-2.484	-2.484	0	%100
41	M48	X	2.021	2.021	0	%100
42	M48	Z	-3.501	-3.501	0	%100
43	M49	X	1.95	1.95	0	%100
44	M49	Z	-3.377	-3.377	0	%100
45	M50	X	1.953	1.953	0	%100
46	M50	Z	-3.382	-3.382	0	%100
47	M51	X	0	0	0	%100
48	M51	Z	0	0	0	%100
49	M54	X	.503	.503	0	%100
50	M54	Z	-.871	-.871	0	%100
51	M55	X	.49	.49	0	%100
52	M55	Z	-.848	-.848	0	%100
53	M56	X	.49	.49	0	%100
54	M56	Z	-.85	-.85	0	%100
55	M57	X	1.434	1.434	0	%100
56	M57	Z	-2.484	-2.484	0	%100
57	M70	X	1.131	1.131	0	%100
58	M70	Z	-1.958	-1.958	0	%100
59	MP2A	X	1.25	1.25	0	%100
60	MP2A	Z	-2.165	-2.165	0	%100
61	MP3A	X	1.376	1.376	0	%100
62	MP3A	Z	-2.383	-2.383	0	%100
63	MP4A	X	1.376	1.376	0	%100
64	MP4A	Z	-2.383	-2.383	0	%100
65	MP5A	X	1.376	1.376	0	%100
66	MP5A	Z	-2.383	-2.383	0	%100
67	MP1C	X	1.376	1.376	0	%100
68	MP1C	Z	-2.383	-2.383	0	%100
69	MP2C	X	1.376	1.376	0	%100
70	MP2C	Z	-2.383	-2.383	0	%100
71	MP3C	X	1.376	1.376	0	%100
72	MP3C	Z	-2.383	-2.383	0	%100
73	MP4C	X	1.376	1.376	0	%100
74	MP4C	Z	-2.383	-2.383	0	%100
75	MP1B	X	1.376	1.376	0	%100
76	MP1B	Z	-2.383	-2.383	0	%100
77	MP2B	X	1.376	1.376	0	%100
78	MP2B	Z	-2.383	-2.383	0	%100
79	MP3B	X	1.376	1.376	0	%100
80	MP3B	Z	-2.383	-2.383	0	%100
81	MP4B	X	1.376	1.376	0	%100
82	MP4B	Z	-2.383	-2.383	0	%100
83	M96	X	2.345	2.345	0	%100
84	M96	Z	-4.061	-4.061	0	%100
85	M93A	X	2.345	2.345	0	%100
86	M93A	Z	-4.061	-4.061	0	%100
87	M94	X	0	0	0	%100
88	M94	Z	0	0	0	%100
89	M95	X	1.142	1.142	0	%100
90	M95	Z	-1.978	-1.978	0	%100
91	M97	X	1.142	1.142	0	%100
92	M97	Z	-1.978	-1.978	0	%100
93	M98	X	0	0	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, %]
94	M98	Z	0	0	0	%100
95	M111	X	1.52	1.52	0	%100
96	M111	Z	-2.633	-2.633	0	%100
97	M112	X	1.52	1.52	0	%100
98	M112	Z	-2.633	-2.633	0	%100
99	M113	X	1.798	1.798	0	%100
100	M113	Z	-3.114	-3.114	0	%100
101	M120	X	1.2	1.2	0	%100
102	M120	Z	-2.079	-2.079	0	%100
103	M121	X	1.2	1.2	0	%100
104	M121	Z	-2.079	-2.079	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.739	.739	0	%100
2	M1	Z	-.427	-.427	0	%100
3	MP1A	X	2.383	2.383	0	%100
4	MP1A	Z	-1.376	-1.376	0	%100
5	M4	X	2.955	2.955	0	%100
6	M4	Z	-1.706	-1.706	0	%100
7	M5	X	.739	.739	0	%100
8	M5	Z	-.427	-.427	0	%100
9	M11	X	1.45	1.45	0	%100
10	M11	Z	-.837	-.837	0	%100
11	M12	X	1.45	1.45	0	%100
12	M12	Z	-.837	-.837	0	%100
13	M13	X	5.843	5.843	0	%100
14	M13	Z	-3.374	-3.374	0	%100
15	M14	X	7e-6	7e-6	0	%100
16	M14	Z	-4e-6	-4e-6	0	%100
17	M15	X	6e-6	6e-6	0	%100
18	M15	Z	-4e-6	-4e-6	0	%100
19	M16	X	7e-6	7e-6	0	%100
20	M16	Z	-4e-6	-4e-6	0	%100
21	M17	X	1.307	1.307	0	%100
22	M17	Z	-.755	-.755	0	%100
23	M18	X	1.623	1.623	0	%100
24	M18	Z	-.937	-.937	0	%100
25	M19	X	1.027	1.027	0	%100
26	M19	Z	-.593	-.593	0	%100
27	M25	X	.272	.272	0	%100
28	M25	Z	-.157	-.157	0	%100
29	M31	X	.242	.242	0	%100
30	M31	Z	-.14	-.14	0	%100
31	M39	X	5.799	5.799	0	%100
32	M39	Z	-3.348	-3.348	0	%100
33	M40	X	5.799	5.799	0	%100
34	M40	Z	-3.348	-3.348	0	%100
35	M43	X	1.45	1.45	0	%100
36	M43	Z	-.837	-.837	0	%100
37	M44	X	1.45	1.45	0	%100
38	M44	Z	-.837	-.837	0	%100
39	M45	X	3.312	3.312	0	%100
40	M45	Z	-1.912	-1.912	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, %]
41	M48	X	2.63	2.63	0 %100
42	M48	Z	-1.518	-1.518	0 %100
43	M49	X	2.529	2.529	0 %100
44	M49	Z	-1.46	-1.46	0 %100
45	M50	X	2.532	2.532	0 %100
46	M50	Z	-1.462	-1.462	0 %100
47	M51	X	.828	.828	0 %100
48	M51	Z	-.478	-.478	0 %100
49	M54	X	2.622	2.622	0 %100
50	M54	Z	-1.514	-1.514	0 %100
51	M55	X	2.537	2.537	0 %100
52	M55	Z	-1.464	-1.464	0 %100
53	M56	X	2.541	2.541	0 %100
54	M56	Z	-1.467	-1.467	0 %100
55	M57	X	.828	.828	0 %100
56	M57	Z	-.478	-.478	0 %100
57	M70	X	1.958	1.958	0 %100
58	M70	Z	-1.131	-1.131	0 %100
59	MP2A	X	2.165	2.165	0 %100
60	MP2A	Z	-1.25	-1.25	0 %100
61	MP3A	X	2.383	2.383	0 %100
62	MP3A	Z	-1.376	-1.376	0 %100
63	MP4A	X	2.383	2.383	0 %100
64	MP4A	Z	-1.376	-1.376	0 %100
65	MP5A	X	2.383	2.383	0 %100
66	MP5A	Z	-1.376	-1.376	0 %100
67	MP1C	X	2.383	2.383	0 %100
68	MP1C	Z	-1.376	-1.376	0 %100
69	MP2C	X	2.383	2.383	0 %100
70	MP2C	Z	-1.376	-1.376	0 %100
71	MP3C	X	2.383	2.383	0 %100
72	MP3C	Z	-1.376	-1.376	0 %100
73	MP4C	X	2.383	2.383	0 %100
74	MP4C	Z	-1.376	-1.376	0 %100
75	MP1B	X	2.383	2.383	0 %100
76	MP1B	Z	-1.376	-1.376	0 %100
77	MP2B	X	2.383	2.383	0 %100
78	MP2B	Z	-1.376	-1.376	0 %100
79	MP3B	X	2.383	2.383	0 %100
80	MP3B	Z	-1.376	-1.376	0 %100
81	MP4B	X	2.383	2.383	0 %100
82	MP4B	Z	-1.376	-1.376	0 %100
83	M96	X	1.354	1.354	0 %100
84	M96	Z	-.782	-.782	0 %100
85	M93A	X	5.414	5.414	0 %100
86	M93A	Z	-3.126	-3.126	0 %100
87	M94	X	1.354	1.354	0 %100
88	M94	Z	-.782	-.782	0 %100
89	M95	X	.659	.659	0 %100
90	M95	Z	-.381	-.381	0 %100
91	M97	X	2.638	2.638	0 %100
92	M97	Z	-1.523	-1.523	0 %100
93	M98	X	.659	.659	0 %100
94	M98	Z	-.381	-.381	0 %100
95	M111	X	2.954	2.954	0 %100
96	M111	Z	-1.705	-1.705	0 %100
97	M112	X	2.473	2.473	0 %100



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**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.%]
98	M112	Z	-1.428	-1.428	0	%100
99	M113	X	2.954	2.954	0	%100
100	M113	Z	-1.705	-1.705	0	%100
101	M120	X	.693	.693	0	%100
102	M120	Z	-.4	-.4	0	%100
103	M121	X	2.771	2.771	0	%100
104	M121	Z	-1.6	-1.6	0	%100
105	M122	X	.693	.693	0	%100
106	M122	Z	-.4	-.4	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP1A	X	2.752	2.752	0	%100
4	MP1A	Z	0	0	0	%100
5	M4	X	2.56	2.56	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	2.56	2.56	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	0	0	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	0	0	0	%100
13	M13	X	5.245	5.245	0	%100
14	M13	Z	0	0	0	%100
15	M14	X	1.006	1.006	0	%100
16	M14	Z	0	0	0	%100
17	M15	X	.979	.979	0	%100
18	M15	Z	0	0	0	%100
19	M16	X	.981	.981	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	4.88	4.88	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	.007	.007	0	%100
24	M18	Z	0	0	0	%100
25	M19	X	.872	.872	0	%100
26	M19	Z	0	0	0	%100
27	M25	X	.907	.907	0	%100
28	M25	Z	0	0	0	%100
29	M31	X	.000353	.000353	0	%100
30	M31	Z	0	0	0	%100
31	M39	X	5.022	5.022	0	%100
32	M39	Z	0	0	0	%100
33	M40	X	5.022	5.022	0	%100
34	M40	Z	0	0	0	%100
35	M43	X	5.022	5.022	0	%100
36	M43	Z	0	0	0	%100
37	M44	X	5.022	5.022	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	2.868	2.868	0	%100
40	M45	Z	0	0	0	%100
41	M48	X	1.016	1.016	0	%100
42	M48	Z	0	0	0	%100
43	M49	X	.97	.97	0	%100
44	M49	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, %]
45	M50	X	.972	.972	0 %100
46	M50	Z	0	0	0 %100
47	M51	X	2.868	2.868	0 %100
48	M51	Z	0	0	0 %100
49	M54	X	4.043	4.043	0 %100
50	M54	Z	0	0	0 %100
51	M55	X	3.899	3.899	0 %100
52	M55	Z	0	0	0 %100
53	M56	X	3.905	3.905	0 %100
54	M56	Z	0	0	0 %100
55	M57	X	0	0	0 %100
56	M57	Z	0	0	0 %100
57	M70	X	2.261	2.261	0 %100
58	M70	Z	0	0	0 %100
59	MP2A	X	2.5	2.5	0 %100
60	MP2A	Z	0	0	0 %100
61	MP3A	X	2.752	2.752	0 %100
62	MP3A	Z	0	0	0 %100
63	MP4A	X	2.752	2.752	0 %100
64	MP4A	Z	0	0	0 %100
65	MP5A	X	2.752	2.752	0 %100
66	MP5A	Z	0	0	0 %100
67	MP1C	X	2.752	2.752	0 %100
68	MP1C	Z	0	0	0 %100
69	MP2C	X	2.752	2.752	0 %100
70	MP2C	Z	0	0	0 %100
71	MP3C	X	2.752	2.752	0 %100
72	MP3C	Z	0	0	0 %100
73	MP4C	X	2.752	2.752	0 %100
74	MP4C	Z	0	0	0 %100
75	MP1B	X	2.752	2.752	0 %100
76	MP1B	Z	0	0	0 %100
77	MP2B	X	2.752	2.752	0 %100
78	MP2B	Z	0	0	0 %100
79	MP3B	X	2.752	2.752	0 %100
80	MP3B	Z	0	0	0 %100
81	MP4B	X	2.752	2.752	0 %100
82	MP4B	Z	0	0	0 %100
83	M96	X	0	0	0 %100
84	M96	Z	0	0	0 %100
85	M93A	X	4.689	4.689	0 %100
86	M93A	Z	0	0	0 %100
87	M94	X	4.689	4.689	0 %100
88	M94	Z	0	0	0 %100
89	M95	X	0	0	0 %100
90	M95	Z	0	0	0 %100
91	M97	X	2.284	2.284	0 %100
92	M97	Z	0	0	0 %100
93	M98	X	2.284	2.284	0 %100
94	M98	Z	0	0	0 %100
95	M111	X	3.596	3.596	0 %100
96	M111	Z	0	0	0 %100
97	M112	X	3.041	3.041	0 %100
98	M112	Z	0	0	0 %100
99	M113	X	3.041	3.041	0 %100
100	M113	Z	0	0	0 %100
101	M120	X	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
102	M120	Z	0	0	0	%100
103	M121	X	2.4	2.4	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	2.4	2.4	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.739	.739	0	%100
2	M1	Z	.427	.427	0	%100
3	MP1A	X	2.383	2.383	0	%100
4	MP1A	Z	1.376	1.376	0	%100
5	M4	X	.739	.739	0	%100
6	M4	Z	.427	.427	0	%100
7	M5	X	2.955	2.955	0	%100
8	M5	Z	1.706	1.706	0	%100
9	M11	X	1.45	1.45	0	%100
10	M11	Z	.837	.837	0	%100
11	M12	X	1.45	1.45	0	%100
12	M12	Z	.837	.837	0	%100
13	M13	X	1.623	1.623	0	%100
14	M13	Z	.937	.937	0	%100
15	M14	X	2.622	2.622	0	%100
16	M14	Z	1.514	1.514	0	%100
17	M15	X	2.537	2.537	0	%100
18	M15	Z	1.464	1.464	0	%100
19	M16	X	2.541	2.541	0	%100
20	M16	Z	1.467	1.467	0	%100
21	M17	X	5.843	5.843	0	%100
22	M17	Z	3.374	3.374	0	%100
23	M18	X	1.307	1.307	0	%100
24	M18	Z	.755	.755	0	%100
25	M19	X	.242	.242	0	%100
26	M19	Z	.14	.14	0	%100
27	M25	X	1.027	1.027	0	%100
28	M25	Z	.593	.593	0	%100
29	M31	X	.272	.272	0	%100
30	M31	Z	.157	.157	0	%100
31	M39	X	1.45	1.45	0	%100
32	M39	Z	.837	.837	0	%100
33	M40	X	1.45	1.45	0	%100
34	M40	Z	.837	.837	0	%100
35	M43	X	5.799	5.799	0	%100
36	M43	Z	3.348	3.348	0	%100
37	M44	X	5.799	5.799	0	%100
38	M44	Z	3.348	3.348	0	%100
39	M45	X	.828	.828	0	%100
40	M45	Z	.478	.478	0	%100
41	M48	X	7e-6	7e-6	0	%100
42	M48	Z	4e-6	4e-6	0	%100
43	M49	X	6e-6	6e-6	0	%100
44	M49	Z	4e-6	4e-6	0	%100
45	M50	X	7e-6	7e-6	0	%100
46	M50	Z	4e-6	4e-6	0	%100
47	M51	X	3.312	3.312	0	%100
48	M51	Z	1.912	1.912	0	%100



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**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	M54	X	2.63	2.63	0	%100
50	M54	Z	1.518	1.518	0	%100
51	M55	X	2.529	2.529	0	%100
52	M55	Z	1.46	1.46	0	%100
53	M56	X	2.532	2.532	0	%100
54	M56	Z	1.462	1.462	0	%100
55	M57	X	.828	.828	0	%100
56	M57	Z	.478	.478	0	%100
57	M70	X	1.958	1.958	0	%100
58	M70	Z	1.131	1.131	0	%100
59	MP2A	X	2.165	2.165	0	%100
60	MP2A	Z	1.25	1.25	0	%100
61	MP3A	X	2.383	2.383	0	%100
62	MP3A	Z	1.376	1.376	0	%100
63	MP4A	X	2.383	2.383	0	%100
64	MP4A	Z	1.376	1.376	0	%100
65	MP5A	X	2.383	2.383	0	%100
66	MP5A	Z	1.376	1.376	0	%100
67	MP1C	X	2.383	2.383	0	%100
68	MP1C	Z	1.376	1.376	0	%100
69	MP2C	X	2.383	2.383	0	%100
70	MP2C	Z	1.376	1.376	0	%100
71	MP3C	X	2.383	2.383	0	%100
72	MP3C	Z	1.376	1.376	0	%100
73	MP4C	X	2.383	2.383	0	%100
74	MP4C	Z	1.376	1.376	0	%100
75	MP1B	X	2.383	2.383	0	%100
76	MP1B	Z	1.376	1.376	0	%100
77	MP2B	X	2.383	2.383	0	%100
78	MP2B	Z	1.376	1.376	0	%100
79	MP3B	X	2.383	2.383	0	%100
80	MP3B	Z	1.376	1.376	0	%100
81	MP4B	X	2.383	2.383	0	%100
82	MP4B	Z	1.376	1.376	0	%100
83	M96	X	1.354	1.354	0	%100
84	M96	Z	.782	.782	0	%100
85	M93A	X	1.354	1.354	0	%100
86	M93A	Z	.782	.782	0	%100
87	M94	X	5.414	5.414	0	%100
88	M94	Z	3.126	3.126	0	%100
89	M95	X	.659	.659	0	%100
90	M95	Z	.381	.381	0	%100
91	M97	X	.659	.659	0	%100
92	M97	Z	.381	.381	0	%100
93	M98	X	2.638	2.638	0	%100
94	M98	Z	1.523	1.523	0	%100
95	M111	X	2.954	2.954	0	%100
96	M111	Z	1.705	1.705	0	%100
97	M112	X	2.954	2.954	0	%100
98	M112	Z	1.705	1.705	0	%100
99	M113	X	2.473	2.473	0	%100
100	M113	Z	1.428	1.428	0	%100
101	M120	X	.693	.693	0	%100
102	M120	Z	.4	.4	0	%100
103	M121	X	.693	.693	0	%100
104	M121	Z	.4	.4	0	%100
105	M122	X	2.771	2.771	0	%100



