

KENNETH C. BALDWIN

280 Trumbull Street  
Hartford, CT 06103-3597  
Main (860) 275-8200  
Fax (860) 275-8299  
kbaldwin@rc.com  
Direct (860) 275-8345

Also admitted in Massachusetts  
and New York

September 16, 2021

*Via Electronic Mail*

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

Re: **Notice of Exempt Modification – Facility Modification  
1931 East Main Street (a/k/a 1927 East Main Street), Torrington, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the City of Torrington in August 2000. Cellco’s use of the tower was approved by the Siting Council (“Council”) in October 2003 (EM-VER-143-031001-B). A copy of the City’s tower approval and Council’s exempt modification approval are included in [Attachment 1](#).

Cellco now intends to modify its facility by replacing three (3) existing antennas with three (3) Samsung MT6407-77A antennas. Cellco also intends to replace six (6) existing remote radio heads (“RRHs”) with six (6) new RRHs behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRH specifications are included in [Attachment 2](#).

Please accept this letter as notification pursuant to R.C.S.A. § 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 Torrington’s Chief Elected Official and Land Use Officer.

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 tower.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, 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 installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna platform, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

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



Melanie A. Bachman, Esq.  
September 16, 2021  
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures  
Copy to:

Elinor Carbone, Mayor for the City of Torrington  
Martin Connor, Torrington City Planner  
TEP Incorporated  
Karla Hanna

# **ATTACHMENT 1**

# City Of Torrington



PLANNING AND ZONING COMMISSION  
140 Main Street • Room 311  
Torrington, CT 06790

Tel.: (860) 489-2220  
Fax: (860) 489-2550

August 16, 2000

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Thomas Flynn, III  
SBA, Inc., and Sprint PCS  
49 Leavenworth Street - Suite 200  
Waterbury, CT 06702

Re: Special Exception 00-20 and Site Plan 00-21  
Applicant: SBA, Inc., and Sprint PCS;  
Location: 1925 East Main Street, Torrington, CT  
Proposal: Construct 155' telecommunication facility and associated  
equipment area.

Dear Mr. Flynn:

This is to confirm that at its August 9, 2000 meeting, the Planning and Zoning Commission approved the above referenced proposal with the following conditions:

The application is modified to allow for construction of a 155' expandable monopole wireless telecommunications tower and associated improvements. Structural work shall be performed on the tower to support vertical expansion to 163' should expansion be required in the future to accommodate co-location at this site. The tower is to be located 30 feet closer to the rear property line (northerly direction) and to be located in full compliance with fall zone setback requirements. The 155' height is to be adjusted downward for any increase in elevation gained by moving the tower toward the rear of the property. The recording mylar Site Plan will be modified to include these changes and the certified letter of approval containing all conditions of approval shall be reproduced and included on the recording mylar Site Plan. The lease area from the property owner T.E.P. Inc, must include the area of the proposed tower and full radius of the fall zone.

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The 155' monopole wireless telecommunications tower and associated improvements are approved with the following conditions:

1. Per Section A 12.0 of the Regulations, the special exception shall be valid for 15 years. At the end of this time period, the tower shall be removed by Sprint Spectrum LP d/b/a Sprint PCS or SBA, Inc., a new special exception permit shall be required.
2. Per Section A 4.4.1 of the Regulations, the applicant must provide a plan for the handling of any hazardous materials using best management practices. If any hazardous materials are to be used on site, there shall be provisions for full containment of such materials. An enclosed containment area shall be provided with a sealed floor, designed to contain at least 110% of the volume of hazardous materials stored or used on the site. A 110% containment area specifically designed for the Sprint back up batteries shall be installed.
3. Per Section A 9.0. of the Regulations, within 90 days of beginning operations, the applicant shall submit existing measurements of radio frequency radiation (RFR) from the facility, signed and sealed by an RF Engineer, stating that the RFR measurements are accurate and below the maximum permissible exposure (MPE) limits as established by the FCC guidelines. The report shall be submitted to the office of the City Planner. This information shall be provided on an annual basis thereafter.
4. As offered by the applicant during the public hearing process, space shall be made available, at no charge, for municipal services equipment.
5. Per Section A 10.3 of the Regulations. the applicant shall submit a bond in an amount sufficient to cover the costs of removal of the regulated facility in the event the City must remove the facility. The bond amount must be approved by the City Engineer in a form acceptable to the Torrington Corporation Counsel.
6. As recommended by Torrington Fire Chief the applicant shall install a secure Knox-brand lock box on the exterior of the fence near the main entrance to allow the Fire Department quick access. The driveway must be maintained in all weather conditions in order to allow emergency access.
7. The area within the existing parking lot which is part of the fall zone perimeter will be cordoned off using 6" concrete filled bollards 48" height 48" on center which will act as a barrier to vehicular traffic.
8. The Landscaping plan will be revised to include both a stockade fence and 3 white pines 6'-8' in height planted 6' OC to screen the dumpster area and to contain debris from the lands N/F Daniel & Gina Masciarelli.
9. The applicant shall submit a bond estimate to be reviewed and approved by the City Planner for the proposed landscaping. A bond in a form acceptable to the Corporation Counsel be shall posted prior to issuance of the Zoning Permit. 25% of the posted bond shall remain in place for one year after the landscaping plan has been fully implemented to ensure successful growth of the plantings.

10. The applicant shall apply for a grading permit prior to issuance of the Zoning Permit and post the required bond for erosion and sedimentation in an amount approved by the City Engineer and in a form acceptable to the Corporation Counsel.

Enclosed please find three copies of the completed Certification of Special Exception form. Take all three copies to the City Clerk's Office where they will time stamp and record on the City Land Records one copy. Deliver one copy to the Planning and Zoning Department and retain one copy for your records.

Your Special Exception approval does not take effect until it is recorded on the Land Records. You can obtain a Zoning Permit only after the Certification is filed and certain conditions are complied with.

The applicant shall provide the Planning and Zoning Office with a recording mylar and three paper copies of the approved plan.

If you have any questions regarding this matter, please contact me.

Sincerely,



Martin J. Connor, AICP  
City Planner



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@po.state.ct.us](mailto:siting.council@po.state.ct.us)

Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

October 15, 2003

Kenneth C. Baldwin  
Robinson & Cole  
280 Trumbull Street  
Hartford, CT 06103-3597

RE: **EM-VER-143-031001-B** - Cellco Partnership d/b/a Verizon Wireless, notice of intent to modify an existing telecommunications facility located at 1925-1931 East Main Street, Torrington, Connecticut.

Dear Attorney Baldwin:

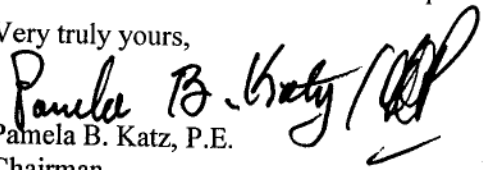
At a public meeting held on October 14, 2003, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the condition that the modifications recommended in the Structural Analysis Report prepared by Daniel Blakeman (dated September 9, 2003) be implemented as part of the antenna installation.

The proposed modifications are to be implemented as specified here and in your notice dated October 1, 2003. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

  
Pamela B. Katz, P.E.  
Chairman

PBK/laf

c: Honorable Owen J. Quinn, Jr., Mayor, City of Torrington  
Martin Connor, City Planner, City of Torrington  
Sheila R. Becker, Regional Director of Compliance, SBA, Inc.  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels  
Thomas F. Flynn III, Nextel Communications  
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae

# **ATTACHMENT 2**



# WIRELESS COMMUNICATIONS FACILITY

**SITE NAME:  
TORRINGTON EAST CT**

**SBA SITE # CT01499  
1931 EAST MAIN ST.  
TORRINGTON, CT 06790**

**ANTENNA MODIFICATION**

**verizon**  
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492

**On Air Engineering, LLC**  
88 Foundry Pond Road  
Cold Spring, NY 10516  
201-456-4624  
onair@optonline.net

LICENSURE



DAVID WEINMAN, P.E.  
CT LIC NO. 22144

SUBMITTALS

NO	DATE	REVISION
0	05.12.21	REVIEW
1	05.14.21	REVISED PER MOUNT ANALYSIS

NO DATE DESCRIPTION

DRAWN BY: AS  
CHECKED BY: DW

PROJECT NAME:  
**ANTMO  
MT6407-850-LTE-PCS  
DESIGN EXHIBITS**

SITE NAME:  
**TORRINGTON EAST CT**

SITE ADDRESS:  
**SBA SITE # CT01499  
1931 EAST MAIN ST.  
TORRINGTON, CT 06790**

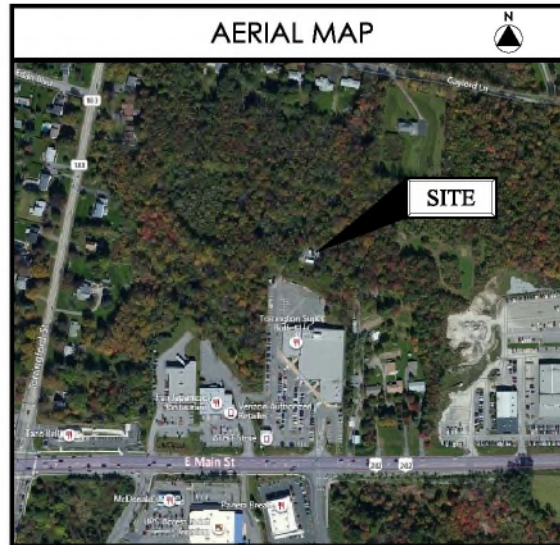
SHEET TITLE:  
**TITLE SHEET**

SHEET NUMBER:  
**DE-1**

## PROJECT SUMMARY

SITE NAME:	TORRINGTON EAST CT
SITE ADDRESS:	1931 EAST MAIN ST. TORRINGTON, CT 06790
PROPERTY OWNER:	TEP INCORPORATED P.O. BOX 876 TORRINGTON, CT 06790
TOWER OWNER/MGMT:	SBA SITE # CT01499
PARCEL ID:	247-002-024
COORDINATES:	41° 49' 23.79" N 73° 04' 35.9688" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195

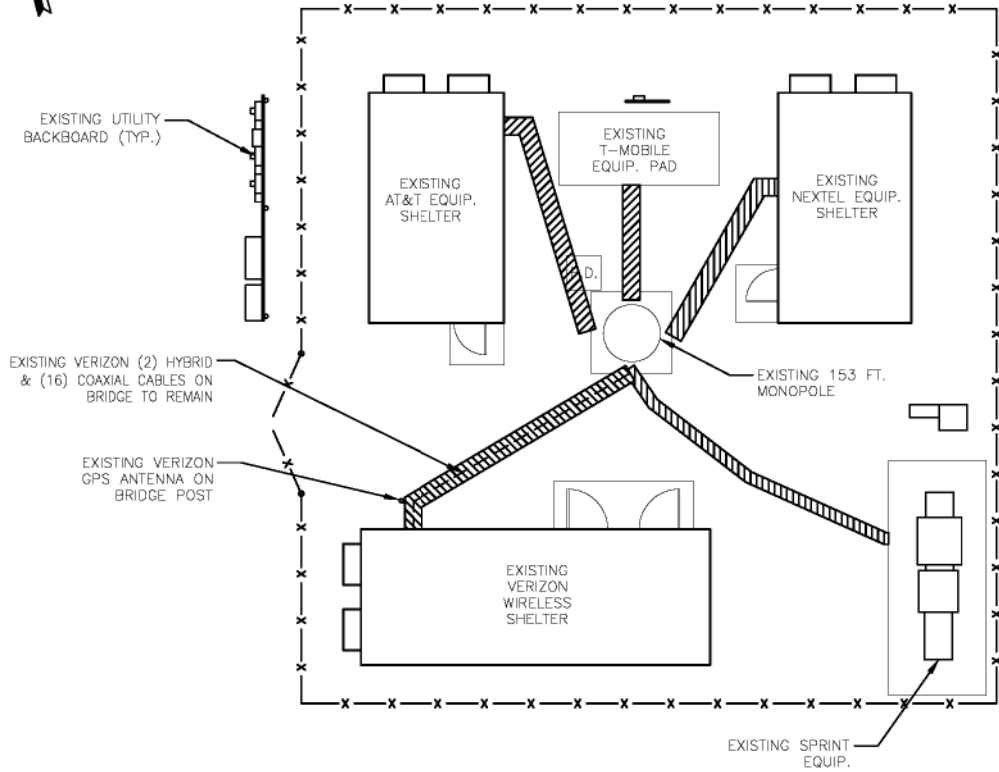
## AERIAL MAP



## SHEET INDEX

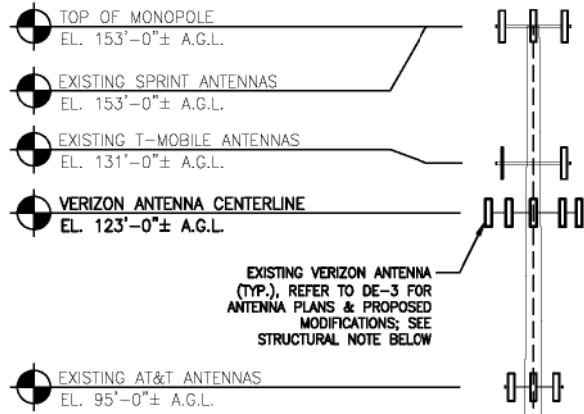
DE-1	TITLE SHEET
DE-2	COMPOUND PLAN & ELEVATION
DE-3	ANTENNA PLANS & ELEVATION
DE-4	RF PLUMBING DIAGRAM & B.O.M.
DE-5	GENERAL CONSTRUCTION NOTES





**1**  
DE-2  
**COMPOUND PLAN**  
Scale: 3/32" = 1'-0"

NOTES:  
 1. COMPOUND PLAN IS COMPILED FROM EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT ON 01-12-21 FOR A PROPOSED VERIZON ANTENNA MODIFICATION.  
 2. PLANS ARE DIAGRAMMATIC ONLY AND NOT TO BE SCALED.  
 3. REFER TO STRUCTURAL TOWER AND MOUNT ANALYSIS REPORTS, BY OTHERS UNDER SEPARATE COVER, FOR ANY REQUIRED TOWER & MOUNT REINFORCEMENTS, WHICH MUST BE PERFORMED PRIOR TO ANY OTHER VERIZON ANTENNA MODIFICATIONS.



EXISTING VERIZON ANTENNA (TYP.), REFER TO DE-3 FOR ANTENNA PLANS & PROPOSED MODIFICATIONS; SEE STRUCTURAL NOTE BELOW

EXISTING 153 FT. MONOPOLE  
 EXISTING VERIZON (2) HYBRID & (16) COAXIAL CABLES ROUTED UP POLE TO REMAIN

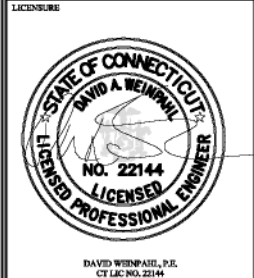
**STRUCTURAL NOTE: REFER TO MOUNT ANALYSIS REPORT AND DRAWINGS FOR REQUIRED MOUNT MODIFICATIONS, PREPARED BY MASER, UNDER SEPARATE COVER.**

GRADE

**2**  
DE-2  
**ELEVATION**  
Scale: NTS

**verizon**  
 WIRELESS COMMUNICATIONS FACILITY  
 20 ALEXANDER DRIVE  
 WALLINGFORD, CT 06492

**On Air Engineering, LLC**  
 88 Foundry Pond Road  
 Cold Spring, NY 10516  
 201-456-4624  
 onair@optonline.net



DAVID WEINPAAL, P.E.  
 CT LIC NO. 22144

SUBMITTALS	
0	05.12.21 REVIEW
1	05.14.21 REVISED PER MOUNT ANALYSIS

NO.	DATE	DESCRIPTION
DRAWN BY:	AS	
CHECKED BY:	DW	

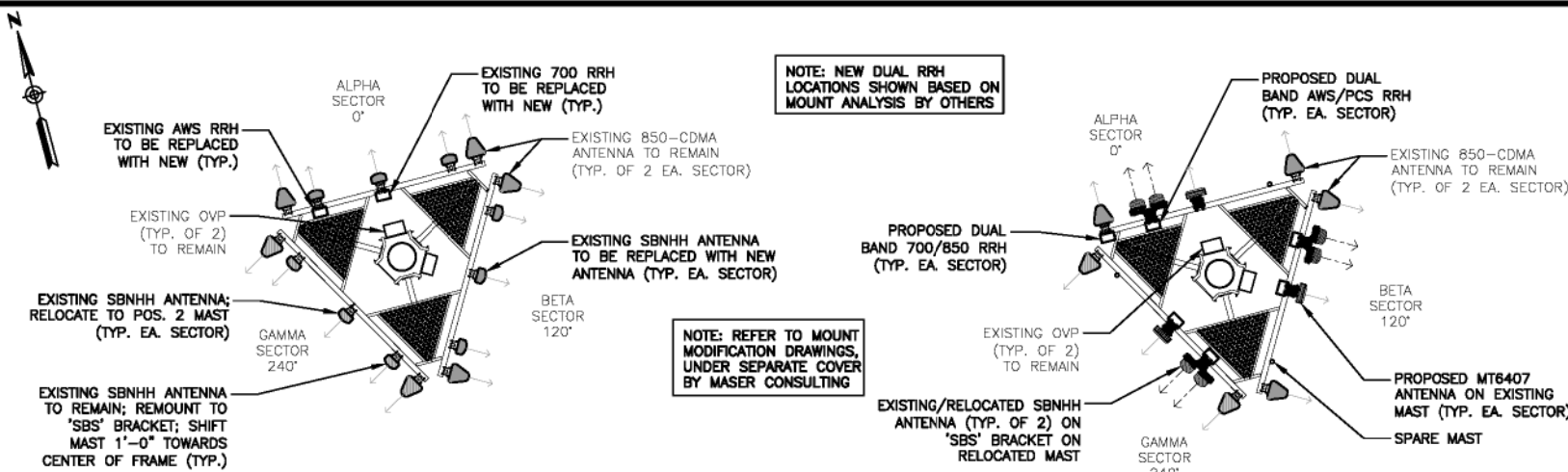
PROJECT NAME:  
**ANTMO  
 MT6407-850-LTE-PCS  
 DESIGN EXHIBITS**

SITE NAME:  
**TORRINGTON EAST CT**

SITE ADDRESS:  
**SBA SITE # CT01499  
 1931 EAST MAIN ST.  
 TORRINGTON, CT 06790**

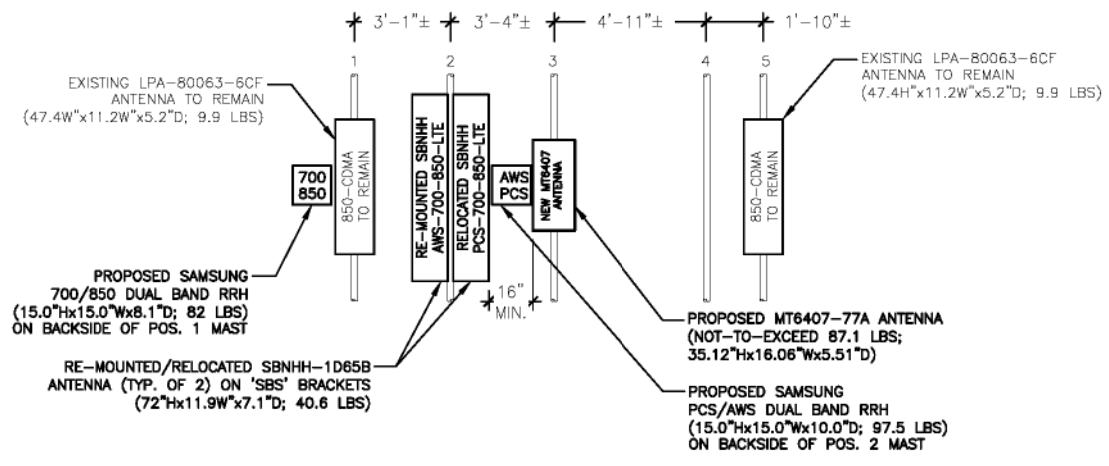
SHEET TITLE:  
**COMPOUND PLAN  
 & ELEVATION**

SHEET NUMBER:  
**DE-2**



**1 ANTENNA PLAN @ 123 FT. - EXISTING**  
 Scale: 1/8" = 1'-0"  
 DE-3

**2 ANTENNA PLAN @ 123 FT. - PROPOSED**  
 Scale: 1/8" = 1'-0"  
 DE-3



(VIEWED FROM BEHIND SECTOR)  
**3 ANTENNA ELEVATION (TYP.) - PROPOSED**  
 Scale: 1/4" = 1'-0"  
 DE-3

**verizon**  
 WIRELESS COMMUNICATIONS FACILITY  
 20 ALEXANDER DRIVE  
 WALLINGFORD, CT 06492

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 88 Foundry Pond Road  
 Cold Spring, NY 10516  
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LICENSEE:  
  
 DAVID WEINMAN, P.E.  
 CT LIC. NO. 22144

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0	05.12.21 REVIEW
1	05.14.21 REVISION PER MOUNT ANALYSIS

NO.	DATE	DESCRIPTION
DRAWN BY:	AS	
CHECKED BY:	DW	

PROJECT NAME:  
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SITE NAME:  
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 1931 EAST MAIN ST.  
 TORRINGTON, CT 06790**

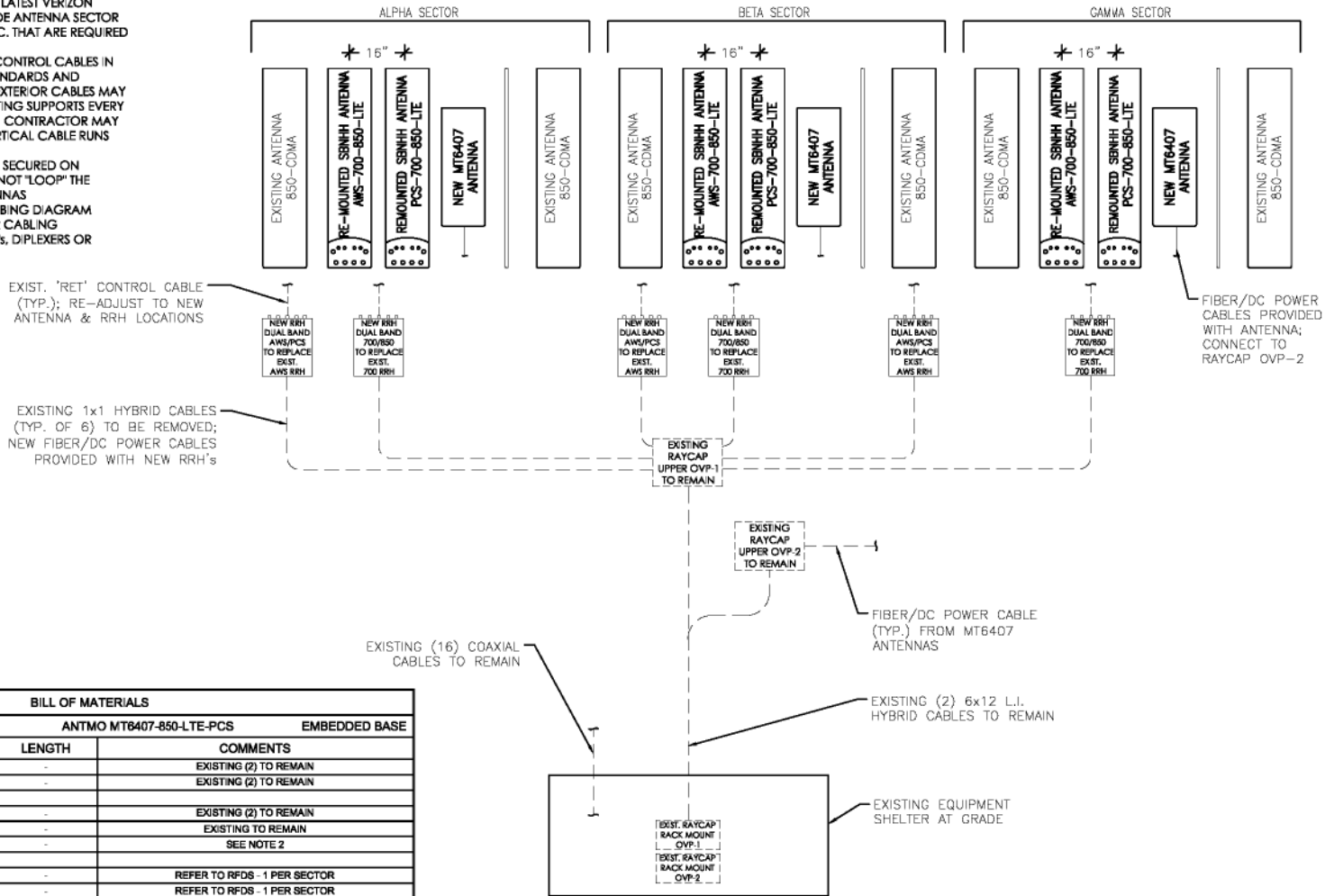
SHEET TITLE:  
**ANTENNA PLANS  
 & ELEVATION**

SHEET NUMBER:  
**DE-3**

**GENERAL NOTES:**

1. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZ/MUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
2. CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS' INSTRUCTIONS. EXTERIOR CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING SUPPORTS EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS WHEN REQUIRED.
3. ALL CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS
4. REFER TO RFDS FOR DETAILED PLUMBING DIAGRAM SHOWING ALL JUMPER AND OTHER CABLE CONNECTIONS AT ANTENNAS, RRH's, DIPLEXERS OR OTHER DEVICES.

NOTE: ALL ANTENNAS VIEWED FROM REAR



BILL OF MATERIALS			
DESCRIPTION	QTY	LENGTH	COMMENTS
LOWER OVP	-	-	EXISTING (2) TO REMAIN
6 CKT. UPPER OVP	-	-	EXISTING (2) TO REMAIN
6x12 L.I. HYBRID CABLE	-	-	EXISTING (2) TO REMAIN
RET CONTROL CABLE	-	-	EXISTING TO REMAIN
1/2" JUMPERS	-	-	SEE NOTE 2
AWS/PCS DUAL BAND RRH	3	-	REFER TO RFDS - 1 PER SECTOR
700/850 DUAL BAND RRH	3	-	REFER TO RFDS - 1 PER SECTOR
MT6407 INTEGRATED ANTENNA	3	-	REFER TO RFDS - 1 PER SECTOR
SBNHH AWS 700-850-LTE ANTENNA	-	-	RELOCATE EXISTING (3) TO SBS BRACKET - 1 PER SECTOR
SBNHH PCS-700-850-LTE ANTENNA	-	-	RELOCATE EXISTING (3) TO SBS BRACKET - 1 PER SECTOR
SBS MOUNTING BRACKET	3	-	REFER TO RFDS - 1 PER SECTOR
850 CDMA ANTENNA	-	-	EXISTING (6) TO REMAIN - 2 PER SECTOR

**NOTES:**  
 1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.  
 2. CONTRACTOR SHALL DETERMINE AND PROVIDE ALL REQUIRED PRE-FAB JUMPER QUANTITIES AND LENGTHS, KEEPING ALL LENGTHS TO A MINIMUM.

**1**  
 DE-4 **RF PLUMBING DIAGRAM**  
 Scale: N.T.S

**verizon**  
 WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE  
 WALLINGFORD, CT 06492

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STATE OF CONNECTICUT  
 DAVID A. WEINPAUL  
 NO. 22144  
 LICENSED PROFESSIONAL ENGINEER

DAVID WEINPAUL, P.E.  
 CT LIC NO. 22144

SUBMITTALS

0	05.12.21	REVIEW
1	05.14.21	REVISED PER MOUNT ANALYSIS

NO. DATE DESCRIPTION

DRAWN BY: AS  
 CHECKED BY: DW

PROJECT NAME:  
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**TORRINGTON EAST CT**

SITE ADDRESS:  
**SBA SITE # CT01499  
 1931 EAST MAIN ST.  
 TORRINGTON, CT 06790**

SHEET TITLE:  
**RF PLUMBING  
 DIAGRAM & B.O.M.**

SHEET NUMBER:  
**DE-4**

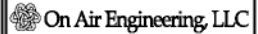
**GENERAL CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELLCO PARTNERSHIP d/b/a VERIZON*, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELLCO PARTNERSHIP d/b/a VERIZON* IS TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.



20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492



88 Foundry Pond Road  
Cold Spring, NY 10516  
201-456-4624  
onair@optonline.net

LICENSEE:



DAVID WEINPAAL, P.E.  
CT LIC NO. 22144

SUBMITTALS	
0	05.12.21 REVIEW
1	05.14.21 REVISOR PER MOUNT ANALYSIS

NO.	DATE	DESCRIPTION
DRAWN BY:	AS	
CHECKED BY:	DW	

PROJECT NAME:  
**ANTMO  
MT6407-850-LTE-PCS  
DESIGN EXHIBITS**

SITE NAME:  
**TORRINGTON EAST CT**

SITE ADDRESS:  
**SBA SITE # CT01499  
1931 EAST MAIN ST.  
TORRINGTON, CT 06790**

SHEET TITLE:  
**GENERAL  
CONSTRUCTION  
NOTES**

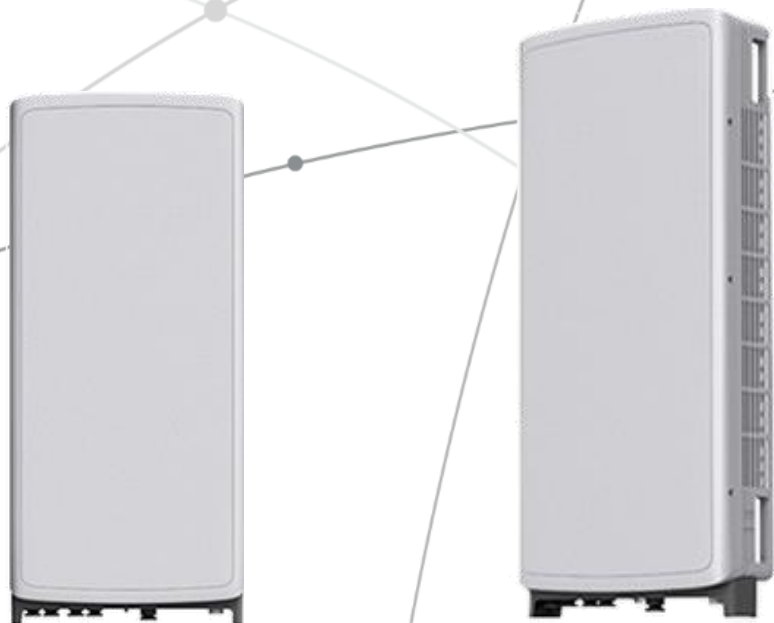
SHEET NUMBER:  
**DE-5**

## **SAMSUNG** C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



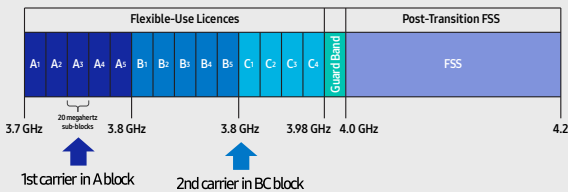
## Points of Differentiation

### Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

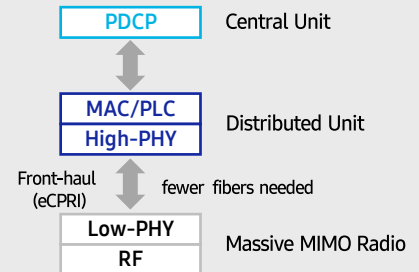
C-Band spectrum supported by Massive MIMO Radio



### Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

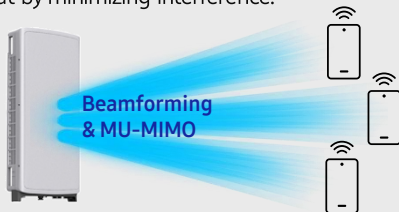


### Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

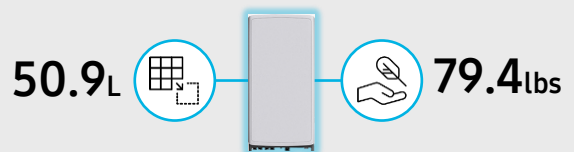
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



### Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



## Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



# SAMSUNG



## **About Samsung Electronics Co., Ltd.**

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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# SAMSUNG

## Dual-Band Radio Unit AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

### Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

### Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection



# SAMSUNG

## Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

### Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

### Key Technical Specifications

Duplex Type: FDD  
Operating Frequencies:  
B13: DL(746-756MHz)/UL(777-787MHz)  
B5: DL(869-894MHz)/UL(824-849MHz)  
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)  
RF Chain: 4T4R/2T4R/2T2R  
Output Power: Total 320W  
DU-RU Interface: CPRI (10Gbps)  
Dimensions: 380 x 380 x 207mm (29.9L)  
Weight: 31.9kg  
Input Power: -48V DC  
Operating Temp.: -40 - 55°(w/o solar load)  
Cooling: Natural convection

# **ATTACHMENT 3**

	General	Power	Density						
<b>Site Name: Torrington E</b>									
<b>Tower Height: Verizon @ 123ft</b>									
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS. EXP.	FRACTION MPE	Total	
*Nextel	9	100	143	851	0.0172	0.5673	0.30%		
*VoiceStream	4	294	133	1930	0.0262	1.0000	0.26%		
*Sprint	4	1005	131	1900	0.0925	1.0000	0.93%		
*Sprint	2	1751	131	2100	0.0806	1.0000	0.81%		
*Sprint	1	377	131	1900	0.0087	1.0000	0.09%		
*Sprint	2	789	131	600	0.0363	0.4000	0.91%		
*Sprint	2	433	131	700	0.0199	0.4667	0.43%		
*Sprint	4	13	153	1900	0.0009	1.0000	0.01%		
*Sprint	1	12	153	850	0.0002	0.5667	0.00%		
*Sprint	2	13	153	2500	0.0004	1.0000	0.00%		
*Pocket (now MetroPCS)	3	631	85	2130	0.1091	1.0000	1.09%		
*Town	no RF information available %MPE estimated							5.00%	
*AT&T-LTE	2	656	95	1900	0.0596	1.0000	0.60%		
*AT&T-LTE	4	1340	95	1900	0.2433	1.0000	2.43%		
*AT&T-LTE	2	627	95	700	0.0569	0.4667	1.22%		
*AT&T-LTE	2	736	95	850	0.0668	0.5667	1.18%		
*AT&T-LTE	4	960	95	2100	0.1743	1.0000	1.74%		
*AT&T-UMTS	2	460	95	850	0.0418	0.5667	0.74%		
*AT&T-UMTS	2	627	95	700	0.0569	0.4667	1.22%		
*AT&T-GSM	4	1005	95	2300	0.1825	1.0000	1.83%		
VZW 700	4	697	123	751	0.0066	0.5007	1.32%		
VZW CDMA	2	473	123	877.26	0.0022	0.5848	0.38%		
VZW Cellular	4	825	123	874	0.0078	0.5827	1.35%		
VZW PCS	4	1052	123	1975	0.0100	1.0000	1.00%		
VZW AWS	4	2080	123	2120	0.0198	1.0000	1.98%		
VZW CBAND	4	6531	123	3730.08	0.0621	1.0000	6.21%		
								33.02%	
* Source: Siting Council									

# **ATTACHMENT 4**



**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
1320 Greenway Drive, Suite 600, Irving, Texas 75038

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## **Structural Analysis Report**

**Existing 153 ft Nudd Corporation Monopole**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT01499-S**

**Customer Site Name: Torrington**

**Carrier Name: Verizon (App#: 156489-1)**

**Carrier Site ID / Name: 324977 / Torrington E CT**

**Site Location: 1925-1931 East Main Street**

**Torrington, Connecticut**

**Litchfield County**

**Latitude: 41.822991**

**Longitude: -73.077199**

Exp.10/31/2021

### **Analysis Result:**

**Max Structural Usage: 90.8% [Pass]**

**Max Foundation Usage: 66.0% [Pass]**

**Additional Usage Caused by Mount Modification: +0%**



06/02/2021

**Report Prepared By : Tawfeeq Alajaj**

## Introduction

The purpose of this report is to summarize the analysis results on the 153 ft Nudd Corporation Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

## Sources of Information

<b>Tower Drawings</b>	Fred A. Nudd Corporation (Project No. 7783) original design drawings dated August 18, 2000
<b>Foundation Drawing</b>	Fred A. Nudd Corporation (Project No. 7783) foundation design drawings dated August 18, 2000
<b>Geotechnical Report</b>	Jaworski Geotech, Inc., Project # 99335G, Dated 11/3/1999
<b>Modification Drawings</b>	Vertical Structures, Inc., Site: Torrington, CT, Dated 9/9/2003 FDH Engineering, Inc. (Project No. 15BFJD1400) Modification Drawings for a 153' Monopole dated March 10, 2015
<b>Mount Analysis</b>	Verizon MA by Maser Consulting Connecticut Project #: 21777083A. Dated 05/11/2021.

## Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the ANSI/TIA/EIA 222-G. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

<b>Wind Speed Used in the Analysis:</b>	Ultimate Design Wind Speed $V_{ult} = 117.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 105.0$ mph (3-Sec. Gust)
<b>Wind Speed with Ice:</b>	40 mph (3-Sec. Gust) with 3/4" radial ice concurrent
<b>Operational Wind Speed:</b>	60 mph + 0" Radial ice
<b>Standard/Codes:</b>	ANSI/TIA/EIA 222-G / 2015 IBC / 2018 Connecticut State Building Code
<b>Exposure Category:</b>	C
<b>Structure Class:</b>	II
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	$S_S = 0.181$ , $S_1 = 0.065$

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

## Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	153.0	3	ALU 1900 MHz RRUs	Low Profile Platform	(4) 1 1/4"	Sprint
2		3	ALU 800 MHz Filters			
3		3	ALU 800 MHz RRUs			
4		4	RFS ACU-A20-N RETs			
5		3	RFS APXVSP18-C-A20 - Panel			
6		3	RFS APXVTM14-C-I20 - Panel			
7		3	TD-RRH8x20-25 RRHs			
8	131.0	3	EMS RR90-17-XXDP	Low Profile Platform w/ (1) MetroSite Heavy Collar Mount (MS-H1436) (1) MetroSite Support Rail Kit (MS-HR35-18) (1) MetroSite Rotatable T-Arm Kit (MS-TAW-350RO) (6) 2" Antenna Mount Pipes (PX2375-10)	(12) 1 5/8" (1) 1 5/8" Fiber	T-Mobile
9		3	RFS APXVAARR24_43-U-NA20			
10		3	Ericsson KRY 112 144/1			
11		3	Ericsson KRY 112 489/2			
12		3	Ericsson Radio 4449 B71+B12			
13	126.0	3	Alcatel Lucent RRH2x60-700	Low Profile Platform	(16) 1 5/8" (2) 1 5/8" Fiber	Verizon
14	123.0	9	Commscope SBNHH-1D65B - Panel			
15		6	Antel LPA-80063/6CF - Panel			
16		3	Alcatel Lucent B66 4X45 AWS			
17		3	Alcatel Lucent RRH2x60-700			
18		3	Alcatel Lucent RRH2X60-PCS			
19		2	RFS DB-T1-6Z-8AB-0Z			
20	110.0	1	10' Omni	(1) Standoff	(1) 1/2"	Torrington PD
21	95.0	3	Powerwave 7770	(3) Sector Frame Commscope P/N MTC3615	(12) 1 5/8" (2) 1/2" Fiber (4) 3/4" DC	AT&T
22		2	KMW AM-X-CW-16-65-00T-RET			
23		1	Kathrein 800 10764 K			
24		4	Cci HPA-65R-BUU-H6			
25		2	Andrew SBNHH-1D65A			
26		6	Powerwave LGP17201 TMA			
27		6	Powerwave LGP21901 Diplexer			
28		3	PolyPhaser 1000860			
29		3	Ericsson RRUS 11			
30		3	Ericsson RRUS 12			
31		3	Ericsson 4426 B66			
32		3	Ericsson RRUS32			
33		3	Ericsson RRUS E2			
34		3	Ericsson RRUS A2			
35		2	Raycap DC6-48-60-18-8F			
36	70.0	1	GPS	(1) Standoff	(1) 1/2"	Unknown

## **Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines**

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
13	123.0	3	Samsung - MT6407-77A - Panel	Low Profile Platform with (3) Andrew 2" SBS	(16) 1 5/8" (2) 1 5/8" Fiber	Verizon
14		6	CommScope - SBNHH-1D65B - Panel			
15		6	Antel - LPA-80063-6CF-EDIN-5 - Panel			
16		3	B2/B66A RRH-BR049 (RFV01U-D1A)			
17		3	B5/B13 RRH-BR04C (RFV01U-D2A)			
18		2	RFS DB-T1-6Z-8AB-OZ			

See the attached coax layout for the line placement considered in the analysis.



## **Analysis Results**

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	<b>90.8%</b>	<b>79.0%</b>	<b>75.6%</b>
Pass/Fail	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## **Foundations**

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	4767.5	45.8	81.1

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

### **Operational Condition (Rigidity):**

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.0142 degrees under the operational wind speed as specified in the Analysis Criteria.

### **Conclusions**

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

## Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

# Usage Diagram - Max Ratio 90.79% at 45.0ft

**Structure:** CT01499-S-SBA  
**Site Name:** Torrington  
**Height:** 153.00 (ft)  
**Base Elev:** 0.000 (ft)

**Code:** EIA/TIA-222-G  
**Exposure:** C  
**Gh:** 1.1

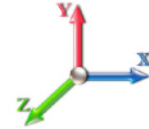
6/2/2021



Page: 1

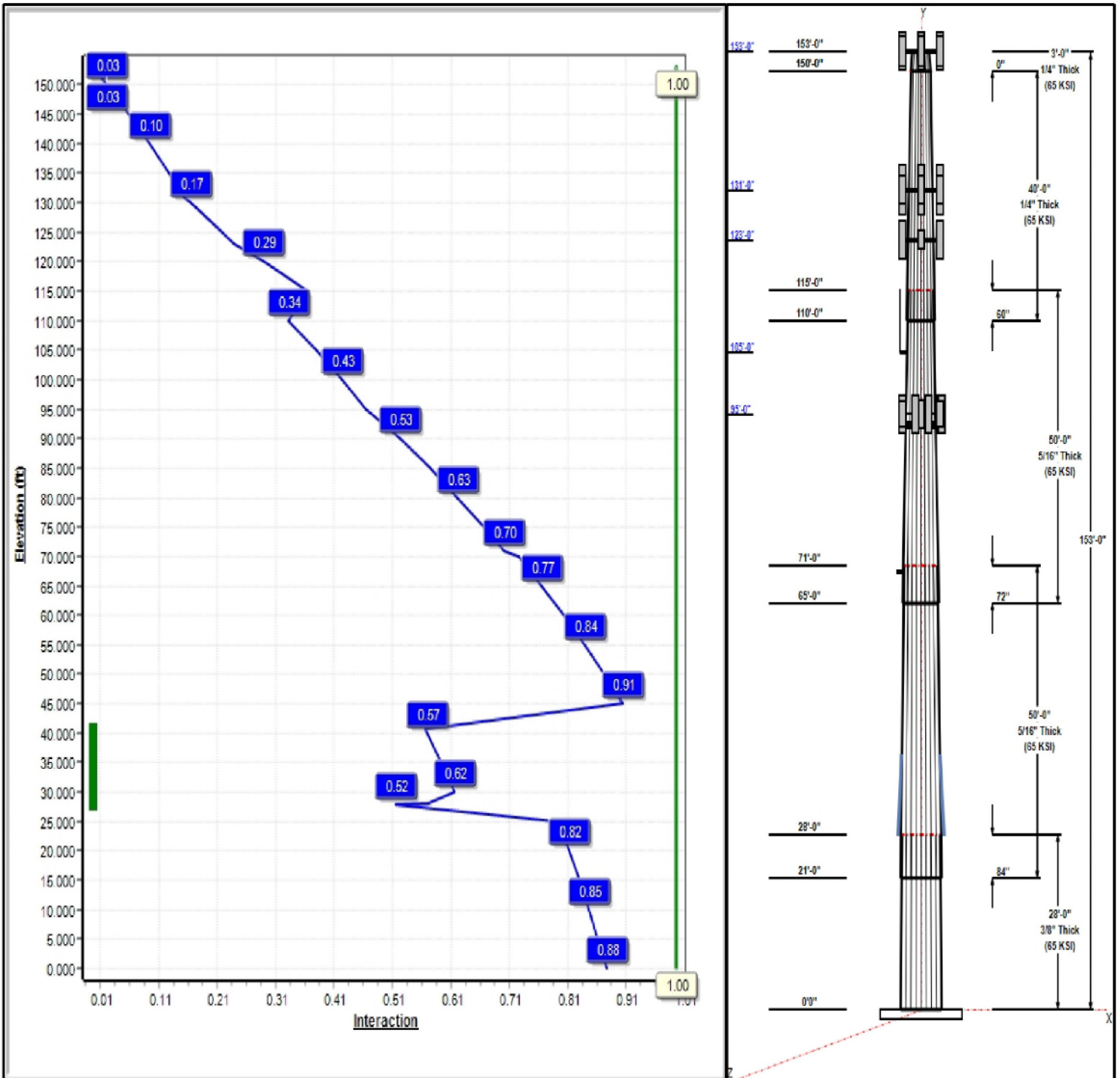
**Dead Load Factor:** 1.20  
**Wind Load Factor:** 1.60

**Load Case : 1.2D + 1.6W 105 mph Wind**



**Iterations:** 22

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## Structure: CT01499-S-SBA

**Type:** Tapered  
**Site Name:** Torrington  
**Height:** 153.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 18 Sided  
**Taper:** 0.24673

6/2/2021

Page: 2

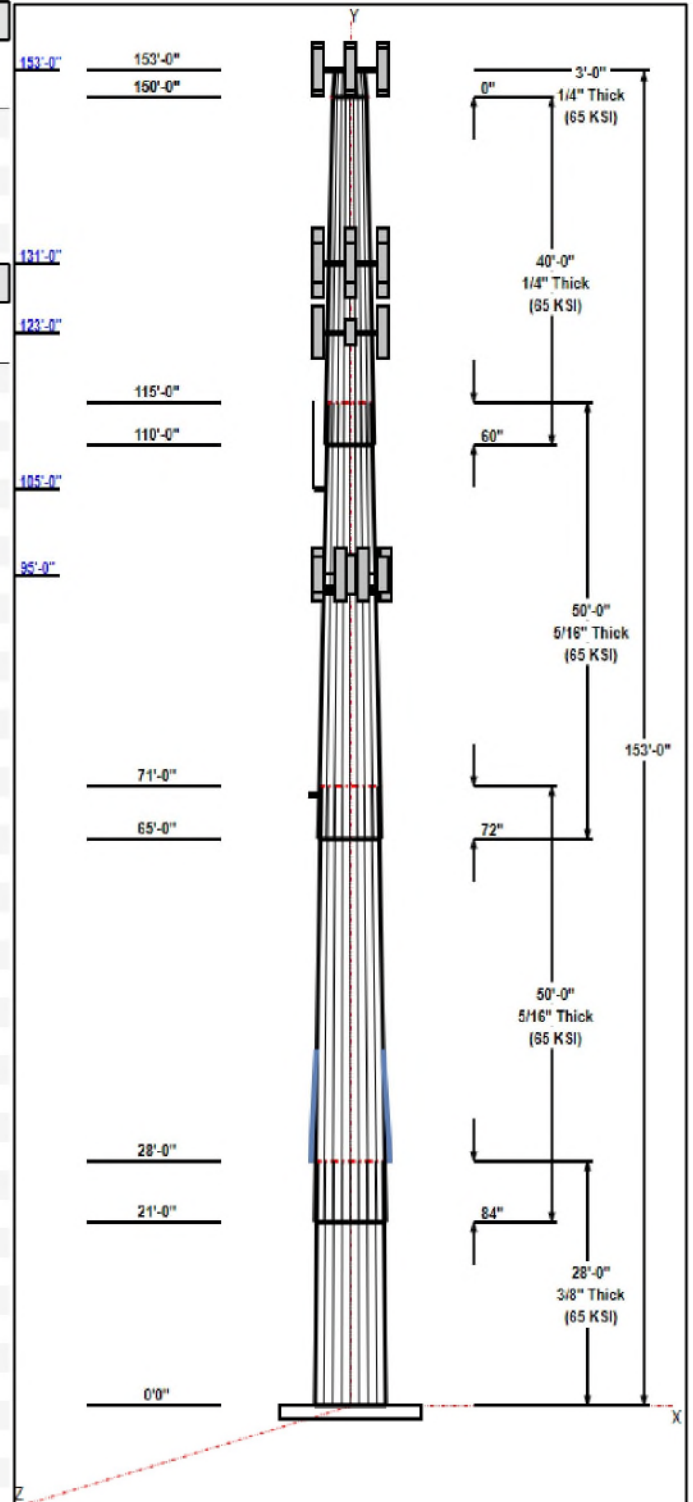


### Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	28.00	53.09	60.00	0.375		0.24673	65
2	50.00	43.11	55.44	0.313	Slip	0.24673	65
3	50.00	32.88	45.21	0.313	Slip	0.24673	65
4	40.00	24.74	34.61	0.250	Slip	0.24673	65
5	3.00	24.00	24.74	0.250	Butt	0.24673	65

### Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
153.00	153.00	3	APXVTM14-C-I20	Sprint
153.00	153.00	3	APXVSP18-C-A20	Sprint
153.00	153.00	3	1900 MHz RRUs	Sprint
153.00	153.00	3	800 MHz RRUs	Sprint
153.00	153.00	3	800 MHz Filters	Sprint
153.00	153.00	4	ACU-A20-N	Sprint
153.00	153.00	3	TD-RRH8x20-25	Sprint
153.00	153.00	1	Low Profile Platform	Sprint
153.00	153.00	1	Lightning Rod	
131.00	131.00	3	APXVAARR24_43-U-NA20	T-Mobile
131.00	131.00	3	KRY 112 144/1	T-Mobile
131.00	131.00	3	KRY 112 489/2	T-Mobile
131.00	131.00	3	4449	T-Mobile
131.00	131.00	1	HRK12 (Handrail Kit)	T-Mobile
131.00	131.00	1	(3) Stabilizer Kit (12' FW)	T-Mobile
131.00	131.00	3	RR90-17-02DP	T-Mobile
131.00	131.00	1	Low Profile Platform	T-Mobile
123.00	123.00	3	MT6407-77A	Verizon
123.00	123.00	6	SBNHH-1D65B	Verizon
123.00	123.00	6	LPA-80063-6CF-EDIN-5	Verizon
123.00	123.00	3	B2/B66A RRH-BR049	Verizon
123.00	123.00	3	B5/B13 RRH-BR04C	Verizon
123.00	123.00	2	RFS DB-T1-6Z-8AB-0Z	Verizon
123.00	123.00	1	Low Profile Platform	Verizon
105.00	110.00	1	10' Omni	Torrington PD
105.00	105.00	1	Standoff	Torrington PD
95.00	95.00	4	HPA-65R-BUU-H6	AT&T
95.00	95.00	3	7770	AT&T
95.00	95.00	2	SBNH-1D65A	AT&T
95.00	95.00	2	AM-X-CW-16-65-00T-RET	AT&T
95.00	95.00	6	LGP17201	AT&T
95.00	95.00	6	LGP21901	AT&T
95.00	95.00	3	RRUS-11	AT&T
95.00	95.00	3	RRUS-12	AT&T
95.00	95.00	3	RRUS-A2	AT&T
95.00	95.00	3	RRUS-32	AT&T
95.00	95.00	3	RRUS-E2	AT&T
95.00	95.00	3	1000860	AT&T
95.00	95.00	2	Raycap/Squid	AT&T
95.00	95.00	3	Sector Frame	AT&T
95.00	95.00	1	800 10764	AT&T
95.00	95.00	3	4426 B66	AT&T
70.00	70.00	1	Standoff	Unknown
70.00	70.00	1	GPS	Unknown



**Structure: CT01499-S-SBA**

**Type:** Tapered  
**Site Name:** Torrington  
**Height:** 153.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 18 Sided  
**Taper:** 0.24673

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**Linear Appurtenances**

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	153.00	Inside	1 1/4" Coax	Sprint
0.00	153.00	Outside	Safety Cable	
0.00	131.00	Inside	1 5/8" Coax	T-Mobile
0.00	123.00	Inside	1 5/8" Coax	Verizon
0.00	123.00	Inside	1 5/8" Coax	Verizon
0.00	123.00	Inside	1 5/8" Fiber	Verizon
0.00	105.00	Inside	1/2" Coax	Torrington PD
0.00	95.00	Outside	1 5/8" Coax	AT&T
0.00	95.00	Outside	1/2" Fiber	AT&T
0.00	95.00	Outside	3/4" DC	AT&T
24.25	44.25	Outside	1.25" Reinforcing plate	

**Anchor Bolts**

Qty	Specifications	Grade (ksi)	Arrangement
18	2.00" F1554 105	105.0	Radial

**Base Plate**

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.5000	73.0	50.0	Round

**Reactions**

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 105 mph Wind	4767.5	45.8	48.6
0.9D + 1.6W 105 mph Wind	4731.3	45.8	36.4
1.2D + 1.0Di + 1.0Wi 40 mph Wind	722.9	7.0	81.1
1.2D + 1.0E	101.0	0.9	48.7
0.9D + 1.0E	100.1	0.9	36.5
1.0D + 1.0W 60 mph Wind	969.2	9.3	40.6

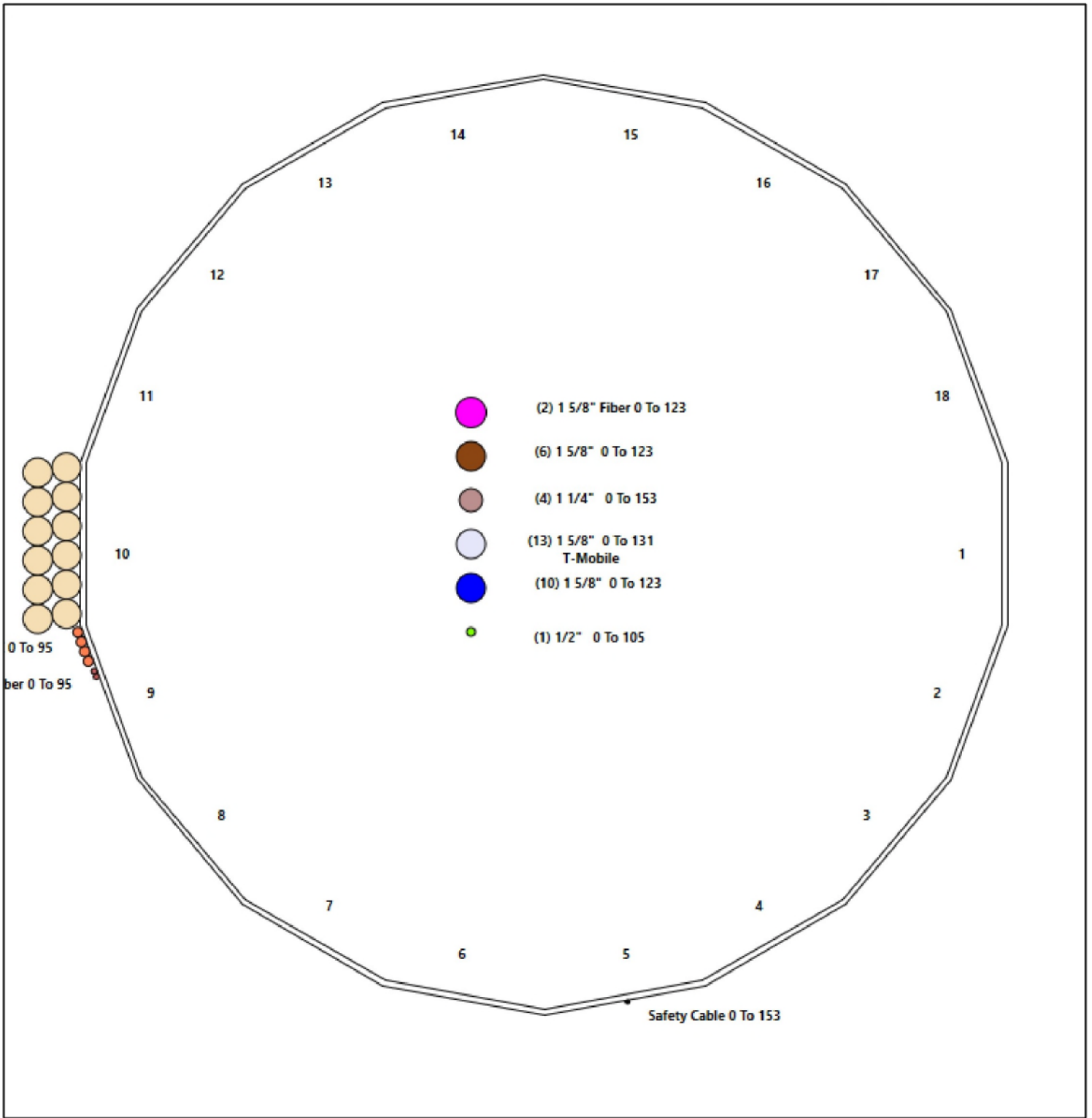


# Structure: CT01499-S-SBA - Coax Line Placement

Type: Monopole  
Site Name: Torrington  
Height: 153.00 (ft)