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**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, %]
106	M122	Z	1.6	1.6	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.28	1.28	0	%100
2	M1	Z	2.217	2.217	0	%100
3	MP1A	X	1.376	1.376	0	%100
4	MP1A	Z	2.383	2.383	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	1.28	1.28	0	%100
8	M5	Z	2.217	2.217	0	%100
9	M11	X	2.511	2.511	0	%100
10	M11	Z	4.349	4.349	0	%100
11	M12	X	2.511	2.511	0	%100
12	M12	Z	4.349	4.349	0	%100
13	M13	X	.003	.003	0	%100
14	M13	Z	.006	.006	0	%100
15	M14	X	2.021	2.021	0	%100
16	M14	Z	3.501	3.501	0	%100
17	M15	X	1.95	1.95	0	%100
18	M15	Z	3.377	3.377	0	%100
19	M16	X	1.953	1.953	0	%100
20	M16	Z	3.382	3.382	0	%100
21	M17	X	2.622	2.622	0	%100
22	M17	Z	4.542	4.542	0	%100
23	M18	X	2.44	2.44	0	%100
24	M18	Z	4.226	4.226	0	%100
25	M19	X	.000176	.000176	0	%100
26	M19	Z	.000305	.000305	0	%100
27	M25	X	.436	.436	0	%100
28	M25	Z	.755	.755	0	%100
29	M31	X	.454	.454	0	%100
30	M31	Z	.786	.786	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	0	0	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	0	0	0	%100
35	M43	X	2.511	2.511	0	%100
36	M43	Z	4.349	4.349	0	%100
37	M44	X	2.511	2.511	0	%100
38	M44	Z	4.349	4.349	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	0	0	0	%100
41	M48	X	.503	.503	0	%100
42	M48	Z	.871	.871	0	%100
43	M49	X	.49	.49	0	%100
44	M49	Z	.848	.848	0	%100
45	M50	X	.49	.49	0	%100
46	M50	Z	.85	.85	0	%100
47	M51	X	1.434	1.434	0	%100
48	M51	Z	2.484	2.484	0	%100
49	M54	X	.508	.508	0	%100
50	M54	Z	.88	.88	0	%100
51	M55	X	.485	.485	0	%100
52	M55	Z	.84	.84	0	%100





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

Sept 7, 2021  
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**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, %]
53	M56	X	.486	.486	0 %100
54	M56	Z	.841	.841	0 %100
55	M57	X	1.434	1.434	0 %100
56	M57	Z	2.484	2.484	0 %100
57	M70	X	1.131	1.131	0 %100
58	M70	Z	1.958	1.958	0 %100
59	MP2A	X	1.25	1.25	0 %100
60	MP2A	Z	2.165	2.165	0 %100
61	MP3A	X	1.376	1.376	0 %100
62	MP3A	Z	2.383	2.383	0 %100
63	MP4A	X	1.376	1.376	0 %100
64	MP4A	Z	2.383	2.383	0 %100
65	MP5A	X	1.376	1.376	0 %100
66	MP5A	Z	2.383	2.383	0 %100
67	MP1C	X	1.376	1.376	0 %100
68	MP1C	Z	2.383	2.383	0 %100
69	MP2C	X	1.376	1.376	0 %100
70	MP2C	Z	2.383	2.383	0 %100
71	MP3C	X	1.376	1.376	0 %100
72	MP3C	Z	2.383	2.383	0 %100
73	MP4C	X	1.376	1.376	0 %100
74	MP4C	Z	2.383	2.383	0 %100
75	MP1B	X	1.376	1.376	0 %100
76	MP1B	Z	2.383	2.383	0 %100
77	MP2B	X	1.376	1.376	0 %100
78	MP2B	Z	2.383	2.383	0 %100
79	MP3B	X	1.376	1.376	0 %100
80	MP3B	Z	2.383	2.383	0 %100
81	MP4B	X	1.376	1.376	0 %100
82	MP4B	Z	2.383	2.383	0 %100
83	M96	X	2.345	2.345	0 %100
84	M96	Z	4.061	4.061	0 %100
85	M93A	X	0	0	0 %100
86	M93A	Z	0	0	0 %100
87	M94	X	2.345	2.345	0 %100
88	M94	Z	4.061	4.061	0 %100
89	M95	X	1.142	1.142	0 %100
90	M95	Z	1.978	1.978	0 %100
91	M97	X	0	0	0 %100
92	M97	Z	0	0	0 %100
93	M98	X	1.142	1.142	0 %100
94	M98	Z	1.978	1.978	0 %100
95	M111	X	1.52	1.52	0 %100
96	M111	Z	2.633	2.633	0 %100
97	M112	X	1.798	1.798	0 %100
98	M112	Z	3.114	3.114	0 %100
99	M113	X	1.52	1.52	0 %100
100	M113	Z	2.633	2.633	0 %100
101	M120	X	1.2	1.2	0 %100
102	M120	Z	2.079	2.079	0 %100
103	M121	X	0	0	0 %100
104	M121	Z	0	0	0 %100
105	M122	X	1.2	1.2	0 %100
106	M122	Z	2.079	2.079	0 %100

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



**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, %]
1	M1	X	0	0	0	%100
2	M1	Z	3.413	3.413	0	%100
3	MP1A	X	0	0	0	%100
4	MP1A	Z	2.752	2.752	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	.853	.853	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	.853	.853	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	6.696	6.696	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	6.696	6.696	0	%100
13	M13	X	0	0	0	%100
14	M13	Z	1.509	1.509	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	3.037	3.037	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	2.92	2.92	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	2.924	2.924	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	1.874	1.874	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	6.747	6.747	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	.314	.314	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	.279	.279	0	%100
29	M31	X	0	0	0	%100
30	M31	Z	1.186	1.186	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	1.674	1.674	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	1.674	1.674	0	%100
35	M43	X	0	0	0	%100
36	M43	Z	1.674	1.674	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	1.674	1.674	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	.956	.956	0	%100
41	M48	X	0	0	0	%100
42	M48	Z	3.027	3.027	0	%100
43	M49	X	0	0	0	%100
44	M49	Z	2.929	2.929	0	%100
45	M50	X	0	0	0	%100
46	M50	Z	2.934	2.934	0	%100
47	M51	X	0	0	0	%100
48	M51	Z	.956	.956	0	%100
49	M54	X	0	0	0	%100
50	M54	Z	8e-6	8e-6	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	7e-6	7e-6	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	8e-6	8e-6	0	%100
55	M57	X	0	0	0	%100
56	M57	Z	3.825	3.825	0	%100
57	M70	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.%]
58	M70	Z	2.261	2.261	0	%100
59	MP2A	X	0	0	0	%100
60	MP2A	Z	2.5	2.5	0	%100
61	MP3A	X	0	0	0	%100
62	MP3A	Z	2.752	2.752	0	%100
63	MP4A	X	0	0	0	%100
64	MP4A	Z	2.752	2.752	0	%100
65	MP5A	X	0	0	0	%100
66	MP5A	Z	2.752	2.752	0	%100
67	MP1C	X	0	0	0	%100
68	MP1C	Z	2.752	2.752	0	%100
69	MP2C	X	0	0	0	%100
70	MP2C	Z	2.752	2.752	0	%100
71	MP3C	X	0	0	0	%100
72	MP3C	Z	2.752	2.752	0	%100
73	MP4C	X	0	0	0	%100
74	MP4C	Z	2.752	2.752	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	2.752	2.752	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	2.752	2.752	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	2.752	2.752	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	2.752	2.752	0	%100
83	M96	X	0	0	0	%100
84	M96	Z	6.252	6.252	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	1.563	1.563	0	%100
87	M94	X	0	0	0	%100
88	M94	Z	1.563	1.563	0	%100
89	M95	X	0	0	0	%100
90	M95	Z	3.046	3.046	0	%100
91	M97	X	0	0	0	%100
92	M97	Z	.761	.761	0	%100
93	M98	X	0	0	0	%100
94	M98	Z	.761	.761	0	%100
95	M111	X	0	0	0	%100
96	M111	Z	2.856	2.856	0	%100
97	M112	X	0	0	0	%100
98	M112	Z	3.411	3.411	0	%100
99	M113	X	0	0	0	%100
100	M113	Z	3.411	3.411	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	3.2	3.2	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	.8	.8	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	.8	.8	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.28	-1.28	0	%100
2	M1	Z	2.217	2.217	0	%100
3	MP1A	X	-1.376	-1.376	0	%100
4	MP1A	Z	2.383	2.383	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