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## Shaft Properties

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	28.000	0.3750	65		0.00	6,370
2	18	50.000	0.3125	65	Slip	84.00	8,262
3	18	50.000	0.3125	65	Slip	72.00	6,536
4	18	40.000	0.2500	65	Slip	60.00	3,178
5	18	3.000	0.2500	65	Flange	0.00	195
<b>Total Shaft Weight:</b>							<b>24,542</b>

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	60.00	0.00	70.97	31875.78	26.80	160.00	53.09	28.00	62.74	22030.0	23.55	141.5	0.246732
2	55.44	21.00	54.68	20998.34	29.87	177.42	43.11	71.00	42.45	9821.08	22.91	137.9	0.246732
3	45.21	65.00	44.53	11343.08	24.10	144.68	32.88	115.00	32.30	4326.93	17.14	105.2	0.246732
4	34.61	110.0	27.26	4066.53	23.00	138.44	24.74	150.00	19.43	1472.52	16.04	98.96	0.246732
5	24.74	150.0	19.43	1472.52	16.04	98.96	24.00	153.00	18.84	1343.00	15.52	96.00	0.246732

### Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Intermediate Connectors Description	Spacing (in)	Termination Connectors Description	Spacing (in)	Lower Qty	Upper Qty
27.75	40.75	3	PLT 8"x1.25"(1.25Hole)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00	14	14



## Load Summary

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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### Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	153.00	APXVTM14-C-I20	3	56.00	6.34	0.79	216.79	7.456	0.79	0.00	0.00
2	153.00	APXVSP18-C-A20	3	57.00	8.02	0.83	230.19	10.819	0.83	0.00	0.00
3	153.00	1900 MHz RRUUs	3	44.00	3.80	0.88	153.38	5.193	0.88	0.00	0.00
4	153.00	800 MHz RRUUs	3	53.00	2.49	0.92	127.11	3.636	0.92	0.00	0.00
5	153.00	800 MHz Filters	3	8.80	0.78	0.69	26.48	1.428	0.69	0.00	0.00
6	153.00	ACU-A20-N	4	1.00	0.14	0.90	5.30	0.437	0.90	0.00	0.00
7	153.00	TD-RRH8x20-25	3	70.00	4.05	0.69	180.73	4.865	0.69	0.00	0.00
8	153.00	Low Profile Platform	1	1200.00	25.00	1.00	2249.20	45.984	1.00	0.00	0.00
9	153.00	Lightning Rod	1	5.00	0.50	1.00	25.98	2.249	1.00	0.00	0.00
10	131.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	539.60	22.114	0.70	0.00	0.00
11	131.00	KRY 112 144/1	3	11.00	0.41	0.67	21.64	0.879	0.67	0.00	0.00
12	131.00	KRY 112 489/2	3	16.10	0.70	0.67	38.13	1.336	0.67	0.00	0.00
13	131.00	4449	3	70.00	1.65	0.67	137.10	2.180	0.67	0.00	0.00
14	131.00	HRK12 (Handrail Kit)	1	261.72	6.75	1.00	568.14	13.258	1.00	0.00	0.00
15	131.00	(3) Stabilizer Kit (12' FW)	1	180.00	6.10	1.00	403.14	12.402	1.00	0.00	0.00
16	131.00	RR90-17-02DP	3	13.50	4.36	0.68	110.48	5.331	0.68	0.00	0.00
17	131.00	Low Profile Platform	1	1200.00	25.00	1.00	2233.04	45.661	1.00	0.00	0.00
18	123.00	MT6407-77A	3	79.40	4.69	0.70	196.11	5.618	0.70	0.00	0.00
19	123.00	SBNHH-1D65B	6	40.60	8.08	0.83	237.50	9.345	0.83	0.00	0.00
20	123.00	LPA-80063-6CF-EDIN-5	6	27.00	9.76	0.93	283.34	12.459	0.93	0.00	0.00
21	123.00	B2/B66A RRH-BR049	3	84.40	1.87	0.67	159.10	2.431	0.67	0.00	0.00
22	123.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	70.30	1.87	0.67	137.95	2.431	0.67	0.00	0.00
23	123.00	RFS DB-T1-6Z-8AB-0Z	2	18.90	4.80	0.71	137.60	5.785	0.71	0.00	0.00
24	123.00	Low Profile Platform	1	1200.00	25.00	1.00	2226.55	45.531	1.00	0.00	0.00
25	105.00	10' Omni	1	25.00	3.00	1.00	98.39	6.480	1.00	0.00	5.00
26	105.00	Standoff	1	40.00	2.63	1.00	117.47	8.389	1.00	0.00	0.00
27	95.00	HPA-65R-BUU-H6	4	51.00	9.66	0.90	286.30	10.962	0.90	0.00	0.00
28	95.00	7770	3	35.00	5.50	0.73	162.83	6.515	0.73	0.00	0.00
29	95.00	SBNH-1D65A	2	38.40	5.38	0.90	159.53	7.274	0.90	0.00	0.00
30	95.00	AM-X-CW-16-65-00T-RET	2	41.80	8.02	0.75	196.85	10.689	0.75	0.00	0.00
31	95.00	LGP17201	6	31.00	1.95	1.00	67.51	2.902	1.00	0.00	0.00
32	95.00	LGP21901	6	5.50	0.23	0.75	12.85	0.582	0.75	0.00	0.00
33	95.00	RRUS-11	3	55.00	4.42	0.68	140.94	5.853	0.68	0.00	0.00
34	95.00	RRUS-12	3	60.00	3.15	0.67	130.99	4.350	0.67	0.00	0.00
35	95.00	RRUS-A2	3	21.20	1.86	0.62	55.70	2.790	0.62	0.00	0.00
36	95.00	RRUS-32	3	77.00	3.87	0.87	184.52	4.068	0.87	0.00	0.00
37	95.00	RRUS-E2	3	57.30	2.81	0.70	139.69	3.455	0.70	0.00	0.00
38	95.00	1000860	3	2.00	0.06	1.00	4.59	0.260	1.00	0.00	0.00
39	95.00	Raycap/Squid	2	31.80	1.47	0.90	90.86	2.139	0.90	0.00	0.00
40	95.00	Sector Frame	3	500.00	17.50	0.75	1166.92	30.805	0.75	0.00	0.00
41	95.00	800 10764	1	40.80	5.88	0.75	162.62	7.927	0.75	0.00	0.00
42	95.00	4426 B66	3	48.50	1.15	0.73	85.30	1.601	0.73	0.00	0.00
43	70.00	Standoff	1	40.00	2.63	1.00	114.39	8.161	1.00	0.00	0.00
44	70.00	GPS	1	10.00	1.00	1.00	37.17	1.660	1.00	0.00	0.00
<b>Totals:</b>			<b>120</b>	<b>10,149.42</b>			<b>27,218.23</b>				

### Linear Appurtenances

## Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
	Bottom Elev. (ft)	Top Elev. (ft)		Exposed Width		Exposed					
0.00	153.00	(4) 1 1/4" Coax		0.00							
0.00	153.00	(1) Safety Cable		0.38							
0.00	131.00	(13) 1 5/8" Coax		0.00							
0.00	123.00	(6) 1 5/8" Coax		0.00							
0.00	123.00	(10) 1 5/8" Coax		0.00							
0.00	123.00	(2) 1 5/8" Fiber		0.00							
0.00	105.00	(1) 1/2" Coax		0.00							
0.00	95.00	(12) 1 5/8" Coax		3.96							
0.00	95.00	(2) 1/2" Fiber		0.38							
0.00	95.00	(4) 3/4" DC		0.75							
24.25	44.25	(3) 1.25" Reinforcing plate		1.25							

## Shaft Section Properties

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Increment Length:** 5 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
0.00		0.3750	60.000	70.966	31875.8	26.80	160.00	65	70	0.0				
5.00		0.3750	58.766	69.498	29937.9	26.22	156.71	65	71	1194.9				
10.00		0.3750	57.533	68.029	28080.1	25.64	153.42	65	71	1169.9				
15.00		0.3750	56.299	66.561	26300.9	25.06	150.13	65	72	1145.0				
20.00		0.3750	55.065	65.093	24598.5	24.48	146.84	65	73	1120.0				
21.00	Bot - Section 2	0.3750	54.819	64.799	24267.0	24.37	146.18	65	73	221.0				
25.00		0.3750	53.832	63.625	22971.1	23.90	143.55	65	73	1611.6				
27.75	RB1	0.3750	53.153	62.817	22107.5	23.58	141.74	65	74	1091.0	30.00	11437.3	11437.3	280.7
28.00	Top - Section 1	0.3125	53.717	52.968	19086.0	28.90	171.89	65	67	98.5	30.00	11411.9	11411.9	25.5
30.00		0.3125	53.223	52.479	18561.8	28.62	170.31	65	68	358.8	30.00	11209.4	11209.4	204.2
35.00		0.3125	51.989	51.255	17293.5	27.92	166.37	65	69	882.5	30.00	10711.1	10711.1	510.5
40.00		0.3125	50.756	50.032	16084.3	27.23	162.42	65	69	861.6	30.00	10224.2	10224.2	510.5
40.75	RT1	0.3125	50.571	49.848	15908.0	27.12	161.83	65	69	127.5	30.00	10152.1	10152.1	76.6
45.00		0.3125	49.522	48.808	14932.9	26.53	158.47	65	70	713.4				
50.00		0.3125	48.288	47.584	13837.7	25.84	154.52	65	71	820.0				
55.00		0.3125	47.055	46.361	12797.4	25.14	150.58	65	72	799.2				
60.00		0.3125	45.821	45.137	11810.7	24.44	146.63	65	73	778.4				
65.00	Bot - Section 3	0.3125	44.587	43.914	10876.0	23.75	142.68	65	73	757.6				
70.00		0.3125	43.354	42.690	9991.9	23.05	138.73	65	74	1484.0				
71.00	Top - Section 2	0.3125	43.732	43.065	10257.7	23.27	139.94	65	74	291.8				
75.00		0.3125	42.745	42.086	9574.0	22.71	136.78	65	75	579.5				
80.00		0.3125	41.511	40.863	8763.0	22.01	132.84	65	76	705.6				
85.00		0.3125	40.278	39.639	7999.1	21.32	128.89	65	76	684.8				
90.00		0.3125	39.044	38.416	7281.0	20.62	124.94	65	77	664.0				
95.00		0.3125	37.810	37.192	6607.2	19.92	120.99	65	78	643.2				
100.00		0.3125	36.577	35.968	5976.3	19.23	117.05	65	79	622.4				
105.00		0.3125	35.343	34.745	5386.9	18.53	113.10	65	80	601.6				
110.00	Bot - Section 4	0.3125	34.109	33.521	4837.6	17.84	109.15	65	80	580.7				
115.00	Top - Section 3	0.2500	33.376	26.284	3644.0	22.13	133.50	65	75	1015.4				
120.00		0.2500	32.142	25.306	3251.9	21.26	128.57	65	76	438.9				
123.00		0.2500	31.402	24.718	3030.7	20.74	125.61	65	77	255.3				
125.00		0.2500	30.908	24.327	2888.9	20.39	123.63	65	77	166.9				
130.00		0.2500	29.675	23.348	2554.0	19.52	118.70	65	78	405.6				
131.00		0.2500	29.428	23.152	2490.3	19.35	117.71	65	79	79.1				
135.00		0.2500	28.441	22.369	2246.1	18.65	113.76	65	79	309.8				
140.00		0.2500	27.208	21.390	1963.9	17.78	108.83	65	80	372.3				
145.00		0.2500	25.974	20.411	1706.4	16.91	103.90	65	82	355.6				
150.00	Top - Section 4	0.2500	24.740	19.432	1472.5	16.04	98.96	65	83	338.9				
150.00	Bot - Section 5	0.2500	24.740	19.432	1472.5	16.04	98.96	65	83					
153.00		0.2500	24.000	18.845	1343.0	15.52	96.00	65	83	195.4				
<b>Total Weight</b>										<b>24541.5</b>				
											<b>1607.9</b>			

## Wind Loading - Shaft

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



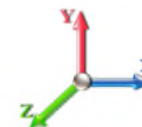
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**Load Case:** 1.2D + 1.6W 105 mph Wind

**Iterations** 22

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)	
0.00		1.00	0.85	22.791	25.07	491.49	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0	
5.00		1.00	0.85	22.791	25.07	481.39	0.650	0.000	5.00	25.125	16.33	655.1	0.0	1433.9	
10.00		1.00	0.85	22.791	25.07	471.28	0.650	0.000	5.00	24.603	15.99	641.5	0.0	1403.9	
15.00		1.00	0.85	22.791	25.07	461.18	0.650	0.000	5.00	24.081	15.65	627.9	0.0	1373.9	
20.00		1.00	0.90	24.182	26.60	464.63	0.650	0.000	5.00	23.559	15.31	651.7	0.0	1344.0	
21.00	Bot - Section 2	1.00	0.91	24.432	26.87	464.93	0.650	0.000	1.00	4.649	3.02	129.9	0.0	265.2	
25.00		1.00	0.95	25.345	27.88	465.02	0.657 *	0.000	4.00	18.599	12.21	544.8	0.0	1933.9	
27.75	RB1	1.00	0.97	25.908	28.50	464.23	0.696 *	0.000	2.75	12.593	8.77	399.8	0.0	1309.2	
28.00	Top - Section 1	1.00	0.97	25.957	28.55	464.13	0.698 *	0.000	0.25	1.137	0.79	36.3	0.0	118.2	
30.00		1.00	0.98	26.337	28.97	468.67	0.696 *	0.000	2.00	9.049	6.30	292.1	0.0	430.6	
35.00		1.00	1.01	27.206	29.93	465.30	0.700 *	0.000	5.00	22.257	15.59	746.3	0.0	1059.0	
40.00		1.00	1.04	27.981	30.78	460.69	0.706 *	0.000	5.00	21.735	15.35	755.9	0.0	1034.0	
40.75	RT1	1.00	1.05	28.091	30.90	459.90	0.710 *	0.000	0.75	3.215	2.28	112.8	0.0	152.9	
45.00		1.00	1.07	28.684	31.55	455.10	0.704 *	0.000	4.25	17.998	12.68	640.0	0.0	856.0	
50.00		1.00	1.09	29.327	32.26	448.71	0.670 *	0.000	5.00	20.692	13.86	715.3	0.0	984.0	
55.00		1.00	1.12	29.922	32.91	441.65	0.675 *	0.000	5.00	20.170	13.62	717.3	0.0	959.0	
60.00		1.00	1.14	30.475	33.52	434.03	0.681 *	0.000	5.00	19.648	13.38	717.9	0.0	934.0	
65.00	Bot - Section 3	1.00	1.16	30.993	34.09	425.92	0.687 *	0.000	5.00	19.126	13.15	717.1	0.0	909.1	
70.00	Appurtenance(s)	1.00	1.17	31.480	34.63	417.38	0.694 *	0.000	5.00	18.868	13.09	725.4	0.0	1780.8	
71.00	Top - Section 2	1.00	1.18	31.574	34.73	415.62	0.698 *	0.000	1.00	3.711	2.59	143.9	0.0	350.2	
75.00		1.00	1.19	31.941	35.13	414.52	0.698 *	0.000	4.00	14.635	10.21	574.2	0.0	695.4	
80.00		1.00	1.21	32.377	35.62	405.30	0.704 *	0.000	5.00	17.824	12.55	715.4	0.0	846.8	
85.00		1.00	1.22	32.793	36.07	395.77	0.712 *	0.000	5.00	17.302	12.32	710.9	0.0	821.8	
90.00		1.00	1.24	33.190	36.51	385.96	0.720 *	0.000	5.00	16.780	12.08	705.6	0.0	796.8	
95.00	Appurtenance(s)	1.00	1.25	33.570	36.93	375.90	0.728 *	0.000	5.00	16.258	11.84	699.7	0.0	771.8	
100.00		1.00	1.27	33.935	37.33	365.61	0.650	0.000	5.00	15.736	10.23	610.9	0.0	746.8	
105.00	Appurtenance(s)	1.00	1.28	34.285	37.71	355.09	0.650	0.000	5.00	15.214	9.89	596.7	0.0	721.9	
110.00	Bot - Section 4	1.00	1.29	34.623	38.08	344.38	0.650	0.000	5.00	14.693	9.55	581.9	0.0	696.9	
115.00	Top - Section 3	1.00	1.30	34.948	38.44	333.48	0.650	0.000	5.00	14.382	9.35	575.0	0.0	1218.5	
120.00		1.00	1.32	35.263	38.79	327.50	0.650	0.000	5.00	13.860	9.01	559.1	0.0	526.6	
123.00	Appurtenance(s)	1.00	1.32	35.446	38.99	320.80	0.650	0.000	3.00	8.066	5.24	327.1	0.0	306.4	
125.00		1.00	1.33	35.567	39.12	316.29	0.650	0.000	2.00	5.273	3.43	214.5	0.0	200.3	
130.00		1.00	1.34	35.862	39.45	304.92	0.650	0.000	5.00	12.816	8.33	525.8	0.0	486.7	
131.00	Appurtenance(s)	1.00	1.34	35.920	39.51	302.63	0.650	0.000	1.00	2.501	1.63	102.8	0.0	94.9	
135.00		1.00	1.35	36.148	39.76	293.41	0.650	0.000	4.00	9.794	6.37	405.0	0.0	371.8	
140.00		1.00	1.36	36.426	40.07	281.76	0.650	0.000	5.00	11.772	7.65	490.6	0.0	446.7	
145.00		1.00	1.37	36.696	40.37	269.98	0.650	0.000	5.00	11.250	7.31	472.3	0.0	426.7	
150.00	Top - Section 4	1.00	1.38	36.959	40.65	258.08	0.650	0.000	5.00	10.728	6.97	453.6	0.0	406.7	
153.00	Appurtenance(s)	1.00	1.38	37.113	40.82	250.88	0.650	0.000	3.00	6.187	4.02	262.7	0.0	234.4	
<b>* Cf Adjusted by Linear Load Ra Effect</b>															
<b>Totals:</b>									<b>153.00</b>			<b>19,554.9</b>			<b>29,449.8</b>



## Discrete Appurtenance Forces

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

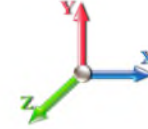


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**Load Case:** 1.2D + 1.6W 105 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



**Iterations** 22

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	153.00	800 MHz RRUs	3	37.113	40.824	0.83	0.90	6.19	190.80	0.000	0.000	404.01	0.00	0.00
2	153.00	APXVTM14-C-I20	3	37.113	40.824	0.71	0.90	13.52	201.60	0.000	0.000	883.32	0.00	0.00
3	153.00	APXVSPP18-C-A20	3	37.113	40.824	0.75	0.90	17.97	205.20	0.000	0.000	1173.97	0.00	0.00
4	153.00	1900 MHz RRUs	3	37.113	40.824	0.79	0.90	9.03	158.40	0.000	0.000	589.75	0.00	0.00
5	153.00	Lightning Rod	1	37.113	40.824	1.00	1.00	0.50	6.00	0.000	0.000	32.66	0.00	0.00
6	153.00	800 MHz Filters	3	37.113	40.824	0.62	0.90	1.45	31.68	0.000	0.000	94.92	0.00	0.00
7	153.00	ACU-A20-N	4	37.113	40.824	0.81	0.90	0.45	4.80	0.000	0.000	29.63	0.00	0.00
8	153.00	TD-RRH8x20-25	3	37.113	40.824	0.62	0.90	7.55	252.00	0.000	0.000	492.84	0.00	0.00
9	153.00	Low Profile Platform	1	37.113	40.824	1.00	1.00	25.00	1440.00	0.000	0.000	1632.98	0.00	0.00
10	131.00	KRY 112 489/2	3	35.920	39.512	0.50	0.75	1.06	57.96	0.000	0.000	66.71	0.00	0.00
11	131.00	KRY 112 144/1	3	35.920	39.512	0.50	0.75	0.62	39.60	0.000	0.000	39.07	0.00	0.00
12	131.00	4449	3	35.920	39.512	0.50	0.75	2.49	252.00	0.000	0.000	157.25	0.00	0.00
13	131.00	APXVAARR24_43-U-NA2	3	35.920	39.512	0.52	0.75	31.88	460.80	0.000	0.000	2015.29	0.00	0.00
14	131.00	RR90-17-02DP	3	35.920	39.512	0.51	0.75	6.67	48.60	0.000	0.000	421.72	0.00	0.00
15	131.00	HRK12 (Handrail Kit)	1	35.920	39.512	1.00	1.00	6.75	314.06	0.000	0.000	426.73	0.00	0.00
16	131.00	(3) Stabilizer Kit (12' FW)	1	35.920	39.512	1.00	1.00	6.10	216.00	0.000	0.000	385.63	0.00	0.00
17	131.00	Low Profile Platform	1	35.920	39.512	1.00	1.00	25.00	1440.00	0.000	0.000	1580.47	0.00	0.00
18	123.00	Low Profile Platform	1	35.446	38.991	1.00	1.00	25.00	1440.00	0.000	0.000	1559.64	0.00	0.00
19	123.00	RFS DB-T1-6Z-8AB-OZ	2	35.446	38.991	0.57	0.80	5.45	45.36	0.000	0.000	340.18	0.00	0.00
20	123.00	B5/B13 RRH-BR04C	3	35.446	38.991	0.54	0.80	3.01	253.08	0.000	0.000	187.59	0.00	0.00
21	123.00	B2/B66A RRH-BR049	3	35.446	38.991	0.54	0.80	3.01	303.84	0.000	0.000	187.59	0.00	0.00
22	123.00	LPA-80063-6CF-EDIN-5	6	35.446	38.991	0.74	0.80	43.57	194.40	0.000	0.000	2718.06	0.00	0.00
23	123.00	SBNHH-1D65B	6	35.446	38.991	0.66	0.80	32.19	292.32	0.000	0.000	2008.24	0.00	0.00
24	123.00	MT6407-77A	3	35.446	38.991	0.56	0.80	7.88	285.84	0.000	0.000	491.55	0.00	0.00
25	105.00	Standoff	1	34.285	37.714	1.00	1.00	2.63	48.00	0.000	0.000	158.70	0.00	0.00
26	105.00	10' Omni	1	34.623	38.085	1.00	1.00	3.00	30.00	0.000	5.000	182.81	0.00	914.04
27	95.00	LGP17201	6	33.570	36.927	0.80	0.80	9.36	223.20	0.000	0.000	553.02	0.00	0.00
28	95.00	RRUS-12	3	33.570	36.927	0.54	0.80	5.07	216.00	0.000	0.000	299.27	0.00	0.00
29	95.00	RRUS-11	3	33.570	36.927	0.54	0.80	7.21	198.00	0.000	0.000	426.20	0.00	0.00
30	95.00	LGP21901	6	33.570	36.927	0.60	0.80	0.83	39.60	0.000	0.000	48.92	0.00	0.00
31	95.00	SBNH-1D65A	2	33.570	36.927	0.72	0.80	7.75	92.16	0.000	0.000	457.73	0.00	0.00
32	95.00	AM-X-CW-16-65-00T-RET	2	33.570	36.927	0.60	0.80	9.62	100.32	0.000	0.000	568.62	0.00	0.00
33	95.00	7770	3	33.570	36.927	0.58	0.80	9.64	126.00	0.000	0.000	569.33	0.00	0.00
34	95.00	HPA-65R-BUU-H6	4	33.570	36.927	0.72	0.80	27.82	244.80	0.000	0.000	1643.76	0.00	0.00
35	95.00	RRUS-A2	3	33.570	36.927	0.50	0.80	2.77	76.32	0.000	0.000	163.52	0.00	0.00
36	95.00	RRUS-32	3	33.570	36.927	0.70	0.80	8.08	277.20	0.000	0.000	477.43	0.00	0.00
37	95.00	RRUS-E2	3	33.570	36.927	0.56	0.80	4.72	206.28	0.000	0.000	278.92	0.00	0.00
38	95.00	1000860	3	33.570	36.927	1.00	1.00	0.18	7.20	0.000	0.000	10.64	0.00	0.00
39	95.00	Raycap/Squid	2	33.570	36.927	0.72	0.80	2.12	76.32	0.000	0.000	125.07	0.00	0.00
40	95.00	Sector Frame	3	33.570	36.927	0.56	0.75	29.53	1800.00	0.000	0.000	1744.82	0.00	0.00
41	95.00	800 10764	1	33.570	36.927	0.60	0.80	3.53	48.96	0.000	0.000	208.45	0.00	0.00
42	95.00	4426 B66	3	33.570	36.927	0.58	0.80	2.01	174.60	0.000	0.000	119.04	0.00	0.00
43	70.00	Standoff	1	31.480	34.628	1.00	1.00	2.63	48.00	0.000	0.000	145.71	0.00	0.00
44	70.00	GPS	1	31.480	34.628	1.00	1.00	1.00	12.00	0.000	0.000	55.40	0.00	0.00
<b>Totals:</b>									<b>12,179.30</b>			<b>26,157.18</b>		

## Total Applied Force Summary

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.6W 105 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



**Iterations** 22

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		655.07	1731.70	0.00	0.00
10.00		641.46	1701.72	0.00	0.00
15.00		627.85	1671.74	0.00	0.00
20.00		651.74	1641.77	0.00	0.00
21.00		129.94	324.76	0.00	0.00
25.00		544.80	2172.16	0.00	0.00
27.75		399.81	1472.96	0.00	0.00
28.00		36.25	133.08	0.00	0.00
30.00		292.09	549.69	0.00	0.00
35.00		746.34	1356.75	0.00	0.00
40.00		755.92	1331.77	0.00	0.00
40.75		112.82	197.61	0.00	0.00
45.00		640.02	1109.17	0.00	0.00
50.00		715.35	1281.80	0.00	0.00
55.00		717.34	1256.82	0.00	0.00
60.00		717.86	1231.84	0.00	0.00
65.00		717.11	1206.86	0.00	0.00
70.00	(2) attachments	926.51	2138.61	0.00	0.00
71.00		143.94	409.73	0.00	0.00
75.00		574.21	933.64	0.00	0.00
80.00		715.40	1144.57	0.00	0.00
85.00		710.89	1119.59	0.00	0.00
90.00		705.62	1094.61	0.00	0.00
95.00	(50) attachments	8394.41	4976.58	0.00	0.00
100.00		610.91	959.44	0.00	0.00
105.00	(2) attachments	938.25	1012.46	0.00	914.04
110.00		581.94	908.52	0.00	0.00
115.00		575.01	1430.17	0.00	0.00
120.00		559.12	738.28	0.00	0.00
123.00	(24) attachments	7819.92	3248.22	0.00	0.00
125.00		214.54	239.71	0.00	0.00
130.00		525.80	585.27	0.00	0.00
131.00	(18) attachments	5195.63	2943.68	0.00	0.00
135.00		405.00	385.74	0.00	0.00
140.00		490.57	464.18	0.00	0.00
145.00		472.29	444.20	0.00	0.00
150.00		453.61	424.21	0.00	0.00
153.00	(24) attachments	5596.74	2735.41	0.00	0.00
<b>Totals:</b>		<b>45,712.08</b>	<b>48,709.04</b>	<b>0.00</b>	<b>914.04</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.6W 105 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



**Iterations** 22

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.091	0.000	22.791	0.00	1.64
5.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.091	0.000	22.791	0.00	74.88
5.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.091	0.000	22.791	0.00	0.72
5.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.091	0.000	22.791	0.00	9.60
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.093	0.000	22.791	0.00	1.64
10.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.093	0.000	22.791	0.00	74.88
10.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.093	0.000	22.791	0.00	0.72
10.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.093	0.000	22.791	0.00	9.60
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.095	0.000	22.791	0.00	1.64
15.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.095	0.000	22.791	0.00	74.88
15.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.095	0.000	22.791	0.00	0.72
15.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.095	0.000	22.791	0.00	9.60
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.097	0.000	24.182	0.00	1.64
20.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.097	0.000	24.182	0.00	74.88
20.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.097	0.000	24.182	0.00	0.72
20.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.097	0.000	24.182	0.00	9.60
21.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.098	0.000	24.432	0.00	0.33
21.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.098	0.000	24.432	0.00	14.98
21.00	1/2" Fiber	Yes	1.00	0.000	0.38	0.03	0.00	0.098	0.000	24.432	0.00	0.14
21.00	3/4" DC	Yes	1.00	0.000	0.75	0.06	0.00	0.098	0.000	24.432	0.00	1.92
25.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.103	1.010	25.345	0.00	1.31
25.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.103	1.010	25.345	0.00	59.90
25.00	1/2" Fiber	Yes	4.00	0.000	0.38	0.13	0.00	0.103	1.010	25.345	0.00	0.58
25.00	3/4" DC	Yes	4.00	0.000	0.75	0.25	0.00	0.103	1.010	25.345	0.00	7.68
25.00	1.25" Reinforcing	Yes	0.75	0.000	1.25	0.08	0.00	0.103	1.010	25.345	0.00	0.00
27.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.124	1.071	25.908	0.00	0.90
27.75	1 5/8" Coax	Yes	2.75	0.000	3.96	0.91	0.00	0.124	1.071	25.908	0.00	41.18
27.75	1/2" Fiber	Yes	2.75	0.000	0.38	0.09	0.00	0.124	1.071	25.908	0.00	0.40
27.75	3/4" DC	Yes	2.75	0.000	0.75	0.17	0.00	0.124	1.071	25.908	0.00	5.28
27.75	1.25" Reinforcing	Yes	2.75	0.000	1.25	0.29	0.00	0.124	1.071	25.908	0.00	0.00
28.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.125	1.074	25.957	0.00	0.08
28.00	1 5/8" Coax	Yes	0.25	0.000	3.96	0.08	0.00	0.125	1.074	25.957	0.00	3.74
28.00	1/2" Fiber	Yes	0.25	0.000	0.38	0.01	0.00	0.125	1.074	25.957	0.00	0.04
28.00	3/4" DC	Yes	0.25	0.000	0.75	0.02	0.00	0.125	1.074	25.957	0.00	0.48
28.00	1.25" Reinforcing	Yes	0.25	0.000	1.25	0.03	0.00	0.125	1.074	25.957	0.00	0.00
30.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.124	1.071	26.337	0.00	0.66
30.00	1 5/8" Coax	Yes	2.00	0.000	3.96	0.66	0.00	0.124	1.071	26.337	0.00	29.95
30.00	1/2" Fiber	Yes	2.00	0.000	0.38	0.06	0.00	0.124	1.071	26.337	0.00	0.29
30.00	3/4" DC	Yes	2.00	0.000	0.75	0.13	0.00	0.124	1.071	26.337	0.00	3.84
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.124	1.071	26.337	0.00	0.00
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.126	1.077	27.206	0.00	1.64
35.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.126	1.077	27.206	0.00	74.88
35.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.126	1.077	27.206	0.00	0.72
35.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.126	1.077	27.206	0.00	9.60
35.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.126	1.077	27.206	0.00	0.00
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.129	1.086	27.981	0.00	1.64
40.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.129	1.086	27.981	0.00	74.88



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.6W 105 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



**Iterations** 22

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
40.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.129	1.086	27.981	0.00	0.72
40.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.129	1.086	27.981	0.00	9.60
40.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.129	1.086	27.981	0.00	0.00
40.75	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.131	1.092	28.091	0.00	0.25
40.75	1 5/8" Coax	Yes	0.75	0.000	3.96	0.25	0.00	0.131	1.092	28.091	0.00	11.23
40.75	1/2" Fiber	Yes	0.75	0.000	0.38	0.02	0.00	0.131	1.092	28.091	0.00	0.11
40.75	3/4" DC	Yes	0.75	0.000	0.75	0.05	0.00	0.131	1.092	28.091	0.00	1.44
40.75	1.25" Reinforcing	Yes	0.75	0.000	1.25	0.08	0.00	0.131	1.092	28.091	0.00	0.00
45.00	Safety Cable	Yes	4.25	0.000	0.38	0.13	0.00	0.128	1.084	28.684	0.00	1.39
45.00	1 5/8" Coax	Yes	4.25	0.000	3.96	1.40	0.00	0.128	1.084	28.684	0.00	63.65
45.00	1/2" Fiber	Yes	4.25	0.000	0.38	0.13	0.00	0.128	1.084	28.684	0.00	0.61
45.00	3/4" DC	Yes	4.25	0.000	0.75	0.27	0.00	0.128	1.084	28.684	0.00	8.16
45.00	1.25" Reinforcing	Yes	3.50	0.000	1.25	0.36	0.00	0.128	1.084	28.684	0.00	0.00
50.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.110	1.030	29.327	0.00	1.64
50.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.110	1.030	29.327	0.00	74.88
50.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.110	1.030	29.327	0.00	0.72
50.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.110	1.030	29.327	0.00	9.60
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.113	1.039	29.922	0.00	1.64
55.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.113	1.039	29.922	0.00	74.88
55.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.113	1.039	29.922	0.00	0.72
55.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.113	1.039	29.922	0.00	9.60
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.116	1.048	30.475	0.00	1.64
60.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.116	1.048	30.475	0.00	74.88
60.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.116	1.048	30.475	0.00	0.72
60.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.116	1.048	30.475	0.00	9.60
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.119	1.058	30.993	0.00	1.64
65.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.119	1.058	30.993	0.00	74.88
65.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.119	1.058	30.993	0.00	0.72
65.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.119	1.058	30.993	0.00	9.60
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.123	1.068	31.480	0.00	1.64
70.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.123	1.068	31.480	0.00	74.88
70.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.123	1.068	31.480	0.00	0.72
70.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.123	1.068	31.480	0.00	9.60
71.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.125	1.074	31.574	0.00	0.33
71.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.125	1.074	31.574	0.00	14.98
71.00	1/2" Fiber	Yes	1.00	0.000	0.38	0.03	0.00	0.125	1.074	31.574	0.00	0.14
71.00	3/4" DC	Yes	1.00	0.000	0.75	0.06	0.00	0.125	1.074	31.574	0.00	1.92
75.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.125	1.074	31.941	0.00	1.31
75.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.125	1.074	31.941	0.00	59.90
75.00	1/2" Fiber	Yes	4.00	0.000	0.38	0.13	0.00	0.125	1.074	31.941	0.00	0.58
75.00	3/4" DC	Yes	4.00	0.000	0.75	0.25	0.00	0.125	1.074	31.941	0.00	7.68
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.128	1.084	32.377	0.00	1.64
80.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.128	1.084	32.377	0.00	74.88
80.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.128	1.084	32.377	0.00	0.72
80.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.128	1.084	32.377	0.00	9.60
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.132	1.095	32.793	0.00	1.64
85.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.132	1.095	32.793	0.00	74.88



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

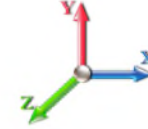


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**Load Case:** 1.2D + 1.6W 105 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



**Iterations** 22

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
85.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.132	1.095	32.793	0.00	0.72
85.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.132	1.095	32.793	0.00	9.60
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.136	1.107	33.190	0.00	1.64
90.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.136	1.107	33.190	0.00	74.88
90.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.136	1.107	33.190	0.00	0.72
90.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.136	1.107	33.190	0.00	9.60
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.140	1.121	33.570	0.00	1.64
95.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.140	1.121	33.570	0.00	74.88
95.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.140	1.121	33.570	0.00	0.72
95.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.140	1.121	33.570	0.00	9.60
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	33.935	0.00	1.64
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	34.285	0.00	1.64
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	34.623	0.00	1.64
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	34.948	0.00	1.64
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	35.263	0.00	1.64
123.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.012	0.000	35.446	0.00	0.98
125.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.012	0.000	35.567	0.00	0.66
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	35.862	0.00	1.64
131.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.013	0.000	35.920	0.00	0.33
135.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.013	0.000	36.148	0.00	1.31
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	36.426	0.00	1.64
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	36.696	0.00	1.64
150.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	36.959	0.00	1.64
153.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.015	0.000	37.113	0.00	0.98
<b>Totals:</b>											<b>0.0</b>	<b>1,668.9</b>

## Calculated Forces

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

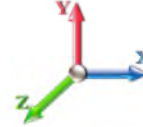


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**Load Case:** 1.2D + 1.6W 105 mph Wind

**Iterations** 22

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-48.62	-45.80	0.00	-4767.5	0.00	4767.54	4463.02	2231.51	10951.4	5483.88	0.00	0.000	0.000	0.881
5.00	-46.73	-45.31	0.00	-4538.5	0.00	4538.54	4413.36	2206.68	10604.1	5309.95	0.11	-0.208	0.000	0.866
10.00	-44.86	-44.83	0.00	-4311.9	0.00	4311.97	4361.89	2180.94	10257.6	5136.44	0.44	-0.418	0.000	0.850
15.00	-43.03	-44.35	0.00	-4087.8	0.00	4087.83	4308.61	2154.31	9912.23	4963.48	1.00	-0.631	0.000	0.834
20.00	-41.30	-43.77	0.00	-3866.0	0.00	3866.09	4253.53	2126.77	9568.22	4791.22	1.77	-0.846	0.000	0.817
21.00	-40.89	-43.71	0.00	-3822.3	0.00	3822.33	4242.30	2121.15	9499.61	4756.87	1.96	-0.890	0.000	0.814
25.00	-38.62	-43.23	0.00	-3647.4	0.00	3647.48	4196.65	2098.33	9225.87	4619.79	2.78	-1.065	0.000	0.799
27.75	-37.11	-42.84	0.00	-3528.6	0.00	3528.60	4164.60	2082.30	9038.39	4525.91	3.43	-1.188	0.000	0.520
28.00	-36.95	-42.82	0.00	-3517.8	0.00	3517.89	3213.57	1606.78	7065.87	3538.19	3.49	-1.195	0.000	0.575
30.00	-36.33	-42.59	0.00	-3432.2	0.00	3432.25	3199.34	1599.67	6969.21	3489.78	4.00	-1.254	0.000	0.621
35.00	-34.87	-41.91	0.00	-3219.2	0.00	3219.29	3162.51	1581.26	6727.41	3368.71	5.40	-1.413	0.000	0.598
40.00	-33.49	-41.17	0.00	-3009.7	0.00	3009.75	3123.88	1561.94	6485.64	3247.64	6.97	-1.571	0.000	0.574
40.75	-33.24	-41.10	0.00	-2978.8	0.00	2978.87	3117.93	1558.96	6449.39	3229.49	7.22	-1.596	0.000	0.570
40.75	-33.24	-41.10	0.00	-2978.8	0.00	2978.87	3117.93	1558.96	6449.39	3229.49	7.22	-1.596	0.000	0.570
45.00	-32.01	-40.54	0.00	-2804.2	0.00	2804.20	3083.44	1541.72	6244.17	3126.72	8.70	-1.730	0.000	0.908
50.00	-30.58	-39.92	0.00	-2601.5	0.00	2601.50	3041.20	1520.60	6003.26	3006.09	10.65	-1.987	0.000	0.876
55.00	-29.17	-39.29	0.00	-2401.9	0.00	2401.91	2997.16	1498.58	5763.21	2885.89	12.87	-2.244	0.000	0.843
60.00	-27.80	-38.64	0.00	-2205.4	0.00	2205.47	2951.32	1475.66	5524.28	2766.24	15.36	-2.500	0.000	0.807
65.00	-26.46	-37.99	0.00	-2012.2	0.00	2012.25	2903.67	1451.83	5286.75	2647.30	18.12	-2.754	0.000	0.770
70.00	-24.27	-37.02	0.00	-1822.3	0.00	1822.31	2854.22	1427.11	5050.90	2529.20	21.14	-3.005	0.000	0.730
71.00	-23.79	-36.91	0.00	-1785.2	0.00	1785.29	2869.57	1434.79	5123.02	2565.32	21.77	-3.057	0.000	0.705
75.00	-22.75	-36.37	0.00	-1637.6	0.00	1637.67	2829.16	1414.58	4935.24	2471.29	24.42	-3.255	0.000	0.671
80.00	-21.51	-35.67	0.00	-1455.8	0.00	1455.83	2777.01	1388.51	4702.41	2354.70	27.95	-3.485	0.000	0.627
85.00	-20.31	-34.97	0.00	-1277.4	0.00	1277.48	2723.06	1361.53	4471.94	2239.29	31.72	-3.707	0.000	0.579
90.00	-19.14	-34.26	0.00	-1102.6	0.00	1102.64	2667.31	1333.66	4244.12	2125.22	35.72	-3.918	0.000	0.527
95.00	-14.68	-25.59	0.00	-931.34	0.00	931.34	2609.76	1304.88	4019.22	2012.60	39.93	-4.117	0.000	0.469
100.00	-13.69	-24.95	0.00	-803.41	0.00	803.41	2550.40	1275.20	3797.52	1901.58	44.34	-4.304	0.000	0.428
105.00	-12.68	-23.98	0.00	-677.75	0.00	677.75	2489.24	1244.62	3579.29	1792.30	48.94	-4.480	0.000	0.384
110.00	-11.76	-23.35	0.00	-557.87	0.00	557.87	2426.28	1213.14	3364.80	1684.90	53.71	-4.643	0.000	0.336
115.00	-10.32	-22.69	0.00	-441.10	0.00	441.10	1783.00	891.50	2427.68	1215.65	58.65	-4.790	0.000	0.369
120.00	-9.60	-22.09	0.00	-327.66	0.00	327.66	1739.91	869.95	2280.12	1141.75	63.74	-4.916	0.000	0.293
123.00	-7.02	-14.02	0.00	-261.40	0.00	261.40	1713.19	856.59	2192.59	1097.92	66.85	-4.994	0.000	0.242
125.00	-6.78	-13.80	0.00	-233.36	0.00	233.36	1695.01	847.51	2134.69	1068.93	68.95	-5.040	0.000	0.223
130.00	-6.24	-13.23	0.00	-164.38	0.00	164.38	1648.31	824.16	1991.67	997.31	74.28	-5.138	0.000	0.169
131.00	-3.76	-7.79	0.00	-151.15	0.00	151.15	1638.75	819.38	1963.38	983.15	75.35	-5.156	0.000	0.156
135.00	-3.41	-7.36	0.00	-119.99	0.00	119.99	1599.81	799.90	1851.33	927.04	79.69	-5.218	0.000	0.132
140.00	-2.98	-6.83	0.00	-83.21	0.00	83.21	1549.50	774.75	1713.96	858.25	85.19	-5.282	0.000	0.099
145.00	-2.58	-6.32	0.00	-49.07	0.00	49.07	1497.39	748.69	1579.82	791.09	90.74	-5.330	0.000	0.064
150.00	-2.20	-5.83	0.00	-17.48	0.00	17.48	1443.48	721.74	1449.20	725.68	96.33	-5.358	0.000	0.026
150.00	-2.20	-5.83	0.00	-17.48	0.00	17.48	1443.48	721.74	1449.20	725.68	96.33	-5.358	0.000	0.026
153.00	0.00	-5.60	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	99.69	-5.363	0.000	0.000

## Wind Loading - Shaft

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

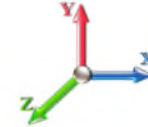


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**Load Case:** 0.9D + 1.6W 105 mph Wind

**Iterations** 22

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)	
0.00		1.00	0.85	22.791	25.07	491.49	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0	
5.00		1.00	0.85	22.791	25.07	481.39	0.650	0.000	5.00	25.125	16.33	655.1	0.0	1075.4	
10.00		1.00	0.85	22.791	25.07	471.28	0.650	0.000	5.00	24.603	15.99	641.5	0.0	1052.9	
15.00		1.00	0.85	22.791	25.07	461.18	0.650	0.000	5.00	24.081	15.65	627.9	0.0	1030.5	
20.00		1.00	0.90	24.182	26.60	464.63	0.650	0.000	5.00	23.559	15.31	651.7	0.0	1008.0	
21.00	Bot - Section 2	1.00	0.91	24.432	26.87	464.93	0.650	0.000	1.00	4.649	3.02	129.9	0.0	198.9	
25.00		1.00	0.95	25.345	27.88	465.02	0.657 *	0.000	4.00	18.599	12.21	544.8	0.0	1450.4	
27.75	RB1	1.00	0.97	25.908	28.50	464.23	0.696 *	0.000	2.75	12.593	8.77	399.8	0.0	981.9	
28.00	Top - Section 1	1.00	0.97	25.957	28.55	464.13	0.698 *	0.000	0.25	1.137	0.79	36.3	0.0	88.6	
30.00		1.00	0.98	26.337	28.97	468.67	0.696 *	0.000	2.00	9.049	6.30	292.1	0.0	322.9	
35.00		1.00	1.01	27.206	29.93	465.30	0.700 *	0.000	5.00	22.257	15.59	746.3	0.0	794.2	
40.00		1.00	1.04	27.981	30.78	460.69	0.706 *	0.000	5.00	21.735	15.35	755.9	0.0	775.5	
40.75	RT1	1.00	1.05	28.091	30.90	459.90	0.710 *	0.000	0.75	3.215	2.28	112.8	0.0	114.7	
45.00		1.00	1.07	28.684	31.55	455.10	0.704 *	0.000	4.25	17.998	12.68	640.0	0.0	642.0	
50.00		1.00	1.09	29.327	32.26	448.71	0.670 *	0.000	5.00	20.692	13.86	715.3	0.0	738.0	
55.00		1.00	1.12	29.922	32.91	441.65	0.675 *	0.000	5.00	20.170	13.62	717.3	0.0	719.3	
60.00		1.00	1.14	30.475	33.52	434.03	0.681 *	0.000	5.00	19.648	13.38	717.9	0.0	700.5	
65.00	Bot - Section 3	1.00	1.16	30.993	34.09	425.92	0.687 *	0.000	5.00	19.126	13.15	717.1	0.0	681.8	
70.00	Appurtenance(s)	1.00	1.17	31.480	34.63	417.38	0.694 *	0.000	5.00	18.868	13.09	725.4	0.0	1335.6	
71.00	Top - Section 2	1.00	1.18	31.574	34.73	415.62	0.698 *	0.000	1.00	3.711	2.59	143.9	0.0	262.6	
75.00		1.00	1.19	31.941	35.13	414.52	0.698 *	0.000	4.00	14.635	10.21	574.2	0.0	521.6	
80.00		1.00	1.21	32.377	35.62	405.30	0.704 *	0.000	5.00	17.824	12.55	715.4	0.0	635.1	
85.00		1.00	1.22	32.793	36.07	395.77	0.712 *	0.000	5.00	17.302	12.32	710.9	0.0	616.3	
90.00		1.00	1.24	33.190	36.51	385.96	0.720 *	0.000	5.00	16.780	12.08	705.6	0.0	597.6	
95.00	Appurtenance(s)	1.00	1.25	33.570	36.93	375.90	0.728 *	0.000	5.00	16.258	11.84	699.7	0.0	578.9	
100.00		1.00	1.27	33.935	37.33	365.61	0.650	0.000	5.00	15.736	10.23	610.9	0.0	560.1	
105.00	Appurtenance(s)	1.00	1.28	34.285	37.71	355.09	0.650	0.000	5.00	15.214	9.89	596.7	0.0	541.4	
110.00	Bot - Section 4	1.00	1.29	34.623	38.08	344.38	0.650	0.000	5.00	14.693	9.55	581.9	0.0	522.7	
115.00	Top - Section 3	1.00	1.30	34.948	38.44	333.48	0.650	0.000	5.00	14.382	9.35	575.0	0.0	913.9	
120.00		1.00	1.32	35.263	38.79	327.50	0.650	0.000	5.00	13.860	9.01	559.1	0.0	395.0	
123.00	Appurtenance(s)	1.00	1.32	35.446	38.99	320.80	0.650	0.000	3.00	8.066	5.24	327.1	0.0	229.8	
125.00		1.00	1.33	35.567	39.12	316.29	0.650	0.000	2.00	5.273	3.43	214.5	0.0	150.2	
130.00		1.00	1.34	35.862	39.45	304.92	0.650	0.000	5.00	12.816	8.33	525.8	0.0	365.0	
131.00	Appurtenance(s)	1.00	1.34	35.920	39.51	302.63	0.650	0.000	1.00	2.501	1.63	102.8	0.0	71.2	
135.00		1.00	1.35	36.148	39.76	293.41	0.650	0.000	4.00	9.794	6.37	405.0	0.0	278.8	
140.00		1.00	1.36	36.426	40.07	281.76	0.650	0.000	5.00	11.772	7.65	490.6	0.0	335.0	
145.00		1.00	1.37	36.696	40.37	269.98	0.650	0.000	5.00	11.250	7.31	472.3	0.0	320.0	
150.00	Top - Section 4	1.00	1.38	36.959	40.65	258.08	0.650	0.000	5.00	10.728	6.97	453.6	0.0	305.1	
153.00	Appurtenance(s)	1.00	1.38	37.113	40.82	250.88	0.650	0.000	3.00	6.187	4.02	262.7	0.0	175.8	
<b>* Cf Adjusted by Linear Load Ra Effect</b>															
<b>Totals:</b>									<b>153.00</b>			<b>19,554.9</b>			<b>22,087.4</b>



## Discrete Appurtenance Forces

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.6W 105 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



**Iterations** 22

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor	x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	153.00	800 MHz RRUs	3	37.113	40.824	0.83	0.90	6.19	143.10	143.10	0.000	0.000	404.01	0.00	0.00
2	153.00	APXVTM14-C-I20	3	37.113	40.824	0.71	0.90	13.52	151.20	151.20	0.000	0.000	883.32	0.00	0.00
3	153.00	APXVSPP18-C-A20	3	37.113	40.824	0.75	0.90	17.97	153.90	153.90	0.000	0.000	1173.97	0.00	0.00
4	153.00	1900 MHz RRUs	3	37.113	40.824	0.79	0.90	9.03	118.80	118.80	0.000	0.000	589.75	0.00	0.00
5	153.00	Lightning Rod	1	37.113	40.824	1.00	1.00	0.50	4.50	4.50	0.000	0.000	32.66	0.00	0.00
6	153.00	800 MHz Filters	3	37.113	40.824	0.62	0.90	1.45	23.76	23.76	0.000	0.000	94.92	0.00	0.00
7	153.00	ACU-A20-N	4	37.113	40.824	0.81	0.90	0.45	3.60	3.60	0.000	0.000	29.63	0.00	0.00
8	153.00	TD-RRH8x20-25	3	37.113	40.824	0.62	0.90	7.55	189.00	189.00	0.000	0.000	492.84	0.00	0.00
9	153.00	Low Profile Platform	1	37.113	40.824	1.00	1.00	25.00	1080.00	1080.00	0.000	0.000	1632.98	0.00	0.00
10	131.00	KRY 112 489/2	3	35.920	39.512	0.50	0.75	1.06	43.47	43.47	0.000	0.000	66.71	0.00	0.00
11	131.00	KRY 112 144/1	3	35.920	39.512	0.50	0.75	0.62	29.70	29.70	0.000	0.000	39.07	0.00	0.00
12	131.00	4449	3	35.920	39.512	0.50	0.75	2.49	189.00	189.00	0.000	0.000	157.25	0.00	0.00
13	131.00	APXVAARR24_43-U-NA2	3	35.920	39.512	0.52	0.75	31.88	345.60	345.60	0.000	0.000	2015.29	0.00	0.00
14	131.00	RR90-17-02DP	3	35.920	39.512	0.51	0.75	6.67	36.45	36.45	0.000	0.000	421.72	0.00	0.00
15	131.00	HRK12 (Handrail Kit)	1	35.920	39.512	1.00	1.00	6.75	235.55	235.55	0.000	0.000	426.73	0.00	0.00
16	131.00	(3) Stabilizer Kit (12' FW)	1	35.920	39.512	1.00	1.00	6.10	162.00	162.00	0.000	0.000	385.63	0.00	0.00
17	131.00	Low Profile Platform	1	35.920	39.512	1.00	1.00	25.00	1080.00	1080.00	0.000	0.000	1580.47	0.00	0.00
18	123.00	Low Profile Platform	1	35.446	38.991	1.00	1.00	25.00	1080.00	1080.00	0.000	0.000	1559.64	0.00	0.00
19	123.00	RFS DB-T1-6Z-8AB-OZ	2	35.446	38.991	0.57	0.80	5.45	34.02	34.02	0.000	0.000	340.18	0.00	0.00
20	123.00	B5/B13 RRH-BR04C	3	35.446	38.991	0.54	0.80	3.01	189.81	189.81	0.000	0.000	187.59	0.00	0.00
21	123.00	B2/B66A RRH-BR049	3	35.446	38.991	0.54	0.80	3.01	227.88	227.88	0.000	0.000	187.59	0.00	0.00
22	123.00	LPA-80063-6CF-EDIN-5	6	35.446	38.991	0.74	0.80	43.57	145.80	145.80	0.000	0.000	2718.06	0.00	0.00
23	123.00	SBNHH-1D65B	6	35.446	38.991	0.66	0.80	32.19	219.24	219.24	0.000	0.000	2008.24	0.00	0.00
24	123.00	MT6407-77A	3	35.446	38.991	0.56	0.80	7.88	214.38	214.38	0.000	0.000	491.55	0.00	0.00
25	105.00	Standoff	1	34.285	37.714	1.00	1.00	2.63	36.00	36.00	0.000	0.000	158.70	0.00	0.00
26	105.00	10' Omni	1	34.623	38.085	1.00	1.00	3.00	22.50	22.50	0.000	5.000	182.81	0.00	914.04
27	95.00	LGP17201	6	33.570	36.927	0.80	0.80	9.36	167.40	167.40	0.000	0.000	553.02	0.00	0.00
28	95.00	RRUS-12	3	33.570	36.927	0.54	0.80	5.07	162.00	162.00	0.000	0.000	299.27	0.00	0.00
29	95.00	RRUS-11	3	33.570	36.927	0.54	0.80	7.21	148.50	148.50	0.000	0.000	426.20	0.00	0.00
30	95.00	LGP21901	6	33.570	36.927	0.60	0.80	0.83	29.70	29.70	0.000	0.000	48.92	0.00	0.00
31	95.00	SBNH-1D65A	2	33.570	36.927	0.72	0.80	7.75	69.12	69.12	0.000	0.000	457.73	0.00	0.00
32	95.00	AM-X-CW-16-65-00T-RET	2	33.570	36.927	0.60	0.80	9.62	75.24	75.24	0.000	0.000	568.62	0.00	0.00
33	95.00	7770	3	33.570	36.927	0.58	0.80	9.64	94.50	94.50	0.000	0.000	569.33	0.00	0.00
34	95.00	HPA-65R-BUU-H6	4	33.570	36.927	0.72	0.80	27.82	183.60	183.60	0.000	0.000	1643.76	0.00	0.00
35	95.00	RRUS-A2	3	33.570	36.927	0.50	0.80	2.77	57.24	57.24	0.000	0.000	163.52	0.00	0.00
36	95.00	RRUS-32	3	33.570	36.927	0.70	0.80	8.08	207.90	207.90	0.000	0.000	477.43	0.00	0.00
37	95.00	RRUS-E2	3	33.570	36.927	0.56	0.80	4.72	154.71	154.71	0.000	0.000	278.92	0.00	0.00
38	95.00	1000860	3	33.570	36.927	1.00	1.00	0.18	5.40	5.40	0.000	0.000	10.64	0.00	0.00
39	95.00	Raycap/Squid	2	33.570	36.927	0.72	0.80	2.12	57.24	57.24	0.000	0.000	125.07	0.00	0.00
40	95.00	Sector Frame	3	33.570	36.927	0.56	0.75	29.53	1350.00	1350.00	0.000	0.000	1744.82	0.00	0.00
41	95.00	800 10764	1	33.570	36.927	0.60	0.80	3.53	36.72	36.72	0.000	0.000	208.45	0.00	0.00
42	95.00	4426 B66	3	33.570	36.927	0.58	0.80	2.01	130.95	130.95	0.000	0.000	119.04	0.00	0.00
43	70.00	Standoff	1	31.480	34.628	1.00	1.00	2.63	36.00	36.00	0.000	0.000	145.71	0.00	0.00
44	70.00	GPS	1	31.480	34.628	1.00	1.00	1.00	9.00	9.00	0.000	0.000	55.40	0.00	0.00
<b>Totals:</b>									<b>9,134.48</b>				<b>26,157.18</b>		