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**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, %]
5	M4	X	-1.28	-1.28	0 %100
6	M4	Z	2.217	2.217	0 %100
7	M5	X	0	0	0 %100
8	M5	Z	0	0	0 %100
9	M11	X	-2.511	-2.511	0 %100
10	M11	Z	4.349	4.349	0 %100
11	M12	X	-2.511	-2.511	0 %100
12	M12	Z	4.349	4.349	0 %100
13	M13	X	-2.44	-2.44	0 %100
14	M13	Z	4.226	4.226	0 %100
15	M14	X	-.508	-.508	0 %100
16	M14	Z	.88	.88	0 %100
17	M15	X	-.485	-.485	0 %100
18	M15	Z	.84	.84	0 %100
19	M16	X	-.486	-.486	0 %100
20	M16	Z	.841	.841	0 %100
21	M17	X	-.003	-.003	0 %100
22	M17	Z	.006	.006	0 %100
23	M18	X	-2.622	-2.622	0 %100
24	M18	Z	4.542	4.542	0 %100
25	M19	X	-.454	-.454	0 %100
26	M19	Z	.786	.786	0 %100
27	M25	X	-.000176	-.000176	0 %100
28	M25	Z	.000305	.000305	0 %100
29	M31	X	-.436	-.436	0 %100
30	M31	Z	.755	.755	0 %100
31	M39	X	-2.511	-2.511	0 %100
32	M39	Z	4.349	4.349	0 %100
33	M40	X	-2.511	-2.511	0 %100
34	M40	Z	4.349	4.349	0 %100
35	M43	X	0	0	0 %100
36	M43	Z	0	0	0 %100
37	M44	X	0	0	0 %100
38	M44	Z	0	0	0 %100
39	M45	X	-1.434	-1.434	0 %100
40	M45	Z	2.484	2.484	0 %100
41	M48	X	-2.021	-2.021	0 %100
42	M48	Z	3.501	3.501	0 %100
43	M49	X	-1.95	-1.95	0 %100
44	M49	Z	3.377	3.377	0 %100
45	M50	X	-1.953	-1.953	0 %100
46	M50	Z	3.382	3.382	0 %100
47	M51	X	0	0	0 %100
48	M51	Z	0	0	0 %100
49	M54	X	-.503	-.503	0 %100
50	M54	Z	.871	.871	0 %100
51	M55	X	-.49	-.49	0 %100
52	M55	Z	.848	.848	0 %100
53	M56	X	-.49	-.49	0 %100
54	M56	Z	.85	.85	0 %100
55	M57	X	-1.434	-1.434	0 %100
56	M57	Z	2.484	2.484	0 %100
57	M70	X	-1.131	-1.131	0 %100
58	M70	Z	1.958	1.958	0 %100
59	MP2A	X	-1.25	-1.25	0 %100
60	MP2A	Z	2.165	2.165	0 %100
61	MP3A	X	-1.376	-1.376	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.%]
62	MP3A	Z	2.383	2.383	0	%100
63	MP4A	X	-1.376	-1.376	0	%100
64	MP4A	Z	2.383	2.383	0	%100
65	MP5A	X	-1.376	-1.376	0	%100
66	MP5A	Z	2.383	2.383	0	%100
67	MP1C	X	-1.376	-1.376	0	%100
68	MP1C	Z	2.383	2.383	0	%100
69	MP2C	X	-1.376	-1.376	0	%100
70	MP2C	Z	2.383	2.383	0	%100
71	MP3C	X	-1.376	-1.376	0	%100
72	MP3C	Z	2.383	2.383	0	%100
73	MP4C	X	-1.376	-1.376	0	%100
74	MP4C	Z	2.383	2.383	0	%100
75	MP1B	X	-1.376	-1.376	0	%100
76	MP1B	Z	2.383	2.383	0	%100
77	MP2B	X	-1.376	-1.376	0	%100
78	MP2B	Z	2.383	2.383	0	%100
79	MP3B	X	-1.376	-1.376	0	%100
80	MP3B	Z	2.383	2.383	0	%100
81	MP4B	X	-1.376	-1.376	0	%100
82	MP4B	Z	2.383	2.383	0	%100
83	M96	X	-2.345	-2.345	0	%100
84	M96	Z	4.061	4.061	0	%100
85	M93A	X	-2.345	-2.345	0	%100
86	M93A	Z	4.061	4.061	0	%100
87	M94	X	0	0	0	%100
88	M94	Z	0	0	0	%100
89	M95	X	-1.142	-1.142	0	%100
90	M95	Z	1.978	1.978	0	%100
91	M97	X	-1.142	-1.142	0	%100
92	M97	Z	1.978	1.978	0	%100
93	M98	X	0	0	0	%100
94	M98	Z	0	0	0	%100
95	M111	X	-1.52	-1.52	0	%100
96	M111	Z	2.633	2.633	0	%100
97	M112	X	-1.52	-1.52	0	%100
98	M112	Z	2.633	2.633	0	%100
99	M113	X	-1.798	-1.798	0	%100
100	M113	Z	3.114	3.114	0	%100
101	M120	X	-1.2	-1.2	0	%100
102	M120	Z	2.079	2.079	0	%100
103	M121	X	-1.2	-1.2	0	%100
104	M121	Z	2.079	2.079	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.739	-.739	0	%100
2	M1	Z	.427	.427	0	%100
3	MP1A	X	-2.383	-2.383	0	%100
4	MP1A	Z	1.376	1.376	0	%100
5	M4	X	-2.955	-2.955	0	%100
6	M4	Z	1.706	1.706	0	%100
7	M5	X	-.739	-.739	0	%100
8	M5	Z	.427	.427	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, %]
9	M11	X	-1.45	-1.45	0	%100
10	M11	Z	.837	.837	0	%100
11	M12	X	-1.45	-1.45	0	%100
12	M12	Z	.837	.837	0	%100
13	M13	X	-5.843	-5.843	0	%100
14	M13	Z	3.374	3.374	0	%100
15	M14	X	-7e-6	-7e-6	0	%100
16	M14	Z	4e-6	4e-6	0	%100
17	M15	X	-6e-6	-6e-6	0	%100
18	M15	Z	4e-6	4e-6	0	%100
19	M16	X	-7e-6	-7e-6	0	%100
20	M16	Z	4e-6	4e-6	0	%100
21	M17	X	-1.307	-1.307	0	%100
22	M17	Z	.755	.755	0	%100
23	M18	X	-1.623	-1.623	0	%100
24	M18	Z	.937	.937	0	%100
25	M19	X	-1.027	-1.027	0	%100
26	M19	Z	.593	.593	0	%100
27	M25	X	-.272	-.272	0	%100
28	M25	Z	.157	.157	0	%100
29	M31	X	-.242	-.242	0	%100
30	M31	Z	.14	.14	0	%100
31	M39	X	-5.799	-5.799	0	%100
32	M39	Z	3.348	3.348	0	%100
33	M40	X	-5.799	-5.799	0	%100
34	M40	Z	3.348	3.348	0	%100
35	M43	X	-1.45	-1.45	0	%100
36	M43	Z	.837	.837	0	%100
37	M44	X	-1.45	-1.45	0	%100
38	M44	Z	.837	.837	0	%100
39	M45	X	-3.312	-3.312	0	%100
40	M45	Z	1.912	1.912	0	%100
41	M48	X	-2.63	-2.63	0	%100
42	M48	Z	1.518	1.518	0	%100
43	M49	X	-2.529	-2.529	0	%100
44	M49	Z	1.46	1.46	0	%100
45	M50	X	-2.532	-2.532	0	%100
46	M50	Z	1.462	1.462	0	%100
47	M51	X	-.828	-.828	0	%100
48	M51	Z	.478	.478	0	%100
49	M54	X	-2.622	-2.622	0	%100
50	M54	Z	1.514	1.514	0	%100
51	M55	X	-2.537	-2.537	0	%100
52	M55	Z	1.464	1.464	0	%100
53	M56	X	-2.541	-2.541	0	%100
54	M56	Z	1.467	1.467	0	%100
55	M57	X	-.828	-.828	0	%100
56	M57	Z	.478	.478	0	%100
57	M70	X	-1.958	-1.958	0	%100
58	M70	Z	1.131	1.131	0	%100
59	MP2A	X	-2.165	-2.165	0	%100
60	MP2A	Z	1.25	1.25	0	%100
61	MP3A	X	-2.383	-2.383	0	%100
62	MP3A	Z	1.376	1.376	0	%100
63	MP4A	X	-2.383	-2.383	0	%100
64	MP4A	Z	1.376	1.376	0	%100
65	MP5A	X	-2.383	-2.383	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, %]
66	MP5A	Z	1.376	1.376	0	%100
67	MP1C	X	-2.383	-2.383	0	%100
68	MP1C	Z	1.376	1.376	0	%100
69	MP2C	X	-2.383	-2.383	0	%100
70	MP2C	Z	1.376	1.376	0	%100
71	MP3C	X	-2.383	-2.383	0	%100
72	MP3C	Z	1.376	1.376	0	%100
73	MP4C	X	-2.383	-2.383	0	%100
74	MP4C	Z	1.376	1.376	0	%100
75	MP1B	X	-2.383	-2.383	0	%100
76	MP1B	Z	1.376	1.376	0	%100
77	MP2B	X	-2.383	-2.383	0	%100
78	MP2B	Z	1.376	1.376	0	%100
79	MP3B	X	-2.383	-2.383	0	%100
80	MP3B	Z	1.376	1.376	0	%100
81	MP4B	X	-2.383	-2.383	0	%100
82	MP4B	Z	1.376	1.376	0	%100
83	M96	X	-1.354	-1.354	0	%100
84	M96	Z	.782	.782	0	%100
85	M93A	X	-5.414	-5.414	0	%100
86	M93A	Z	3.126	3.126	0	%100
87	M94	X	-1.354	-1.354	0	%100
88	M94	Z	.782	.782	0	%100
89	M95	X	-.659	-.659	0	%100
90	M95	Z	.381	.381	0	%100
91	M97	X	-2.638	-2.638	0	%100
92	M97	Z	1.523	1.523	0	%100
93	M98	X	-.659	-.659	0	%100
94	M98	Z	.381	.381	0	%100
95	M111	X	-2.954	-2.954	0	%100
96	M111	Z	1.705	1.705	0	%100
97	M112	X	-2.473	-2.473	0	%100
98	M112	Z	1.428	1.428	0	%100
99	M113	X	-2.954	-2.954	0	%100
100	M113	Z	1.705	1.705	0	%100
101	M120	X	-.693	-.693	0	%100
102	M120	Z	.4	.4	0	%100
103	M121	X	-2.771	-2.771	0	%100
104	M121	Z	1.6	1.6	0	%100
105	M122	X	-.693	-.693	0	%100
106	M122	Z	.4	.4	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP1A	X	-2.752	-2.752	0	%100
4	MP1A	Z	0	0	0	%100
5	M4	X	-2.56	-2.56	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	-2.56	-2.56	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	0	0	0	%100
11	M12	X	0	0	0	%100
12	M12	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, %]
13	M13	X	-5.245	-5.245	0	%100
14	M13	Z	0	0	0	%100
15	M14	X	-1.006	-1.006	0	%100
16	M14	Z	0	0	0	%100
17	M15	X	-.979	-.979	0	%100
18	M15	Z	0	0	0	%100
19	M16	X	-.981	-.981	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	-4.88	-4.88	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	-.007	-.007	0	%100
24	M18	Z	0	0	0	%100
25	M19	X	-.872	-.872	0	%100
26	M19	Z	0	0	0	%100
27	M25	X	-.907	-.907	0	%100
28	M25	Z	0	0	0	%100
29	M31	X	-.000353	-.000353	0	%100
30	M31	Z	0	0	0	%100
31	M39	X	-5.022	-5.022	0	%100
32	M39	Z	0	0	0	%100
33	M40	X	-5.022	-5.022	0	%100
34	M40	Z	0	0	0	%100
35	M43	X	-5.022	-5.022	0	%100
36	M43	Z	0	0	0	%100
37	M44	X	-5.022	-5.022	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	-2.868	-2.868	0	%100
40	M45	Z	0	0	0	%100
41	M48	X	-1.016	-1.016	0	%100
42	M48	Z	0	0	0	%100
43	M49	X	-.97	-.97	0	%100
44	M49	Z	0	0	0	%100
45	M50	X	-.972	-.972	0	%100
46	M50	Z	0	0	0	%100
47	M51	X	-2.868	-2.868	0	%100
48	M51	Z	0	0	0	%100
49	M54	X	-4.043	-4.043	0	%100
50	M54	Z	0	0	0	%100
51	M55	X	-3.899	-3.899	0	%100
52	M55	Z	0	0	0	%100
53	M56	X	-3.905	-3.905	0	%100
54	M56	Z	0	0	0	%100
55	M57	X	0	0	0	%100
56	M57	Z	0	0	0	%100
57	M70	X	-2.261	-2.261	0	%100
58	M70	Z	0	0	0	%100
59	MP2A	X	-2.5	-2.5	0	%100
60	MP2A	Z	0	0	0	%100
61	MP3A	X	-2.752	-2.752	0	%100
62	MP3A	Z	0	0	0	%100
63	MP4A	X	-2.752	-2.752	0	%100
64	MP4A	Z	0	0	0	%100
65	MP5A	X	-2.752	-2.752	0	%100
66	MP5A	Z	0	0	0	%100
67	MP1C	X	-2.752	-2.752	0	%100
68	MP1C	Z	0	0	0	%100
69	MP2C	X	-2.752	-2.752	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, %]
70	MP2C	Z	0	0	0	%100
71	MP3C	X	-2.752	-2.752	0	%100
72	MP3C	Z	0	0	0	%100
73	MP4C	X	-2.752	-2.752	0	%100
74	MP4C	Z	0	0	0	%100
75	MP1B	X	-2.752	-2.752	0	%100
76	MP1B	Z	0	0	0	%100
77	MP2B	X	-2.752	-2.752	0	%100
78	MP2B	Z	0	0	0	%100
79	MP3B	X	-2.752	-2.752	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	-2.752	-2.752	0	%100
82	MP4B	Z	0	0	0	%100
83	M96	X	0	0	0	%100
84	M96	Z	0	0	0	%100
85	M93A	X	-4.689	-4.689	0	%100
86	M93A	Z	0	0	0	%100
87	M94	X	-4.689	-4.689	0	%100
88	M94	Z	0	0	0	%100
89	M95	X	0	0	0	%100
90	M95	Z	0	0	0	%100
91	M97	X	-2.284	-2.284	0	%100
92	M97	Z	0	0	0	%100
93	M98	X	-2.284	-2.284	0	%100
94	M98	Z	0	0	0	%100
95	M111	X	-3.596	-3.596	0	%100
96	M111	Z	0	0	0	%100
97	M112	X	-3.041	-3.041	0	%100
98	M112	Z	0	0	0	%100
99	M113	X	-3.041	-3.041	0	%100
100	M113	Z	0	0	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	0	0	0	%100
103	M121	X	-2.4	-2.4	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	-2.4	-2.4	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-0.739	-0.739	0	%100
2	M1	Z	-0.427	-0.427	0	%100
3	MP1A	X	-2.383	-2.383	0	%100
4	MP1A	Z	-1.376	-1.376	0	%100
5	M4	X	-0.739	-0.739	0	%100
6	M4	Z	-0.427	-0.427	0	%100
7	M5	X	-2.955	-2.955	0	%100
8	M5	Z	-1.706	-1.706	0	%100
9	M11	X	-1.45	-1.45	0	%100
10	M11	Z	-0.837	-0.837	0	%100
11	M12	X	-1.45	-1.45	0	%100
12	M12	Z	-0.837	-0.837	0	%100
13	M13	X	-1.623	-1.623	0	%100
14	M13	Z	-0.937	-0.937	0	%100
15	M14	X	-2.622	-2.622	0	%100
16	M14	Z	-1.514	-1.514	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, %]
17	M15	X	-2.537	-2.537	0 %100
18	M15	Z	-1.464	-1.464	0 %100
19	M16	X	-2.541	-2.541	0 %100
20	M16	Z	-1.467	-1.467	0 %100
21	M17	X	-5.843	-5.843	0 %100
22	M17	Z	-3.374	-3.374	0 %100
23	M18	X	-1.307	-1.307	0 %100
24	M18	Z	-.755	-.755	0 %100
25	M19	X	-.242	-.242	0 %100
26	M19	Z	-.14	-.14	0 %100
27	M25	X	-1.027	-1.027	0 %100
28	M25	Z	-.593	-.593	0 %100
29	M31	X	-.272	-.272	0 %100
30	M31	Z	-.157	-.157	0 %100
31	M39	X	-1.45	-1.45	0 %100
32	M39	Z	-.837	-.837	0 %100
33	M40	X	-1.45	-1.45	0 %100
34	M40	Z	-.837	-.837	0 %100
35	M43	X	-5.799	-5.799	0 %100
36	M43	Z	-3.348	-3.348	0 %100
37	M44	X	-5.799	-5.799	0 %100
38	M44	Z	-3.348	-3.348	0 %100
39	M45	X	-.828	-.828	0 %100
40	M45	Z	-.478	-.478	0 %100
41	M48	X	-7e-6	-7e-6	0 %100
42	M48	Z	-4e-6	-4e-6	0 %100
43	M49	X	-6e-6	-6e-6	0 %100
44	M49	Z	-4e-6	-4e-6	0 %100
45	M50	X	-7e-6	-7e-6	0 %100
46	M50	Z	-4e-6	-4e-6	0 %100
47	M51	X	-3.312	-3.312	0 %100
48	M51	Z	-1.912	-1.912	0 %100
49	M54	X	-2.63	-2.63	0 %100
50	M54	Z	-1.518	-1.518	0 %100
51	M55	X	-2.529	-2.529	0 %100
52	M55	Z	-1.46	-1.46	0 %100
53	M56	X	-2.532	-2.532	0 %100
54	M56	Z	-1.462	-1.462	0 %100
55	M57	X	-.828	-.828	0 %100
56	M57	Z	-.478	-.478	0 %100
57	M70	X	-1.958	-1.958	0 %100
58	M70	Z	-1.131	-1.131	0 %100
59	MP2A	X	-2.165	-2.165	0 %100
60	MP2A	Z	-1.25	-1.25	0 %100
61	MP3A	X	-2.383	-2.383	0 %100
62	MP3A	Z	-1.376	-1.376	0 %100
63	MP4A	X	-2.383	-2.383	0 %100
64	MP4A	Z	-1.376	-1.376	0 %100
65	MP5A	X	-2.383	-2.383	0 %100
66	MP5A	Z	-1.376	-1.376	0 %100
67	MP1C	X	-2.383	-2.383	0 %100
68	MP1C	Z	-1.376	-1.376	0 %100
69	MP2C	X	-2.383	-2.383	0 %100
70	MP2C	Z	-1.376	-1.376	0 %100
71	MP3C	X	-2.383	-2.383	0 %100
72	MP3C	Z	-1.376	-1.376	0 %100
73	MP4C	X	-2.383	-2.383	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, %]
74	MP4C	Z	-1.376	-1.376	0 %100
75	MP1B	X	-2.383	-2.383	0 %100
76	MP1B	Z	-1.376	-1.376	0 %100
77	MP2B	X	-2.383	-2.383	0 %100
78	MP2B	Z	-1.376	-1.376	0 %100
79	MP3B	X	-2.383	-2.383	0 %100
80	MP3B	Z	-1.376	-1.376	0 %100
81	MP4B	X	-2.383	-2.383	0 %100
82	MP4B	Z	-1.376	-1.376	0 %100
83	M96	X	-1.354	-1.354	0 %100
84	M96	Z	-.782	-.782	0 %100
85	M93A	X	-1.354	-1.354	0 %100
86	M93A	Z	-.782	-.782	0 %100
87	M94	X	-5.414	-5.414	0 %100
88	M94	Z	-3.126	-3.126	0 %100
89	M95	X	-.659	-.659	0 %100
90	M95	Z	-.381	-.381	0 %100
91	M97	X	-.659	-.659	0 %100
92	M97	Z	-.381	-.381	0 %100
93	M98	X	-2.638	-2.638	0 %100
94	M98	Z	-1.523	-1.523	0 %100
95	M111	X	-2.954	-2.954	0 %100
96	M111	Z	-1.705	-1.705	0 %100
97	M112	X	-2.954	-2.954	0 %100
98	M112	Z	-1.705	-1.705	0 %100
99	M113	X	-2.473	-2.473	0 %100
100	M113	Z	-1.428	-1.428	0 %100
101	M120	X	-.693	-.693	0 %100
102	M120	Z	-.4	-.4	0 %100
103	M121	X	-.693	-.693	0 %100
104	M121	Z	-.4	-.4	0 %100
105	M122	X	-2.771	-2.771	0 %100
106	M122	Z	-1.6	-1.6	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.28	-1.28	0 %100
2	M1	Z	-2.217	-2.217	0 %100
3	MP1A	X	-1.376	-1.376	0 %100
4	MP1A	Z	-2.383	-2.383	0 %100
5	M4	X	0	0	0 %100
6	M4	Z	0	0	0 %100
7	M5	X	-1.28	-1.28	0 %100
8	M5	Z	-2.217	-2.217	0 %100
9	M11	X	-2.511	-2.511	0 %100
10	M11	Z	-4.349	-4.349	0 %100
11	M12	X	-2.511	-2.511	0 %100
12	M12	Z	-4.349	-4.349	0 %100
13	M13	X	-.003	-.003	0 %100
14	M13	Z	-.006	-.006	0 %100
15	M14	X	-2.021	-2.021	0 %100
16	M14	Z	-3.501	-3.501	0 %100
17	M15	X	-1.95	-1.95	0 %100
18	M15	Z	-3.377	-3.377	0 %100
19	M16	X	-1.953	-1.953	0 %100
20	M16	Z	-3.382	-3.382	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, %]
21	M17	X	-2.622	-2.622	0 %100
22	M17	Z	-4.542	-4.542	0 %100
23	M18	X	-2.44	-2.44	0 %100
24	M18	Z	-4.226	-4.226	0 %100
25	M19	X	-.000176	-.000176	0 %100
26	M19	Z	-.000305	-.000305	0 %100
27	M25	X	-.436	-.436	0 %100
28	M25	Z	-.755	-.755	0 %100
29	M31	X	-.454	-.454	0 %100
30	M31	Z	-.786	-.786	0 %100
31	M39	X	0	0	0 %100
32	M39	Z	0	0	0 %100
33	M40	X	0	0	0 %100
34	M40	Z	0	0	0 %100
35	M43	X	-2.511	-2.511	0 %100
36	M43	Z	-4.349	-4.349	0 %100
37	M44	X	-2.511	-2.511	0 %100
38	M44	Z	-4.349	-4.349	0 %100
39	M45	X	0	0	0 %100
40	M45	Z	0	0	0 %100
41	M48	X	-.503	-.503	0 %100
42	M48	Z	-.871	-.871	0 %100
43	M49	X	-.49	-.49	0 %100
44	M49	Z	-.848	-.848	0 %100
45	M50	X	-.49	-.49	0 %100
46	M50	Z	-.85	-.85	0 %100
47	M51	X	-1.434	-1.434	0 %100
48	M51	Z	-2.484	-2.484	0 %100
49	M54	X	-.508	-.508	0 %100
50	M54	Z	-.88	-.88	0 %100
51	M55	X	-.485	-.485	0 %100
52	M55	Z	-.84	-.84	0 %100
53	M56	X	-.486	-.486	0 %100
54	M56	Z	-.841	-.841	0 %100
55	M57	X	-1.434	-1.434	0 %100
56	M57	Z	-2.484	-2.484	0 %100
57	M70	X	-1.131	-1.131	0 %100
58	M70	Z	-1.958	-1.958	0 %100
59	MP2A	X	-1.25	-1.25	0 %100
60	MP2A	Z	-2.165	-2.165	0 %100
61	MP3A	X	-1.376	-1.376	0 %100
62	MP3A	Z	-2.383	-2.383	0 %100
63	MP4A	X	-1.376	-1.376	0 %100
64	MP4A	Z	-2.383	-2.383	0 %100
65	MP5A	X	-1.376	-1.376	0 %100
66	MP5A	Z	-2.383	-2.383	0 %100
67	MP1C	X	-1.376	-1.376	0 %100
68	MP1C	Z	-2.383	-2.383	0 %100
69	MP2C	X	-1.376	-1.376	0 %100
70	MP2C	Z	-2.383	-2.383	0 %100
71	MP3C	X	-1.376	-1.376	0 %100
72	MP3C	Z	-2.383	-2.383	0 %100
73	MP4C	X	-1.376	-1.376	0 %100
74	MP4C	Z	-2.383	-2.383	0 %100
75	MP1B	X	-1.376	-1.376	0 %100
76	MP1B	Z	-2.383	-2.383	0 %100
77	MP2B	X	-1.376	-1.376	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.%]
78	MP2B	Z	-2.383	-2.383	0	%100
79	MP3B	X	-1.376	-1.376	0	%100
80	MP3B	Z	-2.383	-2.383	0	%100
81	MP4B	X	-1.376	-1.376	0	%100
82	MP4B	Z	-2.383	-2.383	0	%100
83	M96	X	-2.345	-2.345	0	%100
84	M96	Z	-4.061	-4.061	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M94	X	-2.345	-2.345	0	%100
88	M94	Z	-4.061	-4.061	0	%100