## Total Applied Force Summary

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.6W 105 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



**Iterations** 22

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		655.07	1298.78	0.00	0.00
10.00		641.46	1276.29	0.00	0.00
15.00		627.85	1253.81	0.00	0.00
20.00		651.74	1231.32	0.00	0.00
21.00		129.94	243.57	0.00	0.00
25.00		544.80	1629.12	0.00	0.00
27.75		399.81	1104.72	0.00	0.00
28.00		36.25	99.81	0.00	0.00
30.00		292.09	412.27	0.00	0.00
35.00		746.34	1017.56	0.00	0.00
40.00		755.92	998.82	0.00	0.00
40.75		112.82	148.21	0.00	0.00
45.00		640.02	831.88	0.00	0.00
50.00		715.35	961.35	0.00	0.00
55.00		717.34	942.62	0.00	0.00
60.00		717.86	923.88	0.00	0.00
65.00		717.11	905.14	0.00	0.00
70.00	(2) attachments	926.51	1603.96	0.00	0.00
71.00		143.94	307.30	0.00	0.00
75.00		574.21	700.23	0.00	0.00
80.00		715.40	858.43	0.00	0.00
85.00		710.89	839.69	0.00	0.00
90.00		705.62	820.95	0.00	0.00
95.00	(50) attachments	8394.41	3732.44	0.00	0.00
100.00		610.91	719.58	0.00	0.00
105.00	(2) attachments	938.25	759.35	0.00	914.04
110.00		581.94	681.39	0.00	0.00
115.00		575.01	1072.63	0.00	0.00
120.00		559.12	553.71	0.00	0.00
123.00	(24) attachments	7819.92	2436.16	0.00	0.00
125.00		214.54	179.78	0.00	0.00
130.00		525.80	438.96	0.00	0.00
131.00	(18) attachments	5195.63	2207.76	0.00	0.00
135.00		405.00	289.30	0.00	0.00
140.00		490.57	348.14	0.00	0.00
145.00		472.29	333.15	0.00	0.00
150.00		453.61	318.16	0.00	0.00
153.00	(24) attachments	5596.74	2051.56	0.00	0.00
<b>Totals:</b>		<b>45,712.08</b>	<b>36,531.78</b>	<b>0.00</b>	<b>914.04</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 0.9D + 1.6W 105 mph Wind	<b>Iterations</b> 22
<b>Dead Load Factor</b> 0.90	
<b>Wind Load Factor</b> 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.091	0.000	22.791	0.00	1.23
5.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.091	0.000	22.791	0.00	56.16
5.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.091	0.000	22.791	0.00	0.54
5.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.091	0.000	22.791	0.00	7.20
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.093	0.000	22.791	0.00	1.23
10.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.093	0.000	22.791	0.00	56.16
10.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.093	0.000	22.791	0.00	0.54
10.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.093	0.000	22.791	0.00	7.20
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.095	0.000	22.791	0.00	1.23
15.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.095	0.000	22.791	0.00	56.16
15.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.095	0.000	22.791	0.00	0.54
15.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.095	0.000	22.791	0.00	7.20
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.097	0.000	24.182	0.00	1.23
20.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.097	0.000	24.182	0.00	56.16
20.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.097	0.000	24.182	0.00	0.54
20.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.097	0.000	24.182	0.00	7.20
21.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.098	0.000	24.432	0.00	0.25
21.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.098	0.000	24.432	0.00	11.23
21.00	1/2" Fiber	Yes	1.00	0.000	0.38	0.03	0.00	0.098	0.000	24.432	0.00	0.11
21.00	3/4" DC	Yes	1.00	0.000	0.75	0.06	0.00	0.098	0.000	24.432	0.00	1.44
25.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.103	1.010	25.345	0.00	0.98
25.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.103	1.010	25.345	0.00	44.93
25.00	1/2" Fiber	Yes	4.00	0.000	0.38	0.13	0.00	0.103	1.010	25.345	0.00	0.43
25.00	3/4" DC	Yes	4.00	0.000	0.75	0.25	0.00	0.103	1.010	25.345	0.00	5.76
25.00	1.25" Reinforcing	Yes	0.75	0.000	1.25	0.08	0.00	0.103	1.010	25.345	0.00	0.00
27.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.124	1.071	25.908	0.00	0.68
27.75	1 5/8" Coax	Yes	2.75	0.000	3.96	0.91	0.00	0.124	1.071	25.908	0.00	30.89
27.75	1/2" Fiber	Yes	2.75	0.000	0.38	0.09	0.00	0.124	1.071	25.908	0.00	0.30
27.75	3/4" DC	Yes	2.75	0.000	0.75	0.17	0.00	0.124	1.071	25.908	0.00	3.96
27.75	1.25" Reinforcing	Yes	2.75	0.000	1.25	0.29	0.00	0.124	1.071	25.908	0.00	0.00
28.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.125	1.074	25.957	0.00	0.06
28.00	1 5/8" Coax	Yes	0.25	0.000	3.96	0.08	0.00	0.125	1.074	25.957	0.00	2.81
28.00	1/2" Fiber	Yes	0.25	0.000	0.38	0.01	0.00	0.125	1.074	25.957	0.00	0.03
28.00	3/4" DC	Yes	0.25	0.000	0.75	0.02	0.00	0.125	1.074	25.957	0.00	0.36
28.00	1.25" Reinforcing	Yes	0.25	0.000	1.25	0.03	0.00	0.125	1.074	25.957	0.00	0.00
30.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.124	1.071	26.337	0.00	0.49
30.00	1 5/8" Coax	Yes	2.00	0.000	3.96	0.66	0.00	0.124	1.071	26.337	0.00	22.46
30.00	1/2" Fiber	Yes	2.00	0.000	0.38	0.06	0.00	0.124	1.071	26.337	0.00	0.22
30.00	3/4" DC	Yes	2.00	0.000	0.75	0.13	0.00	0.124	1.071	26.337	0.00	2.88
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.124	1.071	26.337	0.00	0.00
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.126	1.077	27.206	0.00	1.23
35.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.126	1.077	27.206	0.00	56.16
35.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.126	1.077	27.206	0.00	0.54
35.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.126	1.077	27.206	0.00	7.20
35.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.126	1.077	27.206	0.00	0.00
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.129	1.086	27.981	0.00	1.23
40.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.129	1.086	27.981	0.00	56.16



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

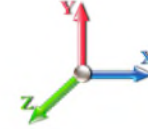


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**Load Case:** 0.9D + 1.6W 105 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



**Iterations** 22

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
40.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.129	1.086	27.981	0.00	0.54
40.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.129	1.086	27.981	0.00	7.20
40.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.129	1.086	27.981	0.00	0.00
40.75	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.131	1.092	28.091	0.00	0.18
40.75	1 5/8" Coax	Yes	0.75	0.000	3.96	0.25	0.00	0.131	1.092	28.091	0.00	8.42
40.75	1/2" Fiber	Yes	0.75	0.000	0.38	0.02	0.00	0.131	1.092	28.091	0.00	0.08
40.75	3/4" DC	Yes	0.75	0.000	0.75	0.05	0.00	0.131	1.092	28.091	0.00	1.08
40.75	1.25" Reinforcing	Yes	0.75	0.000	1.25	0.08	0.00	0.131	1.092	28.091	0.00	0.00
45.00	Safety Cable	Yes	4.25	0.000	0.38	0.13	0.00	0.128	1.084	28.684	0.00	1.04
45.00	1 5/8" Coax	Yes	4.25	0.000	3.96	1.40	0.00	0.128	1.084	28.684	0.00	47.74
45.00	1/2" Fiber	Yes	4.25	0.000	0.38	0.13	0.00	0.128	1.084	28.684	0.00	0.46
45.00	3/4" DC	Yes	4.25	0.000	0.75	0.27	0.00	0.128	1.084	28.684	0.00	6.12
45.00	1.25" Reinforcing	Yes	3.50	0.000	1.25	0.36	0.00	0.128	1.084	28.684	0.00	0.00
50.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.110	1.030	29.327	0.00	1.23
50.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.110	1.030	29.327	0.00	56.16
50.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.110	1.030	29.327	0.00	0.54
50.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.110	1.030	29.327	0.00	7.20
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.113	1.039	29.922	0.00	1.23
55.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.113	1.039	29.922	0.00	56.16
55.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.113	1.039	29.922	0.00	0.54
55.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.113	1.039	29.922	0.00	7.20
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.116	1.048	30.475	0.00	1.23
60.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.116	1.048	30.475	0.00	56.16
60.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.116	1.048	30.475	0.00	0.54
60.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.116	1.048	30.475	0.00	7.20
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.119	1.058	30.993	0.00	1.23
65.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.119	1.058	30.993	0.00	56.16
65.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.119	1.058	30.993	0.00	0.54
65.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.119	1.058	30.993	0.00	7.20
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.123	1.068	31.480	0.00	1.23
70.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.123	1.068	31.480	0.00	56.16
70.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.123	1.068	31.480	0.00	0.54
70.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.123	1.068	31.480	0.00	7.20
71.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.125	1.074	31.574	0.00	0.25
71.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.125	1.074	31.574	0.00	11.23
71.00	1/2" Fiber	Yes	1.00	0.000	0.38	0.03	0.00	0.125	1.074	31.574	0.00	0.11
71.00	3/4" DC	Yes	1.00	0.000	0.75	0.06	0.00	0.125	1.074	31.574	0.00	1.44
75.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.125	1.074	31.941	0.00	0.98
75.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.125	1.074	31.941	0.00	44.93
75.00	1/2" Fiber	Yes	4.00	0.000	0.38	0.13	0.00	0.125	1.074	31.941	0.00	0.43
75.00	3/4" DC	Yes	4.00	0.000	0.75	0.25	0.00	0.125	1.074	31.941	0.00	5.76
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.128	1.084	32.377	0.00	1.23
80.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.128	1.084	32.377	0.00	56.16
80.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.128	1.084	32.377	0.00	0.54
80.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.128	1.084	32.377	0.00	7.20
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.132	1.095	32.793	0.00	1.23
85.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.132	1.095	32.793	0.00	56.16

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 0.9D + 1.6W 105 mph Wind	<b>Iterations</b> 22
<b>Dead Load Factor</b> 0.90	
<b>Wind Load Factor</b> 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
85.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.132	1.095	32.793	0.00	0.54
85.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.132	1.095	32.793	0.00	7.20
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.136	1.107	33.190	0.00	1.23
90.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.136	1.107	33.190	0.00	56.16
90.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.136	1.107	33.190	0.00	0.54
90.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.136	1.107	33.190	0.00	7.20
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.140	1.121	33.570	0.00	1.23
95.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.140	1.121	33.570	0.00	56.16
95.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.140	1.121	33.570	0.00	0.54
95.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.140	1.121	33.570	0.00	7.20
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	33.935	0.00	1.23
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	34.285	0.00	1.23
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	34.623	0.00	1.23
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	34.948	0.00	1.23
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	35.263	0.00	1.23
123.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.012	0.000	35.446	0.00	0.74
125.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.012	0.000	35.567	0.00	0.49
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	35.862	0.00	1.23
131.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.013	0.000	35.920	0.00	0.25
135.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.013	0.000	36.148	0.00	0.98
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	36.426	0.00	1.23
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	36.696	0.00	1.23
150.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	36.959	0.00	1.23
153.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.015	0.000	37.113	0.00	0.74
<b>Totals:</b>											<b>0.0</b>	<b>1,251.7</b>



## Calculated Forces

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



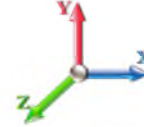
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**Load Case:** 0.9D + 1.6W 105 mph Wind

**Iterations** 22

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.45	-45.78	0.00	-4731.3	0.00	4731.34	4463.02	2231.51	10951.4	5483.88	0.00	0.000	0.000	0.871
5.00	-34.99	-45.25	0.00	-4502.4	0.00	4502.45	4413.36	2206.68	10604.1	5309.95	0.11	-0.206	0.000	0.856
10.00	-33.55	-44.72	0.00	-4276.2	0.00	4276.21	4361.89	2180.94	10257.6	5136.44	0.44	-0.415	0.000	0.841
15.00	-32.14	-44.20	0.00	-4052.6	0.00	4052.60	4308.61	2154.31	9912.23	4963.48	0.99	-0.626	0.000	0.824
20.00	-30.82	-43.60	0.00	-3831.5	0.00	3831.59	4253.53	2126.77	9568.22	4791.22	1.76	-0.839	0.000	0.807
21.00	-30.49	-43.53	0.00	-3787.9	0.00	3787.98	4242.30	2121.15	9499.61	4756.87	1.94	-0.883	0.000	0.804
25.00	-28.76	-43.03	0.00	-3613.8	0.00	3613.87	4196.65	2098.33	9225.87	4619.79	2.75	-1.056	0.000	0.790
27.75	-27.62	-42.64	0.00	-3495.5	0.00	3495.54	4164.60	2082.30	9038.39	4525.91	3.40	-1.177	0.000	0.514
28.00	-27.50	-42.62	0.00	-3484.8	0.00	3484.88	3213.57	1606.78	7065.87	3538.19	3.46	-1.185	0.000	0.568
30.00	-27.01	-42.37	0.00	-3399.6	0.00	3399.64	3199.34	1599.67	6969.21	3489.78	3.97	-1.243	0.000	0.613
35.00	-25.90	-41.67	0.00	-3187.8	0.00	3187.81	3162.51	1581.26	6727.41	3368.71	5.36	-1.401	0.000	0.590
40.00	-24.85	-40.93	0.00	-2979.4	0.00	2979.46	3123.88	1561.94	6485.64	3247.64	6.91	-1.557	0.000	0.567
40.75	-24.65	-40.84	0.00	-2948.7	0.00	2948.77	3117.93	1558.96	6449.39	3229.49	7.16	-1.581	0.000	0.563
40.75	-24.65	-40.84	0.00	-2948.7	0.00	2948.77	3117.93	1558.96	6449.39	3229.49	7.16	-1.581	0.000	0.563
45.00	-23.70	-40.26	0.00	-2775.1	0.00	2775.18	3083.44	1541.72	6244.17	3126.72	8.63	-1.714	0.000	0.896
50.00	-22.59	-39.62	0.00	-2573.8	0.00	2573.88	3041.20	1520.60	6003.26	3006.09	10.56	-1.969	0.000	0.864
55.00	-21.50	-38.96	0.00	-2375.8	0.00	2375.80	2997.16	1498.58	5763.21	2885.89	12.76	-2.223	0.000	0.831
60.00	-20.44	-38.30	0.00	-2181.0	0.00	2181.00	2951.32	1475.66	5524.28	2766.24	15.22	-2.477	0.000	0.796
65.00	-19.40	-37.62	0.00	-1989.5	0.00	1989.52	2903.67	1451.83	5286.75	2647.30	17.95	-2.728	0.000	0.759
70.00	-17.75	-36.66	0.00	-1801.4	0.00	1801.41	2854.22	1427.11	5050.90	2529.20	20.95	-2.976	0.000	0.719
71.00	-17.37	-36.54	0.00	-1764.7	0.00	1764.74	2869.57	1434.79	5123.02	2565.32	21.57	-3.027	0.000	0.695
75.00	-16.57	-35.99	0.00	-1618.5	0.00	1618.58	2829.16	1414.58	4935.24	2471.29	24.19	-3.223	0.000	0.661
80.00	-15.62	-35.29	0.00	-1438.6	0.00	1438.62	2777.01	1388.51	4702.41	2354.70	27.69	-3.450	0.000	0.617
85.00	-14.70	-34.58	0.00	-1262.1	0.00	1262.18	2723.06	1361.53	4471.94	2239.29	31.42	-3.669	0.000	0.570
90.00	-13.80	-33.87	0.00	-1089.2	0.00	1089.27	2667.31	1333.66	4244.12	2125.22	35.38	-3.878	0.000	0.518
95.00	-10.58	-25.28	0.00	-919.91	0.00	919.91	2609.76	1304.88	4019.22	2012.60	39.55	-4.074	0.000	0.462
100.00	-9.83	-24.64	0.00	-793.53	0.00	793.53	2550.40	1275.20	3797.52	1901.58	43.91	-4.259	0.000	0.422
105.00	-9.07	-23.68	0.00	-669.40	0.00	669.40	2489.24	1244.62	3579.29	1792.30	48.46	-4.433	0.000	0.377
110.00	-8.38	-23.07	0.00	-551.01	0.00	551.01	2426.28	1213.14	3364.80	1684.90	53.19	-4.594	0.000	0.331
115.00	-7.30	-22.42	0.00	-435.68	0.00	435.68	1783.00	891.50	2427.68	1215.65	58.08	-4.739	0.000	0.363
120.00	-6.76	-21.83	0.00	-323.56	0.00	323.56	1739.91	869.95	2280.12	1141.75	63.10	-4.864	0.000	0.288
123.00	-4.99	-13.84	0.00	-258.06	0.00	258.06	1713.19	856.59	2192.59	1097.92	66.18	-4.940	0.000	0.238
125.00	-4.81	-13.61	0.00	-230.39	0.00	230.39	1695.01	847.51	2134.69	1068.93	68.26	-4.986	0.000	0.219
130.00	-4.41	-13.06	0.00	-162.32	0.00	162.32	1648.31	824.16	1991.67	997.31	73.53	-5.083	0.000	0.166
131.00	-2.66	-7.69	0.00	-149.26	0.00	149.26	1638.75	819.38	1963.38	983.15	74.60	-5.100	0.000	0.154
135.00	-2.40	-7.26	0.00	-118.52	0.00	118.52	1599.81	799.90	1851.33	927.04	78.89	-5.161	0.000	0.129
140.00	-2.09	-6.74	0.00	-82.21	0.00	82.21	1549.50	774.75	1713.96	858.25	84.33	-5.225	0.000	0.097
145.00	-1.80	-6.24	0.00	-48.50	0.00	48.50	1497.39	748.69	1579.82	791.09	89.82	-5.272	0.000	0.063
150.00	-1.53	-5.76	0.00	-17.29	0.00	17.29	1443.48	721.74	1449.20	725.68	95.35	-5.300	0.000	0.025
150.00	-1.53	-5.76	0.00	-17.29	0.00	17.29	1443.48	721.74	1449.20	725.68	95.35	-5.300	0.000	0.025
153.00	0.00	-5.60	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	98.68	-5.305	0.000	0.000

## Wind Loading - Shaft

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

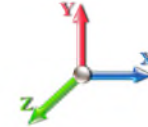


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 40 mph Wind

**Iterations** 21

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	3.308	3.64	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	3.308	3.64	0.00	1.200	1.242	5.00	26.160	31.39	114.2	466.9	1900.8
10.00		1.00	0.85	3.308	3.64	0.00	1.200	1.331	5.00	25.712	30.85	112.3	490.9	1894.8
15.00		1.00	0.85	3.308	3.64	0.00	1.200	1.386	5.00	25.236	30.28	110.2	500.9	1874.9
20.00		1.00	0.90	3.509	3.86	0.00	1.200	1.427	5.00	24.748	29.70	114.6	504.9	1848.9
21.00	Bot - Section 2	1.00	0.91	3.546	3.90	0.00	1.200	1.434	1.00	4.888	5.87	22.9	101.0	366.2
25.00		1.00	0.95	3.678	4.05	0.00	1.212 *	1.459	4.00	19.572	23.73	96.0	408.8	2342.7
27.75	RB1	1.00	0.97	3.760	4.14	0.00	1.285 *	1.474	2.75	13.269	17.06	70.5	280.6	1589.8
28.00	Top - Section 1	1.00	0.97	3.767	4.14	0.00	1.288 *	1.476	0.25	1.198	1.54	6.4	25.5	143.7
30.00		1.00	0.98	3.822	4.20	0.00	1.286 *	1.486	2.00	9.544	12.27	51.6	203.7	634.2
35.00		1.00	1.01	3.948	4.34	0.00	1.293 *	1.509	5.00	23.515	30.40	132.0	505.6	1564.6
40.00		1.00	1.04	4.061	4.47	0.00	1.304 *	1.529	5.00	23.010	30.00	134.0	500.8	1534.8
40.75	RT1	1.00	1.05	4.077	4.48	0.00	1.310 *	1.532	0.75	3.407	4.46	20.0	75.0	227.9
45.00		1.00	1.07	4.163	4.58	0.00	1.300 *	1.547	4.25	19.094	24.83	113.7	420.7	1276.7
50.00		1.00	1.09	4.256	4.68	0.00	1.237 *	1.564	5.00	21.995	27.20	127.3	488.3	1472.3
55.00		1.00	1.12	4.342	4.78	0.00	1.247 *	1.579	5.00	21.485	26.79	128.0	480.9	1439.9
60.00		1.00	1.14	4.423	4.86	0.00	1.258 *	1.592	5.00	20.975	26.38	128.3	472.9	1406.9
65.00	Bot - Section 3	1.00	1.16	4.498	4.95	0.00	1.269 *	1.605	5.00	20.463	25.97	128.5	464.4	1373.5
70.00	Appurtenance(s)	1.00	1.17	4.569	5.03	0.00	1.281 *	1.617	5.00	20.216	25.90	130.1	461.8	2242.6
71.00	Top - Section 2	1.00	1.18	4.582	5.04	0.00	1.289 *	1.619	1.00	3.981	5.13	25.9	92.0	442.2
75.00		1.00	1.19	4.635	5.10	0.00	1.289 *	1.628	4.00	15.721	20.26	103.3	362.0	1057.4
80.00		1.00	1.21	4.699	5.17	0.00	1.300 *	1.639	5.00	19.190	24.95	129.0	442.9	1289.7
85.00		1.00	1.22	4.759	5.24	0.00	1.314 *	1.649	5.00	18.676	24.54	128.5	433.0	1254.7
90.00		1.00	1.24	4.817	5.30	0.00	1.329 *	1.658	5.00	18.162	24.14	127.9	422.7	1219.5
95.00	Appurtenance(s)	1.00	1.25	4.872	5.36	0.00	1.345 *	1.667	5.00	17.648	23.73	127.2	412.2	1184.0
100.00		1.00	1.27	4.925	5.42	0.00	1.200	1.676	5.00	17.133	20.56	111.4	401.5	1148.3
105.00	Appurtenance(s)	1.00	1.28	4.976	5.47	0.00	1.200	1.684	5.00	16.618	19.94	109.1	390.5	1112.4
110.00	Bot - Section 4	1.00	1.29	5.025	5.53	0.00	1.200	1.692	5.00	16.102	19.32	106.8	379.3	1076.2
115.00	Top - Section 3	1.00	1.30	5.072	5.58	0.00	1.200	1.699	5.00	15.798	18.96	105.8	373.3	1591.8
120.00		1.00	1.32	5.117	5.63	0.00	1.200	1.707	5.00	15.282	18.34	103.2	361.7	888.4
123.00	Appurtenance(s)	1.00	1.32	5.144	5.66	0.00	1.200	1.711	3.00	8.921	10.71	60.6	212.8	519.2
125.00		1.00	1.33	5.162	5.68	0.00	1.200	1.714	2.00	5.844	7.01	39.8	140.0	340.3
130.00		1.00	1.34	5.204	5.72	0.00	1.200	1.720	5.00	14.250	17.10	97.9	338.2	824.9
131.00	Appurtenance(s)	1.00	1.34	5.213	5.73	0.00	1.200	1.722	1.00	2.788	3.35	19.2	67.2	162.1
135.00		1.00	1.35	5.246	5.77	0.00	1.200	1.727	4.00	10.945	13.13	75.8	261.0	632.7
140.00		1.00	1.36	5.286	5.81	0.00	1.200	1.733	5.00	13.217	15.86	92.2	314.1	760.8
145.00		1.00	1.37	5.325	5.86	0.00	1.200	1.739	5.00	12.700	15.24	89.3	301.8	728.5
150.00	Top - Section 4	1.00	1.38	5.364	5.90	0.00	1.200	1.745	5.00	12.183	14.62	86.3	289.4	696.1
153.00	Appurtenance(s)	1.00	1.38	5.386	5.92	0.00	1.200	1.749	3.00	7.061	8.47	50.2	169.1	403.6
<b>Totals:</b>								<b>153.00</b>			<b>3,529.9</b>	<b>42,468.2</b>		

\* Cf Adjusted by Linear Load Ra Effect



## Discrete Appurtenance Forces

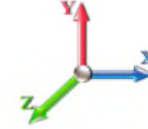
<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0Di + 1.0Wi 40 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 21

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	153.00	800 MHz RRUs	3	5.386	5.925	0.83	0.90	9.03	349.82	0.000	0.000	53.51	0.00	0.00
2	153.00	APXVTM14-C-I20	3	5.386	5.925	0.71	0.90	15.90	683.98	0.000	0.000	94.22	0.00	0.00
3	153.00	APXVSPP18-C-A20	3	5.386	5.925	0.75	0.90	24.25	576.28	0.000	0.000	143.65	0.00	0.00
4	153.00	1900 MHz RRUs	3	5.386	5.925	0.79	0.90	12.34	392.94	0.000	0.000	73.10	0.00	0.00
5	153.00	Lightning Rod	1	5.386	5.925	1.00	1.00	2.25	20.98	0.000	0.000	13.32	0.00	0.00
6	153.00	800 MHz Filters	3	5.386	5.925	0.62	0.90	2.66	69.71	0.000	0.000	15.76	0.00	0.00
7	153.00	ACU-A20-N	4	5.386	5.925	0.81	0.90	1.42	16.82	0.000	0.000	8.39	0.00	0.00
8	153.00	TD-RRH8x20-25	3	5.386	5.925	0.62	0.90	9.06	584.18	0.000	0.000	53.70	0.00	0.00
9	153.00	Low Profile Platform	1	5.386	5.925	1.00	1.00	45.98	2189.20	0.000	0.000	272.44	0.00	0.00
10	131.00	KRY 112 489/2	3	5.213	5.734	0.50	0.75	2.01	104.86	0.000	0.000	11.55	0.00	0.00
11	131.00	KRY 112 144/1	3	5.213	5.734	0.50	0.75	1.32	62.21	0.000	0.000	7.60	0.00	0.00
12	131.00	4449	3	5.213	5.734	0.50	0.75	3.29	453.29	0.000	0.000	18.84	0.00	0.00
13	131.00	APXVAARR24_43-U-NA2	3	5.213	5.734	0.52	0.75	34.83	1695.61	0.000	0.000	199.71	0.00	0.00
14	131.00	RR90-17-02DP	3	5.213	5.734	0.51	0.75	8.16	339.55	0.000	0.000	46.77	0.00	0.00
15	131.00	HRK12 (Handrail Kit)	1	5.213	5.734	1.00	1.00	13.26	882.20	0.000	0.000	76.02	0.00	0.00
16	131.00	(3) Stabilizer Kit (12' FW)	1	5.213	5.734	1.00	1.00	12.40	369.14	0.000	0.000	71.11	0.00	0.00
17	131.00	Low Profile Platform	1	5.213	5.734	1.00	1.00	45.66	2173.04	0.000	0.000	261.83	0.00	0.00
18	123.00	Low Profile Platform	1	5.144	5.659	1.00	1.00	45.53	2166.55	0.000	0.000	257.64	0.00	0.00
19	123.00	RFS DB-T1-6Z-8AB-OZ	2	5.144	5.659	0.57	0.80	6.57	228.56	0.000	0.000	37.19	0.00	0.00
20	123.00	B5/B13 RRH-BR04C	3	5.144	5.659	0.54	0.80	3.91	456.04	0.000	0.000	22.12	0.00	0.00
21	123.00	B2/B66A RRH-BR049	3	5.144	5.659	0.54	0.80	3.91	527.93	0.000	0.000	22.12	0.00	0.00
22	123.00	LPA-80063-6CF-EDIN-5	6	5.144	5.659	0.74	0.80	55.61	1283.07	0.000	0.000	314.70	0.00	0.00
23	123.00	SBNHH-1D65B	6	5.144	5.659	0.66	0.80	37.23	1473.72	0.000	0.000	210.67	0.00	0.00
24	123.00	MT6407-77A	3	5.144	5.659	0.56	0.80	9.44	635.96	0.000	0.000	53.41	0.00	0.00
25	105.00	Standoff	1	4.976	5.473	1.00	1.00	8.39	102.47	0.000	0.000	45.92	0.00	0.00
26	105.00	10' Omni	1	5.025	5.527	1.00	1.00	6.48	81.69	0.000	5.000	35.82	0.00	179.08
27	95.00	LGP17201	6	4.872	5.359	0.80	0.80	13.93	376.87	0.000	0.000	74.65	0.00	0.00
28	95.00	RRUS-12	3	4.872	5.359	0.54	0.80	6.99	365.36	0.000	0.000	37.48	0.00	0.00
29	95.00	RRUS-11	3	4.872	5.359	0.54	0.80	9.55	378.73	0.000	0.000	51.19	0.00	0.00
30	95.00	LGP21901	6	4.872	5.359	0.60	0.80	2.09	70.48	0.000	0.000	11.22	0.00	0.00
31	95.00	SBNH-1D65A	2	4.872	5.359	0.72	0.80	10.48	261.83	0.000	0.000	56.14	0.00	0.00
32	95.00	AM-X-CW-16-65-00T-RET	2	4.872	5.359	0.60	0.80	12.83	317.43	0.000	0.000	68.74	0.00	0.00
33	95.00	7770	3	4.872	5.359	0.58	0.80	11.41	509.48	0.000	0.000	61.17	0.00	0.00
34	95.00	HPA-65R-BUU-H6	4	4.872	5.359	0.72	0.80	31.57	1185.99	0.000	0.000	169.19	0.00	0.00
35	95.00	RRUS-A2	3	4.872	5.359	0.50	0.80	4.15	149.21	0.000	0.000	22.25	0.00	0.00
36	95.00	RRUS-32	3	4.872	5.359	0.70	0.80	8.49	599.75	0.000	0.000	45.52	0.00	0.00
37	95.00	RRUS-E2	3	4.872	5.359	0.56	0.80	5.80	453.46	0.000	0.000	31.10	0.00	0.00
38	95.00	1000860	3	4.872	5.359	1.00	1.00	0.78	12.58	0.000	0.000	4.18	0.00	0.00
39	95.00	Raycap/Squid	2	4.872	5.359	0.72	0.80	3.08	159.05	0.000	0.000	16.50	0.00	0.00
40	95.00	Sector Frame	3	4.872	5.359	0.56	0.75	51.98	3200.75	0.000	0.000	278.58	0.00	0.00
41	95.00	800 10764	1	4.872	5.359	0.60	0.80	4.76	134.28	0.000	0.000	25.49	0.00	0.00
42	95.00	4426 B66	3	4.872	5.359	0.58	0.80	2.81	285.00	0.000	0.000	15.03	0.00	0.00
43	70.00	Standoff	1	4.569	5.025	1.00	1.00	8.16	99.39	0.000	0.000	41.01	0.00	0.00
44	70.00	GPS	1	4.569	5.025	1.00	1.00	1.66	31.17	0.000	0.000	8.34	0.00	0.00
<b>Totals:</b>									<b>26,510.63</b>			<b>3,438.89</b>		

## Total Applied Force Summary

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

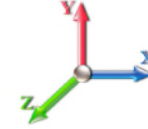


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 40 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 21

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		114.21	2391.81	0.00	0.00
10.00		112.26	2401.06	0.00	0.00
15.00		110.18	2390.78	0.00	0.00
20.00		114.64	2371.92	0.00	0.00
21.00		22.88	471.10	0.00	0.00
25.00		96.00	2771.23	0.00	0.00
27.75		70.54	1902.37	0.00	0.00
28.00		6.40	172.13	0.00	0.00
30.00		51.59	862.55	0.00	0.00
35.00		132.04	2140.31	0.00	0.00
40.00		134.00	2114.87	0.00	0.00
40.75		20.02	315.05	0.00	0.00
45.00		113.70	1767.31	0.00	0.00
50.00		127.33	2020.18	0.00	0.00
55.00		127.95	1990.59	0.00	0.00
60.00		128.33	1960.20	0.00	0.00
65.00		128.48	1929.12	0.00	0.00
70.00	(2) attachments	179.49	2931.07	0.00	0.00
71.00		25.86	553.83	0.00	0.00
75.00		103.28	1505.42	0.00	0.00
80.00		128.97	1851.65	0.00	0.00
85.00		128.49	1818.60	0.00	0.00
90.00		127.89	1785.16	0.00	0.00
95.00	(50) attachments	1095.61	10211.63	0.00	0.00
100.00		111.38	1380.57	0.00	0.00
105.00	(2) attachments	190.88	1528.95	0.00	179.08
110.00		106.80	1307.85	0.00	0.00
115.00		105.77	1823.62	0.00	0.00
120.00		103.23	1120.37	0.00	0.00
123.00	(24) attachments	978.42	7430.33	0.00	0.00
125.00		39.82	387.93	0.00	0.00
130.00		97.90	944.12	0.00	0.00
131.00	(18) attachments	712.62	6265.85	0.00	0.00
135.00		75.79	663.33	0.00	0.00
140.00		92.22	799.17	0.00	0.00
145.00		89.27	767.05	0.00	0.00
150.00		86.25	734.79	0.00	0.00
153.00	(24) attachments	778.29	5310.76	0.00	0.00
<b>Totals:</b>		<b>6,968.76</b>	<b>81,094.61</b>	<b>0.00</b>	<b>179.08</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

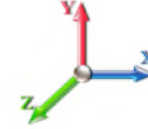


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 40 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 21

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	1.19	0.00	0.091	0.000	3.308	0.00	12.93
5.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.69	0.00	0.091	0.000	3.308	0.00	218.70
5.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.19	0.00	0.091	0.000	3.308	0.00	13.94
5.00	3/4" DC	Yes	5.00	0.000	0.75	1.35	0.00	0.091	0.000	3.308	0.00	34.45
10.00	Safety Cable	Yes	5.00	0.000	0.38	1.27	0.00	0.093	0.000	3.308	0.00	14.46
10.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.76	0.00	0.093	0.000	3.308	0.00	228.34
10.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.27	0.00	0.093	0.000	3.308	0.00	15.60
10.00	3/4" DC	Yes	5.00	0.000	0.75	1.42	0.00	0.093	0.000	3.308	0.00	36.89
15.00	Safety Cable	Yes	5.00	0.000	0.38	1.31	0.00	0.095	0.000	3.308	0.00	15.46
15.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.81	0.00	0.095	0.000	3.308	0.00	234.34
15.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.31	0.00	0.095	0.000	3.308	0.00	16.68
15.00	3/4" DC	Yes	5.00	0.000	0.75	1.47	0.00	0.095	0.000	3.308	0.00	38.45
20.00	Safety Cable	Yes	5.00	0.000	0.38	1.35	0.00	0.097	0.000	3.509	0.00	16.21
20.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.84	0.00	0.097	0.000	3.509	0.00	238.78
20.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.35	0.00	0.097	0.000	3.509	0.00	17.49
20.00	3/4" DC	Yes	5.00	0.000	0.75	1.50	0.00	0.097	0.000	3.509	0.00	39.62
21.00	Safety Cable	Yes	1.00	0.000	0.38	0.27	0.00	0.098	0.000	3.546	0.00	3.27
21.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.57	0.00	0.098	0.000	3.546	0.00	47.91
21.00	1/2" Fiber	Yes	1.00	0.000	0.38	0.27	0.00	0.098	0.000	3.546	0.00	3.53
21.00	3/4" DC	Yes	1.00	0.000	0.75	0.30	0.00	0.098	0.000	3.546	0.00	7.96
25.00	Safety Cable	Yes	4.00	0.000	0.38	1.10	0.00	0.103	1.010	3.678	0.00	13.46
25.00	1 5/8" Coax	Yes	4.00	0.000	3.96	2.29	0.00	0.103	1.010	3.678	0.00	193.85
25.00	1/2" Fiber	Yes	4.00	0.000	0.38	1.10	0.00	0.103	1.010	3.678	0.00	14.52
25.00	3/4" DC	Yes	4.00	0.000	0.75	1.22	0.00	0.103	1.010	3.678	0.00	32.45
25.00	1.25" Reinforcing	Yes	0.75	0.000	1.25	0.26	0.00	0.103	1.010	3.678	0.00	5.44
27.75	Safety Cable	Yes	2.75	0.000	0.38	0.76	0.00	0.124	1.071	3.760	0.00	9.42
27.75	1 5/8" Coax	Yes	2.75	0.000	3.96	1.58	0.00	0.124	1.071	3.760	0.00	134.20
27.75	1/2" Fiber	Yes	2.75	0.000	0.38	0.76	0.00	0.124	1.071	3.760	0.00	10.16
27.75	3/4" DC	Yes	2.75	0.000	0.75	0.85	0.00	0.124	1.071	3.760	0.00	22.56
27.75	1.25" Reinforcing	Yes	2.75	0.000	1.25	0.96	0.00	0.124	1.071	3.760	0.00	20.20
28.00	Safety Cable	Yes	0.25	0.000	0.38	0.07	0.00	0.125	1.074	3.767	0.00	0.86
28.00	1 5/8" Coax	Yes	0.25	0.000	3.96	0.14	0.00	0.125	1.074	3.767	0.00	12.21
28.00	1/2" Fiber	Yes	0.25	0.000	0.38	0.07	0.00	0.125	1.074	3.767	0.00	0.93
28.00	3/4" DC	Yes	0.25	0.000	0.75	0.08	0.00	0.125	1.074	3.767	0.00	2.05
28.00	1.25" Reinforcing	Yes	0.25	0.000	1.25	0.09	0.00	0.125	1.074	3.767	0.00	1.84
30.00	Safety Cable	Yes	2.00	0.000	0.38	0.56	0.00	0.124	1.071	3.822	0.00	6.94
30.00	1 5/8" Coax	Yes	2.00	0.000	3.96	1.16	0.00	0.124	1.071	3.822	0.00	98.11
30.00	1/2" Fiber	Yes	2.00	0.000	0.38	0.56	0.00	0.124	1.071	3.822	0.00	7.49
30.00	3/4" DC	Yes	2.00	0.000	0.75	0.62	0.00	0.124	1.071	3.822	0.00	16.54
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.70	0.00	0.124	1.071	3.822	0.00	14.84
35.00	Safety Cable	Yes	5.00	0.000	0.38	1.42	0.00	0.126	1.077	3.948	0.00	17.80
35.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.91	0.00	0.126	1.077	3.948	0.00	247.84
35.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.42	0.00	0.126	1.077	3.948	0.00	19.21
35.00	3/4" DC	Yes	5.00	0.000	0.75	1.57	0.00	0.126	1.077	3.948	0.00	42.05
35.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	1.78	0.00	0.126	1.077	3.948	0.00	37.87
40.00	Safety Cable	Yes	5.00	0.000	0.38	1.43	0.00	0.129	1.086	4.061	0.00	18.21
40.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.92	0.00	0.129	1.086	4.061	0.00	250.09



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0Di + 1.0Wi 40 mph Wind

**Iterations** 21

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
40.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.43	0.00	0.129	1.086	4.061	0.00	19.64
40.00	3/4" DC	Yes	5.00	0.000	0.75	1.59	0.00	0.129	1.086	4.061	0.00	42.66
40.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	1.80	0.00	0.129	1.086	4.061	0.00	38.54
40.75	Safety Cable	Yes	0.75	0.000	0.38	0.22	0.00	0.131	1.092	4.077	0.00	2.74
40.75	1 5/8" Coax	Yes	0.75	0.000	3.96	0.44	0.00	0.131	1.092	4.077	0.00	37.56
40.75	1/2" Fiber	Yes	0.75	0.000	0.38	0.22	0.00	0.131	1.092	4.077	0.00	2.96
40.75	3/4" DC	Yes	0.75	0.000	0.75	0.24	0.00	0.131	1.092	4.077	0.00	6.41
40.75	1.25" Reinforcing	Yes	0.75	0.000	1.25	0.27	0.00	0.131	1.092	4.077	0.00	5.80
45.00	Safety Cable	Yes	4.25	0.000	0.38	1.23	0.00	0.128	1.084	4.163	0.00	15.79
45.00	1 5/8" Coax	Yes	4.25	0.000	3.96	2.50	0.00	0.128	1.084	4.163	0.00	214.29
45.00	1/2" Fiber	Yes	4.25	0.000	0.38	1.23	0.00	0.128	1.084	4.163	0.00	17.03
45.00	3/4" DC	Yes	4.25	0.000	0.75	1.36	0.00	0.128	1.084	4.163	0.00	36.73
45.00	1.25" Reinforcing	Yes	3.50	0.000	1.25	1.27	0.00	0.128	1.084	4.163	0.00	27.40
50.00	Safety Cable	Yes	5.00	0.000	0.38	1.46	0.00	0.110	1.030	4.256	0.00	18.91
50.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.95	0.00	0.110	1.030	4.256	0.00	253.93
50.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.46	0.00	0.110	1.030	4.256	0.00	20.40
50.00	3/4" DC	Yes	5.00	0.000	0.75	1.62	0.00	0.110	1.030	4.256	0.00	43.72
55.00	Safety Cable	Yes	5.00	0.000	0.38	1.47	0.00	0.113	1.039	4.342	0.00	19.22
55.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.97	0.00	0.113	1.039	4.342	0.00	255.60
55.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.47	0.00	0.113	1.039	4.342	0.00	20.73
55.00	3/4" DC	Yes	5.00	0.000	0.75	1.63	0.00	0.113	1.039	4.342	0.00	44.18
60.00	Safety Cable	Yes	5.00	0.000	0.38	1.49	0.00	0.116	1.048	4.423	0.00	19.51
60.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.98	0.00	0.116	1.048	4.423	0.00	257.14
60.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.49	0.00	0.116	1.048	4.423	0.00	21.04
60.00	3/4" DC	Yes	5.00	0.000	0.75	1.64	0.00	0.116	1.048	4.423	0.00	44.61
65.00	Safety Cable	Yes	5.00	0.000	0.38	1.50	0.00	0.119	1.058	4.498	0.00	19.78
65.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.99	0.00	0.119	1.058	4.498	0.00	258.57
65.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.50	0.00	0.119	1.058	4.498	0.00	21.32
65.00	3/4" DC	Yes	5.00	0.000	0.75	1.65	0.00	0.119	1.058	4.498	0.00	45.01
70.00	Safety Cable	Yes	5.00	0.000	0.38	1.51	0.00	0.123	1.068	4.569	0.00	20.03
70.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.00	0.00	0.123	1.068	4.569	0.00	259.91
70.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.51	0.00	0.123	1.068	4.569	0.00	21.60
70.00	3/4" DC	Yes	5.00	0.000	0.75	1.66	0.00	0.123	1.068	4.569	0.00	45.38
71.00	Safety Cable	Yes	1.00	0.000	0.38	0.30	0.00	0.125	1.074	4.582	0.00	4.02
71.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.60	0.00	0.125	1.074	4.582	0.00	52.03
71.00	1/2" Fiber	Yes	1.00	0.000	0.38	0.30	0.00	0.125	1.074	4.582	0.00	4.33
71.00	3/4" DC	Yes	1.00	0.000	0.75	0.33	0.00	0.125	1.074	4.582	0.00	9.09
75.00	Safety Cable	Yes	4.00	0.000	0.38	1.21	0.00	0.125	1.074	4.635	0.00	16.21
75.00	1 5/8" Coax	Yes	4.00	0.000	3.96	2.41	0.00	0.125	1.074	4.635	0.00	208.93
75.00	1/2" Fiber	Yes	4.00	0.000	0.38	1.21	0.00	0.125	1.074	4.635	0.00	17.48
75.00	3/4" DC	Yes	4.00	0.000	0.75	1.34	0.00	0.125	1.074	4.635	0.00	36.59
80.00	Safety Cable	Yes	5.00	0.000	0.38	1.52	0.00	0.128	1.084	4.699	0.00	20.49
80.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.02	0.00	0.128	1.084	4.699	0.00	262.35
80.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.52	0.00	0.128	1.084	4.699	0.00	22.09
80.00	3/4" DC	Yes	5.00	0.000	0.75	1.68	0.00	0.128	1.084	4.699	0.00	46.07
85.00	Safety Cable	Yes	5.00	0.000	0.38	1.53	0.00	0.132	1.095	4.759	0.00	20.71
85.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.02	0.00	0.132	1.095	4.759	0.00	263.47

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

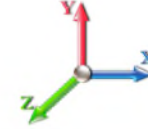


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 40 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 21

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
85.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.53	0.00	0.132	1.095	4.759	0.00	22.32
85.00	3/4" DC	Yes	5.00	0.000	0.75	1.69	0.00	0.132	1.095	4.759	0.00	46.38
90.00	Safety Cable	Yes	5.00	0.000	0.38	1.54	0.00	0.136	1.107	4.817	0.00	20.91
90.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.03	0.00	0.136	1.107	4.817	0.00	264.54
90.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.54	0.00	0.136	1.107	4.817	0.00	22.54
90.00	3/4" DC	Yes	5.00	0.000	0.75	1.69	0.00	0.136	1.107	4.817	0.00	46.68
95.00	Safety Cable	Yes	5.00	0.000	0.38	1.55	0.00	0.140	1.121	4.872	0.00	21.11
95.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.04	0.00	0.140	1.121	4.872	0.00	265.55
95.00	1/2" Fiber	Yes	5.00	0.000	0.38	1.55	0.00	0.140	1.121	4.872	0.00	22.75
95.00	3/4" DC	Yes	5.00	0.000	0.75	1.70	0.00	0.140	1.121	4.872	0.00	46.97
100.00	Safety Cable	Yes	5.00	0.000	0.38	1.55	0.00	0.010	0.000	4.925	0.00	21.30
105.00	Safety Cable	Yes	5.00	0.000	0.38	1.56	0.00	0.010	0.000	4.976	0.00	21.48
110.00	Safety Cable	Yes	5.00	0.000	0.38	1.57	0.00	0.011	0.000	5.025	0.00	21.65
115.00	Safety Cable	Yes	5.00	0.000	0.38	1.57	0.00	0.011	0.000	5.072	0.00	21.82
120.00	Safety Cable	Yes	5.00	0.000	0.38	1.58	0.00	0.011	0.000	5.117	0.00	21.98
123.00	Safety Cable	Yes	3.00	0.000	0.38	0.95	0.00	0.012	0.000	5.144	0.00	13.24
125.00	Safety Cable	Yes	2.00	0.000	0.38	0.63	0.00	0.012	0.000	5.162	0.00	8.85
130.00	Safety Cable	Yes	5.00	0.000	0.38	1.59	0.00	0.012	0.000	5.204	0.00	22.29
131.00	Safety Cable	Yes	1.00	0.000	0.38	0.32	0.00	0.013	0.000	5.213	0.00	4.46
135.00	Safety Cable	Yes	4.00	0.000	0.38	1.28	0.00	0.013	0.000	5.246	0.00	17.95
140.00	Safety Cable	Yes	5.00	0.000	0.38	1.60	0.00	0.013	0.000	5.286	0.00	22.57
145.00	Safety Cable	Yes	5.00	0.000	0.38	1.61	0.00	0.014	0.000	5.325	0.00	22.71
150.00	Safety Cable	Yes	5.00	0.000	0.38	1.61	0.00	0.015	0.000	5.364	0.00	22.85
153.00	Safety Cable	Yes	3.00	0.000	0.38	0.97	0.00	0.015	0.000	5.386	0.00	13.76
<b>Totals:</b>											<b>0.0</b>	<b>6,704.8</b>

## Calculated Forces

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

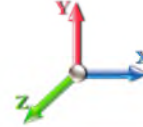


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 40 mph Wind

**Iterations** 21

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-81.09	-6.99	0.00	-722.86	0.00	722.86	4463.02	2231.51	10951.4	5483.88	0.00	0.000	0.000	0.150
5.00	-78.70	-6.92	0.00	-687.91	0.00	687.91	4413.36	2206.68	10604.1	5309.95	0.02	-0.031	0.000	0.147
10.00	-76.29	-6.85	0.00	-653.31	0.00	653.31	4361.89	2180.94	10257.6	5136.44	0.07	-0.063	0.000	0.145
15.00	-73.90	-6.78	0.00	-619.07	0.00	619.07	4308.61	2154.31	9912.23	4963.48	0.15	-0.096	0.000	0.142
20.00	-71.52	-6.68	0.00	-585.19	0.00	585.19	4253.53	2126.77	9568.22	4791.22	0.27	-0.128	0.000	0.139
21.00	-71.05	-6.68	0.00	-578.51	0.00	578.51	4242.30	2121.15	9499.61	4756.87	0.30	-0.135	0.000	0.138
25.00	-68.28	-6.60	0.00	-551.80	0.00	551.80	4196.65	2098.33	9225.87	4619.79	0.42	-0.161	0.000	0.136
27.75	-66.37	-6.54	0.00	-533.64	0.00	533.64	4164.60	2082.30	9038.39	4525.91	0.52	-0.180	0.000	0.089
28.00	-66.20	-6.54	0.00	-532.01	0.00	532.01	3213.57	1606.78	7065.87	3538.19	0.53	-0.181	0.000	0.098
30.00	-65.34	-6.50	0.00	-518.94	0.00	518.94	3199.34	1599.67	6969.21	3489.78	0.61	-0.190	0.000	0.106
35.00	-63.19	-6.39	0.00	-486.44	0.00	486.44	3162.51	1581.26	6727.41	3368.71	0.82	-0.214	0.000	0.102
40.00	-61.08	-6.26	0.00	-454.50	0.00	454.50	3123.88	1561.94	6485.64	3247.64	1.06	-0.238	0.000	0.098
40.75	-60.76	-6.25	0.00	-449.81	0.00	449.81	3117.93	1558.96	6449.39	3229.49	1.09	-0.242	0.000	0.097
40.75	-60.76	-6.25	0.00	-449.81	0.00	449.81	3117.93	1558.96	6449.39	3229.49	1.09	-0.242	0.000	0.097
45.00	-58.99	-6.16	0.00	-423.24	0.00	423.24	3083.44	1541.72	6244.17	3126.72	1.32	-0.262	0.000	0.155
50.00	-56.97	-6.06	0.00	-392.45	0.00	392.45	3041.20	1520.60	6003.26	3006.09	1.61	-0.301	0.000	0.149
55.00	-54.98	-5.96	0.00	-362.14	0.00	362.14	2997.16	1498.58	5763.21	2885.89	1.95	-0.339	0.000	0.144
60.00	-53.01	-5.85	0.00	-332.34	0.00	332.34	2951.32	1475.66	5524.28	2766.24	2.33	-0.378	0.000	0.138
65.00	-51.08	-5.75	0.00	-303.07	0.00	303.07	2903.67	1451.83	5286.75	2647.30	2.74	-0.416	0.000	0.132
70.00	-48.15	-5.56	0.00	-274.34	0.00	274.34	2854.22	1427.11	5050.90	2529.20	3.20	-0.454	0.000	0.125
71.00	-47.59	-5.55	0.00	-268.78	0.00	268.78	2869.57	1434.79	5123.02	2565.32	3.29	-0.462	0.000	0.121
75.00	-46.08	-5.46	0.00	-246.59	0.00	246.59	2829.16	1414.58	4935.24	2471.29	3.69	-0.492	0.000	0.116
80.00	-44.23	-5.34	0.00	-219.29	0.00	219.29	2777.01	1388.51	4702.41	2354.70	4.23	-0.526	0.000	0.109
85.00	-42.41	-5.22	0.00	-192.59	0.00	192.59	2723.06	1361.53	4471.94	2239.29	4.80	-0.560	0.000	0.102
90.00	-40.62	-5.09	0.00	-166.50	0.00	166.50	2667.31	1333.66	4244.12	2125.22	5.40	-0.592	0.000	0.094
95.00	-30.42	-3.91	0.00	-141.03	0.00	141.03	2609.76	1304.88	4019.22	2012.60	6.04	-0.622	0.000	0.082
100.00	-29.04	-3.79	0.00	-121.50	0.00	121.50	2550.40	1275.20	3797.52	1901.58	6.70	-0.650	0.000	0.075
105.00	-27.51	-3.60	0.00	-102.35	0.00	102.35	2489.24	1244.62	3579.29	1792.30	7.40	-0.677	0.000	0.068
110.00	-26.21	-3.49	0.00	-84.36	0.00	84.36	2426.28	1213.14	3364.80	1684.90	8.12	-0.701	0.000	0.061
115.00	-24.38	-3.37	0.00	-66.94	0.00	66.94	1783.00	891.50	2427.68	1215.65	8.87	-0.723	0.000	0.069
120.00	-23.26	-3.25	0.00	-50.11	0.00	50.11	1739.91	869.95	2280.12	1141.75	9.64	-0.743	0.000	0.057
123.00	-15.85	-2.18	0.00	-40.34	0.00	40.34	1713.19	856.59	2192.59	1097.92	10.11	-0.755	0.000	0.046
125.00	-15.46	-2.14	0.00	-35.98	0.00	35.98	1695.01	847.51	2134.69	1068.93	10.43	-0.762	0.000	0.043
130.00	-14.51	-2.03	0.00	-25.28	0.00	25.28	1648.31	824.16	1991.67	997.31	11.23	-0.777	0.000	0.034
131.00	-8.26	-1.23	0.00	-23.25	0.00	23.25	1638.75	819.38	1963.38	983.15	11.39	-0.780	0.000	0.029
135.00	-7.60	-1.15	0.00	-18.31	0.00	18.31	1599.81	799.90	1851.33	927.04	12.05	-0.789	0.000	0.025
140.00	-6.80	-1.05	0.00	-12.55	0.00	12.55	1549.50	774.75	1713.96	858.25	12.88	-0.799	0.000	0.019
145.00	-6.03	-0.95	0.00	-7.31	0.00	7.31	1497.39	748.69	1579.82	791.09	13.72	-0.806	0.000	0.013
150.00	-5.30	-0.85	0.00	-2.56	0.00	2.56	1443.48	721.74	1449.20	725.68	14.57	-0.810	0.000	0.007
150.00	-5.30	-0.85	0.00	-2.56	0.00	2.56	1443.48	721.74	1449.20	725.68	14.57	-0.810	0.000	0.007
153.00	0.00	-0.78	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	15.08	-0.811	0.000	0.000



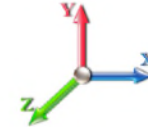
## Seismic Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.2D + 1.0E				<b>Iterations</b> 19
<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.12	<b>Ss</b> 0.18
<b>Dead Load Factor</b>	1.20	<b>Seismic Load Factor</b>	1.00	<b>S1</b> 0.07
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.41	<b>SA</b> 0.02
				<b>Seismic Importance Factor</b> 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1194.9	0.00	0.03	0.02	15.53	
10.00		1169.9	0.01	0.05	0.03	21.52	
15.00		1144.9	0.02	0.06	0.04	24.03	
20.00		1119.9	0.03	0.07	0.04	24.98	
21.00	Bot - Section 2	221.00	0.04	0.07	0.04	4.97	
25.00		1611.6	0.05	0.07	0.04	37.16	
27.75	RB1	1090.9	0.06	0.07	0.04	25.51	
28.00	Top - Section 1	98.49	0.06	0.07	0.04	2.31	
30.00		358.81	0.07	0.07	0.04	8.48	
35.00		882.46	0.10	0.07	0.04	21.36	
40.00		861.64	0.13	0.07	0.03	21.36	
40.75	RT1	127.45	0.13	0.07	0.03	3.17	
45.00		713.37	0.16	0.07	0.03	18.04	
50.00		820.00	0.20	0.06	0.02	20.87	
55.00		799.19	0.24	0.06	0.02	19.91	
60.00		778.37	0.29	0.05	0.01	18.00	
65.00	Bot - Section 3	757.55	0.34	0.04	0.01	14.75	
70.00	Appurtenance(s)	1534.0	0.40	0.02	0.01	20.54	
71.00	Top - Section 2	291.81	0.41	0.02	0.01	3.46	
75.00		579.50	0.45	0.00	0.01	2.82	
80.00		705.64	0.52	-0.02	0.01	-3.62	
85.00		684.82	0.58	-0.05	0.01	-10.10	
90.00		664.01	0.65	-0.07	0.02	-14.76	
95.00	Appurtenance(s)	3898.9	0.73	-0.10	0.04	-103.66	
100.00		622.37	0.81	-0.11	0.06	-17.16	
105.00	Appurtenance(s)	666.55	0.89	-0.12	0.08	-16.88	
110.00	Bot - Section 4	580.73	0.98	-0.11	0.12	-11.60	
115.00	Top - Section 3	1015.4	1.07	-0.09	0.17	-11.82	
120.00		438.87	1.16	-0.03	0.23	-0.16	
123.00	Appurtenance(s)	2601.0	1.22	0.03	0.27	20.33	
125.00		166.89	1.26	0.07	0.30	2.31	
130.00		405.56	1.36	0.22	0.40	12.61	
131.00	Appurtenance(s)	2436.6	1.39	0.26	0.42	85.01	
135.00		309.79	1.47	0.43	0.51	15.91	
140.00		372.25	1.58	0.73	0.65	27.83	
145.00		355.60	1.70	1.11	0.81	36.05	
150.00	Top - Section 4	338.95	1.82	1.62	1.01	44.50	
153.00	Appurtenance(s)	2270.7	1.89	1.98	1.14	342.55	
<b>Totals:</b>		<b>34,690.9</b>				<b>726.1</b>	<b>Total Wind: 45,712.1</b>

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

## Calculated Forces

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

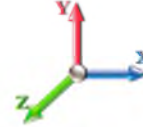


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**Load Case:** 1.2D + 1.0E

**Iterations** 19

<b>Gust Response Factor</b> 1.10	<b>Sds</b> 0.12	<b>Ss</b> 0.18
<b>Dead Load Factor</b> 1.20	<b>Seismic Load Factor</b> 1.00	<b>Sd1</b> 0.04
<b>Wind Load Factor</b> 0.00	<b>Structure Frequency (f1)</b> 0.41	<b>SA</b> 0.02
	<b>Seismic Importance Factor</b> 1.00	



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-48.71	-0.92	0.00	-100.95	0.00	100.95	4463.02	2231.51	10951.4	5483.88	0.00	0.00	0.00	0.029
5.00	-46.98	-0.90	0.00	-96.37	0.00	96.37	4413.36	2206.68	10604.1	5309.95	0.00	0.00	0.00	0.029
10.00	-45.28	-0.89	0.00	-91.84	0.00	91.84	4361.89	2180.94	10257.6	5136.44	0.01	-0.01	0.00	0.028
15.00	-43.60	-0.87	0.00	-87.41	0.00	87.41	4308.61	2154.31	9912.23	4963.48	0.02	-0.01	0.00	0.028
20.00	-41.96	-0.84	0.00	-83.08	0.00	83.08	4253.53	2126.77	9568.22	4791.22	0.04	-0.02	0.00	0.027
21.00	-41.64	-0.84	0.00	-82.24	0.00	82.24	4242.30	2121.15	9499.61	4756.87	0.04	-0.02	0.00	0.027
25.00	-39.46	-0.80	0.00	-78.89	0.00	78.89	4196.65	2098.33	9225.87	4619.79	0.06	-0.02	0.00	0.026
27.75	-37.99	-0.78	0.00	-76.68	0.00	76.68	4164.60	2082.30	9038.39	4525.91	0.07	-0.03	0.00	0.017
28.00	-37.86	-0.78	0.00	-76.48	0.00	76.48	3213.57	1606.78	7065.87	3538.19	0.07	-0.03	0.00	0.019
30.00	-37.31	-0.77	0.00	-74.93	0.00	74.93	3199.34	1599.67	6969.21	3489.78	0.09	-0.03	0.00	0.021
35.00	-35.95	-0.75	0.00	-71.09	0.00	71.09	3162.51	1581.26	6727.41	3368.71	0.12	-0.03	0.00	0.020
40.00	-34.62	-0.73	0.00	-67.34	0.00	67.34	3123.88	1561.94	6485.64	3247.64	0.15	-0.03	0.00	0.020
40.75	-34.42	-0.73	0.00	-66.80	0.00	66.80	3117.93	1558.96	6449.39	3229.49	0.15	-0.03	0.00	0.020
40.75	-34.42	-0.73	0.00	-66.80	0.00	66.80	3117.93	1558.96	6449.39	3229.49	0.15	-0.03	0.00	0.020
45.00	-33.31	-0.71	0.00	-63.71	0.00	63.71	3083.44	1541.72	6244.17	3126.72	0.19	-0.04	0.00	0.031
50.00	-32.03	-0.69	0.00	-60.16	0.00	60.16	3041.20	1520.60	6003.26	3006.09	0.23	-0.04	0.00	0.031
55.00	-30.77	-0.67	0.00	-56.70	0.00	56.70	2997.16	1498.58	5763.21	2885.89	0.28	-0.05	0.00	0.030
60.00	-29.54	-0.66	0.00	-53.34	0.00	53.34	2951.32	1475.66	5524.28	2766.24	0.33	-0.06	0.00	0.029
65.00	-28.34	-0.64	0.00	-50.05	0.00	50.05	2903.67	1451.83	5286.75	2647.30	0.39	-0.06	0.00	0.029
70.00	-26.20	-0.62	0.00	-46.82	0.00	46.82	2854.22	1427.11	5050.90	2529.20	0.46	-0.07	0.00	0.028
71.00	-25.79	-0.62	0.00	-46.20	0.00	46.20	2869.57	1434.79	5123.02	2565.32	0.48	-0.07	0.00	0.027
75.00	-24.85	-0.62	0.00	-43.71	0.00	43.71	2829.16	1414.58	4935.24	2471.29	0.54	-0.07	0.00	0.026
80.00	-23.71	-0.62	0.00	-40.61	0.00	40.61	2777.01	1388.51	4702.41	2354.70	0.62	-0.08	0.00	0.026
85.00	-22.59	-0.62	0.00	-37.51	0.00	37.51	2723.06	1361.53	4471.94	2239.29	0.71	-0.09	0.00	0.025
90.00	-21.50	-0.62	0.00	-34.40	0.00	34.40	2667.31	1333.66	4244.12	2125.22	0.80	-0.09	0.00	0.024
95.00	-16.52	-0.62	0.00	-31.29	0.00	31.29	2609.76	1304.88	4019.22	2012.60	0.90	-0.10	0.00	0.022
100.00	-15.56	-0.62	0.00	-28.21	0.00	28.21	2550.40	1275.20	3797.52	1901.58	1.01	-0.11	0.00	0.021
105.00	-14.55	-0.62	0.00	-25.13	0.00	25.13	2489.24	1244.62	3579.29	1792.30	1.13	-0.11	0.00	0.020
110.00	-13.64	-0.62	0.00	-22.05	0.00	22.05	2426.28	1213.14	3364.80	1684.90	1.25	-0.12	0.00	0.019
115.00	-12.21	-0.61	0.00	-18.97	0.00	18.97	1783.00	891.50	2427.68	1215.65	1.37	-0.12	0.00	0.022
120.00	-11.47	-0.61	0.00	-15.90	0.00	15.90	1739.91	869.95	2280.12	1141.75	1.51	-0.13	0.00	0.021
123.00	-8.22	-0.59	0.00	-14.07	0.00	14.07	1713.19	856.59	2192.59	1097.92	1.59	-0.13	0.00	0.018
125.00	-7.98	-0.58	0.00	-12.89	0.00	12.89	1695.01	847.51	2134.69	1068.93	1.65	-0.14	0.00	0.017
130.00	-7.40	-0.57	0.00	-9.98	0.00	9.98	1648.31	824.16	1991.67	997.31	1.80	-0.14	0.00	0.014
131.00	-4.45	-0.48	0.00	-9.41	0.00	9.41	1638.75	819.38	1963.38	983.15	1.83	-0.14	0.00	0.012
135.00	-4.07	-0.46	0.00	-7.50	0.00	7.50	1599.81	799.90	1851.33	927.04	1.95	-0.15	0.00	0.011
140.00	-3.60	-0.43	0.00	-5.19	0.00	5.19	1549.50	774.75	1713.96	858.25	2.11	-0.15	0.00	0.008
145.00	-3.16	-0.40	0.00	-3.03	0.00	3.03	1497.39	748.69	1579.82	791.09	2.27	-0.15	0.00	0.006
150.00	-2.73	-0.35	0.00	-1.05	0.00	1.05	1443.48	721.74	1449.20	725.68	2.43	-0.16	0.00	0.003
150.00	-2.73	-0.35	0.00	-1.05	0.00	1.05	1443.48	721.74	1449.20	725.68	2.43	-0.16	0.00	0.003
153.00	0.00	-0.34	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	2.53	-0.16	0.00	0.000

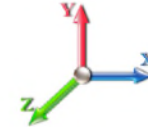
## Seismic Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 0.9D + 1.0E				<b>Iterations</b> 19
<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.12	<b>Ss</b> 0.18
<b>Dead Load Factor</b>	0.90	<b>Seismic Load Factor</b>	1.00	<b>S1</b> 0.07
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.41	<b>SA</b> 0.02
				<b>Seismic Importance Factor</b> 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1194.9	0.00	0.03	0.02	15.53	
10.00		1169.9	0.01	0.05	0.03	21.52	
15.00		1144.9	0.02	0.06	0.04	24.03	
20.00		1119.9	0.03	0.07	0.04	24.98	
21.00	Bot - Section 2	221.00	0.04	0.07	0.04	4.97	
25.00		1611.6	0.05	0.07	0.04	37.16	
27.75	RB1	1090.9	0.06	0.07	0.04	25.51	
28.00	Top - Section 1	98.49	0.06	0.07	0.04	2.31	
30.00		358.81	0.07	0.07	0.04	8.48	
35.00		882.46	0.10	0.07	0.04	21.36	
40.00		861.64	0.13	0.07	0.03	21.36	
40.75	RT1	127.45	0.13	0.07	0.03	3.17	
45.00		713.37	0.16	0.07	0.03	18.04	
50.00		820.00	0.20	0.06	0.02	20.87	
55.00		799.19	0.24	0.06	0.02	19.91	
60.00		778.37	0.29	0.05	0.01	18.00	
65.00	Bot - Section 3	757.55	0.34	0.04	0.01	14.75	
70.00	Appurtenance(s)	1534.0	0.40	0.02	0.01	20.54	
71.00	Top - Section 2	291.81	0.41	0.02	0.01	3.46	
75.00		579.50	0.45	0.00	0.01	2.82	
80.00		705.64	0.52	-0.02	0.01	-3.62	
85.00		684.82	0.58	-0.05	0.01	-10.10	
90.00		664.01	0.65	-0.07	0.02	-14.76	
95.00	Appurtenance(s)	3898.9	0.73	-0.10	0.04	-103.66	
100.00		622.37	0.81	-0.11	0.06	-17.16	
105.00	Appurtenance(s)	666.55	0.89	-0.12	0.08	-16.88	
110.00	Bot - Section 4	580.73	0.98	-0.11	0.12	-11.60	
115.00	Top - Section 3	1015.4	1.07	-0.09	0.17	-11.82	
120.00		438.87	1.16	-0.03	0.23	-0.16	
123.00	Appurtenance(s)	2601.0	1.22	0.03	0.27	20.33	
125.00		166.89	1.26	0.07	0.30	2.31	
130.00		405.56	1.36	0.22	0.40	12.61	
131.00	Appurtenance(s)	2436.6	1.39	0.26	0.42	85.01	
135.00		309.79	1.47	0.43	0.51	15.91	
140.00		372.25	1.58	0.73	0.65	27.83	
145.00		355.60	1.70	1.11	0.81	36.05	
150.00	Top - Section 4	338.95	1.82	1.62	1.01	44.50	
153.00	Appurtenance(s)	2270.7	1.89	1.98	1.14	342.55	
<b>Totals:</b>		<b>34,690.9</b>				<b>726.1</b>	<b>Total Wind: 45,712.1</b>

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required



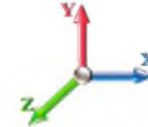
## Calculated Forces

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 0.9D + 1.0E		<b>Iterations</b> 19
<b>Gust Response Factor</b> 1.10	<b>Sds</b> 0.12	<b>Ss</b> 0.18
<b>Dead Load Factor</b> 0.90	<b>Seismic Load Factor</b> 1.00	<b>S1</b> 0.07
<b>Wind Load Factor</b> 0.00	<b>Structure Frequency (f1)</b> 0.41	<b>SA</b> 0.02
		<b>Seismic Importance Factor</b> 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.53	-0.92	0.00	-100.10	0.00	100.10	4463.02	2231.51	10951.4	5483.88	0.00	0.00	0.00	0.026
5.00	-35.23	-0.90	0.00	-95.52	0.00	95.52	4413.36	2206.68	10604.1	5309.95	0.00	0.00	0.00	0.026
10.00	-33.96	-0.88	0.00	-91.00	0.00	91.00	4361.89	2180.94	10257.6	5136.44	0.01	-0.01	0.00	0.026
15.00	-32.70	-0.86	0.00	-86.58	0.00	86.58	4308.61	2154.31	9912.23	4963.48	0.02	-0.01	0.00	0.025
20.00	-31.47	-0.84	0.00	-82.27	0.00	82.27	4253.53	2126.77	9568.22	4791.22	0.04	-0.02	0.00	0.025
21.00	-31.23	-0.84	0.00	-81.43	0.00	81.43	4242.30	2121.15	9499.61	4756.87	0.04	-0.02	0.00	0.024
25.00	-29.60	-0.80	0.00	-78.09	0.00	78.09	4196.65	2098.33	9225.87	4619.79	0.06	-0.02	0.00	0.024
27.75	-28.49	-0.77	0.00	-75.89	0.00	75.89	4164.60	2082.30	9038.39	4525.91	0.07	-0.03	0.00	0.016
28.00	-28.39	-0.77	0.00	-75.70	0.00	75.70	3213.57	1606.78	7065.87	3538.19	0.07	-0.03	0.00	0.017
30.00	-27.98	-0.76	0.00	-74.15	0.00	74.15	3199.34	1599.67	6969.21	3489.78	0.08	-0.03	0.00	0.019
35.00	-26.96	-0.74	0.00	-70.33	0.00	70.33	3162.51	1581.26	6727.41	3368.71	0.11	-0.03	0.00	0.018
40.00	-25.97	-0.72	0.00	-66.61	0.00	66.61	3123.88	1561.94	6485.64	3247.64	0.15	-0.03	0.00	0.018
40.75	-25.82	-0.72	0.00	-66.07	0.00	66.07	3117.93	1558.96	6449.39	3229.49	0.15	-0.03	0.00	0.018
40.75	-25.82	-0.72	0.00	-66.07	0.00	66.07	3117.93	1558.96	6449.39	3229.49	0.15	-0.03	0.00	0.018
45.00	-24.99	-0.70	0.00	-63.01	0.00	63.01	3083.44	1541.72	6244.17	3126.72	0.18	-0.04	0.00	0.028
50.00	-24.02	-0.68	0.00	-59.49	0.00	59.49	3041.20	1520.60	6003.26	3006.09	0.23	-0.04	0.00	0.028
55.00	-23.08	-0.67	0.00	-56.07	0.00	56.07	2997.16	1498.58	5763.21	2885.89	0.27	-0.05	0.00	0.027
60.00	-22.16	-0.65	0.00	-52.73	0.00	52.73	2951.32	1475.66	5524.28	2766.24	0.33	-0.05	0.00	0.027
65.00	-21.25	-0.64	0.00	-49.48	0.00	49.48	2903.67	1451.83	5286.75	2647.30	0.39	-0.06	0.00	0.026
70.00	-19.65	-0.62	0.00	-46.30	0.00	46.30	2854.22	1427.11	5050.90	2529.20	0.46	-0.07	0.00	0.025
71.00	-19.34	-0.61	0.00	-45.68	0.00	45.68	2869.57	1434.79	5123.02	2565.32	0.47	-0.07	0.00	0.025
75.00	-18.64	-0.61	0.00	-43.23	0.00	43.23	2829.16	1414.58	4935.24	2471.29	0.53	-0.07	0.00	0.024
80.00	-17.78	-0.61	0.00	-40.18	0.00	40.18	2777.01	1388.51	4702.41	2354.70	0.61	-0.08	0.00	0.023
85.00	-16.94	-0.61	0.00	-37.12	0.00	37.12	2723.06	1361.53	4471.94	2239.29	0.70	-0.09	0.00	0.023
90.00	-16.12	-0.61	0.00	-34.05	0.00	34.05	2667.31	1333.66	4244.12	2125.22	0.79	-0.09	0.00	0.022
95.00	-12.39	-0.61	0.00	-30.99	0.00	30.99	2609.76	1304.88	4019.22	2012.60	0.89	-0.10	0.00	0.020
100.00	-11.67	-0.61	0.00	-27.95	0.00	27.95	2550.40	1275.20	3797.52	1901.58	1.00	-0.11	0.00	0.019
105.00	-10.91	-0.61	0.00	-24.90	0.00	24.90	2489.24	1244.62	3579.29	1792.30	1.11	-0.11	0.00	0.018
110.00	-10.23	-0.61	0.00	-21.86	0.00	21.86	2426.28	1213.14	3364.80	1684.90	1.23	-0.12	0.00	0.017
115.00	-9.16	-0.61	0.00	-18.82	0.00	18.82	1783.00	891.50	2427.68	1215.65	1.36	-0.12	0.00	0.021
120.00	-8.60	-0.61	0.00	-15.79	0.00	15.79	1739.91	869.95	2280.12	1141.75	1.49	-0.13	0.00	0.019
123.00	-6.17	-0.58	0.00	-13.97	0.00	13.97	1713.19	856.59	2192.59	1097.92	1.58	-0.13	0.00	0.016
125.00	-5.99	-0.58	0.00	-12.81	0.00	12.81	1695.01	847.51	2134.69	1068.93	1.63	-0.14	0.00	0.016
130.00	-5.55	-0.57	0.00	-9.92	0.00	9.92	1648.31	824.16	1991.67	997.31	1.78	-0.14	0.00	0.013
131.00	-3.34	-0.47	0.00	-9.35	0.00	9.35	1638.75	819.38	1963.38	983.15	1.81	-0.14	0.00	0.012
135.00	-3.05	-0.46	0.00	-7.45	0.00	7.45	1599.81	799.90	1851.33	927.04	1.93	-0.15	0.00	0.010
140.00	-2.70	-0.43	0.00	-5.16	0.00	5.16	1549.50	774.75	1713.96	858.25	2.08	-0.15	0.00	0.008
145.00	-2.37	-0.39	0.00	-3.01	0.00	3.01	1497.39	748.69	1579.82	791.09	2.24	-0.15	0.00	0.005
150.00	-2.05	-0.35	0.00	-1.04	0.00	1.04	1443.48	721.74	1449.20	725.68	2.40	-0.15	0.00	0.003
150.00	-2.05	-0.35	0.00	-1.04	0.00	1.04	1443.48	721.74	1449.20	725.68	2.40	-0.15	0.00	0.003
153.00	0.00	-0.34	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	2.50	-0.16	0.00	0.000

## Wind Loading - Shaft

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

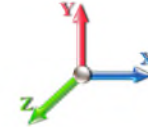


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Iterations** 21

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	280.85	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	275.08	0.650	0.000	5.00	25.125	16.33	133.7	0.0	1194.9
10.00		1.00	0.85	7.442	8.19	269.30	0.650	0.000	5.00	24.603	15.99	130.9	0.0	1169.9
15.00		1.00	0.85	7.442	8.19	263.53	0.650	0.000	5.00	24.081	15.65	128.1	0.0	1145.0
20.00		1.00	0.90	7.896	8.69	265.50	0.650	0.000	5.00	23.559	15.31	133.0	0.0	1120.0
21.00	Bot - Section 2	1.00	0.91	7.978	8.78	265.68	0.650	0.000	1.00	4.649	3.02	26.5	0.0	221.0
25.00		1.00	0.95	8.276	9.10	265.73	0.657 *	0.000	4.00	18.599	12.21	111.2	0.0	1611.6
27.75	RB1	1.00	0.97	8.460	9.31	265.27	0.696 *	0.000	2.75	12.593	8.77	81.6	0.0	1091.0
28.00	Top - Section 1	1.00	0.97	8.476	9.32	265.22	0.698 *	0.000	0.25	1.137	0.79	7.4	0.0	98.5
30.00		1.00	0.98	8.600	9.46	267.81	0.696 *	0.000	2.00	9.049	6.30	59.6	0.0	358.8
35.00		1.00	1.01	8.883	9.77	265.88	0.700 *	0.000	5.00	22.257	15.59	152.3	0.0	882.5
40.00		1.00	1.04	9.137	10.05	263.25	0.706 *	0.000	5.00	21.735	15.35	154.3	0.0	861.6
40.75	RT1	1.00	1.05	9.173	10.09	262.80	0.710 *	0.000	0.75	3.215	2.28	23.0	0.0	127.5
45.00		1.00	1.07	9.366	10.30	260.05	0.704 *	0.000	4.25	17.998	12.68	130.6	0.0	713.4
50.00		1.00	1.09	9.576	10.53	256.40	0.670 *	0.000	5.00	20.692	13.86	146.0	0.0	820.0
55.00		1.00	1.12	9.770	10.75	252.37	0.675 *	0.000	5.00	20.170	13.62	146.4	0.0	799.2
60.00		1.00	1.14	9.951	10.95	248.02	0.681 *	0.000	5.00	19.648	13.38	146.5	0.0	778.4
65.00	Bot - Section 3	1.00	1.16	10.120	11.13	243.38	0.687 *	0.000	5.00	19.126	13.15	146.3	0.0	757.6
70.00	Appurtenance(s)	1.00	1.17	10.279	11.31	238.50	0.694 *	0.000	5.00	18.868	13.09	148.0	0.0	1484.0
71.00	Top - Section 2	1.00	1.18	10.310	11.34	237.50	0.698 *	0.000	1.00	3.711	2.59	29.4	0.0	291.8
75.00		1.00	1.19	10.430	11.47	236.87	0.698 *	0.000	4.00	14.635	10.21	117.2	0.0	579.5
80.00		1.00	1.21	10.572	11.63	231.60	0.704 *	0.000	5.00	17.824	12.55	146.0	0.0	705.6
85.00		1.00	1.22	10.708	11.78	226.15	0.712 *	0.000	5.00	17.302	12.32	145.1	0.0	684.8
90.00		1.00	1.24	10.838	11.92	220.55	0.720 *	0.000	5.00	16.780	12.08	144.0	0.0	664.0
95.00	Appurtenance(s)	1.00	1.25	10.962	12.06	214.80	0.728 *	0.000	5.00	16.258	11.84	142.8	0.0	643.2
100.00		1.00	1.27	11.081	12.19	208.92	0.650	0.000	5.00	15.736	10.23	124.7	0.0	622.4
105.00	Appurtenance(s)	1.00	1.28	11.195	12.31	202.91	0.650	0.000	5.00	15.214	9.89	121.8	0.0	601.6
110.00	Bot - Section 4	1.00	1.29	11.305	12.44	196.79	0.650	0.000	5.00	14.693	9.55	118.8	0.0	580.7
115.00	Top - Section 3	1.00	1.30	11.412	12.55	190.56	0.650	0.000	5.00	14.382	9.35	117.3	0.0	1015.4
120.00		1.00	1.32	11.514	12.67	187.15	0.650	0.000	5.00	13.860	9.01	114.1	0.0	438.9
123.00	Appurtenance(s)	1.00	1.32	11.574	12.73	183.31	0.650	0.000	3.00	8.066	5.24	66.7	0.0	255.3
125.00		1.00	1.33	11.614	12.78	180.74	0.650	0.000	2.00	5.273	3.43	43.8	0.0	166.9
130.00		1.00	1.34	11.710	12.88	174.24	0.650	0.000	5.00	12.816	8.33	107.3	0.0	405.6
131.00	Appurtenance(s)	1.00	1.34	11.729	12.90	172.93	0.650	0.000	1.00	2.501	1.63	21.0	0.0	79.1
135.00		1.00	1.35	11.803	12.98	167.66	0.650	0.000	4.00	9.794	6.37	82.7	0.0	309.8
140.00		1.00	1.36	11.894	13.08	161.01	0.650	0.000	5.00	11.772	7.65	100.1	0.0	372.3
145.00		1.00	1.37	11.982	13.18	154.27	0.650	0.000	5.00	11.250	7.31	96.4	0.0	355.6
150.00	Top - Section 4	1.00	1.38	12.068	13.27	147.47	0.650	0.000	5.00	10.728	6.97	92.6	0.0	338.9
153.00	Appurtenance(s)	1.00	1.38	12.119	13.33	143.36	0.650	0.000	3.00	6.187	4.02	53.6	0.0	195.4
<b>Totals:</b>									<b>153.00</b>			<b>3,990.8</b>		<b>24,541.5</b>

\* Cf Adjusted by Linear Load Ra Effect



## Discrete Appurtenance Forces

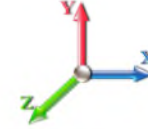
<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 21

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	
1	153.00	800 MHz RRUs	3	12.119	13.330	0.83	0.90	6.19	159.00	0.000	0.000	82.45	0.00	0.00	
2	153.00	APXVTM14-C-I20	3	12.119	13.330	0.71	0.90	13.52	168.00	0.000	0.000	180.27	0.00	0.00	
3	153.00	APXVSP18-C-A20	3	12.119	13.330	0.75	0.90	17.97	171.00	0.000	0.000	239.59	0.00	0.00	
4	153.00	1900 MHz RRUs	3	12.119	13.330	0.79	0.90	9.03	132.00	0.000	0.000	120.36	0.00	0.00	
5	153.00	Lightning Rod	1	12.119	13.330	1.00	1.00	0.50	5.00	0.000	0.000	6.67	0.00	0.00	
6	153.00	800 MHz Filters	3	12.119	13.330	0.62	0.90	1.45	26.40	0.000	0.000	19.37	0.00	0.00	
7	153.00	ACU-A20-N	4	12.119	13.330	0.81	0.90	0.45	4.00	0.000	0.000	6.05	0.00	0.00	
8	153.00	TD-RRH8x20-25	3	12.119	13.330	0.62	0.90	7.55	210.00	0.000	0.000	100.58	0.00	0.00	
9	153.00	Low Profile Platform	1	12.119	13.330	1.00	1.00	25.00	1200.00	0.000	0.000	333.26	0.00	0.00	
10	131.00	KRY 112 489/2	3	11.729	12.902	0.50	0.75	1.06	48.30	0.000	0.000	13.61	0.00	0.00	
11	131.00	KRY 112 144/1	3	11.729	12.902	0.50	0.75	0.62	33.00	0.000	0.000	7.97	0.00	0.00	
12	131.00	4449	3	11.729	12.902	0.50	0.75	2.49	210.00	0.000	0.000	32.09	0.00	0.00	
13	131.00	APXVAARR24_43-U-NA2	3	11.729	12.902	0.52	0.75	31.88	384.00	0.000	0.000	411.28	0.00	0.00	
14	131.00	RR90-17-02DP	3	11.729	12.902	0.51	0.75	6.67	40.50	0.000	0.000	86.07	0.00	0.00	
15	131.00	HRK12 (Handrail Kit)	1	11.729	12.902	1.00	1.00	6.75	261.72	0.000	0.000	87.09	0.00	0.00	
16	131.00	(3) Stabilizer Kit (12' FW)	1	11.729	12.902	1.00	1.00	6.10	180.00	0.000	0.000	78.70	0.00	0.00	
17	131.00	Low Profile Platform	1	11.729	12.902	1.00	1.00	25.00	1200.00	0.000	0.000	322.55	0.00	0.00	
18	123.00	Low Profile Platform	1	11.574	12.732	1.00	1.00	25.00	1200.00	0.000	0.000	318.29	0.00	0.00	
19	123.00	RFS DB-T1-6Z-8AB-OZ	2	11.574	12.732	0.57	0.80	5.45	37.80	0.000	0.000	69.42	0.00	0.00	
20	123.00	B5/B13 RRH-BR04C	3	11.574	12.732	0.54	0.80	3.01	210.90	0.000	0.000	38.28	0.00	0.00	
21	123.00	B2/B66A RRH-BR049	3	11.574	12.732	0.54	0.80	3.01	253.20	0.000	0.000	38.28	0.00	0.00	
22	123.00	LPA-80063-6CF-EDIN-5	6	11.574	12.732	0.74	0.80	43.57	162.00	0.000	0.000	554.71	0.00	0.00	
23	123.00	SBNHH-1D65B	6	11.574	12.732	0.66	0.80	32.19	243.60	0.000	0.000	409.85	0.00	0.00	
24	123.00	MT6407-77A	3	11.574	12.732	0.56	0.80	7.88	238.20	0.000	0.000	100.32	0.00	0.00	
25	105.00	Standoff	1	11.195	12.315	1.00	1.00	2.63	40.00	0.000	0.000	32.39	0.00	0.00	
26	105.00	10' Omni	1	11.305	12.436	1.00	1.00	3.00	25.00	0.000	5.000	37.31	0.00	186.54	
27	95.00	LGP17201	6	10.962	12.058	0.80	0.80	9.36	186.00	0.000	0.000	112.86	0.00	0.00	
28	95.00	RRUS-12	3	10.962	12.058	0.54	0.80	5.07	180.00	0.000	0.000	61.08	0.00	0.00	
29	95.00	RRUS-11	3	10.962	12.058	0.54	0.80	7.21	165.00	0.000	0.000	86.98	0.00	0.00	
30	95.00	LGP21901	6	10.962	12.058	0.60	0.80	0.83	33.00	0.000	0.000	9.98	0.00	0.00	
31	95.00	SBNH-1D65A	2	10.962	12.058	0.72	0.80	7.75	76.80	0.000	0.000	93.42	0.00	0.00	
32	95.00	AM-X-CW-16-65-00T-RET	2	10.962	12.058	0.60	0.80	9.62	83.60	0.000	0.000	116.05	0.00	0.00	
33	95.00	7770	3	10.962	12.058	0.58	0.80	9.64	105.00	0.000	0.000	116.19	0.00	0.00	
34	95.00	HPA-65R-BUU-H6	4	10.962	12.058	0.72	0.80	27.82	204.00	0.000	0.000	335.46	0.00	0.00	
35	95.00	RRUS-A2	3	10.962	12.058	0.50	0.80	2.77	63.60	0.000	0.000	33.37	0.00	0.00	
36	95.00	RRUS-32	3	10.962	12.058	0.70	0.80	8.08	231.00	0.000	0.000	97.43	0.00	0.00	
37	95.00	RRUS-E2	3	10.962	12.058	0.56	0.80	4.72	171.90	0.000	0.000	56.92	0.00	0.00	
38	95.00	1000860	3	10.962	12.058	1.00	1.00	0.18	6.00	0.000	0.000	2.17	0.00	0.00	
39	95.00	Raycap/Squid	2	10.962	12.058	0.72	0.80	2.12	63.60	0.000	0.000	25.52	0.00	0.00	
40	95.00	Sector Frame	3	10.962	12.058	0.56	0.75	29.53	1500.00	0.000	0.000	356.09	0.00	0.00	
41	95.00	800 10764	1	10.962	12.058	0.60	0.80	3.53	40.80	0.000	0.000	42.54	0.00	0.00	
42	95.00	4426 B66	3	10.962	12.058	0.58	0.80	2.01	145.50	0.000	0.000	24.29	0.00	0.00	
43	70.00	Standoff	1	10.279	11.307	1.00	1.00	2.63	40.00	0.000	0.000	29.74	0.00	0.00	
44	70.00	GPS	1	10.279	11.307	1.00	1.00	1.00	10.00	0.000	0.000	11.31	0.00	0.00	
<b>Totals:</b>									<b>10,149.42</b>						<b>5,338.20</b>

## Total Applied Force Summary

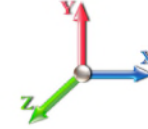
<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 21

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		133.69	1443.08	0.00	0.00
10.00		130.91	1418.10	0.00	0.00
15.00		128.13	1393.12	0.00	0.00
20.00		133.01	1368.14	0.00	0.00
21.00		26.52	270.63	0.00	0.00
25.00		111.18	1810.14	0.00	0.00
27.75		81.59	1227.47	0.00	0.00
28.00		7.40	110.90	0.00	0.00
30.00		59.61	458.08	0.00	0.00
35.00		152.31	1130.62	0.00	0.00
40.00		154.27	1109.81	0.00	0.00
40.75		23.02	164.68	0.00	0.00
45.00		130.62	924.31	0.00	0.00
50.00		145.99	1068.17	0.00	0.00
55.00		146.40	1047.35	0.00	0.00
60.00		146.50	1026.53	0.00	0.00
65.00		146.35	1005.72	0.00	0.00
70.00	(2) attachments	189.08	1782.18	0.00	0.00
71.00		29.38	341.44	0.00	0.00
75.00		117.19	778.04	0.00	0.00
80.00		146.00	953.81	0.00	0.00
85.00		145.08	932.99	0.00	0.00
90.00		144.00	912.17	0.00	0.00
95.00	(50) attachments	1713.14	4147.15	0.00	0.00
100.00		124.68	799.54	0.00	0.00
105.00	(2) attachments	191.48	843.72	0.00	186.54
110.00		118.76	757.10	0.00	0.00
115.00		117.35	1191.81	0.00	0.00
120.00		114.11	615.24	0.00	0.00
123.00	(24) attachments	1595.90	2706.85	0.00	0.00
125.00		43.78	199.75	0.00	0.00
130.00		107.31	487.73	0.00	0.00
131.00	(18) attachments	1060.33	2453.07	0.00	0.00
135.00		82.65	321.45	0.00	0.00
140.00		100.12	386.82	0.00	0.00
145.00		96.39	370.17	0.00	0.00
150.00		92.57	353.51	0.00	0.00
153.00	(24) attachments	1142.19	2279.51	0.00	0.00
<b>Totals:</b>		<b>9,328.99</b>	<b>40,590.87</b>	<b>0.00</b>	<b>186.54</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

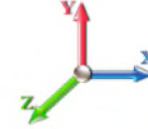


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 21

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.091	0.000	7.442	0.00	1.37
5.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.091	0.000	7.442	0.00	62.40
5.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.091	0.000	7.442	0.00	0.60
5.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.091	0.000	7.442	0.00	8.00
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.093	0.000	7.442	0.00	1.37
10.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.093	0.000	7.442	0.00	62.40
10.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.093	0.000	7.442	0.00	0.60
10.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.093	0.000	7.442	0.00	8.00
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.095	0.000	7.442	0.00	1.37
15.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.095	0.000	7.442	0.00	62.40
15.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.095	0.000	7.442	0.00	0.60
15.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.095	0.000	7.442	0.00	8.00
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.097	0.000	7.896	0.00	1.37
20.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.097	0.000	7.896	0.00	62.40
20.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.097	0.000	7.896	0.00	0.60
20.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.097	0.000	7.896	0.00	8.00
21.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.098	0.000	7.978	0.00	0.27
21.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.098	0.000	7.978	0.00	12.48
21.00	1/2" Fiber	Yes	1.00	0.000	0.38	0.03	0.00	0.098	0.000	7.978	0.00	0.12
21.00	3/4" DC	Yes	1.00	0.000	0.75	0.06	0.00	0.098	0.000	7.978	0.00	1.60
25.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.103	1.010	8.276	0.00	1.09
25.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.103	1.010	8.276	0.00	49.92
25.00	1/2" Fiber	Yes	4.00	0.000	0.38	0.13	0.00	0.103	1.010	8.276	0.00	0.48
25.00	3/4" DC	Yes	4.00	0.000	0.75	0.25	0.00	0.103	1.010	8.276	0.00	6.40
25.00	1.25" Reinforcing	Yes	0.75	0.000	1.25	0.08	0.00	0.103	1.010	8.276	0.00	0.00
27.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.124	1.071	8.460	0.00	0.75
27.75	1 5/8" Coax	Yes	2.75	0.000	3.96	0.91	0.00	0.124	1.071	8.460	0.00	34.32
27.75	1/2" Fiber	Yes	2.75	0.000	0.38	0.09	0.00	0.124	1.071	8.460	0.00	0.33
27.75	3/4" DC	Yes	2.75	0.000	0.75	0.17	0.00	0.124	1.071	8.460	0.00	4.40
27.75	1.25" Reinforcing	Yes	2.75	0.000	1.25	0.29	0.00	0.124	1.071	8.460	0.00	0.00
28.00	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.125	1.074	8.476	0.00	0.07
28.00	1 5/8" Coax	Yes	0.25	0.000	3.96	0.08	0.00	0.125	1.074	8.476	0.00	3.12
28.00	1/2" Fiber	Yes	0.25	0.000	0.38	0.01	0.00	0.125	1.074	8.476	0.00	0.03
28.00	3/4" DC	Yes	0.25	0.000	0.75	0.02	0.00	0.125	1.074	8.476	0.00	0.40
28.00	1.25" Reinforcing	Yes	0.25	0.000	1.25	0.03	0.00	0.125	1.074	8.476	0.00	0.00
30.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.124	1.071	8.600	0.00	0.55
30.00	1 5/8" Coax	Yes	2.00	0.000	3.96	0.66	0.00	0.124	1.071	8.600	0.00	24.96
30.00	1/2" Fiber	Yes	2.00	0.000	0.38	0.06	0.00	0.124	1.071	8.600	0.00	0.24
30.00	3/4" DC	Yes	2.00	0.000	0.75	0.13	0.00	0.124	1.071	8.600	0.00	3.20
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.124	1.071	8.600	0.00	0.00
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.126	1.077	8.883	0.00	1.37
35.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.126	1.077	8.883	0.00	62.40
35.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.126	1.077	8.883	0.00	0.60
35.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.126	1.077	8.883	0.00	8.00
35.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.126	1.077	8.883	0.00	0.00
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.129	1.086	9.137	0.00	1.37
40.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.129	1.086	9.137	0.00	62.40



## Linear Appurtenance Segment Forces (Factored)

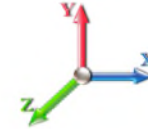
<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 21

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
40.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.129	1.086	9.137	0.00	0.60
40.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.129	1.086	9.137	0.00	8.00
40.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.129	1.086	9.137	0.00	0.00
40.75	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.131	1.092	9.173	0.00	0.20
40.75	1 5/8" Coax	Yes	0.75	0.000	3.96	0.25	0.00	0.131	1.092	9.173	0.00	9.36
40.75	1/2" Fiber	Yes	0.75	0.000	0.38	0.02	0.00	0.131	1.092	9.173	0.00	0.09
40.75	3/4" DC	Yes	0.75	0.000	0.75	0.05	0.00	0.131	1.092	9.173	0.00	1.20
40.75	1.25" Reinforcing	Yes	0.75	0.000	1.25	0.08	0.00	0.131	1.092	9.173	0.00	0.00
45.00	Safety Cable	Yes	4.25	0.000	0.38	0.13	0.00	0.128	1.084	9.366	0.00	1.16
45.00	1 5/8" Coax	Yes	4.25	0.000	3.96	1.40	0.00	0.128	1.084	9.366	0.00	53.04
45.00	1/2" Fiber	Yes	4.25	0.000	0.38	0.13	0.00	0.128	1.084	9.366	0.00	0.51
45.00	3/4" DC	Yes	4.25	0.000	0.75	0.27	0.00	0.128	1.084	9.366	0.00	6.80
45.00	1.25" Reinforcing	Yes	3.50	0.000	1.25	0.36	0.00	0.128	1.084	9.366	0.00	0.00
50.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.110	1.030	9.576	0.00	1.37
50.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.110	1.030	9.576	0.00	62.40
50.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.110	1.030	9.576	0.00	0.60
50.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.110	1.030	9.576	0.00	8.00
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.113	1.039	9.770	0.00	1.37
55.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.113	1.039	9.770	0.00	62.40
55.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.113	1.039	9.770	0.00	0.60
55.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.113	1.039	9.770	0.00	8.00
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.116	1.048	9.951	0.00	1.37
60.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.116	1.048	9.951	0.00	62.40
60.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.116	1.048	9.951	0.00	0.60
60.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.116	1.048	9.951	0.00	8.00
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.119	1.058	10.120	0.00	1.37
65.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.119	1.058	10.120	0.00	62.40
65.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.119	1.058	10.120	0.00	0.60
65.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.119	1.058	10.120	0.00	8.00
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.123	1.068	10.279	0.00	1.37
70.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.123	1.068	10.279	0.00	62.40
70.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.123	1.068	10.279	0.00	0.60
70.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.123	1.068	10.279	0.00	8.00
71.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.125	1.074	10.310	0.00	0.27
71.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.125	1.074	10.310	0.00	12.48
71.00	1/2" Fiber	Yes	1.00	0.000	0.38	0.03	0.00	0.125	1.074	10.310	0.00	0.12
71.00	3/4" DC	Yes	1.00	0.000	0.75	0.06	0.00	0.125	1.074	10.310	0.00	1.60
75.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.125	1.074	10.430	0.00	1.09
75.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.125	1.074	10.430	0.00	49.92
75.00	1/2" Fiber	Yes	4.00	0.000	0.38	0.13	0.00	0.125	1.074	10.430	0.00	0.48
75.00	3/4" DC	Yes	4.00	0.000	0.75	0.25	0.00	0.125	1.074	10.430	0.00	6.40
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.128	1.084	10.572	0.00	1.37
80.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.128	1.084	10.572	0.00	62.40
80.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.128	1.084	10.572	0.00	0.60
80.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.128	1.084	10.572	0.00	8.00
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.132	1.095	10.708	0.00	1.37
85.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.132	1.095	10.708	0.00	62.40

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 21
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
85.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.132	1.095	10.708	0.00	0.60
85.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.132	1.095	10.708	0.00	8.00
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.136	1.107	10.838	0.00	1.37
90.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.136	1.107	10.838	0.00	62.40
90.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.136	1.107	10.838	0.00	0.60
90.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.136	1.107	10.838	0.00	8.00
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.140	1.121	10.962	0.00	1.37
95.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.140	1.121	10.962	0.00	62.40
95.00	1/2" Fiber	Yes	5.00	0.000	0.38	0.16	0.00	0.140	1.121	10.962	0.00	0.60
95.00	3/4" DC	Yes	5.00	0.000	0.75	0.31	0.00	0.140	1.121	10.962	0.00	8.00
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.081	0.00	1.37
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.195	0.00	1.37
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	11.305	0.00	1.37
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	11.412	0.00	1.37
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	11.514	0.00	1.37
123.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.012	0.000	11.574	0.00	0.82
125.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.012	0.000	11.614	0.00	0.55
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	11.710	0.00	1.37
131.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.013	0.000	11.729	0.00	0.27
135.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.013	0.000	11.803	0.00	1.09
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	11.894	0.00	1.37
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	11.982	0.00	1.37
150.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	12.068	0.00	1.37
153.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.015	0.000	12.119	0.00	0.82
<b>Totals:</b>											<b>0.0</b>	<b>1,390.8</b>

## Calculated Forces

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

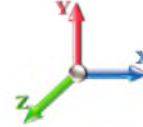


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Iterations** 21

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-40.59	-9.34	0.00	-969.15	0.00	969.15	4463.02	2231.51	10951.4	5483.88	0.00	0.000	0.000	0.186
5.00	-39.14	-9.24	0.00	-922.44	0.00	922.44	4413.36	2206.68	10604.1	5309.95	0.02	-0.042	0.000	0.183
10.00	-37.71	-9.13	0.00	-876.25	0.00	876.25	4361.89	2180.94	10257.6	5136.44	0.09	-0.085	0.000	0.179
15.00	-36.31	-9.03	0.00	-830.58	0.00	830.58	4308.61	2154.31	9912.23	4963.48	0.20	-0.128	0.000	0.176
20.00	-34.94	-8.91	0.00	-785.42	0.00	785.42	4253.53	2126.77	9568.22	4791.22	0.36	-0.172	0.000	0.172
21.00	-34.67	-8.90	0.00	-776.51	0.00	776.51	4242.30	2121.15	9499.61	4756.87	0.40	-0.181	0.000	0.171
25.00	-32.85	-8.80	0.00	-740.93	0.00	740.93	4196.65	2098.33	9225.87	4619.79	0.56	-0.216	0.000	0.168
27.75	-31.62	-8.72	0.00	-716.74	0.00	716.74	4164.60	2082.30	9038.39	4525.91	0.70	-0.241	0.000	0.110
28.00	-31.51	-8.71	0.00	-714.56	0.00	714.56	3213.57	1606.78	7065.87	3538.19	0.71	-0.243	0.000	0.121
30.00	-31.05	-8.66	0.00	-697.13	0.00	697.13	3199.34	1599.67	6969.21	3489.78	0.81	-0.255	0.000	0.131
35.00	-29.92	-8.52	0.00	-653.81	0.00	653.81	3162.51	1581.26	6727.41	3368.71	1.10	-0.287	0.000	0.126
40.00	-28.80	-8.37	0.00	-611.20	0.00	611.20	3123.88	1561.94	6485.64	3247.64	1.42	-0.319	0.000	0.121
40.75	-28.64	-8.36	0.00	-604.92	0.00	604.92	3117.93	1558.96	6449.39	3229.49	1.47	-0.324	0.000	0.120
40.75	-28.64	-8.36	0.00	-604.92	0.00	604.92	3117.93	1558.96	6449.39	3229.49	1.47	-0.324	0.000	0.120
45.00	-27.71	-8.24	0.00	-569.41	0.00	569.41	3083.44	1541.72	6244.17	3126.72	1.77	-0.351	0.000	0.191
50.00	-26.63	-8.11	0.00	-528.22	0.00	528.22	3041.20	1520.60	6003.26	3006.09	2.16	-0.404	0.000	0.185
55.00	-25.58	-7.98	0.00	-487.66	0.00	487.66	2997.16	1498.58	5763.21	2885.89	2.62	-0.456	0.000	0.178
60.00	-24.55	-7.85	0.00	-447.77	0.00	447.77	2951.32	1475.66	5524.28	2766.24	3.12	-0.508	0.000	0.170
65.00	-23.54	-7.71	0.00	-408.54	0.00	408.54	2903.67	1451.83	5286.75	2647.30	3.68	-0.559	0.000	0.162
70.00	-21.75	-7.52	0.00	-369.98	0.00	369.98	2854.22	1427.11	5050.90	2529.20	4.29	-0.610	0.000	0.154
71.00	-21.41	-7.49	0.00	-362.46	0.00	362.46	2869.57	1434.79	5123.02	2565.32	4.42	-0.621	0.000	0.149
75.00	-20.63	-7.38	0.00	-332.49	0.00	332.49	2829.16	1414.58	4935.24	2471.29	4.96	-0.661	0.000	0.142
80.00	-19.67	-7.24	0.00	-295.58	0.00	295.58	2777.01	1388.51	4702.41	2354.70	5.68	-0.708	0.000	0.133
85.00	-18.73	-7.10	0.00	-259.38	0.00	259.38	2723.06	1361.53	4471.94	2239.29	6.45	-0.753	0.000	0.123
90.00	-17.82	-6.95	0.00	-223.88	0.00	223.88	2667.31	1333.66	4244.12	2125.22	7.26	-0.796	0.000	0.112
95.00	-13.69	-5.19	0.00	-189.11	0.00	189.11	2609.76	1304.88	4019.22	2012.60	8.11	-0.836	0.000	0.099
100.00	-12.89	-5.06	0.00	-163.15	0.00	163.15	2550.40	1275.20	3797.52	1901.58	9.01	-0.874	0.000	0.091
105.00	-12.05	-4.87	0.00	-137.64	0.00	137.64	2489.24	1244.62	3579.29	1792.30	9.94	-0.910	0.000	0.082
110.00	-11.29	-4.74	0.00	-113.31	0.00	113.31	2426.28	1213.14	3364.80	1684.90	10.92	-0.943	0.000	0.072
115.00	-10.10	-4.61	0.00	-89.60	0.00	89.60	1783.00	891.50	2427.68	1215.65	11.92	-0.973	0.000	0.079
120.00	-9.48	-4.49	0.00	-66.56	0.00	66.56	1739.91	869.95	2280.12	1141.75	12.95	-0.998	0.000	0.064
123.00	-6.80	-2.85	0.00	-53.09	0.00	53.09	1713.19	856.59	2192.59	1097.92	13.59	-1.014	0.000	0.052
125.00	-6.60	-2.80	0.00	-47.40	0.00	47.40	1695.01	847.51	2134.69	1068.93	14.01	-1.024	0.000	0.048
130.00	-6.12	-2.69	0.00	-33.40	0.00	33.40	1648.31	824.16	1991.67	997.31	15.10	-1.044	0.000	0.037
131.00	-3.68	-1.58	0.00	-30.71	0.00	30.71	1638.75	819.38	1963.38	983.15	15.32	-1.047	0.000	0.033
135.00	-3.36	-1.49	0.00	-24.38	0.00	24.38	1599.81	799.90	1851.33	927.04	16.20	-1.060	0.000	0.028
140.00	-2.98	-1.39	0.00	-16.91	0.00	16.91	1549.50	774.75	1713.96	858.25	17.32	-1.073	0.000	0.022
145.00	-2.61	-1.28	0.00	-9.98	0.00	9.98	1497.39	748.69	1579.82	791.09	18.44	-1.082	0.000	0.014
150.00	-2.26	-1.19	0.00	-3.56	0.00	3.56	1443.48	721.74	1449.20	725.68	19.58	-1.088	0.000	0.006
150.00	-2.26	-1.19	0.00	-3.56	0.00	3.56	1443.48	721.74	1449.20	725.68	19.58	-1.088	0.000	0.006
153.00	0.00	-1.14	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	20.27	-1.089	0.000	0.000



## Final Analysis Summary

<b>Structure:</b> CT01499-S-SBA	<b>Code:</b> EIA/TIA-222-G	6/2/2021
<b>Site Name:</b> Torrington	<b>Exposure:</b> C	
<b>Height:</b> 153.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> B - Competent Rock	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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### Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 105 mph Wind	45.8	0.00	48.62	0.00	0.00	4767.54
0.9D + 1.6W 105 mph Wind	45.8	0.00	36.45	0.00	0.00	4731.34
1.2D + 1.0Di + 1.0Wi 40 mph Wind	7.0	0.00	81.09	0.00	0.00	722.86
1.2D + 1.0E	0.9	0.00	48.71	0.00	0.00	100.95
0.9D + 1.0E	0.9	0.00	36.53	0.00	0.00	100.10
1.0D + 1.0W 60 mph Wind	9.3	0.00	40.59	0.00	0.00	969.15

### Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 105 mph Wind	-32.01	-40.54	0.00	-2804.2	0.00	-2804.2	3083.44	1541.7	6244.17	3126.72	45.00	0.908
0.9D + 1.6W 105 mph Wind	-23.70	-40.26	0.00	-2775.1	0.00	-2775.1	3083.44	1541.7	6244.17	3126.72	45.00	0.896
1.2D + 1.0Di + 1.0Wi 40 mph Wind	-58.99	-6.16	0.00	-423.24	0.00	-423.24	3083.44	1541.7	6244.17	3126.72	45.00	0.155
1.2D + 1.0E	-33.31	-0.71	0.00	-63.71	0.00	-63.71	3083.44	1541.7	6244.17	3126.72	45.00	0.031
0.9D + 1.0E	-24.99	-0.70	0.00	-63.01	0.00	-63.01	3083.44	1541.7	6244.17	3126.72	45.00	0.028
1.0D + 1.0W 60 mph Wind	-27.71	-8.24	0.00	-569.41	0.00	-569.41	3083.44	1541.7	6244.17	3126.72	45.00	0.191

### Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination				Upper Termination				Max Member					
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio		
27.8	40.8	(3) PLT-8"x1.25"(1.25Hole)	408.6	7.36	37.1	347.3	37.1			14	355.4	37.1			14	376.80	551.4	501.56	0.751



# Monopole Mat Foundation Design

Date

6/2/2021

<b>Customer Name:</b>	Verizon	<b>EIA/TIA Standard:</b>	EIA-222-G
<b>Site Name:</b>		<b>Structure Height (Ft.):</b>	153
<b>Site Number:</b>	CT01499-S-SBA	<b>Engineer Name:</b>	T. Alajaj
<b>Engr. Number:</b>	108842	<b>Engineer Login ID:</b>	

**Foundation Info Obtained from:**

Mapping Operation

**Structure Type:**

Monopole

**Analysis or Design?**

Analysis

**Base Reactions (Factored):**

Axial Load (Kips):	48.6	Shear Force (Kips):	45.8
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4767.5

Allowable overstress %: 5.0%

**Foundation Geometries:**

Diameter of Pier (ft.):	7.0	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	0.25	Depth of Base BG (ft.):	8.0
Length of Pad (ft.):	29	Thickness of Pad (ft.):	4.00
		Width of Pad (ft.):	29

Final Length of pad (ft)	29.0	Final width of pad (ft):	29.0
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**Material Properties and Rebar Info:**

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	47	Tie Spacing (in):	8.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	9	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	26	Qty. of Rebar in Pad (W):	26
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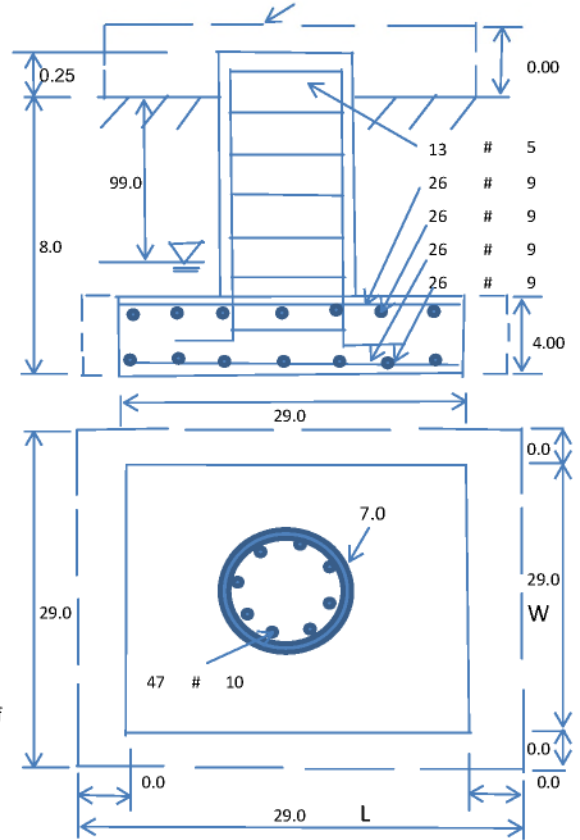
Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	26	Qty. of Rebar in Pad (W):	26
---------------------------	----	---------------------------	----

Apply 1.35 factor for e/w Per G: 1.35

**Soil Design Parameters:**

Soil Unit Weight (pcf):	110.0	Soil Buoyant Weight:	50.0	Pcf	Angle from Top of Pad:	30
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Bottm of Pad:	25
Ultimate Bearing Pressure (psf):	4500	Ultimate Skin Friction:	425	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Reduction factor on the maximum soil bearing pressure:	1.00
Consider soil hor. resist. for OTM.:	Yes					



**Foundation Analysis and Design:**

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	3210.06	Total Dry Soil Weight (Kips):	353.11
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	353.11	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	3527.56	Total Dry Concrete Weight (Kips):	529.13
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	529.13	Total Vertical Load on Base (Kips):	930.84

**Check Soil Capacities:**

Calculated Maxium Net Soil Pressure under the base (psf):	2238	< Allowable Factored Soil Bearing (psf):	3375	0.66	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	12217.9	> Design Factored Momont (kips-ft):	4779	0.39	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	2.56				OK!