89	M95	X	-1.142	-1.142	0	%100
90	M95	Z	-1.978	-1.978	0	%100
91	M97	X	0	0	0	%100
92	M97	Z	0	0	0	%100
93	M98	X	-1.142	-1.142	0	%100
94	M98	Z	-1.978	-1.978	0	%100
95	M111	X	-1.52	-1.52	0	%100
96	M111	Z	-2.633	-2.633	0	%100
97	M112	X	-1.798	-1.798	0	%100
98	M112	Z	-3.114	-3.114	0	%100
99	M113	X	-1.52	-1.52	0	%100
100	M113	Z	-2.633	-2.633	0	%100
101	M120	X	-1.2	-1.2	0	%100
102	M120	Z	-2.079	-2.079	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	-1.2	-1.2	0	%100
106	M122	Z	-2.079	-2.079	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	-.74	-.74	0	%100
3	MP1A	X	0	0	0	%100
4	MP1A	Z	-.502	-.502	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	-.185	-.185	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	-.185	-.185	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	-2.115	-2.115	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	-2.115	-2.115	0	%100
13	M13	X	0	0	0	%100
14	M13	Z	-.473	-.473	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	-.726	-.726	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	-.698	-.698	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-.699	-.699	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	-.587	-.587	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-2.113	-2.113	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, %]	
25	M19	X	0	0	0	%100
26	M19	Z	-.028	-.028	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-.025	-.025	0	%100
29	M31	X	0	0	0	%100
30	M31	Z	-.106	-.106	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	-.529	-.529	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	-.529	-.529	0	%100
35	M43	X	0	0	0	%100
36	M43	Z	-.529	-.529	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	-.529	-.529	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	-.222	-.222	0	%100
41	M48	X	0	0	0	%100
42	M48	Z	-.724	-.724	0	%100
43	M49	X	0	0	0	%100
44	M49	Z	-.7	-.7	0	%100
45	M50	X	0	0	0	%100
46	M50	Z	-.701	-.701	0	%100
47	M51	X	0	0	0	%100
48	M51	Z	-.222	-.222	0	%100
49	M54	X	0	0	0	%100
50	M54	Z	-2e-6	-2e-6	0	%100
51	M55	X	0	0	0	%100
52	M55	Z	-2e-6	-2e-6	0	%100
53	M56	X	0	0	0	%100
54	M56	Z	-2e-6	-2e-6	0	%100
55	M57	X	0	0	0	%100
56	M57	Z	-.888	-.888	0	%100
57	M70	X	0	0	0	%100
58	M70	Z	-.411	-.411	0	%100
59	MP2A	X	0	0	0	%100
60	MP2A	Z	-.454	-.454	0	%100
61	MP3A	X	0	0	0	%100
62	MP3A	Z	-.502	-.502	0	%100
63	MP4A	X	0	0	0	%100
64	MP4A	Z	-.502	-.502	0	%100
65	MP5A	X	0	0	0	%100
66	MP5A	Z	-.502	-.502	0	%100
67	MP1C	X	0	0	0	%100
68	MP1C	Z	-.502	-.502	0	%100
69	MP2C	X	0	0	0	%100
70	MP2C	Z	-.502	-.502	0	%100
71	MP3C	X	0	0	0	%100
72	MP3C	Z	-.502	-.502	0	%100
73	MP4C	X	0	0	0	%100
74	MP4C	Z	-.502	-.502	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	-.502	-.502	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	-.502	-.502	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	-.502	-.502	0	%100
81	MP4B	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, %]
82	MP4B	Z	-.502	-.502	0	%100
83	M96	X	0	0	0	%100
84	M96	Z	-1.762	-1.762	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	-.441	-.441	0	%100
87	M94	X	0	0	0	%100
88	M94	Z	-.441	-.441	0	%100
89	M95	X	0	0	0	%100
90	M95	Z	-.608	-.608	0	%100
91	M97	X	0	0	0	%100
92	M97	Z	-.152	-.152	0	%100
93	M98	X	0	0	0	%100
94	M98	Z	-.152	-.152	0	%100
95	M111	X	0	0	0	%100
96	M111	Z	-.814	-.814	0	%100
97	M112	X	0	0	0	%100
98	M112	Z	-.853	-.853	0	%100
99	M113	X	0	0	0	%100
100	M113	Z	-.853	-.853	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	-.781	-.781	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	-.195	-.195	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	-.195	-.195	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.278	.278	0	%100
2	M1	Z	-.481	-.481	0	%100
3	MP1A	X	.251	.251	0	%100
4	MP1A	Z	-.435	-.435	0	%100
5	M4	X	.278	.278	0	%100
6	M4	Z	-.481	-.481	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	.793	.793	0	%100
10	M11	Z	-1.374	-1.374	0	%100
11	M12	X	.793	.793	0	%100
12	M12	Z	-1.374	-1.374	0	%100
13	M13	X	.764	.764	0	%100
14	M13	Z	-1.323	-1.323	0	%100
15	M14	X	.121	.121	0	%100
16	M14	Z	-.21	-.21	0	%100
17	M15	X	.116	.116	0	%100
18	M15	Z	-.201	-.201	0	%100
19	M16	X	.116	.116	0	%100
20	M16	Z	-.201	-.201	0	%100
21	M17	X	.001	.001	0	%100
22	M17	Z	-.002	-.002	0	%100
23	M18	X	.821	.821	0	%100
24	M18	Z	-1.422	-1.422	0	%100
25	M19	X	.04	.04	0	%100
26	M19	Z	-.07	-.07	0	%100
27	M25	X	1.6e-5	1.6e-5	0	%100
28	M25	Z	-2.7e-5	-2.7e-5	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, %]
29	M31	X	.039	.039	0	%100
30	M31	Z	-.067	-.067	0	%100
31	M39	X	.793	.793	0	%100
32	M39	Z	-1.374	-1.374	0	%100
33	M40	X	.793	.793	0	%100
34	M40	Z	-1.374	-1.374	0	%100
35	M43	X	0	0	0	%100
36	M43	Z	0	0	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	0	0	0	%100
39	M45	X	.333	.333	0	%100
40	M45	Z	-.577	-.577	0	%100
41	M48	X	.483	.483	0	%100
42	M48	Z	-.837	-.837	0	%100
43	M49	X	.466	.466	0	%100
44	M49	Z	-.807	-.807	0	%100
45	M50	X	.466	.466	0	%100
46	M50	Z	-.808	-.808	0	%100
47	M51	X	0	0	0	%100
48	M51	Z	0	0	0	%100
49	M54	X	.12	.12	0	%100
50	M54	Z	-.208	-.208	0	%100
51	M55	X	.117	.117	0	%100
52	M55	Z	-.203	-.203	0	%100
53	M56	X	.117	.117	0	%100
54	M56	Z	-.203	-.203	0	%100
55	M57	X	.333	.333	0	%100
56	M57	Z	-.577	-.577	0	%100
57	M70	X	.205	.205	0	%100
58	M70	Z	-.356	-.356	0	%100
59	MP2A	X	.227	.227	0	%100
60	MP2A	Z	-.393	-.393	0	%100
61	MP3A	X	.251	.251	0	%100
62	MP3A	Z	-.435	-.435	0	%100
63	MP4A	X	.251	.251	0	%100
64	MP4A	Z	-.435	-.435	0	%100
65	MP5A	X	.251	.251	0	%100
66	MP5A	Z	-.435	-.435	0	%100
67	MP1C	X	.251	.251	0	%100
68	MP1C	Z	-.435	-.435	0	%100
69	MP2C	X	.251	.251	0	%100
70	MP2C	Z	-.435	-.435	0	%100
71	MP3C	X	.251	.251	0	%100
72	MP3C	Z	-.435	-.435	0	%100
73	MP4C	X	.251	.251	0	%100
74	MP4C	Z	-.435	-.435	0	%100
75	MP1B	X	.251	.251	0	%100
76	MP1B	Z	-.435	-.435	0	%100
77	MP2B	X	.251	.251	0	%100
78	MP2B	Z	-.435	-.435	0	%100
79	MP3B	X	.251	.251	0	%100
80	MP3B	Z	-.435	-.435	0	%100
81	MP4B	X	.251	.251	0	%100
82	MP4B	Z	-.435	-.435	0	%100
83	M96	X	.661	.661	0	%100
84	M96	Z	-1.145	-1.145	0	%100
85	M93A	X	.661	.661	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, %]
86	M93A	Z	-1.145	-1.145	0	%100
87	M94	X	0	0	0	%100
88	M94	Z	0	0	0	%100
89	M95	X	.228	.228	0	%100
90	M95	Z	-.395	-.395	0	%100
91	M97	X	.228	.228	0	%100
92	M97	Z	-.395	-.395	0	%100
93	M98	X	0	0	0	%100
94	M98	Z	0	0	0	%100
95	M111	X	.413	.413	0	%100
96	M111	Z	-.716	-.716	0	%100
97	M112	X	.413	.413	0	%100
98	M112	Z	-.716	-.716	0	%100
99	M113	X	.433	.433	0	%100
100	M113	Z	-.75	-.75	0	%100
101	M120	X	.293	.293	0	%100
102	M120	Z	-.507	-.507	0	%100
103	M121	X	.293	.293	0	%100
104	M121	Z	-.507	-.507	0	%100
105	M122	X	0	0	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.16	.16	0	%100
2	M1	Z	-.093	-.093	0	%100
3	MP1A	X	.435	.435	0	%100
4	MP1A	Z	-.251	-.251	0	%100
5	M4	X	.641	.641	0	%100
6	M4	Z	-.37	-.37	0	%100
7	M5	X	.16	.16	0	%100
8	M5	Z	-.093	-.093	0	%100
9	M11	X	.458	.458	0	%100
10	M11	Z	-.264	-.264	0	%100
11	M12	X	.458	.458	0	%100
12	M12	Z	-.264	-.264	0	%100
13	M13	X	1.83	1.83	0	%100
14	M13	Z	-1.056	-1.056	0	%100
15	M14	X	2e-6	2e-6	0	%100
16	M14	Z	-1e-6	-1e-6	0	%100
17	M15	X	1e-6	1e-6	0	%100
18	M15	Z	-1e-6	-1e-6	0	%100
19	M16	X	2e-6	2e-6	0	%100
20	M16	Z	-1e-6	-1e-6	0	%100
21	M17	X	.409	.409	0	%100
22	M17	Z	-.236	-.236	0	%100
23	M18	X	.508	.508	0	%100
24	M18	Z	-.293	-.293	0	%100
25	M19	X	.092	.092	0	%100
26	M19	Z	-.053	-.053	0	%100
27	M25	X	.024	.024	0	%100
28	M25	Z	-.014	-.014	0	%100
29	M31	X	.022	.022	0	%100
30	M31	Z	-.012	-.012	0	%100
31	M39	X	1.832	1.832	0	%100
32	M39	Z	-1.057	-1.057	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, %]
33	M40	X	1.832	1.832	0 %100
34	M40	Z	-1.057	-1.057	0 %100
35	M43	X	.458	.458	0 %100
36	M43	Z	-.264	-.264	0 %100
37	M44	X	.458	.458	0 %100
38	M44	Z	-.264	-.264	0 %100
39	M45	X	.769	.769	0 %100
40	M45	Z	-.444	-.444	0 %100
41	M48	X	.629	.629	0 %100
42	M48	Z	-.363	-.363	0 %100
43	M49	X	.604	.604	0 %100
44	M49	Z	-.349	-.349	0 %100
45	M50	X	.605	.605	0 %100
46	M50	Z	-.349	-.349	0 %100
47	M51	X	.192	.192	0 %100
48	M51	Z	-.111	-.111	0 %100
49	M54	X	.627	.627	0 %100
50	M54	Z	-.362	-.362	0 %100
51	M55	X	.606	.606	0 %100
52	M55	Z	-.35	-.35	0 %100
53	M56	X	.607	.607	0 %100
54	M56	Z	-.35	-.35	0 %100
55	M57	X	.192	.192	0 %100
56	M57	Z	-.111	-.111	0 %100
57	M70	X	.356	.356	0 %100
58	M70	Z	-.205	-.205	0 %100
59	MP2A	X	.393	.393	0 %100
60	MP2A	Z	-.227	-.227	0 %100
61	MP3A	X	.435	.435	0 %100
62	MP3A	Z	-.251	-.251	0 %100
63	MP4A	X	.435	.435	0 %100
64	MP4A	Z	-.251	-.251	0 %100
65	MP5A	X	.435	.435	0 %100
66	MP5A	Z	-.251	-.251	0 %100
67	MP1C	X	.435	.435	0 %100
68	MP1C	Z	-.251	-.251	0 %100
69	MP2C	X	.435	.435	0 %100
70	MP2C	Z	-.251	-.251	0 %100
71	MP3C	X	.435	.435	0 %100
72	MP3C	Z	-.251	-.251	0 %100
73	MP4C	X	.435	.435	0 %100
74	MP4C	Z	-.251	-.251	0 %100
75	MP1B	X	.435	.435	0 %100
76	MP1B	Z	-.251	-.251	0 %100
77	MP2B	X	.435	.435	0 %100
78	MP2B	Z	-.251	-.251	0 %100
79	MP3B	X	.435	.435	0 %100
80	MP3B	Z	-.251	-.251	0 %100
81	MP4B	X	.435	.435	0 %100
82	MP4B	Z	-.251	-.251	0 %100
83	M96	X	.382	.382	0 %100
84	M96	Z	-.22	-.22	0 %100
85	M93A	X	1.526	1.526	0 %100
86	M93A	Z	-.881	-.881	0 %100
87	M94	X	.382	.382	0 %100
88	M94	Z	-.22	-.22	0 %100
89	M95	X	.132	.132	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, %]
90	M95	Z	-.076	-.076	0	%100
91	M97	X	.527	.527	0	%100
92	M97	Z	-.304	-.304	0	%100
93	M98	X	.132	.132	0	%100
94	M98	Z	-.076	-.076	0	%100
95	M111	X	.739	.739	0	%100
96	M111	Z	-.427	-.427	0	%100
97	M112	X	.705	.705	0	%100
98	M112	Z	-.407	-.407	0	%100
99	M113	X	.739	.739	0	%100
100	M113	Z	-.427	-.427	0	%100
101	M120	X	.169	.169	0	%100
102	M120	Z	-.098	-.098	0	%100
103	M121	X	.676	.676	0	%100
104	M121	Z	-.39	-.39	0	%100
105	M122	X	.169	.169	0	%100
106	M122	Z	-.098	-.098	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP1A	X	.502	.502	0	%100
4	MP1A	Z	0	0	0	%100
5	M4	X	.555	.555	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	.555	.555	0	%100
8	M5	Z	0	0	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	0	0	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	0	0	0	%100
13	M13	X	1.642	1.642	0	%100
14	M13	Z	0	0	0	%100
15	M14	X	.241	.241	0	%100
16	M14	Z	0	0	0	%100
17	M15	X	.234	.234	0	%100
18	M15	Z	0	0	0	%100
19	M16	X	.234	.234	0	%100
20	M16	Z	0	0	0	%100
21	M17	X	1.528	1.528	0	%100
22	M17	Z	0	0	0	%100
23	M18	X	.002	.002	0	%100
24	M18	Z	0	0	0	%100
25	M19	X	.078	.078	0	%100
26	M19	Z	0	0	0	%100
27	M25	X	.081	.081	0	%100
28	M25	Z	0	0	0	%100
29	M31	X	3.1e-5	3.1e-5	0	%100
30	M31	Z	0	0	0	%100
31	M39	X	1.586	1.586	0	%100
32	M39	Z	0	0	0	%100
33	M40	X	1.586	1.586	0	%100
34	M40	Z	0	0	0	%100
35	M43	X	1.586	1.586	0	%100
36	M43	Z	0	0	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, %]
37	M44	X	1.586	1.586	0 %100
38	M44	Z	0	0	0 %100
39	M45	X	.666	.666	0 %100
40	M45	Z	0	0	0 %100
41	M48	X	.243	.243	0 %100
42	M48	Z	0	0	0 %100
43	M49	X	.232	.232	0 %100
44	M49	Z	0	0	0 %100
45	M50	X	.232	.232	0 %100
46	M50	Z	0	0	0 %100
47	M51	X	.666	.666	0 %100
48	M51	Z	0	0	0 %100
49	M54	X	.967	.967	0 %100
50	M54	Z	0	0	0 %100
51	M55	X	.932	.932	0 %100
52	M55	Z	0	0	0 %100
53	M56	X	.933	.933	0 %100
54	M56	Z	0	0	0 %100
55	M57	X	0	0	0 %100
56	M57	Z	0	0	0 %100
57	M70	X	.411	.411	0 %100
58	M70	Z	0	0	0 %100
59	MP2A	X	.454	.454	0 %100
60	MP2A	Z	0	0	0 %100
61	MP3A	X	.502	.502	0 %100
62	MP3A	Z	0	0	0 %100
63	MP4A	X	.502	.502	0 %100
64	MP4A	Z	0	0	0 %100
65	MP5A	X	.502	.502	0 %100
66	MP5A	Z	0	0	0 %100
67	MP1C	X	.502	.502	0 %100
68	MP1C	Z	0	0	0 %100
69	MP2C	X	.502	.502	0 %100
70	MP2C	Z	0	0	0 %100
71	MP3C	X	.502	.502	0 %100
72	MP3C	Z	0	0	0 %100
73	MP4C	X	.502	.502	0 %100
74	MP4C	Z	0	0	0 %100
75	MP1B	X	.502	.502	0 %100
76	MP1B	Z	0	0	0 %100
77	MP2B	X	.502	.502	0 %100
78	MP2B	Z	0	0	0 %100
79	MP3B	X	.502	.502	0 %100
80	MP3B	Z	0	0	0 %100
81	MP4B	X	.502	.502	0 %100
82	MP4B	Z	0	0	0 %100
83	M96	X	0	0	0 %100
84	M96	Z	0	0	0 %100
85	M93A	X	1.322	1.322	0 %100
86	M93A	Z	0	0	0 %100
87	M94	X	1.322	1.322	0 %100
88	M94	Z	0	0	0 %100
89	M95	X	0	0	0 %100
90	M95	Z	0	0	0 %100
91	M97	X	.456	.456	0 %100
92	M97	Z	0	0	0 %100
93	M98	X	.456	.456	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.%]
94	M98	Z	0	0	0	%100
95	M111	X	.866	.866	0	%100
96	M111	Z	0	0	0	%100
97	M112	X	.827	.827	0	%100
98	M112	Z	0	0	0	%100
99	M113	X	.827	.827	0	%100
100	M113	Z	0	0	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	0	0	0	%100
103	M121	X	.585	.585	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	.585	.585	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.16	.16	0	%100
2	M1	Z	.093	.093	0	%100
3	MP1A	X	.435	.435	0	%100
4	MP1A	Z	.251	.251	0	%100
5	M4	X	.16	.16	0	%100
6	M4	Z	.093	.093	0	%100
7	M5	X	.641	.641	0	%100
8	M5	Z	.37	.37	0	%100
9	M11	X	.458	.458	0	%100
10	M11	Z	.264	.264	0	%100
11	M12	X	.458	.458	0	%100
12	M12	Z	.264	.264	0	%100
13	M13	X	.508	.508	0	%100
14	M13	Z	.293	.293	0	%100
15	M14	X	.627	.627	0	%100
16	M14	Z	.362	.362	0	%100
17	M15	X	.606	.606	0	%100
18	M15	Z	.35	.35	0	%100
19	M16	X	.607	.607	0	%100
20	M16	Z	.35	.35	0	%100
21	M17	X	1.83	1.83	0	%100
22	M17	Z	1.056	1.056	0	%100
23	M18	X	.409	.409	0	%100
24	M18	Z	.236	.236	0	%100
25	M19	X	.022	.022	0	%100
26	M19	Z	.012	.012	0	%100
27	M25	X	.092	.092	0	%100
28	M25	Z	.053	.053	0	%100
29	M31	X	.024	.024	0	%100
30	M31	Z	.014	.014	0	%100
31	M39	X	.458	.458	0	%100
32	M39	Z	.264	.264	0	%100
33	M40	X	.458	.458	0	%100
34	M40	Z	.264	.264	0	%100
35	M43	X	1.832	1.832	0	%100
36	M43	Z	1.057	1.057	0	%100
37	M44	X	1.832	1.832	0	%100
38	M44	Z	1.057	1.057	0	%100
39	M45	X	.192	.192	0	%100
40	M45	Z	.111	.111	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, %]
41	M48	X	2e-6	2e-6	0 %100
42	M48	Z	1e-6	1e-6	0 %100
43	M49	X	1e-6	1e-6	0 %100
44	M49	Z	1e-6	1e-6	0 %100
45	M50	X	2e-6	2e-6	0 %100
46	M50	Z	1e-6	1e-6	0 %100
47	M51	X	.769	.769	0 %100
48	M51	Z	.444	.444	0 %100
49	M54	X	.629	.629	0 %100
50	M54	Z	.363	.363	0 %100
51	M55	X	.604	.604	0 %100
52	M55	Z	.349	.349	0 %100
53	M56	X	.605	.605	0 %100
54	M56	Z	.349	.349	0 %100
55	M57	X	.192	.192	0 %100
56	M57	Z	.111	.111	0 %100
57	M70	X	.356	.356	0 %100
58	M70	Z	.205	.205	0 %100
59	MP2A	X	.393	.393	0 %100
60	MP2A	Z	.227	.227	0 %100
61	MP3A	X	.435	.435	0 %100
62	MP3A	Z	.251	.251	0 %100
63	MP4A	X	.435	.435	0 %100
64	MP4A	Z	.251	.251	0 %100
65	MP5A	X	.435	.435	0 %100
66	MP5A	Z	.251	.251	0 %100
67	MP1C	X	.435	.435	0 %100
68	MP1C	Z	.251	.251	0 %100
69	MP2C	X	.435	.435	0 %100
70	MP2C	Z	.251	.251	0 %100
71	MP3C	X	.435	.435	0 %100
72	MP3C	Z	.251	.251	0 %100
73	MP4C	X	.435	.435	0 %100
74	MP4C	Z	.251	.251	0 %100
75	MP1B	X	.435	.435	0 %100
76	MP1B	Z	.251	.251	0 %100
77	MP2B	X	.435	.435	0 %100
78	MP2B	Z	.251	.251	0 %100
79	MP3B	X	.435	.435	0 %100
80	MP3B	Z	.251	.251	0 %100
81	MP4B	X	.435	.435	0 %100
82	MP4B	Z	.251	.251	0 %100
83	M96	X	.382	.382	0 %100
84	M96	Z	.22	.22	0 %100
85	M93A	X	.382	.382	0 %100
86	M93A	Z	.22	.22	0 %100
87	M94	X	1.526	1.526	0 %100
88	M94	Z	.881	.881	0 %100
89	M95	X	.132	.132	0 %100
90	M95	Z	.076	.076	0 %100
91	M97	X	.132	.132	0 %100
92	M97	Z	.076	.076	0 %100
93	M98	X	.527	.527	0 %100
94	M98	Z	.304	.304	0 %100
95	M111	X	.739	.739	0 %100
96	M111	Z	.427	.427	0 %100
97	M112	X	.739	.739	0 %100