Load/  
Capacity  
Ratio

**Check the capacities of Reinforcing Concrete:**

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00

Load/  
Capacity  
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	1.27	Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	9234.8	> Design Factored Moment (Mu, Kips-F	4962.2	0.54	OK!
Calculated Shear Capacity (Kips):	767.8	> Design Factored Shear (Kips):	45.8	0.06	OK!
Calculated Tension Capacity (Tn, Kips):	3223.3	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	7269.2	> Design Factored Axial Load (Pu Kips):	48.6	0.01	OK!
Moment & Axial Strength Combination:	0.54	OK! Check Tie Spacing (Design/Required):		0.6667	OK!
Pier Reinforcement Ratio:	0.011	Reinforcement Ratio is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	1270.5	> One-Way Factored Shear (L-D. Kips):	291.5	0.23	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1270.5	> One-Way Factored Shear (W-D., Kips)	291.5	0.23	OK!
One-Way Design Shear Capacity (Corner-Corner, Kips):	1165.6	> One-Way Factored Shear (C-C, Kips):	272.4	0.23	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct. ):	0.0017	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0017		
Lower Steel Pad Moment Capacity (L-Direction, Kips-ft):	5096.3	> Moment at Bottom ( L-Dir. K-Ft):	2059.1	0.40	OK!
Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):	5096.3	> Moment at Bottom ( W-Dir. K-Ft):	2059.1	0.40	OK!
Lower Steel Pad Moment Capacity (Corner-Corner, K-ft):	7177.4	> Moment at Bottom ( C-C Dir. K-Ft):	2912.1	0.41	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct. ):	0.0017	OK! Upper Steel Reinf. Ratio (W-Dir. ):	0.0017		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	5096.3	> Moment at the top (L-Dir K-Ft):	856.4	0.17	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	5096.3	> Moment at the top (W-Dir K-Ft):	856.4	0.17	OK!
Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):	7177.4	> Moment at the top (C-C Dir. K-Ft):	800.3	0.11	OK!

(3).Check Punching Shear Capacity due to Moment in the Pier:

Moment transferred by punching shear:	1907.0	k-ft.	Max. factored shear stress $v_{u\_CD}$ :	4.8	Psi
Max. factored shear stress $v_{u\_AB}$ :	8.8	Psi	Factored shear Strength $\phi v_n$ :	164.3	Psi
Max. factored shear stress $v_u$ :	8.8	Psi	Check Usage of Punching Shear Capacity:	0.05	OK!



Maser Consulting Connecticut  
 2000 Midlantic Drive, Suite 100  
 Mt. Laurel, NJ 08054  
 (856) 797-0412  
 peter.albano@colliersengineering.com

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

Mount Fix

SMART Tool Project #: 10065587  
 Maser Consulting Connecticut Project #: 21777083A

May 11, 2021

### Site Information

Site ID: 467194-VZW / TORRINGTON E CT  
 Site Name: TORRINGTON E CT  
 Carrier Name: Verizon Wireless  
 Address: 1931 East Main Street  
 Torrington, Connecticut 06790  
 Litchfield County  
 Latitude: 41.823275°  
 Longitude: -73.076658°

### Structure Information

Tower Type: 153-Ft Monopole  
 Mount Type: 13.96-Ft Platform

**FUZE ID # 16227595**

### Analysis Results

Platform: **58.0% 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**

Digitally signed by Taqi Khawaja-Ghulam  
 Date: 2021.05.12 11:45:17-04'00'

Report Prepared By: Selene Chen



**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:**

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 324977, dated March 16, 2021
Mount Mapping Report	RKS Design and Engineering LLC, Site ID: SBA: CT01499 VZW: 467194, dated March 22, 2021
Mount Analysis Report	Maser Consulting Connecticut, Project #: 21777083A, dated April 21, 2021
Mount Modification Drawings	Maser Consulting Connecticut, Project #: 21777083A, dated May 11, 2021

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 115 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.961
Seismic Parameters:	$S_s$ : 0.174 $S_1$ : 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 mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
121.25	123.00	3	Samsung	MT6407-77A	Added
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		6	Andrew	SBNHH-1D65B	Retained
		4	Antel	LPA-80063/6CF	
		2	Antel	LPA-80063/6CF 5	
		2	Raycap	RRFDC-3315-PF-48*	

\* Equipment is flush mounted directly to the Monopole. They are not mounted on Platform mount and are not included in this mount analysis.

**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 by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - Pipe    ASTM A53 (Gr. B-35)
  - Threaded Rod                                      F1554 (Gr. 36)
  - Bolts     ASTM A325
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
Connection	58.0%	Pass
Standoff	35.8%	Pass
Crossmember	18.6%	Pass
Cross Arm Plate	40.4%	Pass
Corner Plate	28.8%	Pass
Face Horizontal	18.8%	Pass
Mount Pipe	35.1%	Pass
Support Rail	15.6%	Pass
Support Rail Corner	23.2%	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>58.0%</b>
---	--------------

**Recommendation:**

The existing mount 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

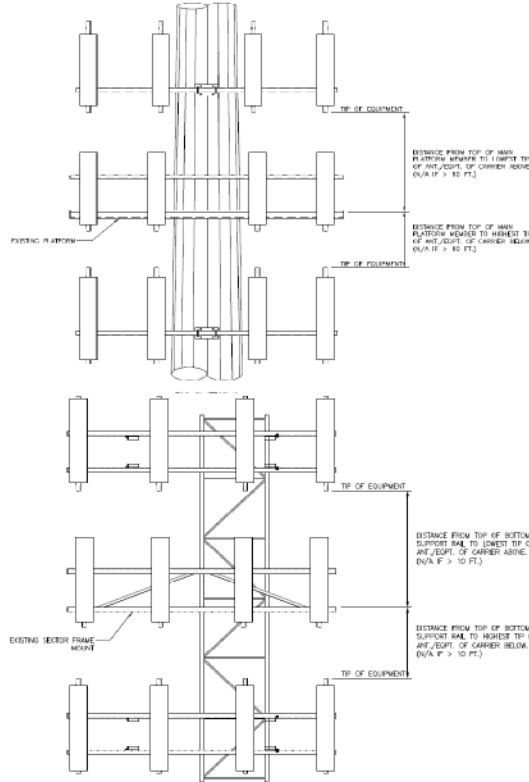








Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B													
Sector A:	20.00	Deg	Leg A:		Deg	Ant <sub>1a</sub>													
Sector B:	140.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>	LPA-80063-6CF-EDIN	15.20	13.10	71.10		121.708	35.25	15.25	140.00	18,190			
Sector C:	260.00	Deg	Leg C:		Deg	Ant <sub>1c</sub>													
Sector D:		Deg	Leg D:		Deg	Ant <sub>2a</sub>	B66A RRH4X45	11.80	7.20	25.80		123.25	17.75	-7.00		18,190			
<b>Climbing Facility Information</b>						Ant <sub>2b</sub>	SBNHH-1D65B	11.90	7.10	72.00		122.646	25.00	9.25	140.00	18,190			
Location:	260.00	Deg		N/A		Ant <sub>2c</sub>													
Climbing Facility	Corrosion Type:			N/A		Ant <sub>3a</sub>	B13 RRH4X30	12.00	9.00	21.60		123.083	25.75	-9.50		18,191			
	Access:			Climbing path was unobstructed.		Ant <sub>3b</sub>	SBNHH-1D65B	11.90	7.10	72.00		122.688	30.50	9.00	140.00	18,191			
	Condition:			Good condition.		Ant <sub>3c</sub>													
						Ant <sub>4a</sub>													
						Ant <sub>4b</sub>	SBNHH-1D65B	11.90	7.10	72.00		122.188	30.50	9.00	140.00	18,192			
						Ant <sub>4c</sub>													
						Ant <sub>5a</sub>													
						Ant <sub>5b</sub>	LPA-80063-6CF-EDIN	15.20	13.10	71.10		121.958	35.25	17.50	140.00	18,192			
						Ant <sub>5c</sub>													
						Ant on Standoff													
						Ant on Standoff													
						Ant on Tower													
						Ant on Tower													
						<b>Sector C</b>													
						Ant <sub>1a</sub>													
						Ant <sub>1b</sub>	LPA-80063-6CF-EDIN	15.20	13.10	71.10		121.708	35.25	15.25	260.00	26,194			
						Ant <sub>1c</sub>													
						Ant <sub>2a</sub>	B66A RRH4X45	11.80	7.20	25.80		123.25	17.75	-7.00		26,194			
						Ant <sub>2b</sub>	SBNHH-1D65B	11.90	7.10	72.00		122.646	25.00	9.25	260.00	26,194			
						Ant <sub>2c</sub>													
						Ant <sub>3a</sub>	B13 RRH4X30	12.00	9.00	21.60		123.083	25.75	-9.50		26,196			
						Ant <sub>3b</sub>	SBNHH-1D65B	11.90	7.10	72.00		122.688	30.50	9.00	260.00	26,196			
						Ant <sub>3c</sub>													
						Ant <sub>4a</sub>													
						Ant <sub>4b</sub>	SBNHH-1D65B	11.90	7.10	72.00		122.188	30.50	9.00	260.00	26,196			
						Ant <sub>4c</sub>													
						Ant <sub>5a</sub>													
						Ant <sub>5b</sub>	LPA-80063-6CF-EDIN	15.20	13.10	71.10		121.958	35.25	17.50	260.00	26,196			
						Ant <sub>5c</sub>													
						Ant on Standoff													
						Ant on Standoff													
						Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	25.66			37.00			165			
						Ant on Tower													
						<b>Sector D</b>													
						Ant <sub>1a</sub>													
						Ant <sub>1b</sub>													
						Ant <sub>1c</sub>													
						Ant <sub>2a</sub>													
						Ant <sub>2b</sub>													
						Ant <sub>2c</sub>													
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						Ant <sub>4c</sub>													
						Ant <sub>5a</sub>													
						Ant <sub>5b</sub>													
						Ant <sub>5c</sub>													
						Ant on Standoff													
						Ant on Standoff													
						Ant on Tower													
						Ant on Tower													



Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1	COAX TOTAL(18); (16) FH 1 -5/8 ; (2) 1.55" Ø HYBRID	47
2		
3		
4		
5		
6		
7		
8		

**Mapping Notes**

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

**Standard Conditions**

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



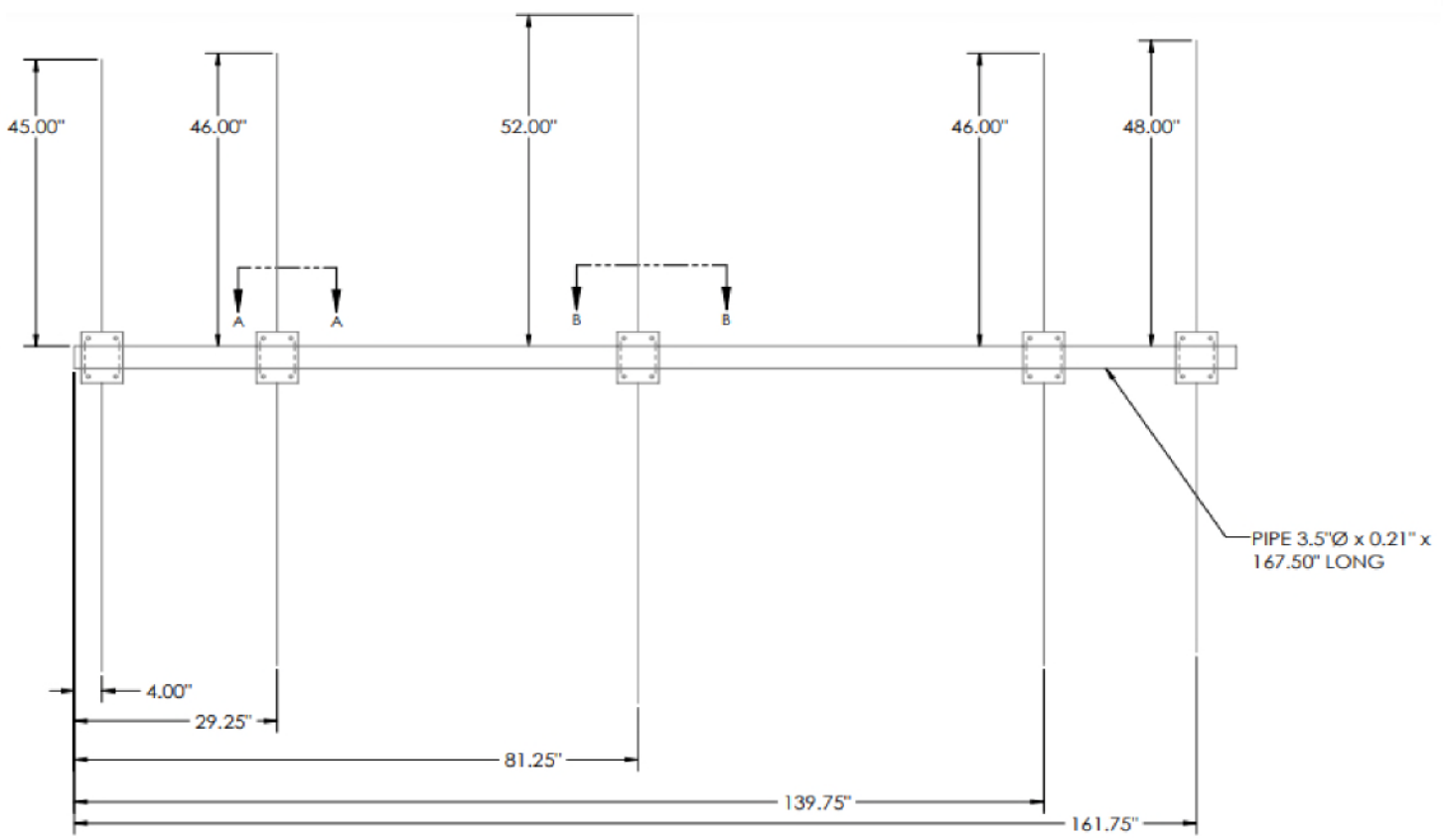
### Antenna Mount Mapping Form (PATENT PENDING)

FCC #  
1218025

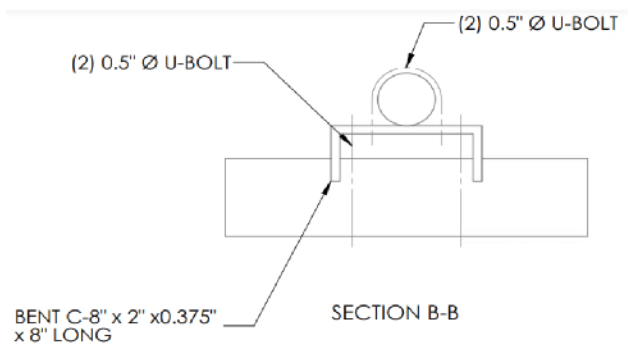
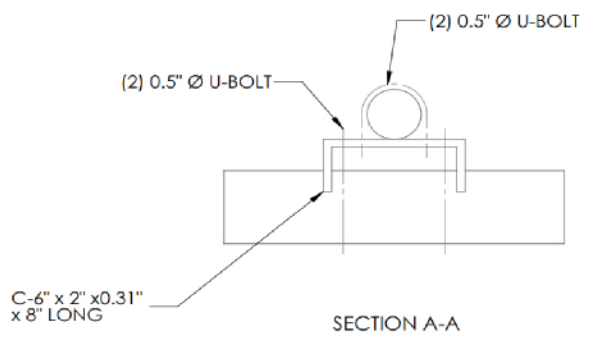
<b>Tower Owner:</b>	SBA TOWER	<b>Mapping Date:</b>	03-22-2021
<b>Site Name:</b>	VZW - TORRINGTON E CT	<b>Tower Type:</b>	Monopole
<b>Site Number or ID:</b>	SBA : CT01499, VZW:467194	<b>Tower Height (FT):</b>	UNKNOWN
<b>Mapping Contractor:</b>	RKS DESIGN AND ENGINEERING LLC	<b>Mount Elevation (FT):</b>	120.75

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.

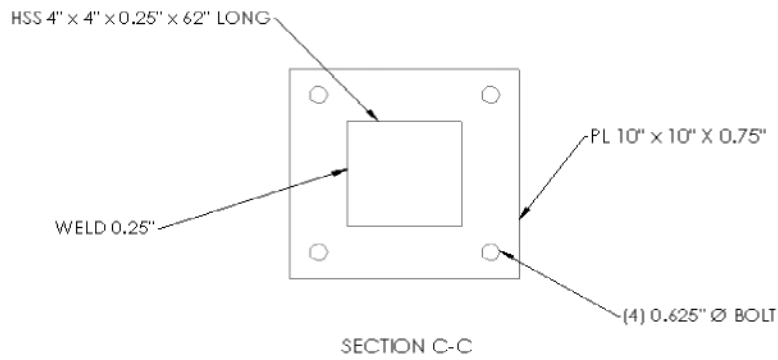
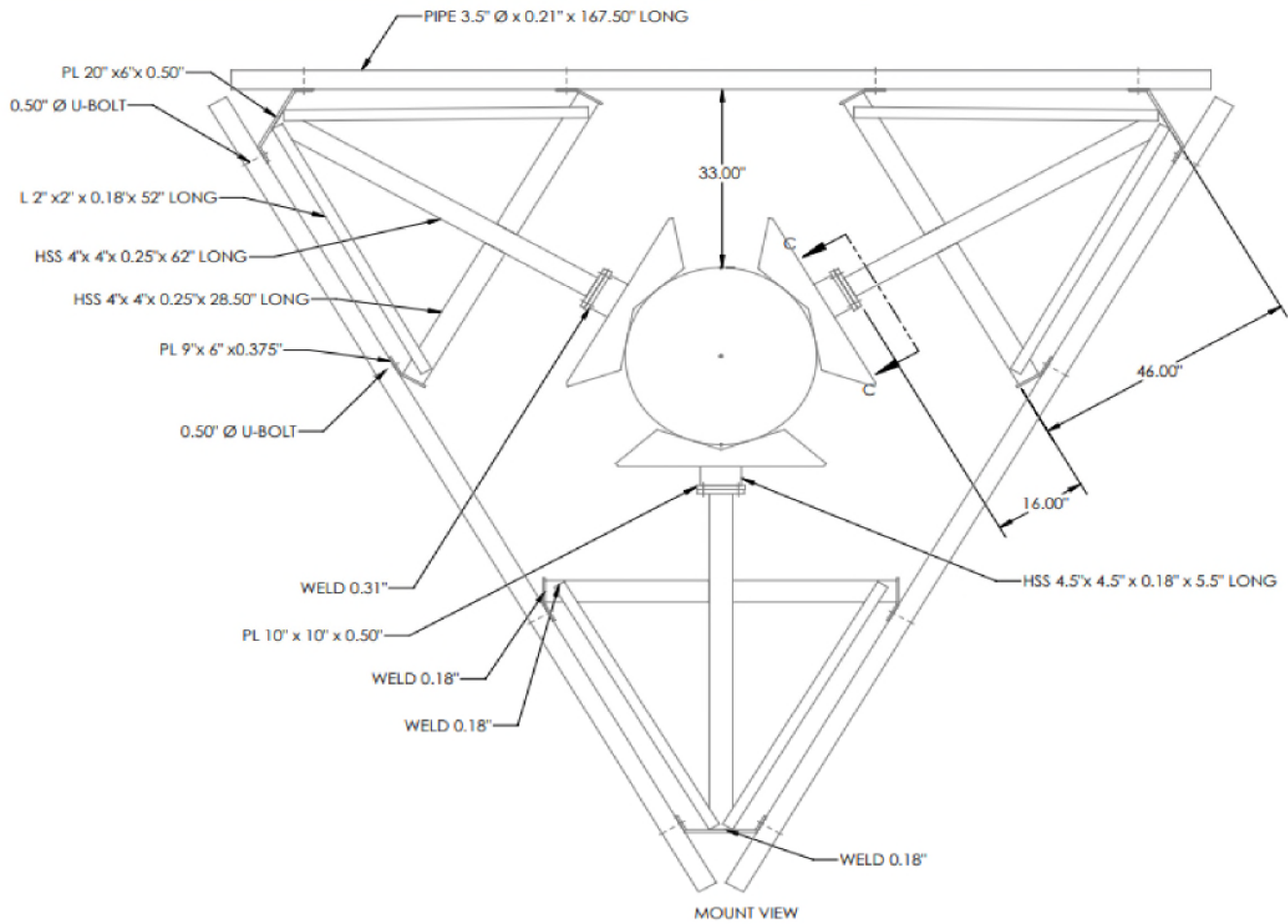
Please Insert Sketches of the Antenna Mount



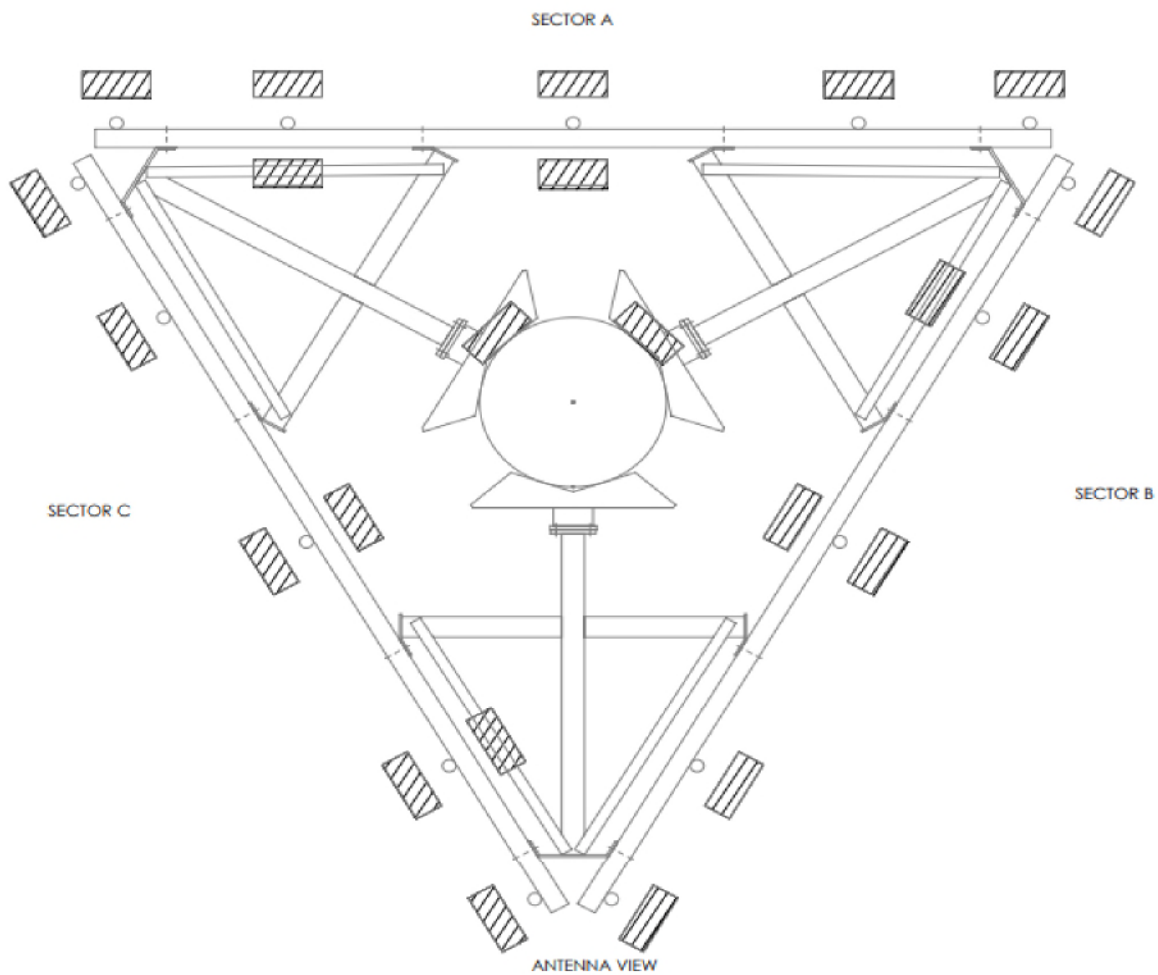
SECTOR A , B & C



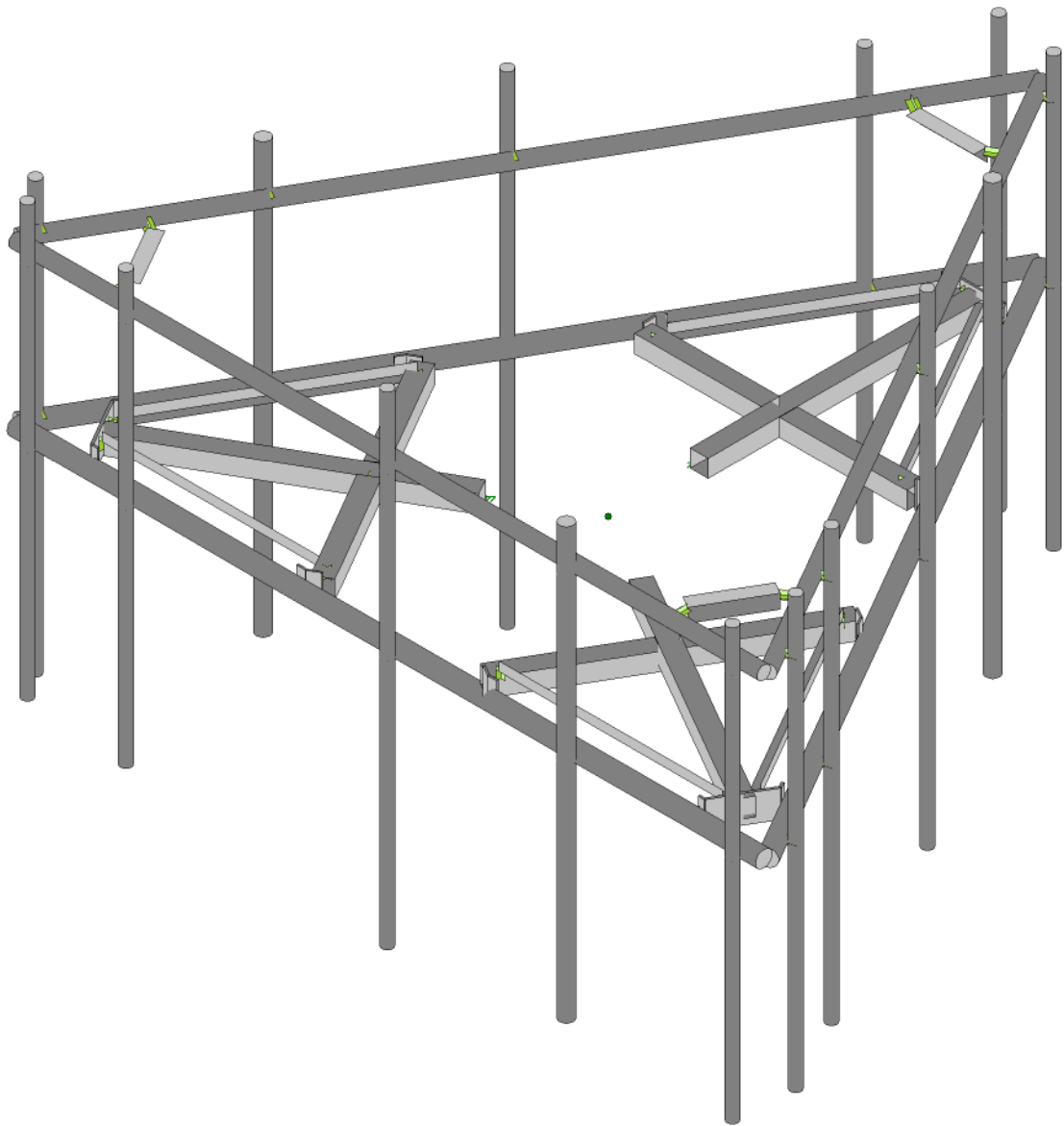
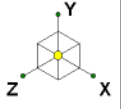
Please Insert Sketches of the Antenna Mount, cont'd



Please Insert Sketches of the Antenna Mount, cont'd







Envelope Only Solution

Maser Consulting

AJH

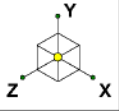
Project No. 10037788

467194-VZW\_MT\_LO\_H

SK - 1

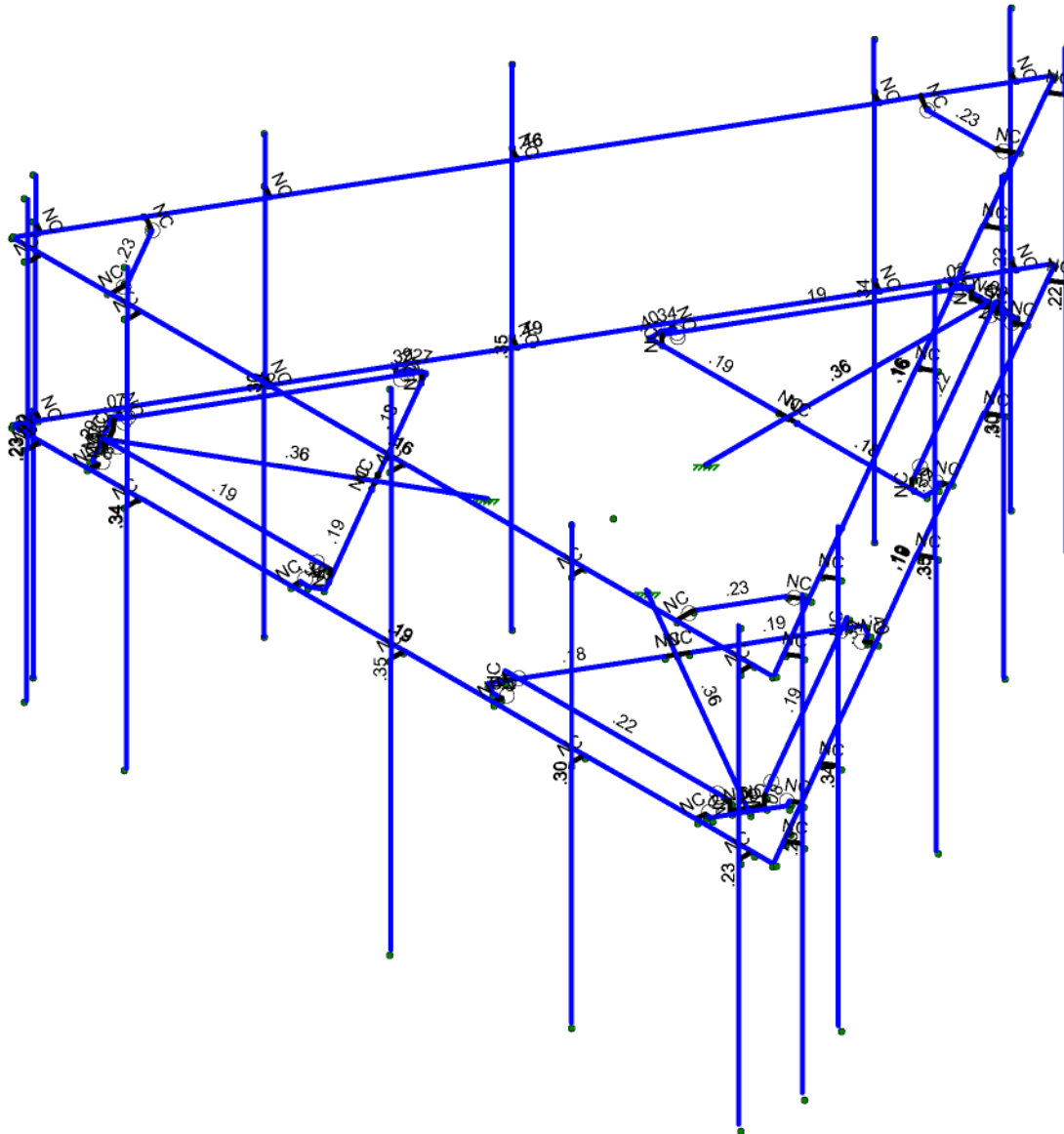
May 10, 2021 at 4:29 PM

467194-VZW\_MT\_LO\_H\_Revised.r3d



Code Check ( Env )

Black	No Calc
Red	> 1.0
Magenta	90-1.0
Green	75-90
Cyan	50-75
Blue	0-.50

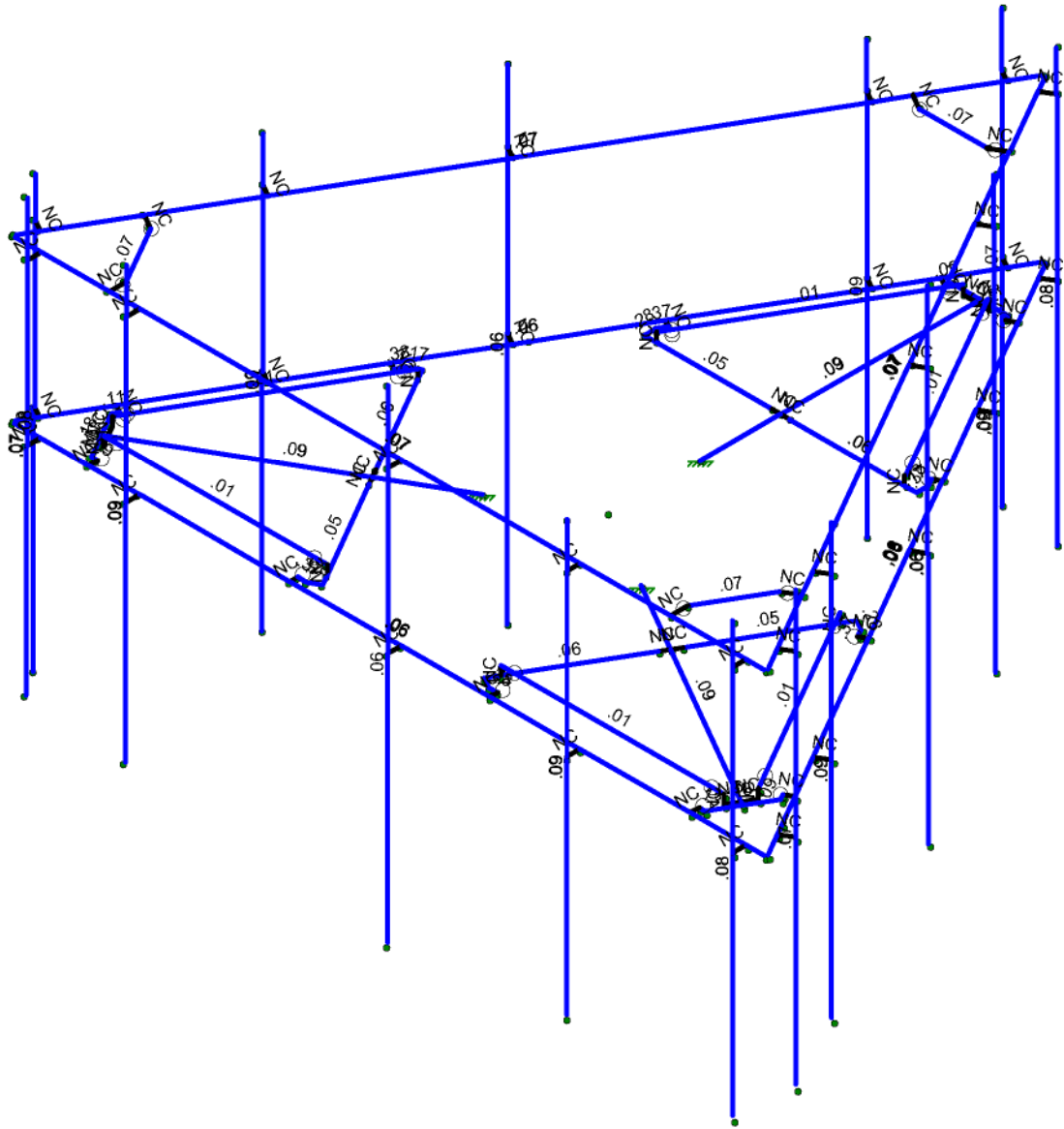
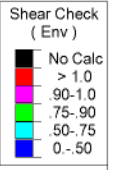
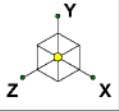


Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Maser Consulting
AJH
Project No. 10037788

467194-VZW_MT_LO_H	
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SK - 2
May 10, 2021 at 4:29 PM
467194-VZW_MT_LO_H_Revised.r3d



Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

Maser Consulting	467194-VZW_MT_LO_H	SK - 3
AJH		May 10, 2021 at 4:29 PM
Project No. 10037788		467194-VZW_MT_LO_H_Revised.r3d



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
 Model Name : 467194-VZW\_MT\_LO\_H

May 10, 2021  
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### Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					108		
2	Antenna Di	None					108		
3	Antenna Wo (0 Deg)	None					108		
4	Antenna Wo (30 Deg)	None					108		
5	Antenna Wo (60 Deg)	None					108		
6	Antenna Wo (90 Deg)	None					108		
7	Antenna Wo (120 Deg)	None					108		
8	Antenna Wo (150 Deg)	None					108		
9	Antenna Wo (180 Deg)	None					108		
10	Antenna Wo (210 Deg)	None					108		
11	Antenna Wo (240 Deg)	None					108		
12	Antenna Wo (270 Deg)	None					108		
13	Antenna Wo (300 Deg)	None					108		
14	Antenna Wo (330 Deg)	None					108		
15	Antenna Wi (0 Deg)	None					108		
16	Antenna Wi (30 Deg)	None					108		
17	Antenna Wi (60 Deg)	None					108		
18	Antenna Wi (90 Deg)	None					108		
19	Antenna Wi (120 Deg)	None					108		
20	Antenna Wi (150 Deg)	None					108		
21	Antenna Wi (180 Deg)	None					108		
22	Antenna Wi (210 Deg)	None					108		
23	Antenna Wi (240 Deg)	None					108		
24	Antenna Wi (270 Deg)	None					108		
25	Antenna Wi (300 Deg)	None					108		
26	Antenna Wi (330 Deg)	None					108		
27	Antenna Wm (0 Deg)	None					108		
28	Antenna Wm (30 Deg)	None					108		
29	Antenna Wm (60 Deg)	None					108		
30	Antenna Wm (90 Deg)	None					108		
31	Antenna Wm (120 De...	None					108		
32	Antenna Wm (150 De...	None					108		
33	Antenna Wm (180 De...	None					108		
34	Antenna Wm (210 De...	None					108		
35	Antenna Wm (240 De...	None					108		
36	Antenna Wm (270 De...	None					108		
37	Antenna Wm (300 De...	None					108		
38	Antenna Wm (330 De...	None					108		
39	Structure D	None		-1					3
40	Structure Di	None						60	3
41	Structure Wo (0 Deg)	None						120	
42	Structure Wo (30 Deg)	None						120	
43	Structure Wo (60 Deg)	None						120	
44	Structure Wo (90 Deg)	None						120	
45	Structure Wo (120 D...	None						120	
46	Structure Wo (150 D...	None						120	
47	Structure Wo (180 D...	None						120	
48	Structure Wo (210 D...	None						120	
49	Structure Wo (240 D...	None						120	
50	Structure Wo (270 D...	None						120	
51	Structure Wo (300 D...	None						120	



**Basic Load Cases (Continued)**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
52	Structure Wo (330 D...	None						120	
53	Structure Wi (0 Deg)	None						120	
54	Structure Wi (30 Deg)	None						120	
55	Structure Wi (60 Deg)	None						120	
56	Structure Wi (90 Deg)	None						120	
57	Structure Wi (120 De...	None						120	
58	Structure Wi (150 De...	None						120	
59	Structure Wi (180 De...	None						120	
60	Structure Wi (210 De...	None						120	
61	Structure Wi (240 De...	None						120	
62	Structure Wi (270 De...	None						120	
63	Structure Wi (300 De...	None						120	
64	Structure Wi (330 De...	None						120	
65	Structure Wm (0 Deg)	None						120	
66	Structure Wm (30 D...	None						120	
67	Structure Wm (60 D...	None						120	
68	Structure Wm (90 D...	None						120	
69	Structure Wm (120 ...	None						120	
70	Structure Wm (150 ...	None						120	
71	Structure Wm (180 ...	None						120	
72	Structure Wm (210 ...	None						120	
73	Structure Wm (240 ...	None						120	
74	Structure Wm (270 ...	None						120	
75	Structure Wm (300 ...	None						120	
76	Structure Wm (330 ...	None						120	
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	PDelta	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	
1	1.2D+1.0Wo (0...	Yes	Y		1	1.2	39	1.2	3	1	41	1				
2	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	4	1	42	1				
3	1.2D+1.0Wo (6...	Yes	Y		1	1.2	39	1.2	5	1	43	1				
4	1.2D+1.0Wo (9...	Yes	Y		1	1.2	39	1.2	6	1	44	1				
5	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	7	1	45	1				
6	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	8	1	46	1				
7	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	9	1	47	1				
8	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	10	1	48	1				
9	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	11	1	49	1				
10	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	12	1	50	1				
11	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	13	1	51	1				
12	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	14	1	52	1				
13	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1
14	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1
15	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1
16	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1





**Load Combinations (Continued)**

	Description	Solve	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
17	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1		
18	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1		
19	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1		
20	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1		
21	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1		
22	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1		
23	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1		
24	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1		
25	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1				
26	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1				
27	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1				
28	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1				
29	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1				
30	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1				
31	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1				
32	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1				
33	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1				
34	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1				
35	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1				
36	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1				
37	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1				
38	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1				
39	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1				
40	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1				
41	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1				
42	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1				
43	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1				
44	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1				
45	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1				
46	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1				
47	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1				
48	1.2D + 1.5Lm2 ...	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 + ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1				
54	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866				
55	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5				
56	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ					
57	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5				
58	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866				
59	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1				
60	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866				
61	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5				
62	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ					
63	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5				
64	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866				





Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
 Model Name : 467194-VZW\_MT\_LO\_H

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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N248A	-5.602175	0	4.060523	0	
53	N249A	-5.899798	0	3.40625	0	
54	N250A	-6.016917	0.166667	3.203394	0	
55	N251A	-6.016917	0	3.203394	0	
56	N252A	-5.782679	0.166667	3.609106	0	
57	N253A	-5.782679	0	3.609106	0	
58	N254A	1.47946	0	0.854167	0	
59	N255A	4.049332	0	-0.596981	0	
60	N256A	1.620946	0.166667	3.609106	0	
61	N257A	3.93605	0.166667	-0.400772	0	
62	N258A	2.778498	0	1.604167	0	
63	N259A	5.971967	0	3.447917	0	
64	N261A	1.620946	0	3.609106	0	
65	N262A	3.93605	0	-0.400772	0	
66	N263A	1.507665	0	3.805315	0	
67	N264A	2.861832	0	1.459829	0	
68	N265A	2.695165	0	1.748504	0	
69	N266A	4.238775	0	-0.487606	0	
70	N267A	1.697108	0	3.91469	0	
71	N268A	1.863775	0	3.91469	0	
72	N269A	5.602175	0	3.894461	0	
73	N270A	4.322108	0	-0.343269	0	
74	N271A	6.17379	0	2.904396	0	
75	N272A	1.863775	0	4.060523	0	
76	N273A	4.448404	0	-0.416186	0	
77	N274A	6.229779	0	3.001372	0	
78	N275A	5.714154	0	3.894461	0	
79	N276A	5.602175	0	4.060523	0	
80	N277A	6.317604	0	2.821364	0	
81	N278A	5.899798	0	3.40625	0	
82	N279A	5.782679	0.166667	3.609106	0	
83	N280A	5.782679	0	3.609106	0	
84	N281A	6.016917	0.166667	3.203394	0	
85	N282A	6.016917	0	3.203394	0	
86	N281B	-3.516516	0	-2.030262	0	
87	N286A	6.979167	0	4.060523	0	
88	N287A	-6.979167	0	4.060523	0	
89	N290A	6.641516	0	3.382397	0	
90	N287B	0.026933	0	-8.074397	0	
91	N288A	7.0061	0	4.013874	0	
92	N290B	-7.0061	0	4.013874	0	
93	N291A	-0.026933	0	-8.074397	0	
94	N95	6.645833	0	4.060523	0	
95	N96	6.645833	0	4.310523	0	
96	N97	6.645833	3.75	4.310523	0	
97	N98	6.645833	-4.25	4.310523	0	
98	N99	3.541667	0	4.060523	0	
99	N100	3.541667	0	4.310523	0	
100	N101A	0.208333	0	4.060523	0	
101	N102A	0.208333	0	4.310523	0	
102	N103	-4.666667	0	4.060523	0	
103	N104	-4.666667	0	4.310523	0	



Company : Maser Consulting  
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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
104	N105A	-6.5	0	4.060523	0	
105	N106	-6.5	0	4.310523	0	
106	N107	3.541667	3.833333	4.310523	0	
107	N108	3.541667	-4.166667	4.310523	0	
108	N109	0.208333	4.333333	4.310523	0	
109	N110	0.208333	-4.666667	4.310523	0	
110	N111	-4.666667	3.833333	4.310523	0	
111	N112	-4.666667	-4.166667	4.310523	0	
112	N113	-6.5	4	4.310523	0	
113	N114	-6.5	-4	4.310523	0	
114	N116	0.1936	0	-7.785722	0	
115	N117	0.410106	0	-7.910722	0	
116	N118	0.410106	3.75	-7.910722	0	
117	N119	0.410106	-4.25	-7.910722	0	
118	N120	1.745683	0	-5.097435	0	
119	N121	1.962189	0	-5.222435	0	
120	N122	3.41235	0	-2.210684	0	
121	N123	3.628856	0	-2.335684	0	
122	N124	5.84985	0	2.01119	0	
123	N125	6.066356	0	1.88619	0	
124	N126	6.766516	0	3.598903	0	
125	N127	6.983023	0	3.473903	0	
126	N128	1.962189	3.833333	-5.222435	0	
127	N129	1.962189	-4.166667	-5.222435	0	
128	N130	3.628856	4.333333	-2.335684	0	
129	N131A	3.628856	-4.666667	-2.335684	0	
130	N132	6.066356	3.833333	1.88619	0	
131	N133	6.066356	-4.166667	1.88619	0	
132	N134	6.983023	4	3.473903	0	
133	N135A	6.983023	-4	3.473903	0	
134	N137	-6.839433	0	3.725199	0	
135	N138	-7.055939	0	3.600199	0	
136	N139	-7.055939	3.75	3.600199	0	
137	N140	-7.055939	-4.25	3.600199	0	
138	N141	-5.28735	0	1.036912	0	
139	N142	-5.503856	0	0.911912	0	
140	N143	-3.620683	0	-1.84984	0	
141	N144A	-3.837189	0	-1.97484	0	
142	N145	-1.183183	0	-6.071714	0	
143	N146	-1.399689	0	-6.196714	0	
144	N147	-0.266516	0	-7.659427	0	
145	N148A	-0.483023	0	-7.784427	0	
146	N149	-5.503856	3.833333	0.911912	0	
147	N150	-5.503856	-4.166667	0.911912	0	
148	N151	-3.837189	4.333333	-1.97484	0	
149	N152	-3.837189	-4.666667	-1.97484	0	
150	N153	-1.399689	3.833333	-6.196714	0	
151	N154	-1.399689	-4.166667	-6.196714	0	
152	N155	-0.483023	4	-7.784427	0	
153	N156	-0.483023	-4	-7.784427	0	
154	N154A	6.979167	3	4.060523	0	
155	N155A	-6.979167	3	4.060523	0	



### Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
156	N156A	6.645833	3	4.060523	0	
157	N157	3.541667	3	4.060523	0	
158	N158	3.541667	3	4.310523	0	
159	N159	0.208333	3	4.060523	0	
160	N160	0.208333	3	4.310523	0	
161	N161	-4.666667	3	4.060523	0	
162	N162	-4.666667	3	4.310523	0	
163	N163	-6.5	3	4.060523	0	
164	N164	-6.5	3	4.310523	0	
165	N166	0.026933	3	-8.074397	0	
166	N167	7.0061	3	4.013874	0	
167	N168	0.1936	3	-7.785722	0	
168	N169	1.745683	3	-5.097435	0	
169	N170	1.962189	3	-5.222435	0	
170	N171	3.41235	3	-2.210684	0	
171	N172	3.628856	3	-2.335684	0	
172	N173	5.84985	3	2.01119	0	
173	N174	6.066356	3	1.88619	0	
174	N175	6.766516	3	3.598903	0	
175	N176	6.983023	3	3.473903	0	
176	N178	-7.0061	3	4.013874	0	
177	N179	-0.026933	3	-8.074397	0	
178	N180	-6.839433	3	3.725199	0	
179	N181	-5.28735	3	1.036912	0	
180	N182	-5.503856	3	0.911912	0	
181	N183	-3.620683	3	-1.84984	0	
182	N184	-3.837189	3	-1.97484	0	
183	N185	-1.183183	3	-6.071714	0	
184	N186	-1.399689	3	-6.196714	0	
185	N187	-0.266516	3	-7.659427	0	
186	N188	-0.483023	3	-7.784427	0	
187	N187A	-5.229167	3	4.060523	0	
188	N188A	5.229167	3	4.060523	0	
189	N190	6.645833	3	4.310523	0	
190	N192	0.410106	3	-7.910722	0	
191	N195	-7.055939	3	3.600199	0	
192	N192A	5.229167	3	3.748023	0	
193	N194	-5.229167	3	3.748023	0	
194	N195A	6.1311	3	2.49833	0	
195	N196	0.901933	3	-6.558853	0	
196	N197	0.6313	3	-6.402603	0	
197	N198	5.860467	3	2.65458	0	
198	N200	-0.901933	3	-6.558853	0	
199	N201	-6.1311	3	2.49833	0	
200	N202	-5.860467	3	2.65458	0	
201	N203	-0.6313	3	-6.402603	0	





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 Designer : AJH  
 Job Number : Project No. 10037788  
 Model Name : 467194-VZW\_MT\_LO\_H