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 Designer :  
 Job Number :  
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**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.%]
98	M112	Z	.427	.427	0	%100
99	M113	X	.705	.705	0	%100
100	M113	Z	.407	.407	0	%100
101	M120	X	.169	.169	0	%100
102	M120	Z	.098	.098	0	%100
103	M121	X	.169	.169	0	%100
104	M121	Z	.098	.098	0	%100
105	M122	X	.676	.676	0	%100
106	M122	Z	.39	.39	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.278	.278	0	%100
2	M1	Z	.481	.481	0	%100
3	MP1A	X	.251	.251	0	%100
4	MP1A	Z	.435	.435	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	.278	.278	0	%100
8	M5	Z	.481	.481	0	%100
9	M11	X	.793	.793	0	%100
10	M11	Z	1.374	1.374	0	%100
11	M12	X	.793	.793	0	%100
12	M12	Z	1.374	1.374	0	%100
13	M13	X	.001	.001	0	%100
14	M13	Z	.002	.002	0	%100
15	M14	X	.483	.483	0	%100
16	M14	Z	.837	.837	0	%100
17	M15	X	.466	.466	0	%100
18	M15	Z	.807	.807	0	%100
19	M16	X	.466	.466	0	%100
20	M16	Z	.808	.808	0	%100
21	M17	X	.821	.821	0	%100
22	M17	Z	1.422	1.422	0	%100
23	M18	X	.764	.764	0	%100
24	M18	Z	1.323	1.323	0	%100
25	M19	X	1.6e-5	1.6e-5	0	%100
26	M19	Z	2.7e-5	2.7e-5	0	%100
27	M25	X	.039	.039	0	%100
28	M25	Z	.067	.067	0	%100
29	M31	X	.04	.04	0	%100
30	M31	Z	.07	.07	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	0	0	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	0	0	0	%100
35	M43	X	.793	.793	0	%100
36	M43	Z	1.374	1.374	0	%100
37	M44	X	.793	.793	0	%100
38	M44	Z	1.374	1.374	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	0	0	0	%100
41	M48	X	.12	.12	0	%100
42	M48	Z	.208	.208	0	%100
43	M49	X	.117	.117	0	%100
44	M49	Z	.203	.203	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, %]
45	M50	X	.117	.117	0 %100
46	M50	Z	.203	.203	0 %100
47	M51	X	.333	.333	0 %100
48	M51	Z	.577	.577	0 %100
49	M54	X	.121	.121	0 %100
50	M54	Z	.21	.21	0 %100
51	M55	X	.116	.116	0 %100
52	M55	Z	.201	.201	0 %100
53	M56	X	.116	.116	0 %100
54	M56	Z	.201	.201	0 %100
55	M57	X	.333	.333	0 %100
56	M57	Z	.577	.577	0 %100
57	M70	X	.205	.205	0 %100
58	M70	Z	.356	.356	0 %100
59	MP2A	X	.227	.227	0 %100
60	MP2A	Z	.393	.393	0 %100
61	MP3A	X	.251	.251	0 %100
62	MP3A	Z	.435	.435	0 %100
63	MP4A	X	.251	.251	0 %100
64	MP4A	Z	.435	.435	0 %100
65	MP5A	X	.251	.251	0 %100
66	MP5A	Z	.435	.435	0 %100
67	MP1C	X	.251	.251	0 %100
68	MP1C	Z	.435	.435	0 %100
69	MP2C	X	.251	.251	0 %100
70	MP2C	Z	.435	.435	0 %100
71	MP3C	X	.251	.251	0 %100
72	MP3C	Z	.435	.435	0 %100
73	MP4C	X	.251	.251	0 %100
74	MP4C	Z	.435	.435	0 %100
75	MP1B	X	.251	.251	0 %100
76	MP1B	Z	.435	.435	0 %100
77	MP2B	X	.251	.251	0 %100
78	MP2B	Z	.435	.435	0 %100
79	MP3B	X	.251	.251	0 %100
80	MP3B	Z	.435	.435	0 %100
81	MP4B	X	.251	.251	0 %100
82	MP4B	Z	.435	.435	0 %100
83	M96	X	.661	.661	0 %100
84	M96	Z	1.145	1.145	0 %100
85	M93A	X	0	0	0 %100
86	M93A	Z	0	0	0 %100
87	M94	X	.661	.661	0 %100
88	M94	Z	1.145	1.145	0 %100
89	M95	X	.228	.228	0 %100
90	M95	Z	.395	.395	0 %100
91	M97	X	0	0	0 %100
92	M97	Z	0	0	0 %100
93	M98	X	.228	.228	0 %100
94	M98	Z	.395	.395	0 %100
95	M111	X	.413	.413	0 %100
96	M111	Z	.716	.716	0 %100
97	M112	X	.433	.433	0 %100
98	M112	Z	.75	.75	0 %100
99	M113	X	.413	.413	0 %100
100	M113	Z	.716	.716	0 %100
101	M120	X	.293	.293	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,%]
102	M120	Z	.507	.507	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	.293	.293	0	%100
106	M122	Z	.507	.507	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.74	.74	0	%100
3	MP1A	X	0	0	0	%100
4	MP1A	Z	.502	.502	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	.185	.185	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	.185	.185	0	%100
9	M11	X	0	0	0	%100
10	M11	Z	2.115	2.115	0	%100
11	M12	X	0	0	0	%100
12	M12	Z	2.115	2.115	0	%100
13	M13	X	0	0	0	%100
14	M13	Z	.473	.473	0	%100
15	M14	X	0	0	0	%100
16	M14	Z	.726	.726	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	.698	.698	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	.699	.699	0	%100
21	M17	X	0	0	0	%100
22	M17	Z	.587	.587	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	2.113	2.113	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	.028	.028	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	.025	.025	0	%100
29	M31	X	0	0	0	%100
30	M31	Z	.106	.106	0	%100
31	M39	X	0	0	0	%100
32	M39	Z	.529	.529	0	%100
33	M40	X	0	0	0	%100
34	M40	Z	.529	.529	0	%100
35	M43	X	0	0	0	%100
36	M43	Z	.529	.529	0	%100
37	M44	X	0	0	0	%100
38	M44	Z	.529	.529	0	%100
39	M45	X	0	0	0	%100
40	M45	Z	.222	.222	0	%100
41	M48	X	0	0	0	%100
42	M48	Z	.724	.724	0	%100
43	M49	X	0	0	0	%100
44	M49	Z	.7	.7	0	%100
45	M50	X	0	0	0	%100
46	M50	Z	.701	.701	0	%100
47	M51	X	0	0	0	%100
48	M51	Z	.222	.222	0	%100



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 Designer :  
 Job Number :  
 Model Name : 468414-VZW\_MT\_LO\_H

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**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, %]
49	M54	X	0	0	%100
50	M54	Z	2e-6	2e-6	%100
51	M55	X	0	0	%100
52	M55	Z	2e-6	2e-6	%100
53	M56	X	0	0	%100
54	M56	Z	2e-6	2e-6	%100
55	M57	X	0	0	%100
56	M57	Z	.888	.888	%100
57	M70	X	0	0	%100
58	M70	Z	.411	.411	%100
59	MP2A	X	0	0	%100
60	MP2A	Z	.454	.454	%100
61	MP3A	X	0	0	%100
62	MP3A	Z	.502	.502	%100
63	MP4A	X	0	0	%100
64	MP4A	Z	.502	.502	%100
65	MP5A	X	0	0	%100
66	MP5A	Z	.502	.502	%100
67	MP1C	X	0	0	%100
68	MP1C	Z	.502	.502	%100
69	MP2C	X	0	0	%100
70	MP2C	Z	.502	.502	%100
71	MP3C	X	0	0	%100
72	MP3C	Z	.502	.502	%100
73	MP4C	X	0	0	%100
74	MP4C	Z	.502	.502	%100
75	MP1B	X	0	0	%100
76	MP1B	Z	.502	.502	%100
77	MP2B	X	0	0	%100
78	MP2B	Z	.502	.502	%100
79	MP3B	X	0	0	%100
80	MP3B	Z	.502	.502	%100
81	MP4B	X	0	0	%100
82	MP4B	Z	.502	.502	%100
83	M96	X	0	0	%100
84	M96	Z	1.762	1.762	%100
85	M93A	X	0	0	%100
86	M93A	Z	.441	.441	%100
87	M94	X	0	0	%100
88	M94	Z	.441	.441	%100
89	M95	X	0	0	%100
90	M95	Z	.608	.608	%100
91	M97	X	0	0	%100
92	M97	Z	.152	.152	%100
93	M98	X	0	0	%100
94	M98	Z	.152	.152	%100
95	M111	X	0	0	%100
96	M111	Z	.814	.814	%100
97	M112	X	0	0	%100
98	M112	Z	.853	.853	%100
99	M113	X	0	0	%100
100	M113	Z	.853	.853	%100
101	M120	X	0	0	%100
102	M120	Z	.781	.781	%100
103	M121	X	0	0	%100
104	M121	Z	.195	.195	%100
105	M122	X	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, %]
106	M122	Z	.195	.195	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.278	-.278	0 %100
2	M1	Z	.481	.481	0 %100
3	MP1A	X	-.251	-.251	0 %100
4	MP1A	Z	.435	.435	0 %100
5	M4	X	-.278	-.278	0 %100
6	M4	Z	.481	.481	0 %100
7	M5	X	0	0	0 %100
8	M5	Z	0	0	0 %100
9	M11	X	-.793	-.793	0 %100
10	M11	Z	1.374	1.374	0 %100
11	M12	X	-.793	-.793	0 %100
12	M12	Z	1.374	1.374	0 %100
13	M13	X	-.764	-.764	0 %100
14	M13	Z	1.323	1.323	0 %100
15	M14	X	-.121	-.121	0 %100
16	M14	Z	.21	.21	0 %100
17	M15	X	-.116	-.116	0 %100
18	M15	Z	.201	.201	0 %100
19	M16	X	-.116	-.116	0 %100
20	M16	Z	.201	.201	0 %100
21	M17	X	-.001	-.001	0 %100
22	M17	Z	.002	.002	0 %100
23	M18	X	-.821	-.821	0 %100
24	M18	Z	1.422	1.422	0 %100
25	M19	X	-.04	-.04	0 %100
26	M19	Z	.07	.07	0 %100
27	M25	X	-1.6e-5	-1.6e-5	0 %100
28	M25	Z	2.7e-5	2.7e-5	0 %100
29	M31	X	-.039	-.039	0 %100
30	M31	Z	.067	.067	0 %100
31	M39	X	-.793	-.793	0 %100
32	M39	Z	1.374	1.374	0 %100
33	M40	X	-.793	-.793	0 %100
34	M40	Z	1.374	1.374	0 %100
35	M43	X	0	0	0 %100
36	M43	Z	0	0	0 %100
37	M44	X	0	0	0 %100
38	M44	Z	0	0	0 %100
39	M45	X	-.333	-.333	0 %100
40	M45	Z	.577	.577	0 %100
41	M48	X	-.483	-.483	0 %100
42	M48	Z	.837	.837	0 %100
43	M49	X	-.466	-.466	0 %100
44	M49	Z	.807	.807	0 %100
45	M50	X	-.466	-.466	0 %100
46	M50	Z	.808	.808	0 %100
47	M51	X	0	0	0 %100
48	M51	Z	0	0	0 %100
49	M54	X	-.12	-.12	0 %100
50	M54	Z	.208	.208	0 %100
51	M55	X	-.117	-.117	0 %100
52	M55	Z	.203	.203	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, %]
53	M56	X	-.117	-.117	0 %100
54	M56	Z	.203	.203	0 %100
55	M57	X	-.333	-.333	0 %100
56	M57	Z	.577	.577	0 %100
57	M70	X	-.205	-.205	0 %100
58	M70	Z	.356	.356	0 %100
59	MP2A	X	-.227	-.227	0 %100
60	MP2A	Z	.393	.393	0 %100
61	MP3A	X	-.251	-.251	0 %100
62	MP3A	Z	.435	.435	0 %100
63	MP4A	X	-.251	-.251	0 %100
64	MP4A	Z	.435	.435	0 %100
65	MP5A	X	-.251	-.251	0 %100
66	MP5A	Z	.435	.435	0 %100
67	MP1C	X	-.251	-.251	0 %100
68	MP1C	Z	.435	.435	0 %100
69	MP2C	X	-.251	-.251	0 %100
70	MP2C	Z	.435	.435	0 %100
71	MP3C	X	-.251	-.251	0 %100
72	MP3C	Z	.435	.435	0 %100
73	MP4C	X	-.251	-.251	0 %100
74	MP4C	Z	.435	.435	0 %100
75	MP1B	X	-.251	-.251	0 %100
76	MP1B	Z	.435	.435	0 %100
77	MP2B	X	-.251	-.251	0 %100
78	MP2B	Z	.435	.435	0 %100
79	MP3B	X	-.251	-.251	0 %100
80	MP3B	Z	.435	.435	0 %100
81	MP4B	X	-.251	-.251	0 %100
82	MP4B	Z	.435	.435	0 %100
83	M96	X	-.661	-.661	0 %100
84	M96	Z	1.145	1.145	0 %100
85	M93A	X	-.661	-.661	0 %100
86	M93A	Z	1.145	1.145	0 %100
87	M94	X	0	0	0 %100
88	M94	Z	0	0	0 %100
89	M95	X	-.228	-.228	0 %100
90	M95	Z	.395	.395	0 %100
91	M97	X	-.228	-.228	0 %100
92	M97	Z	.395	.395	0 %100
93	M98	X	0	0	0 %100
94	M98	Z	0	0	0 %100
95	M111	X	-.413	-.413	0 %100
96	M111	Z	.716	.716	0 %100
97	M112	X	-.413	-.413	0 %100
98	M112	Z	.716	.716	0 %100
99	M113	X	-.433	-.433	0 %100
100	M113	Z	.75	.75	0 %100
101	M120	X	-.293	-.293	0 %100
102	M120	Z	.507	.507	0 %100
103	M121	X	-.293	-.293	0 %100
104	M121	Z	.507	.507	0 %100
105	M122	X	0	0	0 %100
106	M122	Z	0	0	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, %]
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**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, %]
1	M1	X	-.16	-.16	0	%100
2	M1	Z	.093	.093	0	%100
3	MP1A	X	-.435	-.435	0	%100
4	MP1A	Z	.251	.251	0	%100
5	M4	X	-.641	-.641	0	%100
6	M4	Z	.37	.37	0	%100
7	M5	X	-.16	-.16	0	%100
8	M5	Z	.093	.093	0	%100
9	M11	X	-.458	-.458	0	%100
10	M11	Z	.264	.264	0	%100
11	M12	X	-.458	-.458	0	%100
12	M12	Z	.264	.264	0	%100
13	M13	X	-1.83	-1.83	0	%100
14	M13	Z	1.056	1.056	0	%100
15	M14	X	-2e-6	-2e-6	0	%100
16	M14	Z	1e-6	1e-6	0	%100
17	M15	X	-1e-6	-1e-6	0	%100
18	M15	Z	1e-6	1e-6	0	%100
19	M16	X	-2e-6	-2e-6	0	%100
20	M16	Z	1e-6	1e-6	0	%100
21	M17	X	-.409	-.409	0	%100
22	M17	Z	.236	.236	0	%100
23	M18	X	-.508	-.508	0	%100
24	M18	Z	.293	.293	0	%100
25	M19	X	-.092	-.092	0	%100
26	M19	Z	.053	.053	0	%100
27	M25	X	-.024	-.024	0	%100
28	M25	Z	.014	.014	0	%100
29	M31	X	-.022	-.022	0	%100
30	M31	Z	.012	.012	0	%100
31	M39	X	-1.832	-1.832	0	%100
32	M39	Z	1.057	1.057	0	%100
33	M40	X	-1.832	-1.832	0	%100
34	M40	Z	1.057	1.057	0	%100
35	M43	X	-.458	-.458	0	%100
36	M43	Z	.264	.264	0	%100
37	M44	X	-.458	-.458	0	%100
38	M44	Z	.264	.264	0	%100
39	M45	X	-.769	-.769	0	%100
40	M45	Z	.444	.444	0	%100
41	M48	X	-.629	-.629	0	%100
42	M48	Z	.363	.363	0	%100
43	M49	X	-.604	-.604	0	%100
44	M49	Z	.349	.349	0	%100
45	M50	X	-.605	-.605	0	%100
46	M50	Z	.349	.349	0	%100
47	M51	X	-.192	-.192	0	%100
48	M51	Z	.111	.111	0	%100
49	M54	X	-.627	-.627	0	%100
50	M54	Z	.362	.362	0	%100
51	M55	X	-.606	-.606	0	%100
52	M55	Z	.35	.35	0	%100
53	M56	X	-.607	-.607	0	%100
54	M56	Z	.35	.35	0	%100
55	M57	X	-.192	-.192	0	%100
56	M57	Z	.111	.111	0	%100
57	M70	X	-.356	-.356	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, %]
58	M70	Z	.205	.205	0	%100
59	MP2A	X	-.393	-.393	0	%100
60	MP2A	Z	.227	.227	0	%100
61	MP3A	X	-.435	-.435	0	%100
62	MP3A	Z	.251	.251	0	%100
63	MP4A	X	-.435	-.435	0	%100
64	MP4A	Z	.251	.251	0	%100
65	MP5A	X	-.435	-.435	0	%100
66	MP5A	Z	.251	.251	0	%100
67	MP1C	X	-.435	-.435	0	%100
68	MP1C	Z	.251	.251	0	%100
69	MP2C	X	-.435	-.435	0	%100
70	MP2C	Z	.251	.251	0	%100
71	MP3C	X	-.435	-.435	0	%100
72	MP3C	Z	.251	.251	0	%100
73	MP4C	X	-.435	-.435	0	%100
74	MP4C	Z	.251	.251	0	%100
75	MP1B	X	-.435	-.435	0	%100
76	MP1B	Z	.251	.251	0	%100
77	MP2B	X	-.435	-.435	0	%100
78	MP2B	Z	.251	.251	0	%100
79	MP3B	X	-.435	-.435	0	%100
80	MP3B	Z	.251	.251	0	%100
81	MP4B	X	-.435	-.435	0	%100
82	MP4B	Z	.251	.251	0	%100
83	M96	X	-.382	-.382	0	%100
84	M96	Z	.22	.22	0	%100
85	M93A	X	-1.526	-1.526	0	%100
86	M93A	Z	.881	.881	0	%100
87	M94	X	-.382	-.382	0	%100
88	M94	Z	.22	.22	0	%100
89	M95	X	-.132	-.132	0	%100
90	M95	Z	.076	.076	0	%100
91	M97	X	-.527	-.527	0	%100
92	M97	Z	.304	.304	0	%100
93	M98	X	-.132	-.132	0	%100
94	M98	Z	.076	.076	0	%100
95	M111	X	-.739	-.739	0	%100
96	M111	Z	.427	.427	0	%100
97	M112	X	-.705	-.705	0	%100
98	M112	Z	.407	.407	0	%100
99	M113	X	-.739	-.739	0	%100
100	M113	Z	.427	.427	0	%100
101	M120	X	-.169	-.169	0	%100
102	M120	Z	.098	.098	0	%100
103	M121	X	-.676	-.676	0	%100
104	M121	Z	.39	.39	0	%100
105	M122	X	-.169	-.169	0	%100
106	M122	Z	.098	.098	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP1A	X	-.502	-.502	0	%100
4	MP1A	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, %]
5	M4	X	-0.555	-0.555	0 %100
6	M4	Z	0	0	0 %100
7	M5	X	-0.555	-0.555	0 %100
8	M5	Z	0	0	0 %100
9	M11	X	0	0	0 %100
10	M11	Z	0	0	0 %100
11	M12	X	0	0	0 %100
12	M12	Z	0	0	0 %100
13	M13	X	-1.642	-1.642	0 %100
14	M13	Z	0	0	0 %100
15	M14	X	-0.241	-0.241	0 %100
16	M14	Z	0	0	0 %100
17	M15	X	-0.234	-0.234	0 %100
18	M15	Z	0	0	0 %100
19	M16	X	-0.234	-0.234	0 %100
20	M16	Z	0	0	0 %100
21	M17	X	-1.528	-1.528	0 %100
22	M17	Z	0	0	0 %100
23	M18	X	-0.002	-0.002	0 %100
24	M18	Z	0	0	0 %100
25	M19	X	-0.078	-0.078	0 %100
26	M19	Z	0	0	0 %100
27	M25	X	-0.081	-0.081	0 %100
28	M25	Z	0	0	0 %100
29	M31	X	-3.1e-5	-3.1e-5	0 %100
30	M31	Z	0	0	0 %100
31	M39	X	-1.586	-1.586	0 %100
32	M39	Z	0	0	0 %100
33	M40	X	-1.586	-1.586	0 %100
34	M40	Z	0	0	0 %100
35	M43	X	-1.586	-1.586	0 %100
36	M43	Z	0	0	0 %100
37	M44	X	-1.586	-1.586	0 %100
38	M44	Z	0	0	0 %100
39	M45	X	-0.666	-0.666	0 %100
40	M45	Z	0	0	0 %100
41	M48	X	-0.243	-0.243	0 %100
42	M48	Z	0	0	0 %100
43	M49	X	-0.232	-0.232	0 %100
44	M49	Z	0	0	0 %100
45	M50	X	-0.232	-0.232	0 %100
46	M50	Z	0	0	0 %100
47	M51	X	-0.666	-0.666	0 %100
48	M51	Z	0	0	0 %100
49	M54	X	-0.967	-0.967	0 %100
50	M54	Z	0	0	0 %100
51	M55	X	-0.932	-0.932	0 %100
52	M55	Z	0	0	0 %100
53	M56	X	-0.933	-0.933	0 %100
54	M56	Z	0	0	0 %100
55	M57	X	0	0	0 %100
56	M57	Z	0	0	0 %100
57	M70	X	-0.411	-0.411	0 %100
58	M70	Z	0	0	0 %100
59	MP2A	X	-0.454	-0.454	0 %100
60	MP2A	Z	0	0	0 %100
61	MP3A	X	-0.502	-0.502	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, %]
62	MP3A	Z	0	0	0	%100
63	MP4A	X	-502	-502	0	%100
64	MP4A	Z	0	0	0	%100
65	MP5A	X	-502	-502	0	%100
66	MP5A	Z	0	0	0	%100
67	MP1C	X	-502	-502	0	%100
68	MP1C	Z	0	0	0	%100
69	MP2C	X	-502	-502	0	%100
70	MP2C	Z	0	0	0	%100
71	MP3C	X	-502	-502	0	%100
72	MP3C	Z	0	0	0	%100
73	MP4C	X	-502	-502	0	%100
74	MP4C	Z	0	0	0	%100
75	MP1B	X	-502	-502	0	%100
76	MP1B	Z	0	0	0	%100
77	MP2B	X	-502	-502	0	%100
78	MP2B	Z	0	0	0	%100
79	MP3B	X	-502	-502	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	-502	-502	0	%100
82	MP4B	Z	0	0	0	%100
83	M96	X	0	0	0	%100
84	M96	Z	0	0	0	%100
85	M93A	X	-1.322	-1.322	0	%100
86	M93A	Z	0	0	0	%100
87	M94	X	-1.322	-1.322	0	%100
88	M94	Z	0	0	0	%100
89	M95	X	0	0	0	%100
90	M95	Z	0	0	0	%100
91	M97	X	-456	-456	0	%100
92	M97	Z	0	0	0	%100
93	M98	X	-456	-456	0	%100
94	M98	Z	0	0	0	%100
95	M111	X	-866	-866	0	%100
96	M111	Z	0	0	0	%100
97	M112	X	-827	-827	0	%100
98	M112	Z	0	0	0	%100
99	M113	X	-827	-827	0	%100
100	M113	Z	0	0	0	%100
101	M120	X	0	0	0	%100
102	M120	Z	0	0	0	%100
103	M121	X	-585	-585	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	-585	-585	0	%100
106	M122	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.16	-.16	0	%100
2	M1	Z	-.093	-.093	0	%100
3	MP1A	X	-.435	-.435	0	%100
4	MP1A	Z	-.251	-.251	0	%100
5	M4	X	-.16	-.16	0	%100
6	M4	Z	-.093	-.093	0	%100
7	M5	X	-.641	-.641	0	%100
8	M5	Z	-.37	-.37	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, %]
9	M11	X	-.458	-.458	0	%100
10	M11	Z	-.264	-.264	0	%100
11	M12	X	-.458	-.458	0	%100
12	M12	Z	-.264	-.264	0	%100
13	M13	X	-.508	-.508	0	%100
14	M13	Z	-.293	-.293	0	%100
15	M14	X	-.627	-.627	0	%100
16	M14	Z	-.362	-.362	0	%100
17	M15	X	-.606	-.606	0	%100
18	M15	Z	-.35	-.35	0	%100
19	M16	X	-.607	-.607	0	%100
20	M16	Z	-.35	-.35	0	%100
21	M17	X	-1.83	-1.83	0	%100
22	M17	Z	-1.056	-1.056	0	%100
23	M18	X	-.409	-.409	0	%100
24	M18	Z	-.236	-.236	0	%100
25	M19	X	-.022	-.022	0	%100
26	M19	Z	-.012	-.012	0	%100
27	M25	X	-.092	-.092	0	%100
28	M25	Z	-.053	-.053	0	%100
29	M31	X	-.024	-.024	0	%100
30	M31	Z	-.014	-.014	0	%100
31	M39	X	-.458	-.458	0	%100
32	M39	Z	-.264	-.264	0	%100
33	M40	X	-.458	-.458	0	%100
34	M40	Z	-.264	-.264	0	%100
35	M43	X	-1.832	-1.832	0	%100
36	M43	Z	-1.057	-1.057	0	%100
37	M44	X	-1.832	-1.832	0	%100
38	M44	Z	-1.057	-1.057	0	%100
39	M45	X	-.192	-.192	0	%100
40	M45	Z	-.111	-.111	0	%100
41	M48	X	-2e-6	-2e-6	0	%100
42	M48	Z	-1e-6	-1e-6	0	%100
43	M49	X	-1e-6	-1e-6	0	%100
44	M49	Z	-1e-6	-1e-6	0	%100
45	M50	X	-2e-6	-2e-6	0	%100
46	M50	Z	-1e-6	-1e-6	0	%100
47	M51	X	-.769	-.769	0	%100
48	M51	Z	-.444	-.444	0	%100
49	M54	X	-.629	-.629	0	%100
50	M54	Z	-.363	-.363	0	%100
51	M55	X	-.604	-.604	0	%100
52	M55	Z	-.349	-.349	0	%100
53	M56	X	-.605	-.605	0	%100
54	M56	Z	-.349	-.349	0	%100
55	M57	X	-.192	-.192	0	%100
56	M57	Z	-.111	-.111	0	%100
57	M70	X	-.356	-.356	0	%100
58	M70	Z	-.205	-.205	0	%100
59	MP2A	X	-.393	-.393	0	%100
60	MP2A	Z	-.227	-.227	0	%100
61	MP3A	X	-.435	-.435	0	%100
62	MP3A	Z	-.251	-.251	0	%100
63	MP4A	X	-.435	-.435	0	%100
64	MP4A	Z	-.251	-.251	0	%100
65	MP5A	X	-.435	-.435	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, %]
66	MP5A	Z	-251	-251	0 %100
67	MP1C	X	-435	-435	0 %100
68	MP1C	Z	-251	-251	0 %100
69	MP2C	X	-435	-435	0 %100
70	MP2C	Z	-251	-251	0 %100
71	MP3C	X	-435	-435	0 %100
72	MP3C	Z	-251	-251	0 %100
73	MP4C	X	-435	-435	0 %100
74	MP4C	Z	-251	-251	0 %100
75	MP1B	X	-435	-435	0 %100
76	MP1B	Z	-251	-251	0 %100
77	MP2B	X	-435	-435	0 %100
78	MP2B	Z	-251	-251	0 %100
79	MP3B	X	-435	-435	0 %100
80	MP3B	Z	-251	-251	0 %100
81	MP4B	X	-435	-435	0 %100
82	MP4B	Z	-251	-251	0 %100
83	M96	X	-382	-382	0 %100
84	M96	Z	-22	-22	0 %100
85	M93A	X	-382	-382	0 %100
86	M93A	Z	-22	-22	0 %100
87	M94	X	-1.526	-1.526	0 %100
88	M94	Z	-.881	-.881	0 %100
89	M95	X	-.132	-.132	0 %100
90	M95	Z	-.076	-.076	0 %100
91	M97	X	-.132	-.132	0 %100
92	M97	Z	-.076	-.076	0 %100
93	M98	X	-.527	-.527	0 %100
94	M98	Z	-.304	-.304	0 %100
95	M111	X	-.739	-.739	0 %100
96	M111	Z	-.427	-.427	0 %100
97	M112	X	-.739	-.739	0 %100
98	M112	Z	-.427	-.427	0 %100
99	M113	X	-.705	-.705	0 %100
100	M113	Z	-.407	-.407	0 %100
101	M120	X	-.169	-.169	0 %100
102	M120	Z	-.098	-.098	0 %100
103	M121	X	-.169	-.169	0 %100
104	M121	Z	-.098	-.098	0 %100
105	M122	X	-.676	-.676	0 %100
106	M122	Z	-.39	-.39	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.278	-.278	0 %100
2	M1	Z	-.481	-.481	0 %100
3	MP1A	X	-251	-251	0 %100
4	MP1A	Z	-435	-435	0 %100
5	M4	X	0	0	0 %100
6	M4	Z	0	0	0 %100
7	M5	X	-.278	-.278	0 %100
8	M5	Z	-.481	-.481	0 %100
9	M11	X	-.793	-.793	0 %100
10	M11	Z	-1.374	-1.374	0 %100
11	M12	X	-.793	-.793	0 %100
12	M12	Z	-1.374	-1.374	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, %]
13	M13	X	-0.001	-0.001	0 %100
14	M13	Z	-0.002	-0.002	0 %100
15	M14	X	-0.483	-0.483	0 %100
16	M14	Z	-0.837	-0.837	0 %100
17	M15	X	-0.466	-0.466	0 %100
18	M15	Z	-0.807	-0.807	0 %100
19	M16	X	-0.466	-0.466	0 %100
20	M16	Z	-0.808	-0.808	0 %100
21	M17	X	-0.821	-0.821	0 %100
22	M17	Z	-1.422	-1.422	0 %100
23	M18	X	-0.764	-0.764	0 %100
24	M18	Z	-1.323	-1.323	0 %100
25	M19	X	-1.6e-5	-1.6e-5	0 %100
26	M19	Z	-2.7e-5	-2.7e-5	0 %100
27	M25	X	-0.039	-0.039	0 %100
28	M25	Z	-0.067	-0.067	0 %100
29	M31	X	-0.04	-0.04	0 %100
30	M31	Z	-0.07	-0.07	0 %100
31	M39	X	0	0	0 %100
32	M39	Z	0	0	0 %100
33	M40	X	0	0	0 %100
34	M40	Z	0	0	0 %100
35	M43	X	-0.793	-0.793	0 %100
36	M43	Z	-1.374	-1.374	0 %100
37	M44	X	-0.793	-0.793	0 %100
38	M44	Z	-1.374	-1.374	0 %100
39	M45	X	0	0	0 %100
40	M45	Z	0	0	0 %100
41	M48	X	-0.12	-0.12	0 %100
42	M48	Z	-0.208	-0.208	0 %100
43	M49	X	-0.117	-0.117	0 %100
44	M49	Z	-0.203	-0.203	0 %100
45	M50	X	-0.117	-0.117	0 %100
46	M50	Z	-0.203	-0.203	0 %100
47	M51	X	-0.333	-0.333	0 %100
48	M51	Z	-0.577	-0.577	0 %100
49	M54	X	-0.121	-0.121	0 %100
50	M54	Z	-0.21	-0.21	0 %100
51	M55	X	-0.116	-0.116	0 %100
52	M55	Z	-0.201	-0.201	0 %100
53	M56	X	-0.116	-0.116	0 %100
54	M56	Z	-0.201	-0.201	0 %100
55	M57	X	-0.333	-0.333	0 %100
56	M57	Z	-0.577	-0.577	0 %100
57	M70	X	-0.205	-0.205	0 %100
58	M70	Z	-0.356	-0.356	0 %100
59	MP2A	X	-0.227	-0.227	0 %100
60	MP2A	Z	-0.393	-0.393	0 %100
61	MP3A	X	-0.251	-0.251	0 %100
62	MP3A	Z	-0.435	-0.435	0 %100
63	MP4A	X	-0.251	-0.251	0 %100
64	MP4A	Z	-0.435	-0.435	0 %100
65	MP5A	X	-0.251	-0.251	0 %100
66	MP5A	Z	-0.435	-0.435	0 %100
67	MP1C	X	-0.251	-0.251	0 %100
68	MP1C	Z	-0.435	-0.435	0 %100
69	MP2C	X	-0.251	-0.251	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, %]
70	MP2C	Z	-.435	-.435	0	%100
71	MP3C	X	-.251	-.251	0	%100
72	MP3C	Z	-.435	-.435	0	%100
73	MP4C	X	-.251	-.251	0	%100
74	MP4C	Z	-.435	-.435	0	%100
75	MP1B	X	-.251	-.251	0	%100
76	MP1B	Z	-.435	-.435	0	%100
77	MP2B	X	-.251	-.251	0	%100
78	MP2B	Z	-.435	-.435	0	%100
79	MP3B	X	-.251	-.251	0	%100
80	MP3B	Z	-.435	-.435	0	%100
81	MP4B	X	-.251	-.251	0	%100
82	MP4B	Z	-.435	-.435	0	%100
83	M96	X	-.661	-.661	0	%100
84	M96	Z	-1.145	-1.145	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M94	X	-.661	-.661	0	%100
88	M94	Z	-1.145	-1.145	0	%100
89	M95	X	-.228	-.228	0	%100
90	M95	Z	-.395	-.395	0	%100
91	M97	X	0	0	0	%100
92	M97	Z	0	0	0	%100
93	M98	X	-.228	-.228	0	%100
94	M98	Z	-.395	-.395	0	%100
95	M111	X	-.413	-.413	0	%100
96	M111	Z	-.716	-.716	0	%100
97	M112	X	-.433	-.433	0	%100
98	M112	Z	-.75	-.75	0	%100
99	M113	X	-.413	-.413	0	%100
100	M113	Z	-.716	-.716	0	%100
101	M120	X	-.293	-.293	0	%100
102	M120	Z	-.507	-.507	0	%100
103	M121	X	0	0	0	%100
104	M121	Z	0	0	0	%100
105	M122	X	-.293	-.293	0	%100
106	M122	Z	-.507	-.507	0	%100

**Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M15	Y	-5.019	-27.455	0	.804
2	M15	Y	-27.455	-23.367	.804	1.607
3	M15	Y	-23.367	-9.951	1.607	2.411
4	M15	Y	-9.951	-19.023	2.411	3.215
5	M15	Y	-19.023	-33.385	3.215	4.018
6	M50	Y	-4.996	-27.338	0	.807
7	M50	Y	-27.338	-23.267	.807	1.614
8	M50	Y	-23.267	-9.908	1.614	2.421
9	M50	Y	-9.908	-18.942	2.421	3.228
10	M50	Y	-18.942	-33.244	3.228	4.035
11	M16	Y	-4.996	-27.338	0	.807
12	M16	Y	-27.338	-23.267	.807	1.614
13	M16	Y	-23.267	-9.908	1.614	2.421
14	M16	Y	-9.908	-18.942	2.421	3.228
15	M16	Y	-18.942	-33.244	3.228	4.035
16	M55	Y	-5.019	-27.455	0	.804





**Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
17	M55	Y	-27.455	-23.367	.804	1.607
18	M55	Y	-23.367	-9.951	1.607	2.411
19	M55	Y	-9.951	-19.023	2.411	3.215
20	M55	Y	-19.023	-33.385	3.215	4.018
21	M49	Y	-5.019	-27.455	0	.804
22	M49	Y	-27.455	-23.367	.804	1.607
23	M49	Y	-23.367	-9.951	1.607	2.411
24	M49	Y	-9.951	-19.023	2.411	3.215
25	M49	Y	-19.023	-33.385	3.215	4.018
26	M56	Y	-4.996	-27.338	0	.807
27	M56	Y	-27.338	-23.267	.807	1.614
28	M56	Y	-23.267	-9.908	1.614	2.421
29	M56	Y	-9.908	-18.942	2.421	3.228
30	M56	Y	-18.942	-33.244	3.228	4.035

**Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M15	Y	-9.48	-51.859	0	.804
2	M15	Y	-51.859	-44.138	.804	1.607
3	M15	Y	-44.138	-18.797	1.607	2.411
4	M15	Y	-18.797	-35.932	2.411	3.215
5	M15	Y	-35.932	-63.061	3.215	4.018
6	M50	Y	-9.437	-51.638	0	.807
7	M50	Y	-51.638	-43.949	.807	1.614
8	M50	Y	-43.949	-18.716	1.614	2.421
9	M50	Y	-18.716	-35.779	2.421	3.228
10	M50	Y	-35.779	-62.794	3.228	4.035
11	M16	Y	-9.437	-51.638	0	.807
12	M16	Y	-51.638	-43.949	.807	1.614
13	M16	Y	-43.949	-18.716	1.614	2.421
14	M16	Y	-18.716	-35.779	2.421	3.228
15	M16	Y	-35.779	-62.794	3.228	4.035
16	M55	Y	-9.48	-51.859	0	.804
17	M55	Y	-51.859	-44.138	.804	1.607
18	M55	Y	-44.138	-18.797	1.607	2.411
19	M55	Y	-18.797	-35.932	2.411	3.215
20	M55	Y	-35.932	-63.061	3.215	4.018
21	M49	Y	-9.48	-51.859	0	.804
22	M49	Y	-51.859	-44.138	.804	1.607
23	M49	Y	-44.138	-18.797	1.607	2.411
24	M49	Y	-18.797	-35.932	2.411	3.215
25	M49	Y	-35.932	-63.061	3.215	4.018
26	M56	Y	-9.437	-51.638	0	.807
27	M56	Y	-51.638	-43.949	.807	1.614
28	M56	Y	-43.949	-18.716	1.614	2.421
29	M56	Y	-18.716	-35.779	2.421	3.228
30	M56	Y	-35.779	-62.794	3.228	4.035

**Member Area Loads (BLC 39 : Structure D)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N33	N76	N91	N47	Y	A-D	-.009
2	N34	N56	N98	N80	Y	A-B	-.009
3	N102	N57	N46	N87	Y	B-C	-.009



**Member Area Loads (BLC 40 : Structure Di)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N33	N76	N91	N47	Y	A-D	-.017
2	N34	N56	N98	N80	Y	A-B	-.017
3	N102	N57	N46	N87	Y	B-C	-.017

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

Member	Shape	Code Check	L...	LC	Shear C...	Loc.....	phi*P...	phi*P...	phi*M...	phi*M.....	Eqn			
1	M1	PIPE 3.0	.161	7...	1	.056	14....	1	19871..	65205	5.749	5.749	... H1-1b	
2	MP1A	PIPE 2.0	.269	3...	2	.094	3.4...	5	20866..	32130	1.872	1.872	... H1-1b	
3	M4	PIPE 3.0	.160	7...	8	.053	14....	8	19871..	65205	5.749	5.749	... H1-1b	
4	M5	PIPE 3.0	.172	7...	5	.049	14....	4	19871..	65205	5.749	5.749	... H1-1b	
5	M11	PL1/2x10	.133	0	12	.130	0	y	46	13496..	162000	1.688	33.75	... H1-1b
6	M12	PL1/2x10	.134	.7...	2	.193	.708	y	28	13496..	162000	1.688	33.75	... H1-1b
7	M13	PL1/2x10	.241	.5...	4	.404	.578	y	18	99659..	162000	1.688	33.75	... H1-1b
8	M14	HSS5X5...	.280	4...	21	.088	4.6...	y	21	18989..	217764	31.602	31.602	... H1-1b
9	M15	L3X3X4	.114	2...	24	.019	0	y	7	30001..	46656	1.688	3.395	... H2-1
10	M16	L3X3X4	.115	2...	18	.016	0	z	11	29890..	46656	1.688	3.392	... H2-1
11	M17	PL1/2x10	.254	.5...	12	.460	.578	y	13	99659..	162000	1.688	33.75	... H1-1b
12	M18	PL1/2x10	.269	.5...	8	.434	.578	y	21	99659..	162000	1.688	33.75	... H1-1b
13	M19	PL1/2x8	.158	.6...	1	.306	.078	y	1	73013..	129600	1.35	21.6	... H1-1b
14	M25	PL1/2x8	.163	.6...	8	.332	1.1...	y	1	73013..	129600	1.35	21.6	... H1-1b
15	M31	PL1/2x8	.148	.6...	5	.301	1.1...	y	9	73013..	129600	1.35	21.6	... H1-1b
16	M39	PL1/2x10	.150	0	8	.096	0	y	18	13496..	162000	1.688	33.75	... H1-1b
17	M40	PL1/2x10	.105	.3...	8	.153	.708	y	24	13496..	162000	1.688	33.75	... H1-1b
18	M43	PL1/2x10	.140	0	4	.095	0	y	14	13496..	162000	1.688	33.75	... H1-1b
19	M44	PL1/2x10	.095	.3...	4	.154	.708	y	20	13496..	162000	1.688	33.75	... H1-1b
20	M45	L5X3X4	.426	3...	20	.112	3.1...	z	1	29295..	62856	1.939	6.346	... H2-1
21	M48	HSS5X5...	.302	4...	17	.098	4.6...	y	17	18989..	217764	31.602	31.602	... H1-1b
22	M49	L3X3X4	.114	2...	20	.020	0	y	2	30001..	46656	1.688	3.395	... H2-1
23	M50	L3X3X4	.115	2...	14	.017	0	z	7	29890..	46656	1.688	3.392	... H2-1
24	M51	L5X3X4	.432	3...	19	.104	3.1...	z	9	29295..	62856	1.939	6.239	... H2-1
25	M54	HSS5X5...	.279	4...	13	.086	4.6...	y	13	18989..	217764	31.602	31.602	... H1-1b
26	M55	L3X3X4	.114	2...	16	.018	0	y	11	30001..	46656	1.688	3.395	... H2-1
27	M56	L3X3X4	.115	2...	22	.016	0	z	2	29890..	46656	1.688	3.392	... H2-1
28	M57	L5X3X4	.413	3...	24	.114	3.2...	y	2	29295..	62856	1.939	6.303	... H2-1
29	M70	PIPE 2.0	.151	2...	7	.044	2.75		10	28843..	32130	1.872	1.872	1 H1-1b
30	MP2A	PIPE 2.0	.289	3...	3	.059	1.9...		3	26732..	32130	1.872	1.872	... H1-1b
31	MP3A	PIPE 2.0	.205	3...	10	.064	3.3...		9	20866..	32130	1.872	1.872	... H1-1b
32	MP4A	PIPE 2.0	.268	3...	10	.050	3.3...		10	20866..	32130	1.872	1.872	... H1-1b
33	MP5A	PIPE 2.0	.191	.4...	46	.046	3.3...		10	20866..	32130	1.872	1.872	... H1-1b
34	MP1C	PIPE 2.0	.345	3...	12	.094	.938		12	20866..	32130	1.872	1.872	... H1-1b
35	MP2C	PIPE 2.0	.255	3...	12	.081	3.3...		12	20866..	32130	1.872	1.872	... H1-1b
36	MP3C	PIPE 2.0	.295	3...	7	.051	3.3...		6	20866..	32130	1.872	1.872	... H1-1b
37	MP4C	PIPE 2.0	.150	3...	7	.050	3.3...		6	20866..	32130	1.872	1.872	... H1-1b
38	MP1B	PIPE 2.0	.362	3...	7	.111	.938		8	20866..	32130	1.872	1.872	... H1-1b
39	MP2B	PIPE 2.0	.269	3...	8	.087	3.3...		8	20866..	32130	1.872	1.872	... H1-1b
40	MP3B	PIPE 2.0	.277	3...	2	.052	3.3...		2	20866..	32130	1.872	1.872	... H1-1b
41	MP4B	PIPE 2.0	.144	.4...	2	.048	3.3...		2	20866..	32130	1.872	1.872	... H1-1b
42	M96	L5X3X4	.327	5...	7	.069	5.2...	z	8	9465....	62856	1.939	4.989	... H2-1
43	M93A	L5X3X4	.333	6...	2	.062	6.4...	z	8	9465....	62856	1.939	5.079	... H2-1
44	M94	L5X3X4	.304	5...	11	.046	5.1...	z	6	9465....	62856	1.939	4.966	... H2-1
45	M95	PIPE 2.5	.133	7...	7	.045	11....		3	10110..	50715	3.596	3.596	... H1-1b
46	M97	PIPE 2.5	.157	7...	2	.041	3.4...		6	10110..	50715	3.596	3.596	... H1-1b
47	M98	PIPE 2.5	.146	7...	10	.045	7.0...		8	10110..	50715	3.596	3.596	... H1-1b
48	M111	LL3x3x3...	.210	1...	13	.003	3.5...	z	10	46653..	70632	6.362	3.751	1 H1-1a
49	M112	LL3x3x3...	.211	1...	21	.003	0	z	6	46653..	70632	6.362	3.751	1 H1-1a



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

Member	Shape	Code Check	L...	LC	Shear C...	Loc.....	phi*P...	phi*P...	phi*M...	phi*M...	Eqn			
50	M113	LL3x3x3...	.227	1...	17	.004	3.5...	z 2	46653..	70632	6.362	3.751	1	H1-1a
51	M120	L3X3X4	.255	2...	5	.016	0	y 3	41398..	46656	1.688	3.756	...	H2-1
52	M121	L3X3X4	.276	2...	1	.016	0	y 11	41398..	46656	1.688	3.756	...	H2-1
53	M122	L3X3X4	.280	2...	9	.019	0	y 1	41398..	46656	1.688	3.756	...	H2-1

**Envelope Joint Reactions**

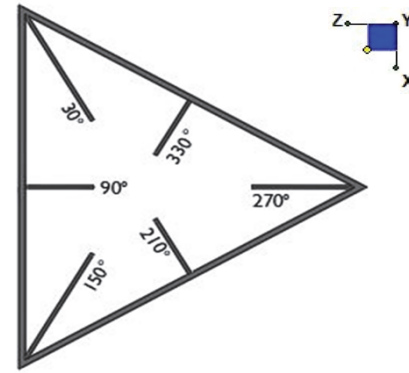
Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N75	max	6973.671	21	-1171.773	3	154.423	3	1.038	18	1.817	12	1.395	45
2		min	-452.839	3	-3695.829	21	-4006.082	21	.35	12	-1.81	6	.443	3
3	N86	max	191.264	11	-1296.94	11	110.108	11	.605	16	2.689	8	-.687	12
4		min	-7427.743	17	-3879.798	17	-4275.806	17	.193	46	-2.713	2	-1.756	30
5	N97	max	655.307	10	-1182.216	7	8033.844	13	-.588	7	1.764	4	.24	10
6		min	-646.502	4	-3671.173	13	-585.987	7	-1.695	13	-1.788	10	-.054	4
7	N192	max	-1994.788	3	6804.071	21	3383.366	21	0	6	0	12	0	12
8		min	-5860.474	21	2296.349	3	1151.977	3	0	12	0	6	0	6
9	N193	max	6299.118	17	7310.1	17	3636.714	17	0	8	0	8	0	8
10		min	2257.189	11	2599.116	11	1303.208	11	0	2	0	2	0	2
11	N194	max	22.384	10	6769.274	13	-2327.28	7	0	51	0	4	0	10
12		min	-22.379	4	2320.103	7	-6732.174	13	0	1	0	10	0	4
13	Totals:	max	5220.011	10	9417.503	22	5395.027	1						
14		min	-5220.005	4	4465.316	4	-5395.024	7						



## I. Mount-to-Tower Connection Check

### RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N75	30
N97	270
N86	150



TYPICAL PLATFORM

### 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):

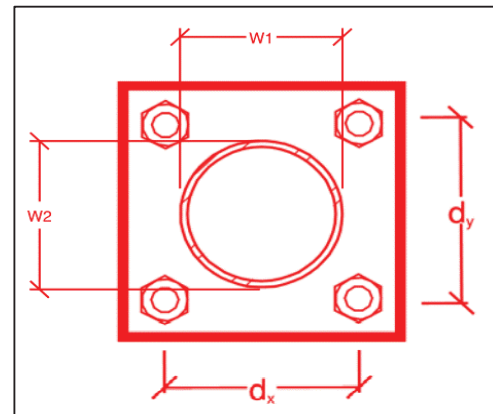
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
8
8
A325N
0.75
13.9
5.3
29.8
17.9
11.6%*
7.4%



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

### Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

$t_{plate}$  (in):

Weld Size (1/16 in):

$\Phi \cdot R_n$  (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
10
12
5
5
36
1
4
5.57
1.22
13.1%
21.8%

### Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in) :	8.1
$\Phi \cdot M_{n_{xx}}$ (kip-in) :	81.0
$M_{u_{yy}}$ (kip-in) :	3.1
$\Phi \cdot M_{n_{yy}}$ (kip-in) :	97.2

# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – Mount Modification

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](mailto:pmisupport@colliersengineering.com)

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**Purpose** – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor 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 modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

### **Base Requirements:**

- If installation of the modification 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 drawings” showing contractor’s name, 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 post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is 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 of the modifications.
  - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
  - Photos showing the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation of modifications. Each entire sector must 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.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

**Material Certification:**

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
  - If the materials are as specified on the drawings
    - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
    - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
  - If seeking permission to use an equivalent
    - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.

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.