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### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B ...	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2X6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossmem...	HSS4X4X4	Beam	SquareTube	A500 Gr.B ...	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Mod Support Rail	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
8	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
9	Mod Support Rail Co...	L3X3X4	Column	RECT	A36 Gr.36	Typical	1.44	1.23	1.23	.031
10	Dual Antenna Mount...	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
2	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
3	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
5	M35A	N7	N30			RIGID	None	None	RIGID	Typical
6	M36A	N6	N29			RIGID	None	None	RIGID	Typical
7	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
8	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
10	M58	N102	N24			RIGID	None	None	RIGID	Typical
11	M59	N24	N103A			RIGID	None	None	RIGID	Typical
12	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
13	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
14	M79	N131	N86A			RIGID	None	None	RIGID	Typical
15	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
16	M83	N135	N86D			RIGID	None	None	RIGID	Typical
17	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
18	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
19	M88	N144	N86B			RIGID	None	None	RIGID	Typical
20	M91	N86C	N148			Corner Plate	Beam	BAR	A36 Gr.36	Typical
21	M92	N148	N86E			RIGID	None	None	RIGID	Typical
22	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
23	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
24	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
25	M150A	N225A	N230A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
26	M151A	N234A	N236A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
27	M152A	N235A	N226A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
28	M153A	N245A	N246A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
29	M154A	N228A	N233A			RIGID	None	None	RIGID	Typical
30	M155A	N227A	N232A			RIGID	None	None	RIGID	Typical
31	M156A	N250A	N227A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
32	M157A	N228A	N252A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M158A	N252A	N253A			RIGID	None	None	RIGID	Typical
34	M159A	N235A	N229A			RIGID	None	None	RIGID	Typical
35	M160A	N229A	N236A			RIGID	None	None	RIGID	Typical
36	M161A	N234A	N238A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
37	M162A	N238A	N239A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
38	M163A	N239A	N243A			RIGID	None	None	RIGID	Typical
39	M164A	N246A	N240A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
40	M165A	N240A	N247A			RIGID	None	None	RIGID	Typical
41	M166A	N226A	N237A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
42	M167A	N237A	N241A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
43	M168A	N241A	N244A			RIGID	None	None	RIGID	Typical
44	M169A	N245A	N242A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
45	M170A	N242A	N248A			RIGID	None	None	RIGID	Typical
46	M171A	N253A	N249A			RIGID	None	None	RIGID	Typical
47	M172A	N249A	N251A			RIGID	None	None	RIGID	Typical
48	M173A	N250A	N251A			RIGID	None	None	RIGID	Typical
49	M174A	N254A	N259A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
50	M175A	N263A	N265A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
51	M176A	N264A	N255A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
52	M177A	N274A	N275A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
53	M178A	N257A	N262A			RIGID	None	None	RIGID	Typical
54	M179A	N256A	N261A			RIGID	None	None	RIGID	Typical
55	M180A	N279A	N256A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M181A	N257A	N281A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
57	M182A	N281A	N282A			RIGID	None	None	RIGID	Typical
58	M183A	N264A	N258A			RIGID	None	None	RIGID	Typical
59	M184A	N258A	N265A			RIGID	None	None	RIGID	Typical
60	M185A	N263A	N267A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
61	M186A	N267A	N268A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
62	M187A	N268A	N272A			RIGID	None	None	RIGID	Typical
63	M188A	N275A	N269A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
64	M189A	N269A	N276A			RIGID	None	None	RIGID	Typical
65	M190A	N255A	N266A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
66	M191A	N266A	N270A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
67	M192A	N270A	N273A			RIGID	None	None	RIGID	Typical
68	M193A	N274A	N271A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
69	M194A	N271A	N277A			RIGID	None	None	RIGID	Typical
70	M195A	N282A	N278A			RIGID	None	None	RIGID	Typical
71	M196A	N278A	N280A			RIGID	None	None	RIGID	Typical
72	M197A	N279A	N280A			RIGID	None	None	RIGID	Typical
73	M199A	N286A	N287A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
74	M199B	N287B	N288A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
75	M200A	N290B	N291A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
76	M76A	N95	N96			RIGID	None	None	RIGID	Typical
77	MP1A	N97	N98			Mount Pipe	Column	Pipe	A53 Gr.B	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
78	M78	N99	N100			RIGID	None	None	RIGID	Typical
79	M79A	N101A	N102A			RIGID	None	None	RIGID	Typical
80	M80A	N103	N104			RIGID	None	None	RIGID	Typical
81	M81	N105A	N106			RIGID	None	None	RIGID	Typical
82	MP2A	N107	N108			Dual Antenna ...	Column	Pipe	A53 Gr.B	Typical
83	MP3A	N109	N110			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	MP4A	N111	N112			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
85	MP5A	N113	N114			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
86	M86	N116	N117			RIGID	None	None	RIGID	Typical
87	MP1C	N118	N119			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
88	M88A	N120	N121			RIGID	None	None	RIGID	Typical
89	M89	N122	N123			RIGID	None	None	RIGID	Typical
90	M90	N124	N125			RIGID	None	None	RIGID	Typical
91	M91A	N126	N127			RIGID	None	None	RIGID	Typical
92	MP2C	N128	N129			Dual Antenna ...	Column	Pipe	A53 Gr.B	Typical
93	MP3C	N130	N131A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	MP4C	N132	N133			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
95	MP5C	N134	N135A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
96	M96	N137	N138			RIGID	None	None	RIGID	Typical
97	MP1B	N139	N140			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	M98	N141	N142			RIGID	None	None	RIGID	Typical
99	M99	N143	N144A			RIGID	None	None	RIGID	Typical
100	M100	N145	N146			RIGID	None	None	RIGID	Typical
101	M101	N147	N148A			RIGID	None	None	RIGID	Typical
102	MP2B	N149	N150			Dual Antenna ...	Column	Pipe	A53 Gr.B	Typical
103	MP3B	N151	N152			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
104	MP4B	N153	N154			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
105	MP5B	N155	N156			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
106	M106	N154A	N155A			Mod Support ...	Column	Pipe	A53 Gr.B	Typical
107	M107	N157	N158			RIGID	None	None	RIGID	Typical
108	M108	N159	N160			RIGID	None	None	RIGID	Typical
109	M109	N161	N162			RIGID	None	None	RIGID	Typical
110	M110	N163	N164			RIGID	None	None	RIGID	Typical
111	M111	N166	N167			Mod Support ...	Column	Pipe	A53 Gr.B	Typical
112	M112	N169	N170			RIGID	None	None	RIGID	Typical
113	M113	N171	N172			RIGID	None	None	RIGID	Typical
114	M114	N173	N174			RIGID	None	None	RIGID	Typical
115	M115	N175	N176			RIGID	None	None	RIGID	Typical
116	M116	N178	N179			Mod Support ...	Column	Pipe	A53 Gr.B	Typical
117	M117	N181	N182			RIGID	None	None	RIGID	Typical
118	M118	N183	N184			RIGID	None	None	RIGID	Typical
119	M119	N185	N186			RIGID	None	None	RIGID	Typical
120	M120	N187	N188			RIGID	None	None	RIGID	Typical
121	M121	N156A	N190			RIGID	None	None	RIGID	Typical
122	M122	N168	N192			RIGID	None	None	RIGID	Typical
123	M123	N180	N195			RIGID	None	None	RIGID	Typical
124	M124	N192A	N188A			RIGID	None	None	RIGID	Typical
125	M125	N194	N187A			RIGID	None	None	RIGID	Typical
126	M126	N197	N196			RIGID	None	None	RIGID	Typical
127	M127	N198	N195A			RIGID	None	None	RIGID	Typical
128	M128	N202	N201			RIGID	None	None	RIGID	Typical
129	M129	N203	N200			RIGID	None	None	RIGID	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
130	M130	N194	N202		90	Mod Support ...	Column	RECT	A36 Gr.36	Typical
131	M131	N198	N192A		90	Mod Support ...	Column	RECT	A36 Gr.36	Typical
132	M132	N203	N197		90	Mod Support ...	Column	RECT	A36 Gr.36	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M4						Yes				None
2	M10						Yes	Default			None
3	M43						Yes	Default			None
4	M46						Yes	Default			None
5	M35A						Yes	** NA **			None
6	M36A						Yes	** NA **			None
7	M51B	OOOOOX	OOOOOX				Yes	Default			None
8	M52B	OOOOOX	OOOOOX				Yes	Default			None
9	M52						Yes	** NA **			None
10	M58						Yes	** NA **			None
11	M59						Yes	** NA **			None
12	M76						Yes	** NA **			None
13	M77						Yes	** NA **			None
14	M79		BenPIN				Yes	** NA **			None
15	M80						Yes				None
16	M83		BenPIN				Yes	** NA **			None
17	M84						Yes	** NA **			None
18	M85						Yes	** NA **			None
19	M88		BenPIN				Yes	** NA **			None
20	M91						Yes				None
21	M92		BenPIN				Yes	** NA **			None
22	M50						Yes	** NA **			None
23	M51						Yes	** NA **			None
24	M51A						Yes	** NA **			None
25	M150A						Yes				None
26	M151A						Yes	Default			None
27	M152A						Yes	Default			None
28	M153A						Yes	Default			None
29	M154A						Yes	** NA **			None
30	M155A						Yes	** NA **			None
31	M156A	OOOOOX	OOOOOX				Yes	Default			None
32	M157A	OOOOOX	OOOOOX				Yes	Default			None
33	M158A						Yes	** NA **			None
34	M159A						Yes	** NA **			None
35	M160A						Yes	** NA **			None
36	M161A						Yes	** NA **			None
37	M162A						Yes	** NA **			None
38	M163A		BenPIN				Yes	** NA **			None
39	M164A						Yes				None
40	M165A		BenPIN				Yes	** NA **			None
41	M166A						Yes	** NA **			None
42	M167A						Yes	** NA **			None
43	M168A		BenPIN				Yes	** NA **			None
44	M169A						Yes				None





**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
45	M170A		BenPIN				Yes	** NA **			None
46	M171A						Yes	** NA **			None
47	M172A						Yes	** NA **			None
48	M173A						Yes	** NA **			None
49	M174A						Yes				None
50	M175A						Yes	Default			None
51	M176A						Yes	Default			None
52	M177A						Yes	Default			None
53	M178A						Yes	** NA **			None
54	M179A						Yes	** NA **			None
55	M180A	OOOOOX	OOOOOX				Yes	Default			None
56	M181A	OOOOOX	OOOOOX				Yes	Default			None
57	M182A						Yes	** NA **			None
58	M183A						Yes	** NA **			None
59	M184A						Yes	** NA **			None
60	M185A						Yes	** NA **			None
61	M186A						Yes	** NA **			None
62	M187A		BenPIN				Yes	** NA **			None
63	M188A						Yes				None
64	M189A		BenPIN				Yes	** NA **			None
65	M190A						Yes	** NA **			None
66	M191A						Yes	** NA **			None
67	M192A		BenPIN				Yes	** NA **			None
68	M193A						Yes				None
69	M194A		BenPIN				Yes	** NA **			None
70	M195A						Yes	** NA **			None
71	M196A						Yes	** NA **			None
72	M197A						Yes	** NA **			None
73	M199A						Yes	Default			None
74	M199B						Yes	Default			None
75	M200A						Yes	Default			None
76	M76A						Yes	** NA **			None
77	MP1A						Yes	** NA **			None
78	M78						Yes	** NA **			None
79	M79A						Yes	** NA **			None
80	M80A						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	MP2A						Yes	** NA **			None
83	MP3A						Yes	** NA **			None
84	MP4A						Yes	** NA **			None
85	MP5A						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	MP1C						Yes	** NA **			None
88	M88A						Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90						Yes	** NA **			None
91	M91A						Yes	** NA **			None
92	MP2C						Yes	** NA **			None
93	MP3C						Yes	** NA **			None
94	MP4C						Yes	** NA **			None
95	MP5C						Yes	** NA **			None
96	M96						Yes	** NA **			None





**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
97	MP1B						Yes	** NA **			None
98	M98						Yes	** NA **			None
99	M99						Yes	** NA **			None
100	M100						Yes	** NA **			None
101	M101						Yes	** NA **			None
102	MP2B						Yes	** NA **			None
103	MP3B						Yes	** NA **			None
104	MP4B						Yes	** NA **			None
105	MP5B						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						Yes	** NA **			None
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None
114	M114						Yes	** NA **			None
115	M115						Yes	** NA **			None
116	M116						Yes	** NA **			None
117	M117						Yes	** NA **			None
118	M118						Yes	** NA **			None
119	M119						Yes	** NA **			None
120	M120						Yes	** NA **			None
121	M121						Yes	** NA **			None
122	M122						Yes	** NA **			None
123	M123						Yes	** NA **			None
124	M124		000000				Yes	** NA **			None
125	M125		000000				Yes	** NA **			None
126	M126		000000				Yes	** NA **			None
127	M127		000000				Yes	** NA **			None
128	M128		000000				Yes	** NA **			None
129	M129		000000				Yes	** NA **			None
130	M130						Yes	** NA **			None
131	M131						Yes	** NA **			None
132	M132						Yes	** NA **			None

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-43.55	1.75
2	MP3A	My	-.022	1.75
3	MP3A	Mz	0	1.75
4	MP3A	Y	-43.55	3.75
5	MP3A	My	-.022	3.75
6	MP3A	Mz	0	3.75
7	MP3B	Y	-43.55	1.75
8	MP3B	My	.011	1.75
9	MP3B	Mz	-.019	1.75
10	MP3B	Y	-43.55	3.75
11	MP3B	My	.011	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP3B	Mz	-.019	3.75
13	MP3C	Y	-43.55	1.75
14	MP3C	My	.011	1.75
15	MP3C	Mz	.019	1.75
16	MP3C	Y	-43.55	3.75
17	MP3C	My	.011	3.75
18	MP3C	Mz	.019	3.75
19	MP2A	Y	-84.4	2.5
20	MP2A	My	.042	2.5
21	MP2A	Mz	0	2.5
22	MP2B	Y	-84.4	2.5
23	MP2B	My	-.021	2.5
24	MP2B	Mz	.037	2.5
25	MP2C	Y	-84.4	2.5
26	MP2C	My	-.021	2.5
27	MP2C	Mz	-.037	2.5
28	MP1A	Y	-70.3	2.5
29	MP1A	My	.035	2.5
30	MP1A	Mz	0	2.5
31	MP1B	Y	-70.3	2.5
32	MP1B	My	-.018	2.5
33	MP1B	Mz	.03	2.5
34	MP1C	Y	-70.3	2.5
35	MP1C	My	-.018	2.5
36	MP1C	Mz	-.03	2.5
37	MP2A	Y	-20	.75
38	MP2A	My	-.01	.75
39	MP2A	Mz	-.012	.75
40	MP2A	Y	-20	4.75
41	MP2A	My	-.01	4.75
42	MP2A	Mz	-.012	4.75
43	MP2B	Y	-20	.75
44	MP2B	My	.015	.75
45	MP2B	Mz	-.003	.75
46	MP2B	Y	-20	4.75
47	MP2B	My	.015	4.75
48	MP2B	Mz	-.003	4.75
49	MP2C	Y	-20	.75
50	MP2C	My	-.005	.75
51	MP2C	Mz	.014	.75
52	MP2C	Y	-20	4.75
53	MP2C	My	-.005	4.75
54	MP2C	Mz	.014	4.75
55	MP2A	Y	-20	.75
56	MP2A	My	-.01	.75
57	MP2A	Mz	.012	.75
58	MP2A	Y	-20	4.75
59	MP2A	My	-.01	4.75
60	MP2A	Mz	.012	4.75
61	MP2B	Y	-20	.75
62	MP2B	My	-.005	.75
63	MP2B	Mz	-.014	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP2B	Y	-20	4.75
65	MP2B	My	-.005	4.75
66	MP2B	Mz	-.014	4.75
67	MP2C	Y	-20	.75
68	MP2C	My	.015	.75
69	MP2C	Mz	.003	.75
70	MP2C	Y	-20	4.75
71	MP2C	My	.015	4.75
72	MP2C	Mz	.003	4.75
73	MP1A	Y	-13.5	.75
74	MP1A	My	-.007	.75
75	MP1A	Mz	0	.75
76	MP1A	Y	-13.5	4.75
77	MP1A	My	-.007	4.75
78	MP1A	Mz	0	4.75
79	MP1B	Y	-13.5	.75
80	MP1B	My	.003	.75
81	MP1B	Mz	-.006	.75
82	MP1B	Y	-13.5	4.75
83	MP1B	My	.003	4.75
84	MP1B	Mz	-.006	4.75
85	MP5A	Y	-13.5	.75
86	MP5A	My	-.007	.75
87	MP5A	Mz	0	.75
88	MP5A	Y	-13.5	4.75
89	MP5A	My	-.007	4.75
90	MP5A	Mz	0	4.75
91	MP5B	Y	-13.5	.75
92	MP5B	My	.003	.75
93	MP5B	Mz	-.006	.75
94	MP5B	Y	-13.5	4.75
95	MP5B	My	.003	4.75
96	MP5B	Mz	-.006	4.75
97	MP1C	Y	-13.5	.75
98	MP1C	My	.003	.75
99	MP1C	Mz	.006	.75
100	MP1C	Y	-13.5	4.75
101	MP1C	My	.003	4.75
102	MP1C	Mz	.006	4.75
103	MP5C	Y	-13.5	.75
104	MP5C	My	.003	.75
105	MP5C	Mz	.006	.75
106	MP5C	Y	-13.5	4.75
107	MP5C	My	.003	4.75
108	MP5C	Mz	.006	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-35.098	1.75
2	MP3A	My	-.018	1.75
3	MP3A	Mz	0	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP3A	Y	-35.098	3.75
5	MP3A	My	-.018	3.75
6	MP3A	Mz	0	3.75
7	MP3B	Y	-35.098	1.75
8	MP3B	My	.009	1.75
9	MP3B	Mz	-.015	1.75
10	MP3B	Y	-35.098	3.75
11	MP3B	My	.009	3.75
12	MP3B	Mz	-.015	3.75
13	MP3C	Y	-35.098	1.75
14	MP3C	My	.009	1.75
15	MP3C	Mz	.015	1.75
16	MP3C	Y	-35.098	3.75
17	MP3C	My	.009	3.75
18	MP3C	Mz	.015	3.75
19	MP2A	Y	-44.241	2.5
20	MP2A	My	.022	2.5
21	MP2A	Mz	0	2.5
22	MP2B	Y	-44.241	2.5
23	MP2B	My	-.011	2.5
24	MP2B	Mz	.019	2.5
25	MP2C	Y	-44.241	2.5
26	MP2C	My	-.011	2.5
27	MP2C	Mz	-.019	2.5
28	MP1A	Y	-39.782	2.5
29	MP1A	My	.02	2.5
30	MP1A	Mz	0	2.5
31	MP1B	Y	-39.782	2.5
32	MP1B	My	-.01	2.5
33	MP1B	Mz	.017	2.5
34	MP1C	Y	-39.782	2.5
35	MP1C	My	-.01	2.5
36	MP1C	Mz	-.017	2.5
37	MP2A	Y	-60.184	.75
38	MP2A	My	-.03	.75
39	MP2A	Mz	-.035	.75
40	MP2A	Y	-60.184	4.75
41	MP2A	My	-.03	4.75
42	MP2A	Mz	-.035	4.75
43	MP2B	Y	-60.184	.75
44	MP2B	My	.045	.75
45	MP2B	Mz	-.009	.75
46	MP2B	Y	-60.184	4.75
47	MP2B	My	.045	4.75
48	MP2B	Mz	-.009	4.75
49	MP2C	Y	-60.184	.75
50	MP2C	My	-.015	.75
51	MP2C	Mz	.044	.75
52	MP2C	Y	-60.184	4.75
53	MP2C	My	-.015	4.75
54	MP2C	Mz	.044	4.75
55	MP2A	Y	-60.184	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
56	MP2A	My	-.03	.75
57	MP2A	Mz	.035	.75
58	MP2A	Y	-60.184	4.75
59	MP2A	My	-.03	4.75
60	MP2A	Mz	.035	4.75
61	MP2B	Y	-60.184	.75
62	MP2B	My	-.015	.75
63	MP2B	Mz	-.044	.75
64	MP2B	Y	-60.184	4.75
65	MP2B	My	-.015	4.75
66	MP2B	Mz	-.044	4.75
67	MP2C	Y	-60.184	.75
68	MP2C	My	.045	.75
69	MP2C	Mz	.009	.75
70	MP2C	Y	-60.184	4.75
71	MP2C	My	.045	4.75
72	MP2C	Mz	.009	4.75
73	MP1A	Y	-87.43	.75
74	MP1A	My	-.044	.75
75	MP1A	Mz	0	.75
76	MP1A	Y	-87.43	4.75
77	MP1A	My	-.044	4.75
78	MP1A	Mz	0	4.75
79	MP1B	Y	-87.43	.75
80	MP1B	My	.022	.75
81	MP1B	Mz	-.038	.75
82	MP1B	Y	-87.43	4.75
83	MP1B	My	.022	4.75
84	MP1B	Mz	-.038	4.75
85	MP5A	Y	-87.43	.75
86	MP5A	My	-.044	.75
87	MP5A	Mz	0	.75
88	MP5A	Y	-87.43	4.75
89	MP5A	My	-.044	4.75
90	MP5A	Mz	0	4.75
91	MP5B	Y	-87.43	.75
92	MP5B	My	.022	.75
93	MP5B	Mz	-.038	.75
94	MP5B	Y	-87.43	4.75
95	MP5B	My	.022	4.75
96	MP5B	Mz	-.038	4.75
97	MP1C	Y	-87.43	.75
98	MP1C	My	.022	.75
99	MP1C	Mz	.038	.75
100	MP1C	Y	-87.43	4.75
101	MP1C	My	.022	4.75
102	MP1C	Mz	.038	4.75
103	MP5C	Y	-87.43	.75
104	MP5C	My	.022	.75
105	MP5C	Mz	.038	.75
106	MP5C	Y	-87.43	4.75
107	MP5C	My	.022	4.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
108	MP5C	Mz	.038	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.75
2	MP3A	Z	-86.16	1.75
3	MP3A	Mx	0	1.75
4	MP3A	X	0	3.75
5	MP3A	Z	-86.16	3.75
6	MP3A	Mx	0	3.75
7	MP3B	X	0	1.75
8	MP3B	Z	-46.838	1.75
9	MP3B	Mx	.02	1.75
10	MP3B	X	0	3.75
11	MP3B	Z	-46.838	3.75
12	MP3B	Mx	.02	3.75
13	MP3C	X	0	1.75
14	MP3C	Z	-46.838	1.75
15	MP3C	Mx	-.02	1.75
16	MP3C	X	0	3.75
17	MP3C	Z	-46.838	3.75
18	MP3C	Mx	-.02	3.75
19	MP2A	X	0	2.5
20	MP2A	Z	-68.561	2.5
21	MP2A	Mx	0	2.5
22	MP2B	X	0	2.5
23	MP2B	Z	-51.513	2.5
24	MP2B	Mx	-.022	2.5
25	MP2C	X	0	2.5
26	MP2C	Z	-51.513	2.5
27	MP2C	Mx	.022	2.5
28	MP1A	X	0	2.5
29	MP1A	Z	-68.561	2.5
30	MP1A	Mx	0	2.5
31	MP1B	X	0	2.5
32	MP1B	Z	-44.982	2.5
33	MP1B	Mx	-.019	2.5
34	MP1C	X	0	2.5
35	MP1C	Z	-44.982	2.5
36	MP1C	Mx	.019	2.5
37	MP2A	X	0	.75
38	MP2A	Z	-149.588	.75
39	MP2A	Mx	.087	.75
40	MP2A	X	0	4.75
41	MP2A	Z	-149.588	4.75
42	MP2A	Mx	.087	4.75
43	MP2B	X	0	.75
44	MP2B	Z	-111.59	.75
45	MP2B	Mx	.016	.75
46	MP2B	X	0	4.75
47	MP2B	Z	-111.59	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	.016	4.75
49	MP2C	X	0	.75
50	MP2C	Z	-111.59	.75
51	MP2C	Mx	-.081	.75
52	MP2C	X	0	4.75
53	MP2C	Z	-111.59	4.75
54	MP2C	Mx	-.081	4.75
55	MP2A	X	0	.75
56	MP2A	Z	-149.588	.75
57	MP2A	Mx	-.087	.75
58	MP2A	X	0	4.75
59	MP2A	Z	-149.588	4.75
60	MP2A	Mx	-.087	4.75
61	MP2B	X	0	.75
62	MP2B	Z	-111.59	.75
63	MP2B	Mx	.081	.75
64	MP2B	X	0	4.75
65	MP2B	Z	-111.59	4.75
66	MP2B	Mx	.081	4.75
67	MP2C	X	0	.75
68	MP2C	Z	-111.59	.75
69	MP2C	Mx	-.016	.75
70	MP2C	X	0	4.75
71	MP2C	Z	-111.59	4.75
72	MP2C	Mx	-.016	4.75
73	MP1A	X	0	.75
74	MP1A	Z	-175.986	.75
75	MP1A	Mx	0	.75
76	MP1A	X	0	4.75
77	MP1A	Z	-175.986	4.75
78	MP1A	Mx	0	4.75
79	MP1B	X	0	.75
80	MP1B	Z	-161.89	.75
81	MP1B	Mx	.07	.75
82	MP1B	X	0	4.75
83	MP1B	Z	-161.89	4.75
84	MP1B	Mx	.07	4.75
85	MP5A	X	0	.75
86	MP5A	Z	-175.986	.75
87	MP5A	Mx	0	.75
88	MP5A	X	0	4.75
89	MP5A	Z	-175.986	4.75
90	MP5A	Mx	0	4.75
91	MP5B	X	0	.75
92	MP5B	Z	-161.89	.75
93	MP5B	Mx	.07	.75
94	MP5B	X	0	4.75
95	MP5B	Z	-161.89	4.75
96	MP5B	Mx	.07	4.75
97	MP1C	X	0	.75
98	MP1C	Z	-161.89	.75
99	MP1C	Mx	-.07	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
100	MP1C	X	0	4.75
101	MP1C	Z	-161.89	4.75
102	MP1C	Mx	-.07	4.75
103	MP5C	X	0	.75
104	MP5C	Z	-161.89	.75
105	MP5C	Mx	-.07	.75
106	MP5C	X	0	4.75
107	MP5C	Z	-161.89	4.75
108	MP5C	Mx	-.07	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	36.526	1.75
2	MP3A	Z	-63.265	1.75
3	MP3A	Mx	-.018	1.75
4	MP3A	X	36.526	3.75
5	MP3A	Z	-63.265	3.75
6	MP3A	Mx	-.018	3.75
7	MP3B	X	16.866	1.75
8	MP3B	Z	-29.212	1.75
9	MP3B	Mx	.017	1.75
10	MP3B	X	16.866	3.75
11	MP3B	Z	-29.212	3.75
12	MP3B	Mx	.017	3.75
13	MP3C	X	36.526	1.75
14	MP3C	Z	-63.265	1.75
15	MP3C	Mx	-.018	1.75
16	MP3C	X	36.526	3.75
17	MP3C	Z	-63.265	3.75
18	MP3C	Mx	-.018	3.75
19	MP2A	X	31.439	2.5
20	MP2A	Z	-54.454	2.5
21	MP2A	Mx	.016	2.5
22	MP2B	X	22.915	2.5
23	MP2B	Z	-39.69	2.5
24	MP2B	Mx	-.023	2.5
25	MP2C	X	31.439	2.5
26	MP2C	Z	-54.454	2.5
27	MP2C	Mx	.016	2.5
28	MP1A	X	30.351	2.5
29	MP1A	Z	-52.569	2.5
30	MP1A	Mx	.015	2.5
31	MP1B	X	18.561	2.5
32	MP1B	Z	-32.149	2.5
33	MP1B	Mx	-.019	2.5
34	MP1C	X	30.351	2.5
35	MP1C	Z	-52.569	2.5
36	MP1C	Mx	.015	2.5
37	MP2A	X	68.461	.75
38	MP2A	Z	-118.578	.75
39	MP2A	Mx	.035	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP2A	X	68.461	4.75
41	MP2A	Z	-118.578	4.75
42	MP2A	Mx	.035	4.75
43	MP2B	X	49.462	.75
44	MP2B	Z	-85.67	.75
45	MP2B	Mx	.049	.75
46	MP2B	X	49.462	4.75
47	MP2B	Z	-85.67	4.75
48	MP2B	Mx	.049	4.75
49	MP2C	X	68.461	.75
50	MP2C	Z	-118.578	.75
51	MP2C	Mx	-.103	.75
52	MP2C	X	68.461	4.75
53	MP2C	Z	-118.578	4.75
54	MP2C	Mx	-.103	4.75
55	MP2A	X	68.461	.75
56	MP2A	Z	-118.578	.75
57	MP2A	Mx	-.103	.75
58	MP2A	X	68.461	4.75
59	MP2A	Z	-118.578	4.75
60	MP2A	Mx	-.103	4.75
61	MP2B	X	49.462	.75
62	MP2B	Z	-85.67	.75
63	MP2B	Mx	.049	.75
64	MP2B	X	49.462	4.75
65	MP2B	Z	-85.67	4.75
66	MP2B	Mx	.049	4.75
67	MP2C	X	68.461	.75
68	MP2C	Z	-118.578	.75
69	MP2C	Mx	.035	.75
70	MP2C	X	68.461	4.75
71	MP2C	Z	-118.578	4.75
72	MP2C	Mx	.035	4.75
73	MP1A	X	85.644	.75
74	MP1A	Z	-148.339	.75
75	MP1A	Mx	-.043	.75
76	MP1A	X	85.644	4.75
77	MP1A	Z	-148.339	4.75
78	MP1A	Mx	-.043	4.75
79	MP1B	X	78.596	.75
80	MP1B	Z	-136.131	.75
81	MP1B	Mx	.079	.75
82	MP1B	X	78.596	4.75
83	MP1B	Z	-136.131	4.75
84	MP1B	Mx	.079	4.75
85	MP5A	X	85.644	.75
86	MP5A	Z	-148.339	.75
87	MP5A	Mx	-.043	.75
88	MP5A	X	85.644	4.75
89	MP5A	Z	-148.339	4.75
90	MP5A	Mx	-.043	4.75
91	MP5B	X	78.596	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP5B	Z	-136.131	.75
93	MP5B	Mx	.079	.75
94	MP5B	X	78.596	4.75
95	MP5B	Z	-136.131	4.75
96	MP5B	Mx	.079	4.75
97	MP1C	X	85.644	.75
98	MP1C	Z	-148.339	.75
99	MP1C	Mx	-.043	.75
100	MP1C	X	85.644	4.75
101	MP1C	Z	-148.339	4.75
102	MP1C	Mx	-.043	4.75
103	MP5C	X	85.644	.75
104	MP5C	Z	-148.339	.75
105	MP5C	Mx	-.043	.75
106	MP5C	X	85.644	4.75
107	MP5C	Z	-148.339	4.75
108	MP5C	Mx	-.043	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	40.563	1.75
2	MP3A	Z	-23.419	1.75
3	MP3A	Mx	-.02	1.75
4	MP3A	X	40.563	3.75
5	MP3A	Z	-23.419	3.75
6	MP3A	Mx	-.02	3.75
7	MP3B	X	40.563	1.75
8	MP3B	Z	-23.419	1.75
9	MP3B	Mx	.02	1.75
10	MP3B	X	40.563	3.75
11	MP3B	Z	-23.419	3.75
12	MP3B	Mx	.02	3.75
13	MP3C	X	74.617	1.75
14	MP3C	Z	-43.08	1.75
15	MP3C	Mx	0	1.75
16	MP3C	X	74.617	3.75
17	MP3C	Z	-43.08	3.75
18	MP3C	Mx	0	3.75
19	MP2A	X	44.611	2.5
20	MP2A	Z	-25.756	2.5
21	MP2A	Mx	.022	2.5
22	MP2B	X	44.611	2.5
23	MP2B	Z	-25.756	2.5
24	MP2B	Mx	-.022	2.5
25	MP2C	X	59.376	2.5
26	MP2C	Z	-34.281	2.5
27	MP2C	Mx	0	2.5
28	MP1A	X	38.955	2.5
29	MP1A	Z	-22.491	2.5
30	MP1A	Mx	.019	2.5
31	MP1B	X	38.955	2.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP1B	Z	-22.491	2.5
33	MP1B	Mx	-.019	2.5
34	MP1C	X	59.376	2.5
35	MP1C	Z	-34.281	2.5
36	MP1C	Mx	0	2.5
37	MP2A	X	96.64	.75
38	MP2A	Z	-55.795	.75
39	MP2A	Mx	-.016	.75
40	MP2A	X	96.64	4.75
41	MP2A	Z	-55.795	4.75
42	MP2A	Mx	-.016	4.75
43	MP2B	X	96.64	.75
44	MP2B	Z	-55.795	.75
45	MP2B	Mx	.081	.75
46	MP2B	X	96.64	4.75
47	MP2B	Z	-55.795	4.75
48	MP2B	Mx	.081	4.75
49	MP2C	X	129.547	.75
50	MP2C	Z	-74.794	.75
51	MP2C	Mx	-.087	.75
52	MP2C	X	129.547	4.75
53	MP2C	Z	-74.794	4.75
54	MP2C	Mx	-.087	4.75
55	MP2A	X	96.64	.75
56	MP2A	Z	-55.795	.75
57	MP2A	Mx	-.081	.75
58	MP2A	X	96.64	4.75
59	MP2A	Z	-55.795	4.75
60	MP2A	Mx	-.081	4.75
61	MP2B	X	96.64	.75
62	MP2B	Z	-55.795	.75
63	MP2B	Mx	.016	.75
64	MP2B	X	96.64	4.75
65	MP2B	Z	-55.795	4.75
66	MP2B	Mx	.016	4.75
67	MP2C	X	129.547	.75
68	MP2C	Z	-74.794	.75
69	MP2C	Mx	.087	.75
70	MP2C	X	129.547	4.75
71	MP2C	Z	-74.794	4.75
72	MP2C	Mx	.087	4.75
73	MP1A	X	140.201	.75
74	MP1A	Z	-80.945	.75
75	MP1A	Mx	-.07	.75
76	MP1A	X	140.201	4.75
77	MP1A	Z	-80.945	4.75
78	MP1A	Mx	-.07	4.75
79	MP1B	X	140.201	.75
80	MP1B	Z	-80.945	.75
81	MP1B	Mx	.07	.75
82	MP1B	X	140.201	4.75
83	MP1B	Z	-80.945	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP1B	Mx	.07	4.75
85	MP5A	X	140.201	.75
86	MP5A	Z	-80.945	.75
87	MP5A	Mx	-.07	.75
88	MP5A	X	140.201	4.75
89	MP5A	Z	-80.945	4.75
90	MP5A	Mx	-.07	4.75
91	MP5B	X	140.201	.75
92	MP5B	Z	-80.945	.75
93	MP5B	Mx	.07	.75
94	MP5B	X	140.201	4.75
95	MP5B	Z	-80.945	4.75
96	MP5B	Mx	.07	4.75
97	MP1C	X	152.408	.75
98	MP1C	Z	-87.993	.75
99	MP1C	Mx	0	.75
100	MP1C	X	152.408	4.75
101	MP1C	Z	-87.993	4.75
102	MP1C	Mx	0	4.75
103	MP5C	X	152.408	.75
104	MP5C	Z	-87.993	.75
105	MP5C	Mx	0	.75
106	MP5C	X	152.408	4.75
107	MP5C	Z	-87.993	4.75
108	MP5C	Mx	0	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	33.731	1.75
2	MP3A	Z	0	1.75
3	MP3A	Mx	-.017	1.75
4	MP3A	X	33.731	3.75
5	MP3A	Z	0	3.75
6	MP3A	Mx	-.017	3.75
7	MP3B	X	73.053	1.75
8	MP3B	Z	0	1.75
9	MP3B	Mx	.018	1.75
10	MP3B	X	73.053	3.75
11	MP3B	Z	0	3.75
12	MP3B	Mx	.018	3.75
13	MP3C	X	73.053	1.75
14	MP3C	Z	0	1.75
15	MP3C	Mx	.018	1.75
16	MP3C	X	73.053	3.75
17	MP3C	Z	0	3.75
18	MP3C	Mx	.018	3.75
19	MP2A	X	45.83	2.5
20	MP2A	Z	0	2.5
21	MP2A	Mx	.023	2.5
22	MP2B	X	62.878	2.5
23	MP2B	Z	0	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP2B	Mx	-.016	2.5
25	MP2C	X	62.878	2.5
26	MP2C	Z	0	2.5
27	MP2C	Mx	-.016	2.5
28	MP1A	X	37.122	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	.019	2.5
31	MP1B	X	60.701	2.5
32	MP1B	Z	0	2.5
33	MP1B	Mx	-.015	2.5
34	MP1C	X	60.701	2.5
35	MP1C	Z	0	2.5
36	MP1C	Mx	-.015	2.5
37	MP2A	X	98.924	.75
38	MP2A	Z	0	.75
39	MP2A	Mx	-.049	.75
40	MP2A	X	98.924	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	-.049	4.75
43	MP2B	X	136.922	.75
44	MP2B	Z	0	.75
45	MP2B	Mx	.103	.75
46	MP2B	X	136.922	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.103	4.75
49	MP2C	X	136.922	.75
50	MP2C	Z	0	.75
51	MP2C	Mx	-.035	.75
52	MP2C	X	136.922	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.035	4.75
55	MP2A	X	98.924	.75
56	MP2A	Z	0	.75
57	MP2A	Mx	-.049	.75
58	MP2A	X	98.924	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	-.049	4.75
61	MP2B	X	136.922	.75
62	MP2B	Z	0	.75
63	MP2B	Mx	-.035	.75
64	MP2B	X	136.922	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	-.035	4.75
67	MP2C	X	136.922	.75
68	MP2C	Z	0	.75
69	MP2C	Mx	.103	.75
70	MP2C	X	136.922	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	.103	4.75
73	MP1A	X	157.191	.75
74	MP1A	Z	0	.75
75	MP1A	Mx	-.079	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP1A	X	157.191	4.75
77	MP1A	Z	0	4.75
78	MP1A	Mx	-.079	4.75
79	MP1B	X	171.287	.75
80	MP1B	Z	0	.75
81	MP1B	Mx	.043	.75
82	MP1B	X	171.287	4.75
83	MP1B	Z	0	4.75
84	MP1B	Mx	.043	4.75
85	MP5A	X	157.191	.75
86	MP5A	Z	0	.75
87	MP5A	Mx	-.079	.75
88	MP5A	X	157.191	4.75
89	MP5A	Z	0	4.75
90	MP5A	Mx	-.079	4.75
91	MP5B	X	171.287	.75
92	MP5B	Z	0	.75
93	MP5B	Mx	.043	.75
94	MP5B	X	171.287	4.75
95	MP5B	Z	0	4.75
96	MP5B	Mx	.043	4.75
97	MP1C	X	171.287	.75
98	MP1C	Z	0	.75
99	MP1C	Mx	.043	.75
100	MP1C	X	171.287	4.75
101	MP1C	Z	0	4.75
102	MP1C	Mx	.043	4.75
103	MP5C	X	171.287	.75
104	MP5C	Z	0	.75
105	MP5C	Mx	.043	.75
106	MP5C	X	171.287	4.75
107	MP5C	Z	0	4.75
108	MP5C	Mx	.043	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	40.563	1.75
2	MP3A	Z	23.419	1.75
3	MP3A	Mx	-.02	1.75
4	MP3A	X	40.563	3.75
5	MP3A	Z	23.419	3.75
6	MP3A	Mx	-.02	3.75
7	MP3B	X	74.617	1.75
8	MP3B	Z	43.08	1.75
9	MP3B	Mx	0	1.75
10	MP3B	X	74.617	3.75
11	MP3B	Z	43.08	3.75
12	MP3B	Mx	0	3.75
13	MP3C	X	40.563	1.75
14	MP3C	Z	23.419	1.75
15	MP3C	Mx	.02	1.75



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 Job Number : Project No. 10037788  
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**Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP3C	X	40.563	3.75
17	MP3C	Z	23.419	3.75
18	MP3C	Mx	.02	3.75
19	MP2A	X	44.611	2.5
20	MP2A	Z	25.756	2.5
21	MP2A	Mx	.022	2.5
22	MP2B	X	59.376	2.5
23	MP2B	Z	34.281	2.5
24	MP2B	Mx	0	2.5
25	MP2C	X	44.611	2.5
26	MP2C	Z	25.756	2.5
27	MP2C	Mx	-.022	2.5
28	MP1A	X	38.955	2.5
29	MP1A	Z	22.491	2.5
30	MP1A	Mx	.019	2.5
31	MP1B	X	59.376	2.5
32	MP1B	Z	34.281	2.5
33	MP1B	Mx	0	2.5
34	MP1C	X	38.955	2.5
35	MP1C	Z	22.491	2.5
36	MP1C	Mx	-.019	2.5
37	MP2A	X	96.64	.75
38	MP2A	Z	55.795	.75
39	MP2A	Mx	-.081	.75
40	MP2A	X	96.64	4.75
41	MP2A	Z	55.795	4.75
42	MP2A	Mx	-.081	4.75
43	MP2B	X	129.547	.75
44	MP2B	Z	74.794	.75
45	MP2B	Mx	.087	.75
46	MP2B	X	129.547	4.75
47	MP2B	Z	74.794	4.75
48	MP2B	Mx	.087	4.75
49	MP2C	X	96.64	.75
50	MP2C	Z	55.795	.75
51	MP2C	Mx	.016	.75
52	MP2C	X	96.64	4.75
53	MP2C	Z	55.795	4.75
54	MP2C	Mx	.016	4.75
55	MP2A	X	96.64	.75
56	MP2A	Z	55.795	.75
57	MP2A	Mx	-.016	.75
58	MP2A	X	96.64	4.75
59	MP2A	Z	55.795	4.75
60	MP2A	Mx	-.016	4.75
61	MP2B	X	129.547	.75
62	MP2B	Z	74.794	.75
63	MP2B	Mx	-.087	.75
64	MP2B	X	129.547	4.75
65	MP2B	Z	74.794	4.75
66	MP2B	Mx	-.087	4.75
67	MP2C	X	96.64	.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2C	Z	55.795	.75
69	MP2C	Mx	.081	.75
70	MP2C	X	96.64	4.75
71	MP2C	Z	55.795	4.75
72	MP2C	Mx	.081	4.75
73	MP1A	X	140.201	.75
74	MP1A	Z	80.945	.75
75	MP1A	Mx	-.07	.75
76	MP1A	X	140.201	4.75
77	MP1A	Z	80.945	4.75
78	MP1A	Mx	-.07	4.75
79	MP1B	X	152.408	.75
80	MP1B	Z	87.993	.75
81	MP1B	Mx	0	.75
82	MP1B	X	152.408	4.75
83	MP1B	Z	87.993	4.75
84	MP1B	Mx	0	4.75
85	MP5A	X	140.201	.75
86	MP5A	Z	80.945	.75
87	MP5A	Mx	-.07	.75
88	MP5A	X	140.201	4.75
89	MP5A	Z	80.945	4.75
90	MP5A	Mx	-.07	4.75
91	MP5B	X	152.408	.75
92	MP5B	Z	87.993	.75
93	MP5B	Mx	0	.75
94	MP5B	X	152.408	4.75
95	MP5B	Z	87.993	4.75
96	MP5B	Mx	0	4.75
97	MP1C	X	140.201	.75
98	MP1C	Z	80.945	.75
99	MP1C	Mx	.07	.75
100	MP1C	X	140.201	4.75
101	MP1C	Z	80.945	4.75
102	MP1C	Mx	.07	4.75
103	MP5C	X	140.201	.75
104	MP5C	Z	80.945	.75
105	MP5C	Mx	.07	.75
106	MP5C	X	140.201	4.75
107	MP5C	Z	80.945	4.75
108	MP5C	Mx	.07	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	36.526	1.75
2	MP3A	Z	63.265	1.75
3	MP3A	Mx	-.018	1.75
4	MP3A	X	36.526	3.75
5	MP3A	Z	63.265	3.75
6	MP3A	Mx	-.018	3.75
7	MP3B	X	36.526	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP3B	Z	63.265	1.75
9	MP3B	Mx	-.018	1.75
10	MP3B	X	36.526	3.75
11	MP3B	Z	63.265	3.75
12	MP3B	Mx	-.018	3.75
13	MP3C	X	16.866	1.75
14	MP3C	Z	29.212	1.75
15	MP3C	Mx	.017	1.75
16	MP3C	X	16.866	3.75
17	MP3C	Z	29.212	3.75
18	MP3C	Mx	.017	3.75
19	MP2A	X	31.439	2.5
20	MP2A	Z	54.454	2.5
21	MP2A	Mx	.016	2.5
22	MP2B	X	31.439	2.5
23	MP2B	Z	54.454	2.5
24	MP2B	Mx	.016	2.5
25	MP2C	X	22.915	2.5
26	MP2C	Z	39.69	2.5
27	MP2C	Mx	-.023	2.5
28	MP1A	X	30.351	2.5
29	MP1A	Z	52.569	2.5
30	MP1A	Mx	.015	2.5
31	MP1B	X	30.351	2.5
32	MP1B	Z	52.569	2.5
33	MP1B	Mx	.015	2.5
34	MP1C	X	18.561	2.5
35	MP1C	Z	32.149	2.5
36	MP1C	Mx	-.019	2.5
37	MP2A	X	68.461	.75
38	MP2A	Z	118.578	.75
39	MP2A	Mx	-.103	.75
40	MP2A	X	68.461	4.75
41	MP2A	Z	118.578	4.75
42	MP2A	Mx	-.103	4.75
43	MP2B	X	68.461	.75
44	MP2B	Z	118.578	.75
45	MP2B	Mx	.035	.75
46	MP2B	X	68.461	4.75
47	MP2B	Z	118.578	4.75
48	MP2B	Mx	.035	4.75
49	MP2C	X	49.462	.75
50	MP2C	Z	85.67	.75
51	MP2C	Mx	.049	.75
52	MP2C	X	49.462	4.75
53	MP2C	Z	85.67	4.75
54	MP2C	Mx	.049	4.75
55	MP2A	X	68.461	.75
56	MP2A	Z	118.578	.75
57	MP2A	Mx	.035	.75
58	MP2A	X	68.461	4.75
59	MP2A	Z	118.578	4.75



Company : Maser Consulting  
 Designer : AJH  
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**Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	.035	4.75
61	MP2B	X	68.461	.75
62	MP2B	Z	118.578	.75
63	MP2B	Mx	-.103	.75
64	MP2B	X	68.461	4.75
65	MP2B	Z	118.578	4.75
66	MP2B	Mx	-.103	4.75
67	MP2C	X	49.462	.75
68	MP2C	Z	85.67	.75
69	MP2C	Mx	.049	.75
70	MP2C	X	49.462	4.75
71	MP2C	Z	85.67	4.75
72	MP2C	Mx	.049	4.75
73	MP1A	X	85.644	.75
74	MP1A	Z	148.339	.75
75	MP1A	Mx	-.043	.75
76	MP1A	X	85.644	4.75
77	MP1A	Z	148.339	4.75
78	MP1A	Mx	-.043	4.75
79	MP1B	X	85.644	.75
80	MP1B	Z	148.339	.75
81	MP1B	Mx	-.043	.75
82	MP1B	X	85.644	4.75
83	MP1B	Z	148.339	4.75
84	MP1B	Mx	-.043	4.75
85	MP5A	X	85.644	.75
86	MP5A	Z	148.339	.75
87	MP5A	Mx	-.043	.75
88	MP5A	X	85.644	4.75
89	MP5A	Z	148.339	4.75
90	MP5A	Mx	-.043	4.75
91	MP5B	X	85.644	.75
92	MP5B	Z	148.339	.75
93	MP5B	Mx	-.043	.75
94	MP5B	X	85.644	4.75
95	MP5B	Z	148.339	4.75
96	MP5B	Mx	-.043	4.75
97	MP1C	X	78.596	.75
98	MP1C	Z	136.131	.75
99	MP1C	Mx	.079	.75
100	MP1C	X	78.596	4.75
101	MP1C	Z	136.131	4.75
102	MP1C	Mx	.079	4.75
103	MP5C	X	78.596	.75
104	MP5C	Z	136.131	.75
105	MP5C	Mx	.079	.75
106	MP5C	X	78.596	4.75
107	MP5C	Z	136.131	4.75
108	MP5C	Mx	.079	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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**Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.75
2	MP3A	Z	86.16	1.75
3	MP3A	Mx	0	1.75
4	MP3A	X	0	3.75
5	MP3A	Z	86.16	3.75
6	MP3A	Mx	0	3.75
7	MP3B	X	0	1.75
8	MP3B	Z	46.838	1.75
9	MP3B	Mx	-.02	1.75
10	MP3B	X	0	3.75
11	MP3B	Z	46.838	3.75
12	MP3B	Mx	-.02	3.75
13	MP3C	X	0	1.75
14	MP3C	Z	46.838	1.75
15	MP3C	Mx	.02	1.75
16	MP3C	X	0	3.75
17	MP3C	Z	46.838	3.75
18	MP3C	Mx	.02	3.75
19	MP2A	X	0	2.5
20	MP2A	Z	68.561	2.5
21	MP2A	Mx	0	2.5
22	MP2B	X	0	2.5
23	MP2B	Z	51.513	2.5
24	MP2B	Mx	.022	2.5
25	MP2C	X	0	2.5
26	MP2C	Z	51.513	2.5
27	MP2C	Mx	-.022	2.5
28	MP1A	X	0	2.5
29	MP1A	Z	68.561	2.5
30	MP1A	Mx	0	2.5
31	MP1B	X	0	2.5
32	MP1B	Z	44.982	2.5
33	MP1B	Mx	.019	2.5
34	MP1C	X	0	2.5
35	MP1C	Z	44.982	2.5
36	MP1C	Mx	-.019	2.5
37	MP2A	X	0	.75
38	MP2A	Z	149.588	.75
39	MP2A	Mx	-.087	.75
40	MP2A	X	0	4.75
41	MP2A	Z	149.588	4.75
42	MP2A	Mx	-.087	4.75
43	MP2B	X	0	.75
44	MP2B	Z	111.59	.75
45	MP2B	Mx	-.016	.75
46	MP2B	X	0	4.75
47	MP2B	Z	111.59	4.75
48	MP2B	Mx	-.016	4.75
49	MP2C	X	0	.75
50	MP2C	Z	111.59	.75
51	MP2C	Mx	.081	.75
52	MP2C	X	0	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	111.59	4.75
54	MP2C	Mx	.081	4.75
55	MP2A	X	0	.75
56	MP2A	Z	149.588	.75
57	MP2A	Mx	.087	.75
58	MP2A	X	0	4.75
59	MP2A	Z	149.588	4.75
60	MP2A	Mx	.087	4.75
61	MP2B	X	0	.75
62	MP2B	Z	111.59	.75
63	MP2B	Mx	-.081	.75
64	MP2B	X	0	4.75
65	MP2B	Z	111.59	4.75
66	MP2B	Mx	-.081	4.75
67	MP2C	X	0	.75
68	MP2C	Z	111.59	.75
69	MP2C	Mx	.016	.75
70	MP2C	X	0	4.75
71	MP2C	Z	111.59	4.75
72	MP2C	Mx	.016	4.75
73	MP1A	X	0	.75
74	MP1A	Z	175.986	.75
75	MP1A	Mx	0	.75
76	MP1A	X	0	4.75
77	MP1A	Z	175.986	4.75
78	MP1A	Mx	0	4.75
79	MP1B	X	0	.75
80	MP1B	Z	161.89	.75
81	MP1B	Mx	-.07	.75
82	MP1B	X	0	4.75
83	MP1B	Z	161.89	4.75
84	MP1B	Mx	-.07	4.75
85	MP5A	X	0	.75
86	MP5A	Z	175.986	.75
87	MP5A	Mx	0	.75
88	MP5A	X	0	4.75
89	MP5A	Z	175.986	4.75
90	MP5A	Mx	0	4.75
91	MP5B	X	0	.75
92	MP5B	Z	161.89	.75
93	MP5B	Mx	-.07	.75
94	MP5B	X	0	4.75
95	MP5B	Z	161.89	4.75
96	MP5B	Mx	-.07	4.75
97	MP1C	X	0	.75
98	MP1C	Z	161.89	.75
99	MP1C	Mx	.07	.75
100	MP1C	X	0	4.75
101	MP1C	Z	161.89	4.75
102	MP1C	Mx	.07	4.75
103	MP5C	X	0	.75
104	MP5C	Z	161.89	.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	.07	.75
106	MP5C	X	0	4.75
107	MP5C	Z	161.89	4.75
108	MP5C	Mx	.07	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-36.526	1.75
2	MP3A	Z	63.265	1.75
3	MP3A	Mx	.018	1.75
4	MP3A	X	-36.526	3.75
5	MP3A	Z	63.265	3.75
6	MP3A	Mx	.018	3.75
7	MP3B	X	-16.866	1.75
8	MP3B	Z	29.212	1.75
9	MP3B	Mx	-.017	1.75
10	MP3B	X	-16.866	3.75
11	MP3B	Z	29.212	3.75
12	MP3B	Mx	-.017	3.75
13	MP3C	X	-36.526	1.75
14	MP3C	Z	63.265	1.75
15	MP3C	Mx	.018	1.75
16	MP3C	X	-36.526	3.75
17	MP3C	Z	63.265	3.75
18	MP3C	Mx	.018	3.75
19	MP2A	X	-31.439	2.5
20	MP2A	Z	54.454	2.5
21	MP2A	Mx	-.016	2.5
22	MP2B	X	-22.915	2.5
23	MP2B	Z	39.69	2.5
24	MP2B	Mx	.023	2.5
25	MP2C	X	-31.439	2.5
26	MP2C	Z	54.454	2.5
27	MP2C	Mx	-.016	2.5
28	MP1A	X	-30.351	2.5
29	MP1A	Z	52.569	2.5
30	MP1A	Mx	-.015	2.5
31	MP1B	X	-18.561	2.5
32	MP1B	Z	32.149	2.5
33	MP1B	Mx	.019	2.5
34	MP1C	X	-30.351	2.5
35	MP1C	Z	52.569	2.5
36	MP1C	Mx	-.015	2.5
37	MP2A	X	-68.461	.75
38	MP2A	Z	118.578	.75
39	MP2A	Mx	-.035	.75
40	MP2A	X	-68.461	4.75
41	MP2A	Z	118.578	4.75
42	MP2A	Mx	-.035	4.75
43	MP2B	X	-49.462	.75
44	MP2B	Z	85.67	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	-.049	.75
46	MP2B	X	-49.462	4.75
47	MP2B	Z	85.67	4.75
48	MP2B	Mx	-.049	4.75
49	MP2C	X	-68.461	.75
50	MP2C	Z	118.578	.75
51	MP2C	Mx	.103	.75
52	MP2C	X	-68.461	4.75
53	MP2C	Z	118.578	4.75
54	MP2C	Mx	.103	4.75
55	MP2A	X	-68.461	.75
56	MP2A	Z	118.578	.75
57	MP2A	Mx	.103	.75
58	MP2A	X	-68.461	4.75
59	MP2A	Z	118.578	4.75
60	MP2A	Mx	.103	4.75
61	MP2B	X	-49.462	.75
62	MP2B	Z	85.67	.75
63	MP2B	Mx	-.049	.75
64	MP2B	X	-49.462	4.75
65	MP2B	Z	85.67	4.75
66	MP2B	Mx	-.049	4.75
67	MP2C	X	-68.461	.75
68	MP2C	Z	118.578	.75
69	MP2C	Mx	-.035	.75
70	MP2C	X	-68.461	4.75
71	MP2C	Z	118.578	4.75
72	MP2C	Mx	-.035	4.75
73	MP1A	X	-85.644	.75
74	MP1A	Z	148.339	.75
75	MP1A	Mx	.043	.75
76	MP1A	X	-85.644	4.75
77	MP1A	Z	148.339	4.75
78	MP1A	Mx	.043	4.75
79	MP1B	X	-78.596	.75
80	MP1B	Z	136.131	.75
81	MP1B	Mx	-.079	.75
82	MP1B	X	-78.596	4.75
83	MP1B	Z	136.131	4.75
84	MP1B	Mx	-.079	4.75
85	MP5A	X	-85.644	.75
86	MP5A	Z	148.339	.75
87	MP5A	Mx	.043	.75
88	MP5A	X	-85.644	4.75
89	MP5A	Z	148.339	4.75
90	MP5A	Mx	.043	4.75
91	MP5B	X	-78.596	.75
92	MP5B	Z	136.131	.75
93	MP5B	Mx	-.079	.75
94	MP5B	X	-78.596	4.75
95	MP5B	Z	136.131	4.75
96	MP5B	Mx	-.079	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP1C	X	-85.644	.75
98	MP1C	Z	148.339	.75
99	MP1C	Mx	.043	.75
100	MP1C	X	-85.644	4.75
101	MP1C	Z	148.339	4.75
102	MP1C	Mx	.043	4.75
103	MP5C	X	-85.644	.75
104	MP5C	Z	148.339	.75
105	MP5C	Mx	.043	.75
106	MP5C	X	-85.644	4.75
107	MP5C	Z	148.339	4.75
108	MP5C	Mx	.043	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-40.563	1.75
2	MP3A	Z	23.419	1.75
3	MP3A	Mx	.02	1.75
4	MP3A	X	-40.563	3.75
5	MP3A	Z	23.419	3.75
6	MP3A	Mx	.02	3.75
7	MP3B	X	-40.563	1.75
8	MP3B	Z	23.419	1.75
9	MP3B	Mx	-.02	1.75
10	MP3B	X	-40.563	3.75
11	MP3B	Z	23.419	3.75
12	MP3B	Mx	-.02	3.75
13	MP3C	X	-74.617	1.75
14	MP3C	Z	43.08	1.75
15	MP3C	Mx	0	1.75
16	MP3C	X	-74.617	3.75
17	MP3C	Z	43.08	3.75
18	MP3C	Mx	0	3.75
19	MP2A	X	-44.611	2.5
20	MP2A	Z	25.756	2.5
21	MP2A	Mx	-.022	2.5
22	MP2B	X	-44.611	2.5
23	MP2B	Z	25.756	2.5
24	MP2B	Mx	.022	2.5
25	MP2C	X	-59.376	2.5
26	MP2C	Z	34.281	2.5
27	MP2C	Mx	0	2.5
28	MP1A	X	-38.955	2.5
29	MP1A	Z	22.491	2.5
30	MP1A	Mx	-.019	2.5
31	MP1B	X	-38.955	2.5
32	MP1B	Z	22.491	2.5
33	MP1B	Mx	.019	2.5
34	MP1C	X	-59.376	2.5
35	MP1C	Z	34.281	2.5
36	MP1C	Mx	0	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2A	X	-96.64	.75
38	MP2A	Z	55.795	.75
39	MP2A	Mx	.016	.75
40	MP2A	X	-96.64	4.75
41	MP2A	Z	55.795	4.75
42	MP2A	Mx	.016	4.75
43	MP2B	X	-96.64	.75
44	MP2B	Z	55.795	.75
45	MP2B	Mx	-.081	.75
46	MP2B	X	-96.64	4.75
47	MP2B	Z	55.795	4.75
48	MP2B	Mx	-.081	4.75
49	MP2C	X	-129.547	.75
50	MP2C	Z	74.794	.75
51	MP2C	Mx	.087	.75
52	MP2C	X	-129.547	4.75
53	MP2C	Z	74.794	4.75
54	MP2C	Mx	.087	4.75
55	MP2A	X	-96.64	.75
56	MP2A	Z	55.795	.75
57	MP2A	Mx	.081	.75
58	MP2A	X	-96.64	4.75
59	MP2A	Z	55.795	4.75
60	MP2A	Mx	.081	4.75
61	MP2B	X	-96.64	.75
62	MP2B	Z	55.795	.75
63	MP2B	Mx	-.016	.75
64	MP2B	X	-96.64	4.75
65	MP2B	Z	55.795	4.75
66	MP2B	Mx	-.016	4.75
67	MP2C	X	-129.547	.75
68	MP2C	Z	74.794	.75
69	MP2C	Mx	-.087	.75
70	MP2C	X	-129.547	4.75
71	MP2C	Z	74.794	4.75
72	MP2C	Mx	-.087	4.75
73	MP1A	X	-140.201	.75
74	MP1A	Z	80.945	.75
75	MP1A	Mx	.07	.75
76	MP1A	X	-140.201	4.75
77	MP1A	Z	80.945	4.75
78	MP1A	Mx	.07	4.75
79	MP1B	X	-140.201	.75
80	MP1B	Z	80.945	.75
81	MP1B	Mx	-.07	.75
82	MP1B	X	-140.201	4.75
83	MP1B	Z	80.945	4.75
84	MP1B	Mx	-.07	4.75
85	MP5A	X	-140.201	.75
86	MP5A	Z	80.945	.75
87	MP5A	Mx	.07	.75
88	MP5A	X	-140.201	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP5A	Z	80.945	4.75
90	MP5A	Mx	.07	4.75
91	MP5B	X	-140.201	.75
92	MP5B	Z	80.945	.75
93	MP5B	Mx	-.07	.75
94	MP5B	X	-140.201	4.75
95	MP5B	Z	80.945	4.75
96	MP5B	Mx	-.07	4.75
97	MP1C	X	-152.408	.75
98	MP1C	Z	87.993	.75
99	MP1C	Mx	0	.75
100	MP1C	X	-152.408	4.75
101	MP1C	Z	87.993	4.75
102	MP1C	Mx	0	4.75
103	MP5C	X	-152.408	.75
104	MP5C	Z	87.993	.75
105	MP5C	Mx	0	.75
106	MP5C	X	-152.408	4.75
107	MP5C	Z	87.993	4.75
108	MP5C	Mx	0	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-33.731	1.75
2	MP3A	Z	0	1.75
3	MP3A	Mx	.017	1.75
4	MP3A	X	-33.731	3.75
5	MP3A	Z	0	3.75
6	MP3A	Mx	.017	3.75
7	MP3B	X	-73.053	1.75
8	MP3B	Z	0	1.75
9	MP3B	Mx	-.018	1.75
10	MP3B	X	-73.053	3.75
11	MP3B	Z	0	3.75
12	MP3B	Mx	-.018	3.75
13	MP3C	X	-73.053	1.75
14	MP3C	Z	0	1.75
15	MP3C	Mx	-.018	1.75
16	MP3C	X	-73.053	3.75
17	MP3C	Z	0	3.75
18	MP3C	Mx	-.018	3.75
19	MP2A	X	-45.83	2.5
20	MP2A	Z	0	2.5
21	MP2A	Mx	-.023	2.5
22	MP2B	X	-62.878	2.5
23	MP2B	Z	0	2.5
24	MP2B	Mx	.016	2.5
25	MP2C	X	-62.878	2.5
26	MP2C	Z	0	2.5
27	MP2C	Mx	.016	2.5
28	MP1A	X	-37.122	2.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	0	2.5
30	MP1A	Mx	-.019	2.5
31	MP1B	X	-60.701	2.5
32	MP1B	Z	0	2.5
33	MP1B	Mx	.015	2.5
34	MP1C	X	-60.701	2.5
35	MP1C	Z	0	2.5
36	MP1C	Mx	.015	2.5
37	MP2A	X	-98.924	.75
38	MP2A	Z	0	.75
39	MP2A	Mx	.049	.75
40	MP2A	X	-98.924	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	.049	4.75
43	MP2B	X	-136.922	.75
44	MP2B	Z	0	.75
45	MP2B	Mx	-.103	.75
46	MP2B	X	-136.922	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	-.103	4.75
49	MP2C	X	-136.922	.75
50	MP2C	Z	0	.75
51	MP2C	Mx	.035	.75
52	MP2C	X	-136.922	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	.035	4.75
55	MP2A	X	-98.924	.75
56	MP2A	Z	0	.75
57	MP2A	Mx	.049	.75
58	MP2A	X	-98.924	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	.049	4.75
61	MP2B	X	-136.922	.75
62	MP2B	Z	0	.75
63	MP2B	Mx	.035	.75
64	MP2B	X	-136.922	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	.035	4.75
67	MP2C	X	-136.922	.75
68	MP2C	Z	0	.75
69	MP2C	Mx	-.103	.75
70	MP2C	X	-136.922	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	-.103	4.75
73	MP1A	X	-157.191	.75
74	MP1A	Z	0	.75
75	MP1A	Mx	.079	.75
76	MP1A	X	-157.191	4.75
77	MP1A	Z	0	4.75
78	MP1A	Mx	.079	4.75
79	MP1B	X	-171.287	.75
80	MP1B	Z	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP1B	Mx	-.043	.75
82	MP1B	X	-171.287	4.75
83	MP1B	Z	0	4.75
84	MP1B	Mx	-.043	4.75
85	MP5A	X	-157.191	.75
86	MP5A	Z	0	.75
87	MP5A	Mx	.079	.75
88	MP5A	X	-157.191	4.75
89	MP5A	Z	0	4.75
90	MP5A	Mx	.079	4.75
91	MP5B	X	-171.287	.75
92	MP5B	Z	0	.75
93	MP5B	Mx	-.043	.75
94	MP5B	X	-171.287	4.75
95	MP5B	Z	0	4.75
96	MP5B	Mx	-.043	4.75
97	MP1C	X	-171.287	.75
98	MP1C	Z	0	.75
99	MP1C	Mx	-.043	.75
100	MP1C	X	-171.287	4.75
101	MP1C	Z	0	4.75
102	MP1C	Mx	-.043	4.75
103	MP5C	X	-171.287	.75
104	MP5C	Z	0	.75
105	MP5C	Mx	-.043	.75
106	MP5C	X	-171.287	4.75
107	MP5C	Z	0	4.75
108	MP5C	Mx	-.043	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-40.563	1.75
2	MP3A	Z	-23.419	1.75
3	MP3A	Mx	.02	1.75
4	MP3A	X	-40.563	3.75
5	MP3A	Z	-23.419	3.75
6	MP3A	Mx	.02	3.75
7	MP3B	X	-74.617	1.75
8	MP3B	Z	-43.08	1.75
9	MP3B	Mx	0	1.75
10	MP3B	X	-74.617	3.75
11	MP3B	Z	-43.08	3.75
12	MP3B	Mx	0	3.75
13	MP3C	X	-40.563	1.75
14	MP3C	Z	-23.419	1.75
15	MP3C	Mx	-.02	1.75
16	MP3C	X	-40.563	3.75
17	MP3C	Z	-23.419	3.75
18	MP3C	Mx	-.02	3.75
19	MP2A	X	-44.611	2.5
20	MP2A	Z	-25.756	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	-.022	2.5
22	MP2B	X	-59.376	2.5
23	MP2B	Z	-34.281	2.5
24	MP2B	Mx	0	2.5
25	MP2C	X	-44.611	2.5
26	MP2C	Z	-25.756	2.5
27	MP2C	Mx	.022	2.5
28	MP1A	X	-38.955	2.5
29	MP1A	Z	-22.491	2.5
30	MP1A	Mx	-.019	2.5
31	MP1B	X	-59.376	2.5
32	MP1B	Z	-34.281	2.5
33	MP1B	Mx	0	2.5
34	MP1C	X	-38.955	2.5
35	MP1C	Z	-22.491	2.5
36	MP1C	Mx	.019	2.5
37	MP2A	X	-96.64	.75
38	MP2A	Z	-55.795	.75
39	MP2A	Mx	.081	.75
40	MP2A	X	-96.64	4.75
41	MP2A	Z	-55.795	4.75
42	MP2A	Mx	.081	4.75
43	MP2B	X	-129.547	.75
44	MP2B	Z	-74.794	.75
45	MP2B	Mx	-.087	.75
46	MP2B	X	-129.547	4.75
47	MP2B	Z	-74.794	4.75
48	MP2B	Mx	-.087	4.75
49	MP2C	X	-96.64	.75
50	MP2C	Z	-55.795	.75
51	MP2C	Mx	-.016	.75
52	MP2C	X	-96.64	4.75
53	MP2C	Z	-55.795	4.75
54	MP2C	Mx	-.016	4.75
55	MP2A	X	-96.64	.75
56	MP2A	Z	-55.795	.75
57	MP2A	Mx	.016	.75
58	MP2A	X	-96.64	4.75
59	MP2A	Z	-55.795	4.75
60	MP2A	Mx	.016	4.75
61	MP2B	X	-129.547	.75
62	MP2B	Z	-74.794	.75
63	MP2B	Mx	.087	.75
64	MP2B	X	-129.547	4.75
65	MP2B	Z	-74.794	4.75
66	MP2B	Mx	.087	4.75
67	MP2C	X	-96.64	.75
68	MP2C	Z	-55.795	.75
69	MP2C	Mx	-.081	.75
70	MP2C	X	-96.64	4.75
71	MP2C	Z	-55.795	4.75
72	MP2C	Mx	-.081	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP1A	X	-140.201	.75
74	MP1A	Z	-80.945	.75
75	MP1A	Mx	.07	.75
76	MP1A	X	-140.201	4.75
77	MP1A	Z	-80.945	4.75
78	MP1A	Mx	.07	4.75
79	MP1B	X	-152.408	.75
80	MP1B	Z	-87.993	.75
81	MP1B	Mx	0	.75
82	MP1B	X	-152.408	4.75
83	MP1B	Z	-87.993	4.75
84	MP1B	Mx	0	4.75
85	MP5A	X	-140.201	.75
86	MP5A	Z	-80.945	.75
87	MP5A	Mx	.07	.75
88	MP5A	X	-140.201	4.75
89	MP5A	Z	-80.945	4.75
90	MP5A	Mx	.07	4.75
91	MP5B	X	-152.408	.75
92	MP5B	Z	-87.993	.75
93	MP5B	Mx	0	.75
94	MP5B	X	-152.408	4.75
95	MP5B	Z	-87.993	4.75
96	MP5B	Mx	0	4.75
97	MP1C	X	-140.201	.75
98	MP1C	Z	-80.945	.75
99	MP1C	Mx	-.07	.75
100	MP1C	X	-140.201	4.75
101	MP1C	Z	-80.945	4.75
102	MP1C	Mx	-.07	4.75
103	MP5C	X	-140.201	.75
104	MP5C	Z	-80.945	.75
105	MP5C	Mx	-.07	.75
106	MP5C	X	-140.201	4.75
107	MP5C	Z	-80.945	4.75
108	MP5C	Mx	-.07	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-36.526	1.75
2	MP3A	Z	-63.265	1.75
3	MP3A	Mx	.018	1.75
4	MP3A	X	-36.526	3.75
5	MP3A	Z	-63.265	3.75
6	MP3A	Mx	.018	3.75
7	MP3B	X	-36.526	1.75
8	MP3B	Z	-63.265	1.75
9	MP3B	Mx	.018	1.75
10	MP3B	X	-36.526	3.75
11	MP3B	Z	-63.265	3.75
12	MP3B	Mx	.018	3.75



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 Designer : AJH  
 Job Number : Project No. 10037788  
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**Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3C	X	-16.866	1.75
14	MP3C	Z	-29.212	1.75
15	MP3C	Mx	-.017	1.75
16	MP3C	X	-16.866	3.75
17	MP3C	Z	-29.212	3.75
18	MP3C	Mx	-.017	3.75
19	MP2A	X	-31.439	2.5
20	MP2A	Z	-54.454	2.5
21	MP2A	Mx	-.016	2.5
22	MP2B	X	-31.439	2.5
23	MP2B	Z	-54.454	2.5
24	MP2B	Mx	-.016	2.5
25	MP2C	X	-22.915	2.5
26	MP2C	Z	-39.69	2.5
27	MP2C	Mx	.023	2.5
28	MP1A	X	-30.351	2.5
29	MP1A	Z	-52.569	2.5
30	MP1A	Mx	-.015	2.5
31	MP1B	X	-30.351	2.5
32	MP1B	Z	-52.569	2.5
33	MP1B	Mx	-.015	2.5
34	MP1C	X	-18.561	2.5
35	MP1C	Z	-32.149	2.5
36	MP1C	Mx	.019	2.5
37	MP2A	X	-68.461	.75
38	MP2A	Z	-118.578	.75
39	MP2A	Mx	.103	.75
40	MP2A	X	-68.461	4.75
41	MP2A	Z	-118.578	4.75
42	MP2A	Mx	.103	4.75
43	MP2B	X	-68.461	.75
44	MP2B	Z	-118.578	.75
45	MP2B	Mx	-.035	.75
46	MP2B	X	-68.461	4.75
47	MP2B	Z	-118.578	4.75
48	MP2B	Mx	-.035	4.75
49	MP2C	X	-49.462	.75
50	MP2C	Z	-85.67	.75
51	MP2C	Mx	-.049	.75
52	MP2C	X	-49.462	4.75
53	MP2C	Z	-85.67	4.75
54	MP2C	Mx	-.049	4.75
55	MP2A	X	-68.461	.75
56	MP2A	Z	-118.578	.75
57	MP2A	Mx	-.035	.75
58	MP2A	X	-68.461	4.75
59	MP2A	Z	-118.578	4.75
60	MP2A	Mx	-.035	4.75
61	MP2B	X	-68.461	.75
62	MP2B	Z	-118.578	.75
63	MP2B	Mx	.103	.75
64	MP2B	X	-68.461	4.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	-118.578	4.75
66	MP2B	Mx	.103	4.75
67	MP2C	X	-49.462	.75
68	MP2C	Z	-85.67	.75
69	MP2C	Mx	-.049	.75
70	MP2C	X	-49.462	4.75
71	MP2C	Z	-85.67	4.75
72	MP2C	Mx	-.049	4.75
73	MP1A	X	-85.644	.75
74	MP1A	Z	-148.339	.75
75	MP1A	Mx	.043	.75
76	MP1A	X	-85.644	4.75
77	MP1A	Z	-148.339	4.75
78	MP1A	Mx	.043	4.75
79	MP1B	X	-85.644	.75
80	MP1B	Z	-148.339	.75
81	MP1B	Mx	.043	.75
82	MP1B	X	-85.644	4.75
83	MP1B	Z	-148.339	4.75
84	MP1B	Mx	.043	4.75
85	MP5A	X	-85.644	.75
86	MP5A	Z	-148.339	.75
87	MP5A	Mx	.043	.75
88	MP5A	X	-85.644	4.75
89	MP5A	Z	-148.339	4.75
90	MP5A	Mx	.043	4.75
91	MP5B	X	-85.644	.75
92	MP5B	Z	-148.339	.75
93	MP5B	Mx	.043	.75
94	MP5B	X	-85.644	4.75
95	MP5B	Z	-148.339	4.75
96	MP5B	Mx	.043	4.75
97	MP1C	X	-78.596	.75
98	MP1C	Z	-136.131	.75
99	MP1C	Mx	-.079	.75
100	MP1C	X	-78.596	4.75
101	MP1C	Z	-136.131	4.75
102	MP1C	Mx	-.079	4.75
103	MP5C	X	-78.596	.75
104	MP5C	Z	-136.131	.75
105	MP5C	Mx	-.079	.75
106	MP5C	X	-78.596	4.75
107	MP5C	Z	-136.131	4.75
108	MP5C	Mx	-.079	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.75
2	MP3A	Z	-18.371	1.75
3	MP3A	Mx	0	1.75
4	MP3A	X	0	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP3A	Z	-18.371	3.75
6	MP3A	Mx	0	3.75
7	MP3B	X	0	1.75
8	MP3B	Z	-10.455	1.75
9	MP3B	Mx	.005	1.75
10	MP3B	X	0	3.75
11	MP3B	Z	-10.455	3.75
12	MP3B	Mx	.005	3.75
13	MP3C	X	0	1.75
14	MP3C	Z	-10.455	1.75
15	MP3C	Mx	-.005	1.75
16	MP3C	X	0	3.75
17	MP3C	Z	-10.455	3.75
18	MP3C	Mx	-.005	3.75
19	MP2A	X	0	2.5
20	MP2A	Z	-15.472	2.5
21	MP2A	Mx	0	2.5
22	MP2B	X	0	2.5
23	MP2B	Z	-11.936	2.5
24	MP2B	Mx	-.005	2.5
25	MP2C	X	0	2.5
26	MP2C	Z	-11.936	2.5
27	MP2C	Mx	.005	2.5
28	MP1A	X	0	2.5
29	MP1A	Z	-15.472	2.5
30	MP1A	Mx	0	2.5
31	MP1B	X	0	2.5
32	MP1B	Z	-10.592	2.5
33	MP1B	Mx	-.005	2.5
34	MP1C	X	0	2.5
35	MP1C	Z	-10.592	2.5
36	MP1C	Mx	.005	2.5
37	MP2A	X	0	.75
38	MP2A	Z	-31.143	.75
39	MP2A	Mx	.018	.75
40	MP2A	X	0	4.75
41	MP2A	Z	-31.143	4.75
42	MP2A	Mx	.018	4.75
43	MP2B	X	0	.75
44	MP2B	Z	-23.886	.75
45	MP2B	Mx	.003	.75
46	MP2B	X	0	4.75
47	MP2B	Z	-23.886	4.75
48	MP2B	Mx	.003	4.75
49	MP2C	X	0	.75
50	MP2C	Z	-23.886	.75
51	MP2C	Mx	-.017	.75
52	MP2C	X	0	4.75
53	MP2C	Z	-23.886	4.75
54	MP2C	Mx	-.017	4.75
55	MP2A	X	0	.75
56	MP2A	Z	-31.143	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
57	MP2A	Mx	-.018	.75
58	MP2A	X	0	4.75
59	MP2A	Z	-31.143	4.75
60	MP2A	Mx	-.018	4.75
61	MP2B	X	0	.75
62	MP2B	Z	-23.886	.75
63	MP2B	Mx	.017	.75
64	MP2B	X	0	4.75
65	MP2B	Z	-23.886	4.75
66	MP2B	Mx	.017	4.75
67	MP2C	X	0	.75
68	MP2C	Z	-23.886	.75
69	MP2C	Mx	-.003	.75
70	MP2C	X	0	4.75
71	MP2C	Z	-23.886	4.75
72	MP2C	Mx	-.003	4.75
73	MP1A	X	0	.75
74	MP1A	Z	-36.256	.75
75	MP1A	Mx	0	.75
76	MP1A	X	0	4.75
77	MP1A	Z	-36.256	4.75
78	MP1A	Mx	0	4.75
79	MP1B	X	0	.75
80	MP1B	Z	-33.524	.75
81	MP1B	Mx	.015	.75
82	MP1B	X	0	4.75
83	MP1B	Z	-33.524	4.75
84	MP1B	Mx	.015	4.75
85	MP5A	X	0	.75
86	MP5A	Z	-36.256	.75
87	MP5A	Mx	0	.75
88	MP5A	X	0	4.75
89	MP5A	Z	-36.256	4.75
90	MP5A	Mx	0	4.75
91	MP5B	X	0	.75
92	MP5B	Z	-33.524	.75
93	MP5B	Mx	.015	.75
94	MP5B	X	0	4.75
95	MP5B	Z	-33.524	4.75
96	MP5B	Mx	.015	4.75
97	MP1C	X	0	.75
98	MP1C	Z	-33.524	.75
99	MP1C	Mx	-.015	.75
100	MP1C	X	0	4.75
101	MP1C	Z	-33.524	4.75
102	MP1C	Mx	-.015	4.75
103	MP5C	X	0	.75
104	MP5C	Z	-33.524	.75
105	MP5C	Mx	-.015	.75
106	MP5C	X	0	4.75
107	MP5C	Z	-33.524	4.75
108	MP5C	Mx	-.015	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.866	1.75
2	MP3A	Z	-13.625	1.75
3	MP3A	Mx	-.004	1.75
4	MP3A	X	7.866	3.75
5	MP3A	Z	-13.625	3.75
6	MP3A	Mx	-.004	3.75
7	MP3B	X	3.908	1.75
8	MP3B	Z	-6.77	1.75
9	MP3B	Mx	.004	1.75
10	MP3B	X	3.908	3.75
11	MP3B	Z	-6.77	3.75
12	MP3B	Mx	.004	3.75
13	MP3C	X	7.866	1.75
14	MP3C	Z	-13.625	1.75
15	MP3C	Mx	-.004	1.75
16	MP3C	X	7.866	3.75
17	MP3C	Z	-13.625	3.75
18	MP3C	Mx	-.004	3.75
19	MP2A	X	7.147	2.5
20	MP2A	Z	-12.379	2.5
21	MP2A	Mx	.004	2.5
22	MP2B	X	5.378	2.5
23	MP2B	Z	-9.316	2.5
24	MP2B	Mx	-.005	2.5
25	MP2C	X	7.147	2.5
26	MP2C	Z	-12.379	2.5
27	MP2C	Mx	.004	2.5
28	MP1A	X	6.923	2.5
29	MP1A	Z	-11.991	2.5
30	MP1A	Mx	.003	2.5
31	MP1B	X	4.483	2.5
32	MP1B	Z	-7.764	2.5
33	MP1B	Mx	-.004	2.5
34	MP1C	X	6.923	2.5
35	MP1C	Z	-11.991	2.5
36	MP1C	Mx	.003	2.5
37	MP2A	X	14.362	.75
38	MP2A	Z	-24.876	.75
39	MP2A	Mx	.007	.75
40	MP2A	X	14.362	4.75
41	MP2A	Z	-24.876	4.75
42	MP2A	Mx	.007	4.75
43	MP2B	X	10.734	.75
44	MP2B	Z	-18.591	.75
45	MP2B	Mx	.011	.75
46	MP2B	X	10.734	4.75
47	MP2B	Z	-18.591	4.75
48	MP2B	Mx	.011	4.75
49	MP2C	X	14.362	.75
50	MP2C	Z	-24.876	.75
51	MP2C	Mx	-.022	.75
52	MP2C	X	14.362	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	-24.876	4.75
54	MP2C	Mx	-.022	4.75
55	MP2A	X	14.362	.75
56	MP2A	Z	-24.876	.75
57	MP2A	Mx	-.022	.75
58	MP2A	X	14.362	4.75
59	MP2A	Z	-24.876	4.75
60	MP2A	Mx	-.022	4.75
61	MP2B	X	10.734	.75
62	MP2B	Z	-18.591	.75
63	MP2B	Mx	.011	.75
64	MP2B	X	10.734	4.75
65	MP2B	Z	-18.591	4.75
66	MP2B	Mx	.011	4.75
67	MP2C	X	14.362	.75
68	MP2C	Z	-24.876	.75
69	MP2C	Mx	.007	.75
70	MP2C	X	14.362	4.75
71	MP2C	Z	-24.876	4.75
72	MP2C	Mx	.007	4.75
73	MP1A	X	17.673	.75
74	MP1A	Z	-30.61	.75
75	MP1A	Mx	-.009	.75
76	MP1A	X	17.673	4.75
77	MP1A	Z	-30.61	4.75
78	MP1A	Mx	-.009	4.75
79	MP1B	X	16.307	.75
80	MP1B	Z	-28.244	.75
81	MP1B	Mx	.016	.75
82	MP1B	X	16.307	4.75
83	MP1B	Z	-28.244	4.75
84	MP1B	Mx	.016	4.75
85	MP5A	X	17.673	.75
86	MP5A	Z	-30.61	.75
87	MP5A	Mx	-.009	.75
88	MP5A	X	17.673	4.75
89	MP5A	Z	-30.61	4.75
90	MP5A	Mx	-.009	4.75
91	MP5B	X	16.307	.75
92	MP5B	Z	-28.244	.75
93	MP5B	Mx	.016	.75
94	MP5B	X	16.307	4.75
95	MP5B	Z	-28.244	4.75
96	MP5B	Mx	.016	4.75
97	MP1C	X	17.673	.75
98	MP1C	Z	-30.61	.75
99	MP1C	Mx	-.009	.75
100	MP1C	X	17.673	4.75
101	MP1C	Z	-30.61	4.75
102	MP1C	Mx	-.009	4.75
103	MP5C	X	17.673	.75
104	MP5C	Z	-30.61	.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	-.009	.75
106	MP5C	X	17.673	4.75
107	MP5C	Z	-30.61	4.75
108	MP5C	Mx	-.009	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	9.055	1.75
2	MP3A	Z	-5.228	1.75
3	MP3A	Mx	-.005	1.75
4	MP3A	X	9.055	3.75
5	MP3A	Z	-5.228	3.75
6	MP3A	Mx	-.005	3.75
7	MP3B	X	9.055	1.75
8	MP3B	Z	-5.228	1.75
9	MP3B	Mx	.005	1.75
10	MP3B	X	9.055	3.75
11	MP3B	Z	-5.228	3.75
12	MP3B	Mx	.005	3.75
13	MP3C	X	15.91	1.75
14	MP3C	Z	-9.186	1.75
15	MP3C	Mx	0	1.75
16	MP3C	X	15.91	3.75
17	MP3C	Z	-9.186	3.75
18	MP3C	Mx	0	3.75
19	MP2A	X	10.337	2.5
20	MP2A	Z	-5.968	2.5
21	MP2A	Mx	.005	2.5
22	MP2B	X	10.337	2.5
23	MP2B	Z	-5.968	2.5
24	MP2B	Mx	-.005	2.5
25	MP2C	X	13.4	2.5
26	MP2C	Z	-7.736	2.5
27	MP2C	Mx	0	2.5
28	MP1A	X	9.173	2.5
29	MP1A	Z	-5.296	2.5
30	MP1A	Mx	.005	2.5
31	MP1B	X	9.173	2.5
32	MP1B	Z	-5.296	2.5
33	MP1B	Mx	-.005	2.5
34	MP1C	X	13.4	2.5
35	MP1C	Z	-7.736	2.5
36	MP1C	Mx	0	2.5
37	MP2A	X	20.686	.75
38	MP2A	Z	-11.943	.75
39	MP2A	Mx	-.003	.75
40	MP2A	X	20.686	4.75
41	MP2A	Z	-11.943	4.75
42	MP2A	Mx	-.003	4.75
43	MP2B	X	20.686	.75
44	MP2B	Z	-11.943	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	.017	.75
46	MP2B	X	20.686	4.75
47	MP2B	Z	-11.943	4.75
48	MP2B	Mx	.017	4.75
49	MP2C	X	26.971	.75
50	MP2C	Z	-15.572	.75
51	MP2C	Mx	-.018	.75
52	MP2C	X	26.971	4.75
53	MP2C	Z	-15.572	4.75
54	MP2C	Mx	-.018	4.75
55	MP2A	X	20.686	.75
56	MP2A	Z	-11.943	.75
57	MP2A	Mx	-.017	.75
58	MP2A	X	20.686	4.75
59	MP2A	Z	-11.943	4.75
60	MP2A	Mx	-.017	4.75
61	MP2B	X	20.686	.75
62	MP2B	Z	-11.943	.75
63	MP2B	Mx	.003	.75
64	MP2B	X	20.686	4.75
65	MP2B	Z	-11.943	4.75
66	MP2B	Mx	.003	4.75
67	MP2C	X	26.971	.75
68	MP2C	Z	-15.572	.75
69	MP2C	Mx	.018	.75
70	MP2C	X	26.971	4.75
71	MP2C	Z	-15.572	4.75
72	MP2C	Mx	.018	4.75
73	MP1A	X	29.033	.75
74	MP1A	Z	-16.762	.75
75	MP1A	Mx	-.015	.75
76	MP1A	X	29.033	4.75
77	MP1A	Z	-16.762	4.75
78	MP1A	Mx	-.015	4.75
79	MP1B	X	29.033	.75
80	MP1B	Z	-16.762	.75
81	MP1B	Mx	.015	.75
82	MP1B	X	29.033	4.75
83	MP1B	Z	-16.762	4.75
84	MP1B	Mx	.015	4.75
85	MP5A	X	29.033	.75
86	MP5A	Z	-16.762	.75
87	MP5A	Mx	-.015	.75
88	MP5A	X	29.033	4.75
89	MP5A	Z	-16.762	4.75
90	MP5A	Mx	-.015	4.75
91	MP5B	X	29.033	.75
92	MP5B	Z	-16.762	.75
93	MP5B	Mx	.015	.75
94	MP5B	X	29.033	4.75
95	MP5B	Z	-16.762	4.75
96	MP5B	Mx	.015	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP1C	X	31.399	.75
98	MP1C	Z	-18.128	.75
99	MP1C	Mx	0	.75
100	MP1C	X	31.399	4.75
101	MP1C	Z	-18.128	4.75
102	MP1C	Mx	0	4.75
103	MP5C	X	31.399	.75
104	MP5C	Z	-18.128	.75
105	MP5C	Mx	0	.75
106	MP5C	X	31.399	4.75
107	MP5C	Z	-18.128	4.75
108	MP5C	Mx	0	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.817	1.75
2	MP3A	Z	0	1.75
3	MP3A	Mx	-.004	1.75
4	MP3A	X	7.817	3.75
5	MP3A	Z	0	3.75
6	MP3A	Mx	-.004	3.75
7	MP3B	X	15.733	1.75
8	MP3B	Z	0	1.75
9	MP3B	Mx	.004	1.75
10	MP3B	X	15.733	3.75
11	MP3B	Z	0	3.75
12	MP3B	Mx	.004	3.75
13	MP3C	X	15.733	1.75
14	MP3C	Z	0	1.75
15	MP3C	Mx	.004	1.75
16	MP3C	X	15.733	3.75
17	MP3C	Z	0	3.75
18	MP3C	Mx	.004	3.75
19	MP2A	X	10.757	2.5
20	MP2A	Z	0	2.5
21	MP2A	Mx	.005	2.5
22	MP2B	X	14.294	2.5
23	MP2B	Z	0	2.5
24	MP2B	Mx	-.004	2.5
25	MP2C	X	14.294	2.5
26	MP2C	Z	0	2.5
27	MP2C	Mx	-.004	2.5
28	MP1A	X	8.965	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	.004	2.5
31	MP1B	X	13.846	2.5
32	MP1B	Z	0	2.5
33	MP1B	Mx	-.003	2.5
34	MP1C	X	13.846	2.5
35	MP1C	Z	0	2.5
36	MP1C	Mx	-.003	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2A	X	21.467	.75
38	MP2A	Z	0	.75
39	MP2A	Mx	-.011	.75
40	MP2A	X	21.467	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	-.011	4.75
43	MP2B	X	28.724	.75
44	MP2B	Z	0	.75
45	MP2B	Mx	.022	.75
46	MP2B	X	28.724	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.022	4.75
49	MP2C	X	28.724	.75
50	MP2C	Z	0	.75
51	MP2C	Mx	-.007	.75
52	MP2C	X	28.724	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.007	4.75
55	MP2A	X	21.467	.75
56	MP2A	Z	0	.75
57	MP2A	Mx	-.011	.75
58	MP2A	X	21.467	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	-.011	4.75
61	MP2B	X	28.724	.75
62	MP2B	Z	0	.75
63	MP2B	Mx	-.007	.75
64	MP2B	X	28.724	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	-.007	4.75
67	MP2C	X	28.724	.75
68	MP2C	Z	0	.75
69	MP2C	Mx	.022	.75
70	MP2C	X	28.724	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	.022	4.75
73	MP1A	X	32.614	.75
74	MP1A	Z	0	.75
75	MP1A	Mx	-.016	.75
76	MP1A	X	32.614	4.75
77	MP1A	Z	0	4.75
78	MP1A	Mx	-.016	4.75
79	MP1B	X	35.345	.75
80	MP1B	Z	0	.75
81	MP1B	Mx	.009	.75
82	MP1B	X	35.345	4.75
83	MP1B	Z	0	4.75
84	MP1B	Mx	.009	4.75
85	MP5A	X	32.614	.75
86	MP5A	Z	0	.75
87	MP5A	Mx	-.016	.75
88	MP5A	X	32.614	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP5A	Z	0	4.75
90	MP5A	Mx	-.016	4.75
91	MP5B	X	35.345	.75
92	MP5B	Z	0	.75
93	MP5B	Mx	.009	.75
94	MP5B	X	35.345	4.75
95	MP5B	Z	0	4.75
96	MP5B	Mx	.009	4.75
97	MP1C	X	35.345	.75
98	MP1C	Z	0	.75
99	MP1C	Mx	.009	.75
100	MP1C	X	35.345	4.75
101	MP1C	Z	0	4.75
102	MP1C	Mx	.009	4.75
103	MP5C	X	35.345	.75
104	MP5C	Z	0	.75
105	MP5C	Mx	.009	.75
106	MP5C	X	35.345	4.75
107	MP5C	Z	0	4.75
108	MP5C	Mx	.009	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	9.055	1.75
2	MP3A	Z	5.228	1.75
3	MP3A	Mx	-.005	1.75
4	MP3A	X	9.055	3.75
5	MP3A	Z	5.228	3.75
6	MP3A	Mx	-.005	3.75
7	MP3B	X	15.91	1.75
8	MP3B	Z	9.186	1.75
9	MP3B	Mx	0	1.75
10	MP3B	X	15.91	3.75
11	MP3B	Z	9.186	3.75
12	MP3B	Mx	0	3.75
13	MP3C	X	9.055	1.75
14	MP3C	Z	5.228	1.75
15	MP3C	Mx	.005	1.75
16	MP3C	X	9.055	3.75
17	MP3C	Z	5.228	3.75
18	MP3C	Mx	.005	3.75
19	MP2A	X	10.337	2.5
20	MP2A	Z	5.968	2.5
21	MP2A	Mx	.005	2.5
22	MP2B	X	13.4	2.5
23	MP2B	Z	7.736	2.5
24	MP2B	Mx	0	2.5
25	MP2C	X	10.337	2.5
26	MP2C	Z	5.968	2.5
27	MP2C	Mx	-.005	2.5
28	MP1A	X	9.173	2.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	5.296	2.5
30	MP1A	Mx	.005	2.5
31	MP1B	X	13.4	2.5
32	MP1B	Z	7.736	2.5
33	MP1B	Mx	0	2.5
34	MP1C	X	9.173	2.5
35	MP1C	Z	5.296	2.5
36	MP1C	Mx	-.005	2.5
37	MP2A	X	20.686	.75
38	MP2A	Z	11.943	.75
39	MP2A	Mx	-.017	.75
40	MP2A	X	20.686	4.75
41	MP2A	Z	11.943	4.75
42	MP2A	Mx	-.017	4.75
43	MP2B	X	26.971	.75
44	MP2B	Z	15.572	.75
45	MP2B	Mx	.018	.75
46	MP2B	X	26.971	4.75
47	MP2B	Z	15.572	4.75
48	MP2B	Mx	.018	4.75
49	MP2C	X	20.686	.75
50	MP2C	Z	11.943	.75
51	MP2C	Mx	.003	.75
52	MP2C	X	20.686	4.75
53	MP2C	Z	11.943	4.75
54	MP2C	Mx	.003	4.75
55	MP2A	X	20.686	.75
56	MP2A	Z	11.943	.75
57	MP2A	Mx	-.003	.75
58	MP2A	X	20.686	4.75
59	MP2A	Z	11.943	4.75
60	MP2A	Mx	-.003	4.75
61	MP2B	X	26.971	.75
62	MP2B	Z	15.572	.75
63	MP2B	Mx	-.018	.75
64	MP2B	X	26.971	4.75
65	MP2B	Z	15.572	4.75
66	MP2B	Mx	-.018	4.75
67	MP2C	X	20.686	.75
68	MP2C	Z	11.943	.75
69	MP2C	Mx	.017	.75
70	MP2C	X	20.686	4.75
71	MP2C	Z	11.943	4.75
72	MP2C	Mx	.017	4.75
73	MP1A	X	29.033	.75
74	MP1A	Z	16.762	.75
75	MP1A	Mx	-.015	.75
76	MP1A	X	29.033	4.75
77	MP1A	Z	16.762	4.75
78	MP1A	Mx	-.015	4.75
79	MP1B	X	31.399	.75
80	MP1B	Z	18.128	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP1B	Mx	0	.75
82	MP1B	X	31.399	4.75
83	MP1B	Z	18.128	4.75
84	MP1B	Mx	0	4.75
85	MP5A	X	29.033	.75
86	MP5A	Z	16.762	.75
87	MP5A	Mx	-.015	.75
88	MP5A	X	29.033	4.75
89	MP5A	Z	16.762	4.75
90	MP5A	Mx	-.015	4.75
91	MP5B	X	31.399	.75
92	MP5B	Z	18.128	.75
93	MP5B	Mx	0	.75
94	MP5B	X	31.399	4.75
95	MP5B	Z	18.128	4.75
96	MP5B	Mx	0	4.75
97	MP1C	X	29.033	.75
98	MP1C	Z	16.762	.75
99	MP1C	Mx	.015	.75
100	MP1C	X	29.033	4.75
101	MP1C	Z	16.762	4.75
102	MP1C	Mx	.015	4.75
103	MP5C	X	29.033	.75
104	MP5C	Z	16.762	.75
105	MP5C	Mx	.015	.75
106	MP5C	X	29.033	4.75
107	MP5C	Z	16.762	4.75
108	MP5C	Mx	.015	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.866	1.75
2	MP3A	Z	13.625	1.75
3	MP3A	Mx	-.004	1.75
4	MP3A	X	7.866	3.75
5	MP3A	Z	13.625	3.75
6	MP3A	Mx	-.004	3.75
7	MP3B	X	7.866	1.75
8	MP3B	Z	13.625	1.75
9	MP3B	Mx	-.004	1.75
10	MP3B	X	7.866	3.75
11	MP3B	Z	13.625	3.75
12	MP3B	Mx	-.004	3.75
13	MP3C	X	3.908	1.75
14	MP3C	Z	6.77	1.75
15	MP3C	Mx	.004	1.75
16	MP3C	X	3.908	3.75
17	MP3C	Z	6.77	3.75
18	MP3C	Mx	.004	3.75
19	MP2A	X	7.147	2.5
20	MP2A	Z	12.379	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	.004	2.5
22	MP2B	X	7.147	2.5
23	MP2B	Z	12.379	2.5
24	MP2B	Mx	.004	2.5
25	MP2C	X	5.378	2.5
26	MP2C	Z	9.316	2.5
27	MP2C	Mx	-.005	2.5
28	MP1A	X	6.923	2.5
29	MP1A	Z	11.991	2.5
30	MP1A	Mx	.003	2.5
31	MP1B	X	6.923	2.5
32	MP1B	Z	11.991	2.5
33	MP1B	Mx	.003	2.5
34	MP1C	X	4.483	2.5
35	MP1C	Z	7.764	2.5
36	MP1C	Mx	-.004	2.5
37	MP2A	X	14.362	.75
38	MP2A	Z	24.876	.75
39	MP2A	Mx	-.022	.75
40	MP2A	X	14.362	4.75
41	MP2A	Z	24.876	4.75
42	MP2A	Mx	-.022	4.75
43	MP2B	X	14.362	.75
44	MP2B	Z	24.876	.75
45	MP2B	Mx	.007	.75
46	MP2B	X	14.362	4.75
47	MP2B	Z	24.876	4.75
48	MP2B	Mx	.007	4.75
49	MP2C	X	10.734	.75
50	MP2C	Z	18.591	.75
51	MP2C	Mx	.011	.75
52	MP2C	X	10.734	4.75
53	MP2C	Z	18.591	4.75
54	MP2C	Mx	.011	4.75
55	MP2A	X	14.362	.75
56	MP2A	Z	24.876	.75
57	MP2A	Mx	.007	.75
58	MP2A	X	14.362	4.75
59	MP2A	Z	24.876	4.75
60	MP2A	Mx	.007	4.75
61	MP2B	X	14.362	.75
62	MP2B	Z	24.876	.75
63	MP2B	Mx	-.022	.75
64	MP2B	X	14.362	4.75
65	MP2B	Z	24.876	4.75
66	MP2B	Mx	-.022	4.75
67	MP2C	X	10.734	.75
68	MP2C	Z	18.591	.75
69	MP2C	Mx	.011	.75
70	MP2C	X	10.734	4.75
71	MP2C	Z	18.591	4.75
72	MP2C	Mx	.011	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP1A	X	17.673	.75
74	MP1A	Z	30.61	.75
75	MP1A	Mx	-.009	.75
76	MP1A	X	17.673	4.75
77	MP1A	Z	30.61	4.75
78	MP1A	Mx	-.009	4.75
79	MP1B	X	17.673	.75
80	MP1B	Z	30.61	.75
81	MP1B	Mx	-.009	.75
82	MP1B	X	17.673	4.75
83	MP1B	Z	30.61	4.75
84	MP1B	Mx	-.009	4.75
85	MP5A	X	17.673	.75
86	MP5A	Z	30.61	.75
87	MP5A	Mx	-.009	.75
88	MP5A	X	17.673	4.75
89	MP5A	Z	30.61	4.75
90	MP5A	Mx	-.009	4.75
91	MP5B	X	17.673	.75
92	MP5B	Z	30.61	.75
93	MP5B	Mx	-.009	.75
94	MP5B	X	17.673	4.75
95	MP5B	Z	30.61	4.75
96	MP5B	Mx	-.009	4.75
97	MP1C	X	16.307	.75
98	MP1C	Z	28.244	.75
99	MP1C	Mx	.016	.75
100	MP1C	X	16.307	4.75
101	MP1C	Z	28.244	4.75
102	MP1C	Mx	.016	4.75
103	MP5C	X	16.307	.75
104	MP5C	Z	28.244	.75
105	MP5C	Mx	.016	.75
106	MP5C	X	16.307	4.75
107	MP5C	Z	28.244	4.75
108	MP5C	Mx	.016	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.75
2	MP3A	Z	18.371	1.75
3	MP3A	Mx	0	1.75
4	MP3A	X	0	3.75
5	MP3A	Z	18.371	3.75
6	MP3A	Mx	0	3.75
7	MP3B	X	0	1.75
8	MP3B	Z	10.455	1.75
9	MP3B	Mx	-.005	1.75
10	MP3B	X	0	3.75
11	MP3B	Z	10.455	3.75
12	MP3B	Mx	-.005	3.75



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
 Model Name : 467194-VZW\_MT\_LO\_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3C	X	0	1.75
14	MP3C	Z	10.455	1.75
15	MP3C	Mx	.005	1.75
16	MP3C	X	0	3.75
17	MP3C	Z	10.455	3.75
18	MP3C	Mx	.005	3.75
19	MP2A	X	0	2.5
20	MP2A	Z	15.472	2.5
21	MP2A	Mx	0	2.5
22	MP2B	X	0	2.5
23	MP2B	Z	11.936	2.5
24	MP2B	Mx	.005	2.5
25	MP2C	X	0	2.5
26	MP2C	Z	11.936	2.5
27	MP2C	Mx	-.005	2.5
28	MP1A	X	0	2.5
29	MP1A	Z	15.472	2.5
30	MP1A	Mx	0	2.5
31	MP1B	X	0	2.5
32	MP1B	Z	10.592	2.5
33	MP1B	Mx	.005	2.5
34	MP1C	X	0	2.5
35	MP1C	Z	10.592	2.5
36	MP1C	Mx	-.005	2.5
37	MP2A	X	0	.75
38	MP2A	Z	31.143	.75
39	MP2A	Mx	-.018	.75
40	MP2A	X	0	4.75
41	MP2A	Z	31.143	4.75
42	MP2A	Mx	-.018	4.75
43	MP2B	X	0	.75
44	MP2B	Z	23.886	.75
45	MP2B	Mx	-.003	.75
46	MP2B	X	0	4.75
47	MP2B	Z	23.886	4.75
48	MP2B	Mx	-.003	4.75
49	MP2C	X	0	.75
50	MP2C	Z	23.886	.75
51	MP2C	Mx	.017	.75
52	MP2C	X	0	4.75
53	MP2C	Z	23.886	4.75
54	MP2C	Mx	.017	4.75
55	MP2A	X	0	.75
56	MP2A	Z	31.143	.75
57	MP2A	Mx	.018	.75
58	MP2A	X	0	4.75
59	MP2A	Z	31.143	4.75
60	MP2A	Mx	.018	4.75
61	MP2B	X	0	.75
62	MP2B	Z	23.886	.75
63	MP2B	Mx	-.017	.75
64	MP2B	X	0	4.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	23.886	4.75
66	MP2B	Mx	-.017	4.75
67	MP2C	X	0	.75
68	MP2C	Z	23.886	.75
69	MP2C	Mx	.003	.75
70	MP2C	X	0	4.75
71	MP2C	Z	23.886	4.75
72	MP2C	Mx	.003	4.75
73	MP1A	X	0	.75
74	MP1A	Z	36.256	.75
75	MP1A	Mx	0	.75
76	MP1A	X	0	4.75
77	MP1A	Z	36.256	4.75
78	MP1A	Mx	0	4.75
79	MP1B	X	0	.75
80	MP1B	Z	33.524	.75
81	MP1B	Mx	-.015	.75
82	MP1B	X	0	4.75
83	MP1B	Z	33.524	4.75
84	MP1B	Mx	-.015	4.75
85	MP5A	X	0	.75
86	MP5A	Z	36.256	.75
87	MP5A	Mx	0	.75
88	MP5A	X	0	4.75
89	MP5A	Z	36.256	4.75
90	MP5A	Mx	0	4.75
91	MP5B	X	0	.75
92	MP5B	Z	33.524	.75
93	MP5B	Mx	-.015	.75
94	MP5B	X	0	4.75
95	MP5B	Z	33.524	4.75
96	MP5B	Mx	-.015	4.75
97	MP1C	X	0	.75
98	MP1C	Z	33.524	.75
99	MP1C	Mx	.015	.75
100	MP1C	X	0	4.75
101	MP1C	Z	33.524	4.75
102	MP1C	Mx	.015	4.75
103	MP5C	X	0	.75
104	MP5C	Z	33.524	.75
105	MP5C	Mx	.015	.75
106	MP5C	X	0	4.75
107	MP5C	Z	33.524	4.75
108	MP5C	Mx	.015	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.866	1.75
2	MP3A	Z	13.625	1.75
3	MP3A	Mx	.004	1.75
4	MP3A	X	-7.866	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP3A	Z	13.625	3.75
6	MP3A	Mx	.004	3.75
7	MP3B	X	-3.908	1.75
8	MP3B	Z	6.77	1.75
9	MP3B	Mx	-.004	1.75
10	MP3B	X	-3.908	3.75
11	MP3B	Z	6.77	3.75
12	MP3B	Mx	-.004	3.75
13	MP3C	X	-7.866	1.75
14	MP3C	Z	13.625	1.75
15	MP3C	Mx	.004	1.75
16	MP3C	X	-7.866	3.75
17	MP3C	Z	13.625	3.75
18	MP3C	Mx	.004	3.75
19	MP2A	X	-7.147	2.5
20	MP2A	Z	12.379	2.5
21	MP2A	Mx	-.004	2.5
22	MP2B	X	-5.378	2.5
23	MP2B	Z	9.316	2.5
24	MP2B	Mx	.005	2.5
25	MP2C	X	-7.147	2.5
26	MP2C	Z	12.379	2.5
27	MP2C	Mx	-.004	2.5
28	MP1A	X	-6.923	2.5
29	MP1A	Z	11.991	2.5
30	MP1A	Mx	-.003	2.5
31	MP1B	X	-4.483	2.5
32	MP1B	Z	7.764	2.5
33	MP1B	Mx	.004	2.5
34	MP1C	X	-6.923	2.5
35	MP1C	Z	11.991	2.5
36	MP1C	Mx	-.003	2.5
37	MP2A	X	-14.362	.75
38	MP2A	Z	24.876	.75
39	MP2A	Mx	-.007	.75
40	MP2A	X	-14.362	4.75
41	MP2A	Z	24.876	4.75
42	MP2A	Mx	-.007	4.75
43	MP2B	X	-10.734	.75
44	MP2B	Z	18.591	.75
45	MP2B	Mx	-.011	.75
46	MP2B	X	-10.734	4.75
47	MP2B	Z	18.591	4.75
48	MP2B	Mx	-.011	4.75
49	MP2C	X	-14.362	.75
50	MP2C	Z	24.876	.75
51	MP2C	Mx	.022	.75
52	MP2C	X	-14.362	4.75
53	MP2C	Z	24.876	4.75
54	MP2C	Mx	.022	4.75
55	MP2A	X	-14.362	.75
56	MP2A	Z	24.876	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
57	MP2A	Mx	.022	.75
58	MP2A	X	-14.362	4.75
59	MP2A	Z	24.876	4.75
60	MP2A	Mx	.022	4.75
61	MP2B	X	-10.734	.75
62	MP2B	Z	18.591	.75
63	MP2B	Mx	-.011	.75
64	MP2B	X	-10.734	4.75
65	MP2B	Z	18.591	4.75
66	MP2B	Mx	-.011	4.75
67	MP2C	X	-14.362	.75
68	MP2C	Z	24.876	.75
69	MP2C	Mx	-.007	.75
70	MP2C	X	-14.362	4.75
71	MP2C	Z	24.876	4.75
72	MP2C	Mx	-.007	4.75
73	MP1A	X	-17.673	.75
74	MP1A	Z	30.61	.75
75	MP1A	Mx	.009	.75
76	MP1A	X	-17.673	4.75
77	MP1A	Z	30.61	4.75
78	MP1A	Mx	.009	4.75
79	MP1B	X	-16.307	.75
80	MP1B	Z	28.244	.75
81	MP1B	Mx	-.016	.75
82	MP1B	X	-16.307	4.75
83	MP1B	Z	28.244	4.75
84	MP1B	Mx	-.016	4.75
85	MP5A	X	-17.673	.75
86	MP5A	Z	30.61	.75
87	MP5A	Mx	.009	.75
88	MP5A	X	-17.673	4.75
89	MP5A	Z	30.61	4.75
90	MP5A	Mx	.009	4.75
91	MP5B	X	-16.307	.75
92	MP5B	Z	28.244	.75
93	MP5B	Mx	-.016	.75
94	MP5B	X	-16.307	4.75
95	MP5B	Z	28.244	4.75
96	MP5B	Mx	-.016	4.75
97	MP1C	X	-17.673	.75
98	MP1C	Z	30.61	.75
99	MP1C	Mx	.009	.75
100	MP1C	X	-17.673	4.75
101	MP1C	Z	30.61	4.75
102	MP1C	Mx	.009	4.75
103	MP5C	X	-17.673	.75
104	MP5C	Z	30.61	.75
105	MP5C	Mx	.009	.75
106	MP5C	X	-17.673	4.75
107	MP5C	Z	30.61	4.75
108	MP5C	Mx	.009	4.75



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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**Member Point Loads (BLC 23 : Antenna Wi (240 Deg))**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-9.055	1.75
2	MP3A	Z	5.228	1.75
3	MP3A	Mx	.005	1.75
4	MP3A	X	-9.055	3.75
5	MP3A	Z	5.228	3.75
6	MP3A	Mx	.005	3.75
7	MP3B	X	-9.055	1.75
8	MP3B	Z	5.228	1.75
9	MP3B	Mx	-.005	1.75
10	MP3B	X	-9.055	3.75
11	MP3B	Z	5.228	3.75
12	MP3B	Mx	-.005	3.75
13	MP3C	X	-15.91	1.75
14	MP3C	Z	9.186	1.75
15	MP3C	Mx	0	1.75
16	MP3C	X	-15.91	3.75
17	MP3C	Z	9.186	3.75
18	MP3C	Mx	0	3.75
19	MP2A	X	-10.337	2.5
20	MP2A	Z	5.968	2.5
21	MP2A	Mx	-.005	2.5
22	MP2B	X	-10.337	2.5
23	MP2B	Z	5.968	2.5
24	MP2B	Mx	.005	2.5
25	MP2C	X	-13.4	2.5
26	MP2C	Z	7.736	2.5
27	MP2C	Mx	0	2.5
28	MP1A	X	-9.173	2.5
29	MP1A	Z	5.296	2.5
30	MP1A	Mx	-.005	2.5
31	MP1B	X	-9.173	2.5
32	MP1B	Z	5.296	2.5
33	MP1B	Mx	.005	2.5
34	MP1C	X	-13.4	2.5
35	MP1C	Z	7.736	2.5
36	MP1C	Mx	0	2.5
37	MP2A	X	-20.686	.75
38	MP2A	Z	11.943	.75
39	MP2A	Mx	.003	.75
40	MP2A	X	-20.686	4.75
41	MP2A	Z	11.943	4.75
42	MP2A	Mx	.003	4.75
43	MP2B	X	-20.686	.75
44	MP2B	Z	11.943	.75
45	MP2B	Mx	-.017	.75
46	MP2B	X	-20.686	4.75
47	MP2B	Z	11.943	4.75
48	MP2B	Mx	-.017	4.75
49	MP2C	X	-26.971	.75
50	MP2C	Z	15.572	.75
51	MP2C	Mx	.018	.75
52	MP2C	X	-26.971	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	15.572	4.75
54	MP2C	Mx	.018	4.75
55	MP2A	X	-20.686	.75
56	MP2A	Z	11.943	.75
57	MP2A	Mx	.017	.75
58	MP2A	X	-20.686	4.75
59	MP2A	Z	11.943	4.75
60	MP2A	Mx	.017	4.75
61	MP2B	X	-20.686	.75
62	MP2B	Z	11.943	.75
63	MP2B	Mx	-.003	.75
64	MP2B	X	-20.686	4.75
65	MP2B	Z	11.943	4.75
66	MP2B	Mx	-.003	4.75
67	MP2C	X	-26.971	.75
68	MP2C	Z	15.572	.75
69	MP2C	Mx	-.018	.75
70	MP2C	X	-26.971	4.75
71	MP2C	Z	15.572	4.75
72	MP2C	Mx	-.018	4.75
73	MP1A	X	-29.033	.75
74	MP1A	Z	16.762	.75
75	MP1A	Mx	.015	.75
76	MP1A	X	-29.033	4.75
77	MP1A	Z	16.762	4.75
78	MP1A	Mx	.015	4.75
79	MP1B	X	-29.033	.75
80	MP1B	Z	16.762	.75
81	MP1B	Mx	-.015	.75
82	MP1B	X	-29.033	4.75
83	MP1B	Z	16.762	4.75
84	MP1B	Mx	-.015	4.75
85	MP5A	X	-29.033	.75
86	MP5A	Z	16.762	.75
87	MP5A	Mx	.015	.75
88	MP5A	X	-29.033	4.75
89	MP5A	Z	16.762	4.75
90	MP5A	Mx	.015	4.75
91	MP5B	X	-29.033	.75
92	MP5B	Z	16.762	.75
93	MP5B	Mx	-.015	.75
94	MP5B	X	-29.033	4.75
95	MP5B	Z	16.762	4.75
96	MP5B	Mx	-.015	4.75
97	MP1C	X	-31.399	.75
98	MP1C	Z	18.128	.75
99	MP1C	Mx	0	.75
100	MP1C	X	-31.399	4.75
101	MP1C	Z	18.128	4.75
102	MP1C	Mx	0	4.75
103	MP5C	X	-31.399	.75
104	MP5C	Z	18.128	.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	0	.75
106	MP5C	X	-31.399	4.75
107	MP5C	Z	18.128	4.75
108	MP5C	Mx	0	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.817	1.75
2	MP3A	Z	0	1.75
3	MP3A	Mx	.004	1.75
4	MP3A	X	-7.817	3.75
5	MP3A	Z	0	3.75
6	MP3A	Mx	.004	3.75
7	MP3B	X	-15.733	1.75
8	MP3B	Z	0	1.75
9	MP3B	Mx	-.004	1.75
10	MP3B	X	-15.733	3.75
11	MP3B	Z	0	3.75
12	MP3B	Mx	-.004	3.75
13	MP3C	X	-15.733	1.75
14	MP3C	Z	0	1.75
15	MP3C	Mx	-.004	1.75
16	MP3C	X	-15.733	3.75
17	MP3C	Z	0	3.75
18	MP3C	Mx	-.004	3.75
19	MP2A	X	-10.757	2.5
20	MP2A	Z	0	2.5
21	MP2A	Mx	-.005	2.5
22	MP2B	X	-14.294	2.5
23	MP2B	Z	0	2.5
24	MP2B	Mx	.004	2.5
25	MP2C	X	-14.294	2.5
26	MP2C	Z	0	2.5
27	MP2C	Mx	.004	2.5
28	MP1A	X	-8.965	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	-.004	2.5
31	MP1B	X	-13.846	2.5
32	MP1B	Z	0	2.5
33	MP1B	Mx	.003	2.5
34	MP1C	X	-13.846	2.5
35	MP1C	Z	0	2.5
36	MP1C	Mx	.003	2.5
37	MP2A	X	-21.467	.75
38	MP2A	Z	0	.75
39	MP2A	Mx	.011	.75
40	MP2A	X	-21.467	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	.011	4.75
43	MP2B	X	-28.724	.75
44	MP2B	Z	0	.75