**Comments:**

**Certifying Individual:**

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

**Was the mount modification completed in conjunction with the equipment change / installation?**

Yes       No

**Special Instructions / Validation as required from the MA or Mod Drawings:**

**Issue:**

Contractor to install new safety climb cable guide as necessary to prevent cable contact with the proposed kicker and collar

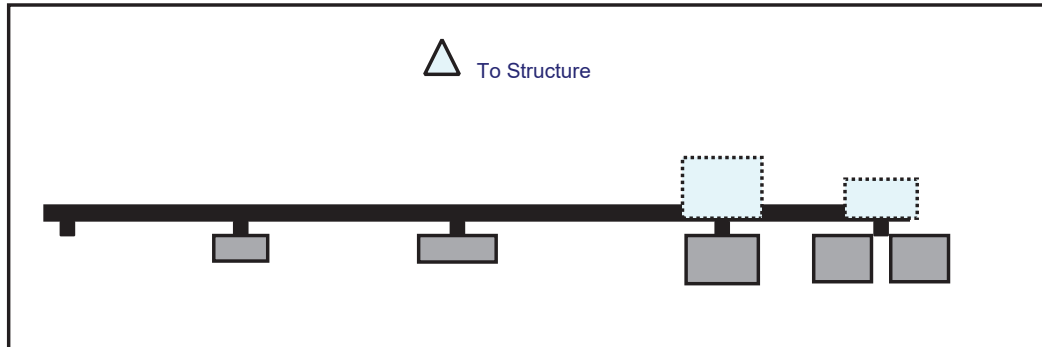
**Response:**

**Contractor certifies that the climbing facility / safety climb was not damaged during installation:**

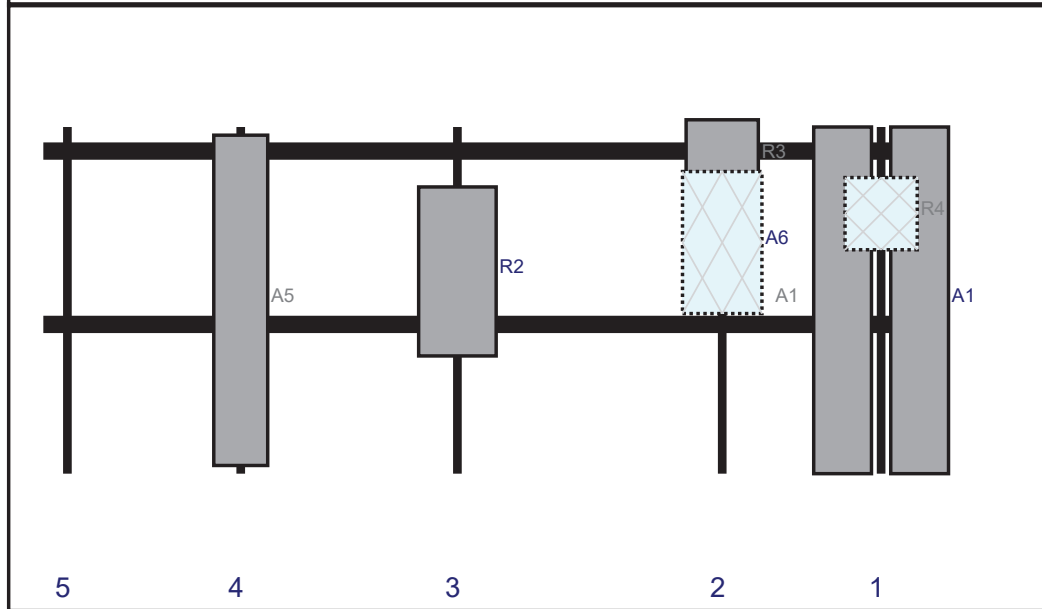
Yes       No

**Comments:**

Plan View



Front View  
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	QS6656-5D	72	12	174	1	a	Front	36	8	Added	
A1	QS6656-5D	72	12	174	1	b	Front	36	-8	Added	
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	174	1	a	Behind	18	0	Added	
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	141	2	a	Front	6	0	Added	
A6	RRFDC-3315-PF-48	29.5	16.5	141	2	a	Behind	24	0	Retained	08/17/2021
R2	MT6407-77A	35.1	16.1	86	3	a	Front	30	0	Added	
A5	BXA-80063-6BF-EDIN-0	68.6	11.2	41	4	a	Front	36	0	Retained	08/17/2021

Sector: **B**  
 Structure Type: Monopole  
 Mount Elev: 139.00

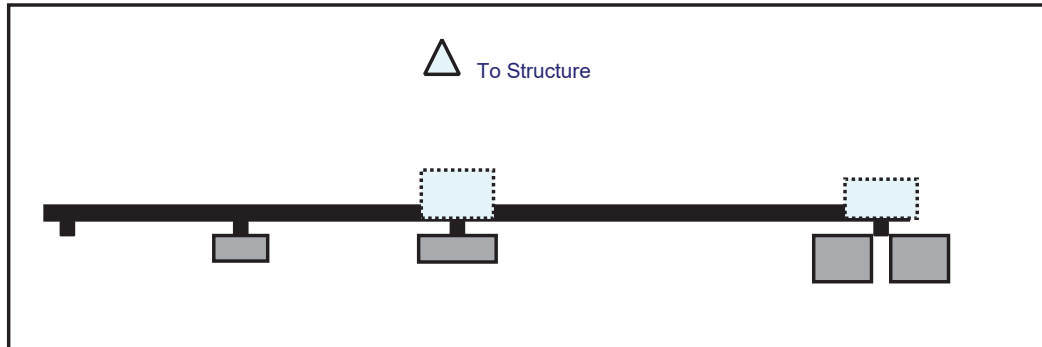
10099780

9/7/2021

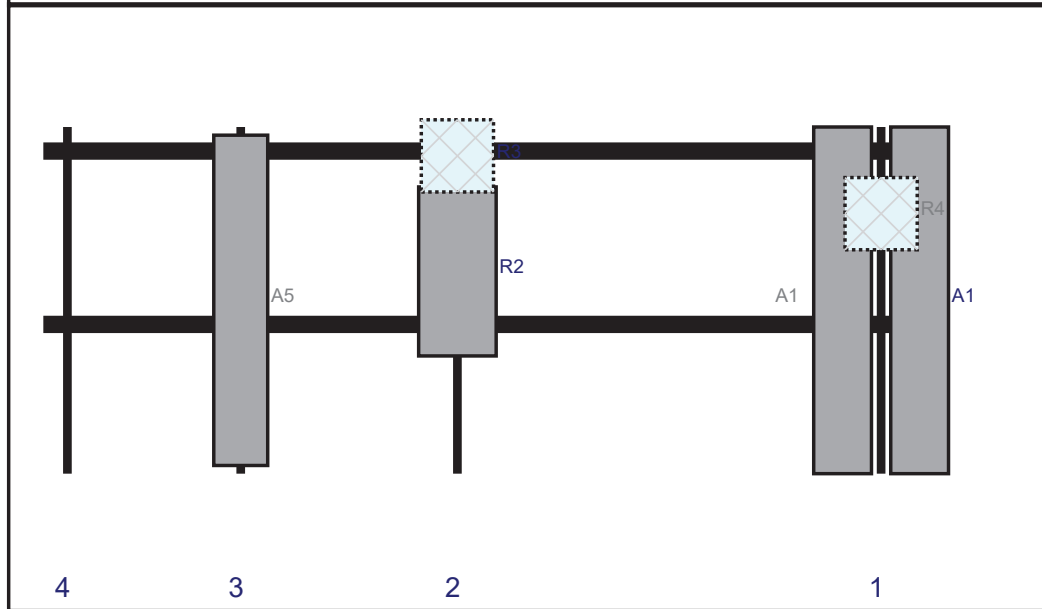
Page: 2



Plan View

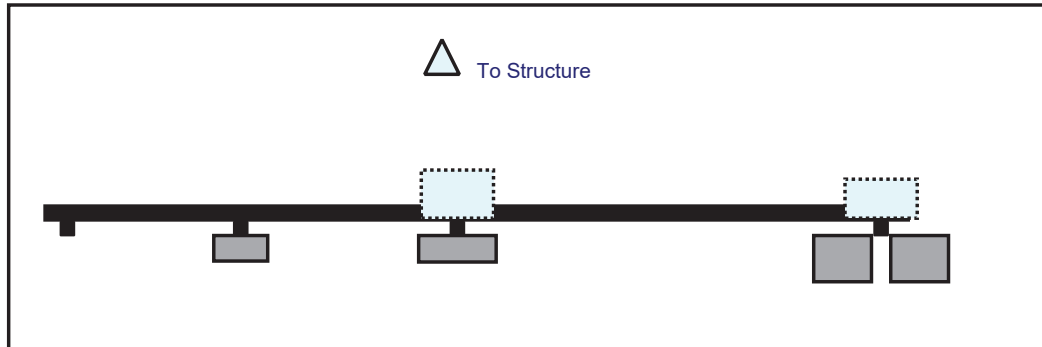


Front View  
 Looking at Structure

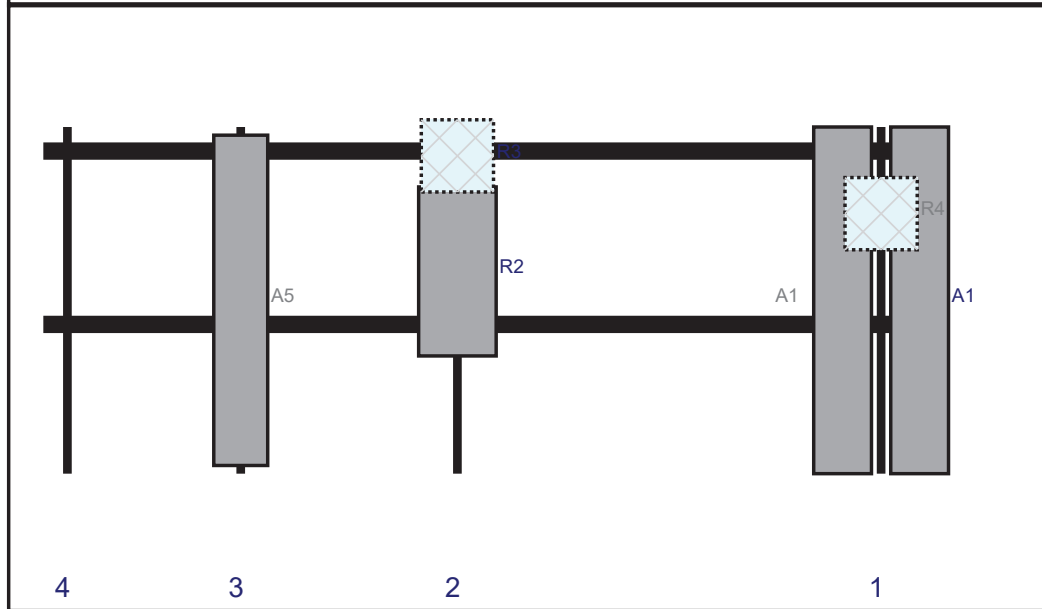


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	QS6656-5D	72	12	174	1	a	Front	36	8	Added	
A1	QS6656-5D	72	12	174	1	b	Front	36	-8	Added	
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	174	1	a	Behind	18	0	Added	
R2	MT6407-77A	35.1	16.1	86	2	a	Front	30	0	Added	
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	86	2	a	Behind	6	0	Added	
A5	BXA-80063-6BF-EDIN-0	68.6	11.2	41	3	a	Front	36	0	Retained	08/17/2021

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
A1	QS6656-5D	72	12	174	1	a	Front	36	8	Added	
A1	QS6656-5D	72	12	174	1	b	Front	36	-8	Added	
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R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	86	2	a	Behind	6	0	Added	
A5	BXA-80063-6BF-EDIN-0	68.6	11.2	41	3	a	Front	36	0	Retained	08/17/2021

**Subject***TIA-222-H Usage***Site Information**

*Site ID: 468414-VZW / SHELTON 2 CT  
Site Name: SHELTON 2 CT  
Carrier Name: Verizon Wireless  
Address: 70 Platt Road  
Shelton, Connecticut 06484  
Fairfield County  
Latitude: 41.293944°  
Longitude: -73.107178°*

**Structure Information**

*Tower Type: 140-Ft Monopole  
Mount Type: 15.00-Ft Platform*

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,

Justin Linette, PE  
Technical Manager

# Exhibit F

## **Power Density/RF Emissions Report**



Site Name: **SHELTON 2 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 <sup>2</sup> )	(mW/cm <sup>2</sup> )	(%)
VZW 700	751	4	505	2022	140	0.0037	0.5007	0.74%
VZW CDMA	877.26	2	499	998	140	0.0018	0.5848	0.31%
VZW Cellular	874	4	511	2044	140	0.0038	0.5827	0.64%
VZW PCS	1980	4	1356	5426	140	0.0100	1.0000	1.00%
VZW AWS	2120	4	1551	6204	140	0.0114	1.0000	1.14%
VZW CBAND	3730.08	2	21627	43254	140	0.0794	1.0000	7.94%

**Total Percentage of Maximum Permissible Exposure** 11.77%

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

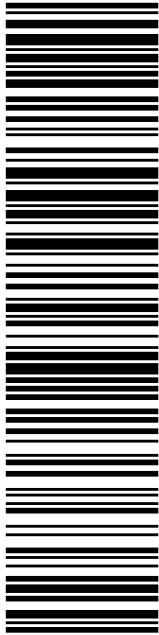
\*\*Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz  
 mW/cm<sup>2</sup> = milliwatts per square centimeter  
 ERP = Effective Radiated Power

Absolute worst case maximum values used.

# Exhibit F

## **Recipient Mailings**



**USPS TRACKING #**

**9405 5036 9930 0067 7870 73**

Electronic Rate Approved #038555749

**SHIP TO:** MARK LAURETTI  
MAYOR- CITY OF SHELTON  
54 HILL ST  
SHELTON CT 06484-3207

**SHIP TO:** DEBORAH CHASE  
NORTHEAST SITE SOLUTIONS  
420 MAIN ST  
STE 1  
STURBRIDGE MA 01566-1359

**P**

11/19/2021

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**US POSTAGE**  
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4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
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**USPS TRACKING # :**  
**9405 5036 9930 0067 7870 73**

Trans. #: 548812254	Priority Mail® Postage: <b>\$8.70</b>
Print Date: 11/19/2021	Total: <b>\$8.70</b>
Ship Date: 11/19/2021	
Expected Delivery Date: 11/22/2021	

**From:** DEBORAH CHASE  
NORTHEAST SITE SOLUTIONS  
420 MAIN ST  
STE 1  
STURBRIDGE MA 01566-1359

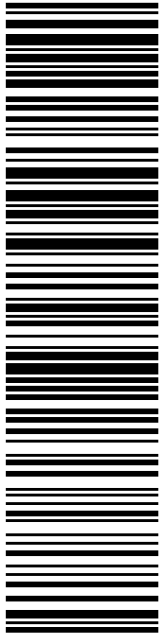
Ref#: CR-842873

**To:** MARK LAURETTI  
MAYOR- CITY OF SHELTON  
54 HILL ST  
SHELTON CT 06484-3207

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**SHIP TO:** ALEXANDER ROSETTI  
PLANNING & ZONING ADMINISTRATOR  
54 HILL ST  
SHELTON CT 06484-3207

**DEBORAH CHASE**  
NORTHEAST SITE SOLUTIONS  
420 MAIN ST  
STE 1  
STURBRIDGE MA 01566-1359

Expected Delivery Date: 11/22/21  
Ref#: CR-842873  
**0006**

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Print Date: 11/19/2021	Total: <b>\$8.70</b>
Ship Date: 11/19/2021	
Expected Delivery Date: 11/22/2021	


**From:** DEBORAH CHASE      Ref#: CR-842873  
NORTHEAST SITE SOLUTIONS  
420 MAIN ST  
STE 1  
STURBRIDGE MA 01566-1359

**To:** ALEXANDER ROSETTI  
PLANNING & ZONING ADMINISTRATOR  
54 HILL ST  
SHELTON CT 06484-3207

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**0006**

**C036**

SHIP TO:  
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 70 PLATT RD  
 SHELTON CT 06484-5339

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Trans. #: 548812254	Priority Mail® Postage: <b>\$8.70</b>
Print Date: 11/19/2021	Total: <b>\$8.70</b>
Ship Date: 11/19/2021	
Expected Delivery Date: 11/22/2021	

**From:** DEBORAH CHASE  
 NORTHEAST SITE SOLUTIONS  
 420 MAIN ST  
 STE 1  
 STURBRIDGE MA 01566-1359

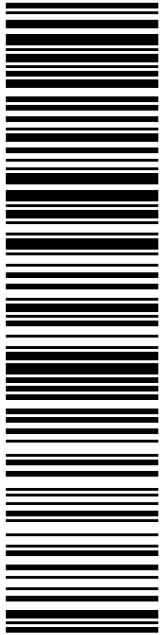
Ref#: CR-842873

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 70 PLATT RD  
 SHELTON CT 06484-5339

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**SHIP TO:** SARAH SNELL  
CROWN CASTLE  
1800 W PARK DR  
WESTBOROUGH MA 01581-3926

**SHIP TO:** DEBORAH CHASE  
NORTHEAST SITE SOLUTIONS  
420 MAIN ST  
STE 1  
STURBRIDGE MA 01566-1359

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US POSTAGE  
Flat Rate Env

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Print Date: 11/19/2021	Total: <b>\$8.70</b>
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**From:** DEBORAH CHASE  
NORTHEAST SITE SOLUTIONS  
420 MAIN ST  
STE 1  
STURBRIDGE MA 01566-1359

Re#: CR-842873

**To:** SARAH SNELL  
CROWN CASTLE  
1800 W PARK DR  
WESTBOROUGH MA 01581-3926

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SOUTH WINDSOR  
850 CLARK ST  
SOUTH WINDSOR, CT 06074-9998  
(800)275-8777

11/23/2021

01:49 PM

Product	Qty	Unit Price	Price
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Prepaid Mail	1		\$0.00
Westborough, MA 01581			
Weight: 0 lb 2.00 oz			
Acceptance Date:			
Tue 11/23/2021			
Tracking #:			
9405 5036 9930 0067 7871 34			

Prepaid Mail	1		\$0.00
Shelton, CT 06484			
Weight: 0 lb 8.30 oz			
Acceptance Date:			
Tue 11/23/2021			
Tracking #:			
9405 5036 9930 0067 7871 10			

Prepaid Mail	1		\$0.00
Shelton, CT 06484			
Weight: 0 lb 8.30 oz			
Acceptance Date:			
Tue 11/23/2021			
Tracking #:			
9405 5036 9930 0067 7871 03			

Prepaid Mail	1		\$0.00
Shelton, CT 06484			
Weight: 0 lb 8.30 oz			
Acceptance Date:			
Tue 11/23/2021			
Tracking #:			
9405 5036 9930 0067 7870 73			

Grand Total:			\$0.00
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