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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**Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	-.022	.75
46	MP2B	X	-28.724	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	-.022	4.75
49	MP2C	X	-28.724	.75
50	MP2C	Z	0	.75
51	MP2C	Mx	.007	.75
52	MP2C	X	-28.724	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	.007	4.75
55	MP2A	X	-21.467	.75
56	MP2A	Z	0	.75
57	MP2A	Mx	.011	.75
58	MP2A	X	-21.467	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	.011	4.75
61	MP2B	X	-28.724	.75
62	MP2B	Z	0	.75
63	MP2B	Mx	.007	.75
64	MP2B	X	-28.724	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	.007	4.75
67	MP2C	X	-28.724	.75
68	MP2C	Z	0	.75
69	MP2C	Mx	-.022	.75
70	MP2C	X	-28.724	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	-.022	4.75
73	MP1A	X	-32.614	.75
74	MP1A	Z	0	.75
75	MP1A	Mx	.016	.75
76	MP1A	X	-32.614	4.75
77	MP1A	Z	0	4.75
78	MP1A	Mx	.016	4.75
79	MP1B	X	-35.345	.75
80	MP1B	Z	0	.75
81	MP1B	Mx	-.009	.75
82	MP1B	X	-35.345	4.75
83	MP1B	Z	0	4.75
84	MP1B	Mx	-.009	4.75
85	MP5A	X	-32.614	.75
86	MP5A	Z	0	.75
87	MP5A	Mx	.016	.75
88	MP5A	X	-32.614	4.75
89	MP5A	Z	0	4.75
90	MP5A	Mx	.016	4.75
91	MP5B	X	-35.345	.75
92	MP5B	Z	0	.75
93	MP5B	Mx	-.009	.75
94	MP5B	X	-35.345	4.75
95	MP5B	Z	0	4.75
96	MP5B	Mx	-.009	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP1C	X	-35.345	.75
98	MP1C	Z	0	.75
99	MP1C	Mx	-.009	.75
100	MP1C	X	-35.345	4.75
101	MP1C	Z	0	4.75
102	MP1C	Mx	-.009	4.75
103	MP5C	X	-35.345	.75
104	MP5C	Z	0	.75
105	MP5C	Mx	-.009	.75
106	MP5C	X	-35.345	4.75
107	MP5C	Z	0	4.75
108	MP5C	Mx	-.009	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-9.055	1.75
2	MP3A	Z	-5.228	1.75
3	MP3A	Mx	.005	1.75
4	MP3A	X	-9.055	3.75
5	MP3A	Z	-5.228	3.75
6	MP3A	Mx	.005	3.75
7	MP3B	X	-15.91	1.75
8	MP3B	Z	-9.186	1.75
9	MP3B	Mx	0	1.75
10	MP3B	X	-15.91	3.75
11	MP3B	Z	-9.186	3.75
12	MP3B	Mx	0	3.75
13	MP3C	X	-9.055	1.75
14	MP3C	Z	-5.228	1.75
15	MP3C	Mx	-.005	1.75
16	MP3C	X	-9.055	3.75
17	MP3C	Z	-5.228	3.75
18	MP3C	Mx	-.005	3.75
19	MP2A	X	-10.337	2.5
20	MP2A	Z	-5.968	2.5
21	MP2A	Mx	-.005	2.5
22	MP2B	X	-13.4	2.5
23	MP2B	Z	-7.736	2.5
24	MP2B	Mx	0	2.5
25	MP2C	X	-10.337	2.5
26	MP2C	Z	-5.968	2.5
27	MP2C	Mx	.005	2.5
28	MP1A	X	-9.173	2.5
29	MP1A	Z	-5.296	2.5
30	MP1A	Mx	-.005	2.5
31	MP1B	X	-13.4	2.5
32	MP1B	Z	-7.736	2.5
33	MP1B	Mx	0	2.5
34	MP1C	X	-9.173	2.5
35	MP1C	Z	-5.296	2.5
36	MP1C	Mx	.005	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2A	X	-20.686	.75
38	MP2A	Z	-11.943	.75
39	MP2A	Mx	.017	.75
40	MP2A	X	-20.686	4.75
41	MP2A	Z	-11.943	4.75
42	MP2A	Mx	.017	4.75
43	MP2B	X	-26.971	.75
44	MP2B	Z	-15.572	.75
45	MP2B	Mx	-.018	.75
46	MP2B	X	-26.971	4.75
47	MP2B	Z	-15.572	4.75
48	MP2B	Mx	-.018	4.75
49	MP2C	X	-20.686	.75
50	MP2C	Z	-11.943	.75
51	MP2C	Mx	-.003	.75
52	MP2C	X	-20.686	4.75
53	MP2C	Z	-11.943	4.75
54	MP2C	Mx	-.003	4.75
55	MP2A	X	-20.686	.75
56	MP2A	Z	-11.943	.75
57	MP2A	Mx	.003	.75
58	MP2A	X	-20.686	4.75
59	MP2A	Z	-11.943	4.75
60	MP2A	Mx	.003	4.75
61	MP2B	X	-26.971	.75
62	MP2B	Z	-15.572	.75
63	MP2B	Mx	.018	.75
64	MP2B	X	-26.971	4.75
65	MP2B	Z	-15.572	4.75
66	MP2B	Mx	.018	4.75
67	MP2C	X	-20.686	.75
68	MP2C	Z	-11.943	.75
69	MP2C	Mx	-.017	.75
70	MP2C	X	-20.686	4.75
71	MP2C	Z	-11.943	4.75
72	MP2C	Mx	-.017	4.75
73	MP1A	X	-29.033	.75
74	MP1A	Z	-16.762	.75
75	MP1A	Mx	.015	.75
76	MP1A	X	-29.033	4.75
77	MP1A	Z	-16.762	4.75
78	MP1A	Mx	.015	4.75
79	MP1B	X	-31.399	.75
80	MP1B	Z	-18.128	.75
81	MP1B	Mx	0	.75
82	MP1B	X	-31.399	4.75
83	MP1B	Z	-18.128	4.75
84	MP1B	Mx	0	4.75
85	MP5A	X	-29.033	.75
86	MP5A	Z	-16.762	.75
87	MP5A	Mx	.015	.75
88	MP5A	X	-29.033	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP5A	Z	-16.762	4.75
90	MP5A	Mx	.015	4.75
91	MP5B	X	-31.399	.75
92	MP5B	Z	-18.128	.75
93	MP5B	Mx	0	.75
94	MP5B	X	-31.399	4.75
95	MP5B	Z	-18.128	4.75
96	MP5B	Mx	0	4.75
97	MP1C	X	-29.033	.75
98	MP1C	Z	-16.762	.75
99	MP1C	Mx	-.015	.75
100	MP1C	X	-29.033	4.75
101	MP1C	Z	-16.762	4.75
102	MP1C	Mx	-.015	4.75
103	MP5C	X	-29.033	.75
104	MP5C	Z	-16.762	.75
105	MP5C	Mx	-.015	.75
106	MP5C	X	-29.033	4.75
107	MP5C	Z	-16.762	4.75
108	MP5C	Mx	-.015	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.866	1.75
2	MP3A	Z	-13.625	1.75
3	MP3A	Mx	.004	1.75
4	MP3A	X	-7.866	3.75
5	MP3A	Z	-13.625	3.75
6	MP3A	Mx	.004	3.75
7	MP3B	X	-7.866	1.75
8	MP3B	Z	-13.625	1.75
9	MP3B	Mx	.004	1.75
10	MP3B	X	-7.866	3.75
11	MP3B	Z	-13.625	3.75
12	MP3B	Mx	.004	3.75
13	MP3C	X	-3.908	1.75
14	MP3C	Z	-6.77	1.75
15	MP3C	Mx	-.004	1.75
16	MP3C	X	-3.908	3.75
17	MP3C	Z	-6.77	3.75
18	MP3C	Mx	-.004	3.75
19	MP2A	X	-7.147	2.5
20	MP2A	Z	-12.379	2.5
21	MP2A	Mx	-.004	2.5
22	MP2B	X	-7.147	2.5
23	MP2B	Z	-12.379	2.5
24	MP2B	Mx	-.004	2.5
25	MP2C	X	-5.378	2.5
26	MP2C	Z	-9.316	2.5
27	MP2C	Mx	.005	2.5
28	MP1A	X	-6.923	2.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	-11.991	2.5
30	MP1A	Mx	-.003	2.5
31	MP1B	X	-6.923	2.5
32	MP1B	Z	-11.991	2.5
33	MP1B	Mx	-.003	2.5
34	MP1C	X	-4.483	2.5
35	MP1C	Z	-7.764	2.5
36	MP1C	Mx	.004	2.5
37	MP2A	X	-14.362	.75
38	MP2A	Z	-24.876	.75
39	MP2A	Mx	.022	.75
40	MP2A	X	-14.362	4.75
41	MP2A	Z	-24.876	4.75
42	MP2A	Mx	.022	4.75
43	MP2B	X	-14.362	.75
44	MP2B	Z	-24.876	.75
45	MP2B	Mx	-.007	.75
46	MP2B	X	-14.362	4.75
47	MP2B	Z	-24.876	4.75
48	MP2B	Mx	-.007	4.75
49	MP2C	X	-10.734	.75
50	MP2C	Z	-18.591	.75
51	MP2C	Mx	-.011	.75
52	MP2C	X	-10.734	4.75
53	MP2C	Z	-18.591	4.75
54	MP2C	Mx	-.011	4.75
55	MP2A	X	-14.362	.75
56	MP2A	Z	-24.876	.75
57	MP2A	Mx	-.007	.75
58	MP2A	X	-14.362	4.75
59	MP2A	Z	-24.876	4.75
60	MP2A	Mx	-.007	4.75
61	MP2B	X	-14.362	.75
62	MP2B	Z	-24.876	.75
63	MP2B	Mx	.022	.75
64	MP2B	X	-14.362	4.75
65	MP2B	Z	-24.876	4.75
66	MP2B	Mx	.022	4.75
67	MP2C	X	-10.734	.75
68	MP2C	Z	-18.591	.75
69	MP2C	Mx	-.011	.75
70	MP2C	X	-10.734	4.75
71	MP2C	Z	-18.591	4.75
72	MP2C	Mx	-.011	4.75
73	MP1A	X	-17.673	.75
74	MP1A	Z	-30.61	.75
75	MP1A	Mx	.009	.75
76	MP1A	X	-17.673	4.75
77	MP1A	Z	-30.61	4.75
78	MP1A	Mx	.009	4.75
79	MP1B	X	-17.673	.75
80	MP1B	Z	-30.61	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP1B	Mx	.009	.75
82	MP1B	X	-17.673	4.75
83	MP1B	Z	-30.61	4.75
84	MP1B	Mx	.009	4.75
85	MP5A	X	-17.673	.75
86	MP5A	Z	-30.61	.75
87	MP5A	Mx	.009	.75
88	MP5A	X	-17.673	4.75
89	MP5A	Z	-30.61	4.75
90	MP5A	Mx	.009	4.75
91	MP5B	X	-17.673	.75
92	MP5B	Z	-30.61	.75
93	MP5B	Mx	.009	.75
94	MP5B	X	-17.673	4.75
95	MP5B	Z	-30.61	4.75
96	MP5B	Mx	.009	4.75
97	MP1C	X	-16.307	.75
98	MP1C	Z	-28.244	.75
99	MP1C	Mx	-.016	.75
100	MP1C	X	-16.307	4.75
101	MP1C	Z	-28.244	4.75
102	MP1C	Mx	-.016	4.75
103	MP5C	X	-16.307	.75
104	MP5C	Z	-28.244	.75
105	MP5C	Mx	-.016	.75
106	MP5C	X	-16.307	4.75
107	MP5C	Z	-28.244	4.75
108	MP5C	Mx	-.016	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.75
2	MP3A	Z	-5.863	1.75
3	MP3A	Mx	0	1.75
4	MP3A	X	0	3.75
5	MP3A	Z	-5.863	3.75
6	MP3A	Mx	0	3.75
7	MP3B	X	0	1.75
8	MP3B	Z	-3.187	1.75
9	MP3B	Mx	.001	1.75
10	MP3B	X	0	3.75
11	MP3B	Z	-3.187	3.75
12	MP3B	Mx	.001	3.75
13	MP3C	X	0	1.75
14	MP3C	Z	-3.187	1.75
15	MP3C	Mx	-.001	1.75
16	MP3C	X	0	3.75
17	MP3C	Z	-3.187	3.75
18	MP3C	Mx	-.001	3.75
19	MP2A	X	0	2.5
20	MP2A	Z	-4.666	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	0	2.5
22	MP2B	X	0	2.5
23	MP2B	Z	-3.506	2.5
24	MP2B	Mx	-.002	2.5
25	MP2C	X	0	2.5
26	MP2C	Z	-3.506	2.5
27	MP2C	Mx	.002	2.5
28	MP1A	X	0	2.5
29	MP1A	Z	-4.666	2.5
30	MP1A	Mx	0	2.5
31	MP1B	X	0	2.5
32	MP1B	Z	-3.061	2.5
33	MP1B	Mx	-.001	2.5
34	MP1C	X	0	2.5
35	MP1C	Z	-3.061	2.5
36	MP1C	Mx	.001	2.5
37	MP2A	X	0	.75
38	MP2A	Z	-10.18	.75
39	MP2A	Mx	.006	.75
40	MP2A	X	0	4.75
41	MP2A	Z	-10.18	4.75
42	MP2A	Mx	.006	4.75
43	MP2B	X	0	.75
44	MP2B	Z	-7.594	.75
45	MP2B	Mx	.001	.75
46	MP2B	X	0	4.75
47	MP2B	Z	-7.594	4.75
48	MP2B	Mx	.001	4.75
49	MP2C	X	0	.75
50	MP2C	Z	-7.594	.75
51	MP2C	Mx	-.006	.75
52	MP2C	X	0	4.75
53	MP2C	Z	-7.594	4.75
54	MP2C	Mx	-.006	4.75
55	MP2A	X	0	.75
56	MP2A	Z	-10.18	.75
57	MP2A	Mx	-.006	.75
58	MP2A	X	0	4.75
59	MP2A	Z	-10.18	4.75
60	MP2A	Mx	-.006	4.75
61	MP2B	X	0	.75
62	MP2B	Z	-7.594	.75
63	MP2B	Mx	.006	.75
64	MP2B	X	0	4.75
65	MP2B	Z	-7.594	4.75
66	MP2B	Mx	.006	4.75
67	MP2C	X	0	.75
68	MP2C	Z	-7.594	.75
69	MP2C	Mx	-.001	.75
70	MP2C	X	0	4.75
71	MP2C	Z	-7.594	4.75
72	MP2C	Mx	-.001	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP1A	X	0	.75
74	MP1A	Z	-11.976	.75
75	MP1A	Mx	0	.75
76	MP1A	X	0	4.75
77	MP1A	Z	-11.976	4.75
78	MP1A	Mx	0	4.75
79	MP1B	X	0	.75
80	MP1B	Z	-11.017	.75
81	MP1B	Mx	.005	.75
82	MP1B	X	0	4.75
83	MP1B	Z	-11.017	4.75
84	MP1B	Mx	.005	4.75
85	MP5A	X	0	.75
86	MP5A	Z	-11.976	.75
87	MP5A	Mx	0	.75
88	MP5A	X	0	4.75
89	MP5A	Z	-11.976	4.75
90	MP5A	Mx	0	4.75
91	MP5B	X	0	.75
92	MP5B	Z	-11.017	.75
93	MP5B	Mx	.005	.75
94	MP5B	X	0	4.75
95	MP5B	Z	-11.017	4.75
96	MP5B	Mx	.005	4.75
97	MP1C	X	0	.75
98	MP1C	Z	-11.017	.75
99	MP1C	Mx	-.005	.75
100	MP1C	X	0	4.75
101	MP1C	Z	-11.017	4.75
102	MP1C	Mx	-.005	4.75
103	MP5C	X	0	.75
104	MP5C	Z	-11.017	.75
105	MP5C	Mx	-.005	.75
106	MP5C	X	0	4.75
107	MP5C	Z	-11.017	4.75
108	MP5C	Mx	-.005	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.486	1.75
2	MP3A	Z	-4.305	1.75
3	MP3A	Mx	-.001	1.75
4	MP3A	X	2.486	3.75
5	MP3A	Z	-4.305	3.75
6	MP3A	Mx	-.001	3.75
7	MP3B	X	1.148	1.75
8	MP3B	Z	-1.988	1.75
9	MP3B	Mx	.001	1.75
10	MP3B	X	1.148	3.75
11	MP3B	Z	-1.988	3.75
12	MP3B	Mx	.001	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3C	X	2.486	1.75
14	MP3C	Z	-4.305	1.75
15	MP3C	Mx	-.001	1.75
16	MP3C	X	2.486	3.75
17	MP3C	Z	-4.305	3.75
18	MP3C	Mx	-.001	3.75
19	MP2A	X	2.14	2.5
20	MP2A	Z	-3.706	2.5
21	MP2A	Mx	.001	2.5
22	MP2B	X	1.559	2.5
23	MP2B	Z	-2.701	2.5
24	MP2B	Mx	-.002	2.5
25	MP2C	X	2.14	2.5
26	MP2C	Z	-3.706	2.5
27	MP2C	Mx	.001	2.5
28	MP1A	X	2.065	2.5
29	MP1A	Z	-3.577	2.5
30	MP1A	Mx	.001	2.5
31	MP1B	X	1.263	2.5
32	MP1B	Z	-2.188	2.5
33	MP1B	Mx	-.001	2.5
34	MP1C	X	2.065	2.5
35	MP1C	Z	-3.577	2.5
36	MP1C	Mx	.001	2.5
37	MP2A	X	4.659	.75
38	MP2A	Z	-8.07	.75
39	MP2A	Mx	.002	.75
40	MP2A	X	4.659	4.75
41	MP2A	Z	-8.07	4.75
42	MP2A	Mx	.002	4.75
43	MP2B	X	3.366	.75
44	MP2B	Z	-5.83	.75
45	MP2B	Mx	.003	.75
46	MP2B	X	3.366	4.75
47	MP2B	Z	-5.83	4.75
48	MP2B	Mx	.003	4.75
49	MP2C	X	4.659	.75
50	MP2C	Z	-8.07	.75
51	MP2C	Mx	-.007	.75
52	MP2C	X	4.659	4.75
53	MP2C	Z	-8.07	4.75
54	MP2C	Mx	-.007	4.75
55	MP2A	X	4.659	.75
56	MP2A	Z	-8.07	.75
57	MP2A	Mx	-.007	.75
58	MP2A	X	4.659	4.75
59	MP2A	Z	-8.07	4.75
60	MP2A	Mx	-.007	4.75
61	MP2B	X	3.366	.75
62	MP2B	Z	-5.83	.75
63	MP2B	Mx	.003	.75
64	MP2B	X	3.366	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	-5.83	4.75
66	MP2B	Mx	.003	4.75
67	MP2C	X	4.659	.75
68	MP2C	Z	-8.07	.75
69	MP2C	Mx	.002	.75
70	MP2C	X	4.659	4.75
71	MP2C	Z	-8.07	4.75
72	MP2C	Mx	.002	4.75
73	MP1A	X	5.828	.75
74	MP1A	Z	-10.095	.75
75	MP1A	Mx	-.003	.75
76	MP1A	X	5.828	4.75
77	MP1A	Z	-10.095	4.75
78	MP1A	Mx	-.003	4.75
79	MP1B	X	5.349	.75
80	MP1B	Z	-9.264	.75
81	MP1B	Mx	.005	.75
82	MP1B	X	5.349	4.75
83	MP1B	Z	-9.264	4.75
84	MP1B	Mx	.005	4.75
85	MP5A	X	5.828	.75
86	MP5A	Z	-10.095	.75
87	MP5A	Mx	-.003	.75
88	MP5A	X	5.828	4.75
89	MP5A	Z	-10.095	4.75
90	MP5A	Mx	-.003	4.75
91	MP5B	X	5.349	.75
92	MP5B	Z	-9.264	.75
93	MP5B	Mx	.005	.75
94	MP5B	X	5.349	4.75
95	MP5B	Z	-9.264	4.75
96	MP5B	Mx	.005	4.75
97	MP1C	X	5.828	.75
98	MP1C	Z	-10.095	.75
99	MP1C	Mx	-.003	.75
100	MP1C	X	5.828	4.75
101	MP1C	Z	-10.095	4.75
102	MP1C	Mx	-.003	4.75
103	MP5C	X	5.828	.75
104	MP5C	Z	-10.095	.75
105	MP5C	Mx	-.003	.75
106	MP5C	X	5.828	4.75
107	MP5C	Z	-10.095	4.75
108	MP5C	Mx	-.003	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.76	1.75
2	MP3A	Z	-1.594	1.75
3	MP3A	Mx	-.001	1.75
4	MP3A	X	2.76	3.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP3A	Z	-1.594	3.75
6	MP3A	Mx	-.001	3.75
7	MP3B	X	2.76	1.75
8	MP3B	Z	-1.594	1.75
9	MP3B	Mx	.001	1.75
10	MP3B	X	2.76	3.75
11	MP3B	Z	-1.594	3.75
12	MP3B	Mx	.001	3.75
13	MP3C	X	5.078	1.75
14	MP3C	Z	-2.932	1.75
15	MP3C	Mx	0	1.75
16	MP3C	X	5.078	3.75
17	MP3C	Z	-2.932	3.75
18	MP3C	Mx	0	3.75
19	MP2A	X	3.036	2.5
20	MP2A	Z	-1.753	2.5
21	MP2A	Mx	.002	2.5
22	MP2B	X	3.036	2.5
23	MP2B	Z	-1.753	2.5
24	MP2B	Mx	-.002	2.5
25	MP2C	X	4.041	2.5
26	MP2C	Z	-2.333	2.5
27	MP2C	Mx	0	2.5
28	MP1A	X	2.651	2.5
29	MP1A	Z	-1.531	2.5
30	MP1A	Mx	.001	2.5
31	MP1B	X	2.651	2.5
32	MP1B	Z	-1.531	2.5
33	MP1B	Mx	-.001	2.5
34	MP1C	X	4.041	2.5
35	MP1C	Z	-2.333	2.5
36	MP1C	Mx	0	2.5
37	MP2A	X	6.577	.75
38	MP2A	Z	-3.797	.75
39	MP2A	Mx	-.001	.75
40	MP2A	X	6.577	4.75
41	MP2A	Z	-3.797	4.75
42	MP2A	Mx	-.001	4.75
43	MP2B	X	6.577	.75
44	MP2B	Z	-3.797	.75
45	MP2B	Mx	.006	.75
46	MP2B	X	6.577	4.75
47	MP2B	Z	-3.797	4.75
48	MP2B	Mx	.006	4.75
49	MP2C	X	8.816	.75
50	MP2C	Z	-5.09	.75
51	MP2C	Mx	-.006	.75
52	MP2C	X	8.816	4.75
53	MP2C	Z	-5.09	4.75
54	MP2C	Mx	-.006	4.75
55	MP2A	X	6.577	.75
56	MP2A	Z	-3.797	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
57	MP2A	Mx	-.006	.75
58	MP2A	X	6.577	4.75
59	MP2A	Z	-3.797	4.75
60	MP2A	Mx	-.006	4.75
61	MP2B	X	6.577	.75
62	MP2B	Z	-3.797	.75
63	MP2B	Mx	.001	.75
64	MP2B	X	6.577	4.75
65	MP2B	Z	-3.797	4.75
66	MP2B	Mx	.001	4.75
67	MP2C	X	8.816	.75
68	MP2C	Z	-5.09	.75
69	MP2C	Mx	.006	.75
70	MP2C	X	8.816	4.75
71	MP2C	Z	-5.09	4.75
72	MP2C	Mx	.006	4.75
73	MP1A	X	9.541	.75
74	MP1A	Z	-5.509	.75
75	MP1A	Mx	-.005	.75
76	MP1A	X	9.541	4.75
77	MP1A	Z	-5.509	4.75
78	MP1A	Mx	-.005	4.75
79	MP1B	X	9.541	.75
80	MP1B	Z	-5.509	.75
81	MP1B	Mx	.005	.75
82	MP1B	X	9.541	4.75
83	MP1B	Z	-5.509	4.75
84	MP1B	Mx	.005	4.75
85	MP5A	X	9.541	.75
86	MP5A	Z	-5.509	.75
87	MP5A	Mx	-.005	.75
88	MP5A	X	9.541	4.75
89	MP5A	Z	-5.509	4.75
90	MP5A	Mx	-.005	4.75
91	MP5B	X	9.541	.75
92	MP5B	Z	-5.509	.75
93	MP5B	Mx	.005	.75
94	MP5B	X	9.541	4.75
95	MP5B	Z	-5.509	4.75
96	MP5B	Mx	.005	4.75
97	MP1C	X	10.372	.75
98	MP1C	Z	-5.988	.75
99	MP1C	Mx	0	.75
100	MP1C	X	10.372	4.75
101	MP1C	Z	-5.988	4.75
102	MP1C	Mx	0	4.75
103	MP5C	X	10.372	.75
104	MP5C	Z	-5.988	.75
105	MP5C	Mx	0	.75
106	MP5C	X	10.372	4.75
107	MP5C	Z	-5.988	4.75
108	MP5C	Mx	0	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.296	1.75
2	MP3A	Z	0	1.75
3	MP3A	Mx	-.001	1.75
4	MP3A	X	2.296	3.75
5	MP3A	Z	0	3.75
6	MP3A	Mx	-.001	3.75
7	MP3B	X	4.971	1.75
8	MP3B	Z	0	1.75
9	MP3B	Mx	.001	1.75
10	MP3B	X	4.971	3.75
11	MP3B	Z	0	3.75
12	MP3B	Mx	.001	3.75
13	MP3C	X	4.971	1.75
14	MP3C	Z	0	1.75
15	MP3C	Mx	.001	1.75
16	MP3C	X	4.971	3.75
17	MP3C	Z	0	3.75
18	MP3C	Mx	.001	3.75
19	MP2A	X	3.119	2.5
20	MP2A	Z	0	2.5
21	MP2A	Mx	.002	2.5
22	MP2B	X	4.279	2.5
23	MP2B	Z	0	2.5
24	MP2B	Mx	-.001	2.5
25	MP2C	X	4.279	2.5
26	MP2C	Z	0	2.5
27	MP2C	Mx	-.001	2.5
28	MP1A	X	2.526	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	.001	2.5
31	MP1B	X	4.131	2.5
32	MP1B	Z	0	2.5
33	MP1B	Mx	-.001	2.5
34	MP1C	X	4.131	2.5
35	MP1C	Z	0	2.5
36	MP1C	Mx	-.001	2.5
37	MP2A	X	6.732	.75
38	MP2A	Z	0	.75
39	MP2A	Mx	-.003	.75
40	MP2A	X	6.732	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	-.003	4.75
43	MP2B	X	9.318	.75
44	MP2B	Z	0	.75
45	MP2B	Mx	.007	.75
46	MP2B	X	9.318	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.007	4.75
49	MP2C	X	9.318	.75
50	MP2C	Z	0	.75
51	MP2C	Mx	-.002	.75
52	MP2C	X	9.318	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.002	4.75
55	MP2A	X	6.732	.75
56	MP2A	Z	0	.75
57	MP2A	Mx	-.003	.75
58	MP2A	X	6.732	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	-.003	4.75
61	MP2B	X	9.318	.75
62	MP2B	Z	0	.75
63	MP2B	Mx	-.002	.75
64	MP2B	X	9.318	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	-.002	4.75
67	MP2C	X	9.318	.75
68	MP2C	Z	0	.75
69	MP2C	Mx	.007	.75
70	MP2C	X	9.318	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	.007	4.75
73	MP1A	X	10.697	.75
74	MP1A	Z	0	.75
75	MP1A	Mx	-.005	.75
76	MP1A	X	10.697	4.75
77	MP1A	Z	0	4.75
78	MP1A	Mx	-.005	4.75
79	MP1B	X	11.657	.75
80	MP1B	Z	0	.75
81	MP1B	Mx	.003	.75
82	MP1B	X	11.657	4.75
83	MP1B	Z	0	4.75
84	MP1B	Mx	.003	4.75
85	MP5A	X	10.697	.75
86	MP5A	Z	0	.75
87	MP5A	Mx	-.005	.75
88	MP5A	X	10.697	4.75
89	MP5A	Z	0	4.75
90	MP5A	Mx	-.005	4.75
91	MP5B	X	11.657	.75
92	MP5B	Z	0	.75
93	MP5B	Mx	.003	.75
94	MP5B	X	11.657	4.75
95	MP5B	Z	0	4.75
96	MP5B	Mx	.003	4.75
97	MP1C	X	11.657	.75
98	MP1C	Z	0	.75
99	MP1C	Mx	.003	.75
100	MP1C	X	11.657	4.75
101	MP1C	Z	0	4.75
102	MP1C	Mx	.003	4.75
103	MP5C	X	11.657	.75
104	MP5C	Z	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	.003	.75
106	MP5C	X	11.657	4.75
107	MP5C	Z	0	4.75
108	MP5C	Mx	.003	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.76	1.75
2	MP3A	Z	1.594	1.75
3	MP3A	Mx	-.001	1.75
4	MP3A	X	2.76	3.75
5	MP3A	Z	1.594	3.75
6	MP3A	Mx	-.001	3.75
7	MP3B	X	5.078	1.75
8	MP3B	Z	2.932	1.75
9	MP3B	Mx	0	1.75
10	MP3B	X	5.078	3.75
11	MP3B	Z	2.932	3.75
12	MP3B	Mx	0	3.75
13	MP3C	X	2.76	1.75
14	MP3C	Z	1.594	1.75
15	MP3C	Mx	.001	1.75
16	MP3C	X	2.76	3.75
17	MP3C	Z	1.594	3.75
18	MP3C	Mx	.001	3.75
19	MP2A	X	3.036	2.5
20	MP2A	Z	1.753	2.5
21	MP2A	Mx	.002	2.5
22	MP2B	X	4.041	2.5
23	MP2B	Z	2.333	2.5
24	MP2B	Mx	0	2.5
25	MP2C	X	3.036	2.5
26	MP2C	Z	1.753	2.5
27	MP2C	Mx	-.002	2.5
28	MP1A	X	2.651	2.5
29	MP1A	Z	1.531	2.5
30	MP1A	Mx	.001	2.5
31	MP1B	X	4.041	2.5
32	MP1B	Z	2.333	2.5
33	MP1B	Mx	0	2.5
34	MP1C	X	2.651	2.5
35	MP1C	Z	1.531	2.5
36	MP1C	Mx	-.001	2.5
37	MP2A	X	6.577	.75
38	MP2A	Z	3.797	.75
39	MP2A	Mx	-.006	.75
40	MP2A	X	6.577	4.75
41	MP2A	Z	3.797	4.75
42	MP2A	Mx	-.006	4.75
43	MP2B	X	8.816	.75
44	MP2B	Z	5.09	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	.006	.75
46	MP2B	X	8.816	4.75
47	MP2B	Z	5.09	4.75
48	MP2B	Mx	.006	4.75
49	MP2C	X	6.577	.75
50	MP2C	Z	3.797	.75
51	MP2C	Mx	.001	.75
52	MP2C	X	6.577	4.75
53	MP2C	Z	3.797	4.75
54	MP2C	Mx	.001	4.75
55	MP2A	X	6.577	.75
56	MP2A	Z	3.797	.75
57	MP2A	Mx	-.001	.75
58	MP2A	X	6.577	4.75
59	MP2A	Z	3.797	4.75
60	MP2A	Mx	-.001	4.75
61	MP2B	X	8.816	.75
62	MP2B	Z	5.09	.75
63	MP2B	Mx	-.006	.75
64	MP2B	X	8.816	4.75
65	MP2B	Z	5.09	4.75
66	MP2B	Mx	-.006	4.75
67	MP2C	X	6.577	.75
68	MP2C	Z	3.797	.75
69	MP2C	Mx	.006	.75
70	MP2C	X	6.577	4.75
71	MP2C	Z	3.797	4.75
72	MP2C	Mx	.006	4.75
73	MP1A	X	9.541	.75
74	MP1A	Z	5.509	.75
75	MP1A	Mx	-.005	.75
76	MP1A	X	9.541	4.75
77	MP1A	Z	5.509	4.75
78	MP1A	Mx	-.005	4.75
79	MP1B	X	10.372	.75
80	MP1B	Z	5.988	.75
81	MP1B	Mx	0	.75
82	MP1B	X	10.372	4.75
83	MP1B	Z	5.988	4.75
84	MP1B	Mx	0	4.75
85	MP5A	X	9.541	.75
86	MP5A	Z	5.509	.75
87	MP5A	Mx	-.005	.75
88	MP5A	X	9.541	4.75
89	MP5A	Z	5.509	4.75
90	MP5A	Mx	-.005	4.75
91	MP5B	X	10.372	.75
92	MP5B	Z	5.988	.75
93	MP5B	Mx	0	.75
94	MP5B	X	10.372	4.75
95	MP5B	Z	5.988	4.75
96	MP5B	Mx	0	4.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP1C	X	9.541	.75
98	MP1C	Z	5.509	.75
99	MP1C	Mx	.005	.75
100	MP1C	X	9.541	4.75
101	MP1C	Z	5.509	4.75
102	MP1C	Mx	.005	4.75
103	MP5C	X	9.541	.75
104	MP5C	Z	5.509	.75
105	MP5C	Mx	.005	.75
106	MP5C	X	9.541	4.75
107	MP5C	Z	5.509	4.75
108	MP5C	Mx	.005	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.486	1.75
2	MP3A	Z	4.305	1.75
3	MP3A	Mx	-.001	1.75
4	MP3A	X	2.486	3.75
5	MP3A	Z	4.305	3.75
6	MP3A	Mx	-.001	3.75
7	MP3B	X	2.486	1.75
8	MP3B	Z	4.305	1.75
9	MP3B	Mx	-.001	1.75
10	MP3B	X	2.486	3.75
11	MP3B	Z	4.305	3.75
12	MP3B	Mx	-.001	3.75
13	MP3C	X	1.148	1.75
14	MP3C	Z	1.988	1.75
15	MP3C	Mx	.001	1.75
16	MP3C	X	1.148	3.75
17	MP3C	Z	1.988	3.75
18	MP3C	Mx	.001	3.75
19	MP2A	X	2.14	2.5
20	MP2A	Z	3.706	2.5
21	MP2A	Mx	.001	2.5
22	MP2B	X	2.14	2.5
23	MP2B	Z	3.706	2.5
24	MP2B	Mx	.001	2.5
25	MP2C	X	1.559	2.5
26	MP2C	Z	2.701	2.5
27	MP2C	Mx	-.002	2.5
28	MP1A	X	2.065	2.5
29	MP1A	Z	3.577	2.5
30	MP1A	Mx	.001	2.5
31	MP1B	X	2.065	2.5
32	MP1B	Z	3.577	2.5
33	MP1B	Mx	.001	2.5
34	MP1C	X	1.263	2.5
35	MP1C	Z	2.188	2.5
36	MP1C	Mx	-.001	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2A	X	4.659	.75
38	MP2A	Z	8.07	.75
39	MP2A	Mx	-.007	.75
40	MP2A	X	4.659	4.75
41	MP2A	Z	8.07	4.75
42	MP2A	Mx	-.007	4.75
43	MP2B	X	4.659	.75
44	MP2B	Z	8.07	.75
45	MP2B	Mx	.002	.75
46	MP2B	X	4.659	4.75
47	MP2B	Z	8.07	4.75
48	MP2B	Mx	.002	4.75
49	MP2C	X	3.366	.75
50	MP2C	Z	5.83	.75
51	MP2C	Mx	.003	.75
52	MP2C	X	3.366	4.75
53	MP2C	Z	5.83	4.75
54	MP2C	Mx	.003	4.75
55	MP2A	X	4.659	.75
56	MP2A	Z	8.07	.75
57	MP2A	Mx	.002	.75
58	MP2A	X	4.659	4.75
59	MP2A	Z	8.07	4.75
60	MP2A	Mx	.002	4.75
61	MP2B	X	4.659	.75
62	MP2B	Z	8.07	.75
63	MP2B	Mx	-.007	.75
64	MP2B	X	4.659	4.75
65	MP2B	Z	8.07	4.75
66	MP2B	Mx	-.007	4.75
67	MP2C	X	3.366	.75
68	MP2C	Z	5.83	.75
69	MP2C	Mx	.003	.75
70	MP2C	X	3.366	4.75
71	MP2C	Z	5.83	4.75
72	MP2C	Mx	.003	4.75
73	MP1A	X	5.828	.75
74	MP1A	Z	10.095	.75
75	MP1A	Mx	-.003	.75
76	MP1A	X	5.828	4.75
77	MP1A	Z	10.095	4.75
78	MP1A	Mx	-.003	4.75
79	MP1B	X	5.828	.75
80	MP1B	Z	10.095	.75
81	MP1B	Mx	-.003	.75
82	MP1B	X	5.828	4.75
83	MP1B	Z	10.095	4.75
84	MP1B	Mx	-.003	4.75
85	MP5A	X	5.828	.75
86	MP5A	Z	10.095	.75
87	MP5A	Mx	-.003	.75
88	MP5A	X	5.828	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP5A	Z	10.095	4.75
90	MP5A	Mx	-.003	4.75
91	MP5B	X	5.828	.75
92	MP5B	Z	10.095	.75
93	MP5B	Mx	-.003	.75
94	MP5B	X	5.828	4.75
95	MP5B	Z	10.095	4.75
96	MP5B	Mx	-.003	4.75
97	MP1C	X	5.349	.75
98	MP1C	Z	9.264	.75
99	MP1C	Mx	.005	.75
100	MP1C	X	5.349	4.75
101	MP1C	Z	9.264	4.75
102	MP1C	Mx	.005	4.75
103	MP5C	X	5.349	.75
104	MP5C	Z	9.264	.75
105	MP5C	Mx	.005	.75
106	MP5C	X	5.349	4.75
107	MP5C	Z	9.264	4.75
108	MP5C	Mx	.005	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.75
2	MP3A	Z	5.863	1.75
3	MP3A	Mx	0	1.75
4	MP3A	X	0	3.75
5	MP3A	Z	5.863	3.75
6	MP3A	Mx	0	3.75
7	MP3B	X	0	1.75
8	MP3B	Z	3.187	1.75
9	MP3B	Mx	-.001	1.75
10	MP3B	X	0	3.75
11	MP3B	Z	3.187	3.75
12	MP3B	Mx	-.001	3.75
13	MP3C	X	0	1.75
14	MP3C	Z	3.187	1.75
15	MP3C	Mx	.001	1.75
16	MP3C	X	0	3.75
17	MP3C	Z	3.187	3.75
18	MP3C	Mx	.001	3.75
19	MP2A	X	0	2.5
20	MP2A	Z	4.666	2.5
21	MP2A	Mx	0	2.5
22	MP2B	X	0	2.5
23	MP2B	Z	3.506	2.5
24	MP2B	Mx	.002	2.5
25	MP2C	X	0	2.5
26	MP2C	Z	3.506	2.5
27	MP2C	Mx	-.002	2.5
28	MP1A	X	0	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	4.666	2.5
30	MP1A	Mx	0	2.5
31	MP1B	X	0	2.5
32	MP1B	Z	3.061	2.5
33	MP1B	Mx	.001	2.5
34	MP1C	X	0	2.5
35	MP1C	Z	3.061	2.5
36	MP1C	Mx	-.001	2.5
37	MP2A	X	0	.75
38	MP2A	Z	10.18	.75
39	MP2A	Mx	-.006	.75
40	MP2A	X	0	4.75
41	MP2A	Z	10.18	4.75
42	MP2A	Mx	-.006	4.75
43	MP2B	X	0	.75
44	MP2B	Z	7.594	.75
45	MP2B	Mx	-.001	.75
46	MP2B	X	0	4.75
47	MP2B	Z	7.594	4.75
48	MP2B	Mx	-.001	4.75
49	MP2C	X	0	.75
50	MP2C	Z	7.594	.75
51	MP2C	Mx	.006	.75
52	MP2C	X	0	4.75
53	MP2C	Z	7.594	4.75
54	MP2C	Mx	.006	4.75
55	MP2A	X	0	.75
56	MP2A	Z	10.18	.75
57	MP2A	Mx	.006	.75
58	MP2A	X	0	4.75
59	MP2A	Z	10.18	4.75
60	MP2A	Mx	.006	4.75
61	MP2B	X	0	.75
62	MP2B	Z	7.594	.75
63	MP2B	Mx	-.006	.75
64	MP2B	X	0	4.75
65	MP2B	Z	7.594	4.75
66	MP2B	Mx	-.006	4.75
67	MP2C	X	0	.75
68	MP2C	Z	7.594	.75
69	MP2C	Mx	.001	.75
70	MP2C	X	0	4.75
71	MP2C	Z	7.594	4.75
72	MP2C	Mx	.001	4.75
73	MP1A	X	0	.75
74	MP1A	Z	11.976	.75
75	MP1A	Mx	0	.75
76	MP1A	X	0	4.75
77	MP1A	Z	11.976	4.75
78	MP1A	Mx	0	4.75
79	MP1B	X	0	.75
80	MP1B	Z	11.017	.75





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 Designer : AJH  
 Job Number : Project No. 10037788  
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**Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	-.001	2.5
22	MP2B	X	-1.559	2.5
23	MP2B	Z	2.701	2.5
24	MP2B	Mx	.002	2.5
25	MP2C	X	-2.14	2.5
26	MP2C	Z	3.706	2.5
27	MP2C	Mx	-.001	2.5
28	MP1A	X	-2.065	2.5
29	MP1A	Z	3.577	2.5
30	MP1A	Mx	-.001	2.5
31	MP1B	X	-1.263	2.5
32	MP1B	Z	2.188	2.5
33	MP1B	Mx	.001	2.5
34	MP1C	X	-2.065	2.5
35	MP1C	Z	3.577	2.5
36	MP1C	Mx	-.001	2.5
37	MP2A	X	-4.659	.75
38	MP2A	Z	8.07	.75
39	MP2A	Mx	-.002	.75
40	MP2A	X	-4.659	4.75
41	MP2A	Z	8.07	4.75
42	MP2A	Mx	-.002	4.75
43	MP2B	X	-3.366	.75
44	MP2B	Z	5.83	.75
45	MP2B	Mx	-.003	.75
46	MP2B	X	-3.366	4.75
47	MP2B	Z	5.83	4.75
48	MP2B	Mx	-.003	4.75
49	MP2C	X	-4.659	.75
50	MP2C	Z	8.07	.75
51	MP2C	Mx	.007	.75
52	MP2C	X	-4.659	4.75
53	MP2C	Z	8.07	4.75
54	MP2C	Mx	.007	4.75
55	MP2A	X	-4.659	.75
56	MP2A	Z	8.07	.75
57	MP2A	Mx	.007	.75
58	MP2A	X	-4.659	4.75
59	MP2A	Z	8.07	4.75
60	MP2A	Mx	.007	4.75
61	MP2B	X	-3.366	.75
62	MP2B	Z	5.83	.75
63	MP2B	Mx	-.003	.75
64	MP2B	X	-3.366	4.75
65	MP2B	Z	5.83	4.75
66	MP2B	Mx	-.003	4.75
67	MP2C	X	-4.659	.75
68	MP2C	Z	8.07	.75
69	MP2C	Mx	-.002	.75
70	MP2C	X	-4.659	4.75
71	MP2C	Z	8.07	4.75
72	MP2C	Mx	-.002	4.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP1A	X	-5.828	.75
74	MP1A	Z	10.095	.75
75	MP1A	Mx	.003	.75
76	MP1A	X	-5.828	4.75
77	MP1A	Z	10.095	4.75
78	MP1A	Mx	.003	4.75
79	MP1B	X	-5.349	.75
80	MP1B	Z	9.264	.75
81	MP1B	Mx	-.005	.75
82	MP1B	X	-5.349	4.75
83	MP1B	Z	9.264	4.75
84	MP1B	Mx	-.005	4.75
85	MP5A	X	-5.828	.75
86	MP5A	Z	10.095	.75
87	MP5A	Mx	.003	.75
88	MP5A	X	-5.828	4.75
89	MP5A	Z	10.095	4.75
90	MP5A	Mx	.003	4.75
91	MP5B	X	-5.349	.75
92	MP5B	Z	9.264	.75
93	MP5B	Mx	-.005	.75
94	MP5B	X	-5.349	4.75
95	MP5B	Z	9.264	4.75
96	MP5B	Mx	-.005	4.75
97	MP1C	X	-5.828	.75
98	MP1C	Z	10.095	.75
99	MP1C	Mx	.003	.75
100	MP1C	X	-5.828	4.75
101	MP1C	Z	10.095	4.75
102	MP1C	Mx	.003	4.75
103	MP5C	X	-5.828	.75
104	MP5C	Z	10.095	.75
105	MP5C	Mx	.003	.75
106	MP5C	X	-5.828	4.75
107	MP5C	Z	10.095	4.75
108	MP5C	Mx	.003	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.76	1.75
2	MP3A	Z	1.594	1.75
3	MP3A	Mx	.001	1.75
4	MP3A	X	-2.76	3.75
5	MP3A	Z	1.594	3.75
6	MP3A	Mx	.001	3.75
7	MP3B	X	-2.76	1.75
8	MP3B	Z	1.594	1.75
9	MP3B	Mx	-.001	1.75
10	MP3B	X	-2.76	3.75
11	MP3B	Z	1.594	3.75
12	MP3B	Mx	-.001	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3C	X	-5.078	1.75
14	MP3C	Z	2.932	1.75
15	MP3C	Mx	0	1.75
16	MP3C	X	-5.078	3.75
17	MP3C	Z	2.932	3.75
18	MP3C	Mx	0	3.75
19	MP2A	X	-3.036	2.5
20	MP2A	Z	1.753	2.5
21	MP2A	Mx	-.002	2.5
22	MP2B	X	-3.036	2.5
23	MP2B	Z	1.753	2.5
24	MP2B	Mx	.002	2.5
25	MP2C	X	-4.041	2.5
26	MP2C	Z	2.333	2.5
27	MP2C	Mx	0	2.5
28	MP1A	X	-2.651	2.5
29	MP1A	Z	1.531	2.5
30	MP1A	Mx	-.001	2.5
31	MP1B	X	-2.651	2.5
32	MP1B	Z	1.531	2.5
33	MP1B	Mx	.001	2.5
34	MP1C	X	-4.041	2.5
35	MP1C	Z	2.333	2.5
36	MP1C	Mx	0	2.5
37	MP2A	X	-6.577	.75
38	MP2A	Z	3.797	.75
39	MP2A	Mx	.001	.75
40	MP2A	X	-6.577	4.75
41	MP2A	Z	3.797	4.75
42	MP2A	Mx	.001	4.75
43	MP2B	X	-6.577	.75
44	MP2B	Z	3.797	.75
45	MP2B	Mx	-.006	.75
46	MP2B	X	-6.577	4.75
47	MP2B	Z	3.797	4.75
48	MP2B	Mx	-.006	4.75
49	MP2C	X	-8.816	.75
50	MP2C	Z	5.09	.75
51	MP2C	Mx	.006	.75
52	MP2C	X	-8.816	4.75
53	MP2C	Z	5.09	4.75
54	MP2C	Mx	.006	4.75
55	MP2A	X	-6.577	.75
56	MP2A	Z	3.797	.75
57	MP2A	Mx	.006	.75
58	MP2A	X	-6.577	4.75
59	MP2A	Z	3.797	4.75
60	MP2A	Mx	.006	4.75
61	MP2B	X	-6.577	.75
62	MP2B	Z	3.797	.75
63	MP2B	Mx	-.001	.75
64	MP2B	X	-6.577	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	3.797	4.75
66	MP2B	Mx	-.001	4.75
67	MP2C	X	-8.816	.75
68	MP2C	Z	5.09	.75
69	MP2C	Mx	-.006	.75
70	MP2C	X	-8.816	4.75
71	MP2C	Z	5.09	4.75
72	MP2C	Mx	-.006	4.75
73	MP1A	X	-9.541	.75
74	MP1A	Z	5.509	.75
75	MP1A	Mx	.005	.75
76	MP1A	X	-9.541	4.75
77	MP1A	Z	5.509	4.75
78	MP1A	Mx	.005	4.75
79	MP1B	X	-9.541	.75
80	MP1B	Z	5.509	.75
81	MP1B	Mx	-.005	.75
82	MP1B	X	-9.541	4.75
83	MP1B	Z	5.509	4.75
84	MP1B	Mx	-.005	4.75
85	MP5A	X	-9.541	.75
86	MP5A	Z	5.509	.75
87	MP5A	Mx	.005	.75
88	MP5A	X	-9.541	4.75
89	MP5A	Z	5.509	4.75
90	MP5A	Mx	.005	4.75
91	MP5B	X	-9.541	.75
92	MP5B	Z	5.509	.75
93	MP5B	Mx	-.005	.75
94	MP5B	X	-9.541	4.75
95	MP5B	Z	5.509	4.75
96	MP5B	Mx	-.005	4.75
97	MP1C	X	-10.372	.75
98	MP1C	Z	5.988	.75
99	MP1C	Mx	0	.75
100	MP1C	X	-10.372	4.75
101	MP1C	Z	5.988	4.75
102	MP1C	Mx	0	4.75
103	MP5C	X	-10.372	.75
104	MP5C	Z	5.988	.75
105	MP5C	Mx	0	.75
106	MP5C	X	-10.372	4.75
107	MP5C	Z	5.988	4.75
108	MP5C	Mx	0	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.296	1.75
2	MP3A	Z	0	1.75
3	MP3A	Mx	.001	1.75
4	MP3A	X	-2.296	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP3A	Z	0	3.75
6	MP3A	Mx	.001	3.75
7	MP3B	X	-4.971	1.75
8	MP3B	Z	0	1.75
9	MP3B	Mx	-.001	1.75
10	MP3B	X	-4.971	3.75
11	MP3B	Z	0	3.75
12	MP3B	Mx	-.001	3.75
13	MP3C	X	-4.971	1.75
14	MP3C	Z	0	1.75
15	MP3C	Mx	-.001	1.75
16	MP3C	X	-4.971	3.75
17	MP3C	Z	0	3.75
18	MP3C	Mx	-.001	3.75
19	MP2A	X	-3.119	2.5
20	MP2A	Z	0	2.5
21	MP2A	Mx	-.002	2.5
22	MP2B	X	-4.279	2.5
23	MP2B	Z	0	2.5
24	MP2B	Mx	.001	2.5
25	MP2C	X	-4.279	2.5
26	MP2C	Z	0	2.5
27	MP2C	Mx	.001	2.5
28	MP1A	X	-2.526	2.5
29	MP1A	Z	0	2.5
30	MP1A	Mx	-.001	2.5
31	MP1B	X	-4.131	2.5
32	MP1B	Z	0	2.5
33	MP1B	Mx	.001	2.5
34	MP1C	X	-4.131	2.5
35	MP1C	Z	0	2.5
36	MP1C	Mx	.001	2.5
37	MP2A	X	-6.732	.75
38	MP2A	Z	0	.75
39	MP2A	Mx	.003	.75
40	MP2A	X	-6.732	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	.003	4.75
43	MP2B	X	-9.318	.75
44	MP2B	Z	0	.75
45	MP2B	Mx	-.007	.75
46	MP2B	X	-9.318	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	-.007	4.75
49	MP2C	X	-9.318	.75
50	MP2C	Z	0	.75
51	MP2C	Mx	.002	.75
52	MP2C	X	-9.318	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	.002	4.75
55	MP2A	X	-6.732	.75
56	MP2A	Z	0	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
57	MP2A	Mx	.003	.75
58	MP2A	X	-6.732	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	.003	4.75
61	MP2B	X	-9.318	.75
62	MP2B	Z	0	.75
63	MP2B	Mx	.002	.75
64	MP2B	X	-9.318	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	.002	4.75
67	MP2C	X	-9.318	.75
68	MP2C	Z	0	.75
69	MP2C	Mx	-.007	.75
70	MP2C	X	-9.318	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	-.007	4.75
73	MP1A	X	-10.697	.75
74	MP1A	Z	0	.75
75	MP1A	Mx	.005	.75
76	MP1A	X	-10.697	4.75
77	MP1A	Z	0	4.75
78	MP1A	Mx	.005	4.75
79	MP1B	X	-11.657	.75
80	MP1B	Z	0	.75
81	MP1B	Mx	-.003	.75
82	MP1B	X	-11.657	4.75
83	MP1B	Z	0	4.75
84	MP1B	Mx	-.003	4.75
85	MP5A	X	-10.697	.75
86	MP5A	Z	0	.75
87	MP5A	Mx	.005	.75
88	MP5A	X	-10.697	4.75
89	MP5A	Z	0	4.75
90	MP5A	Mx	.005	4.75
91	MP5B	X	-11.657	.75
92	MP5B	Z	0	.75
93	MP5B	Mx	-.003	.75
94	MP5B	X	-11.657	4.75
95	MP5B	Z	0	4.75
96	MP5B	Mx	-.003	4.75
97	MP1C	X	-11.657	.75
98	MP1C	Z	0	.75
99	MP1C	Mx	-.003	.75
100	MP1C	X	-11.657	4.75
101	MP1C	Z	0	4.75
102	MP1C	Mx	-.003	4.75
103	MP5C	X	-11.657	.75
104	MP5C	Z	0	.75
105	MP5C	Mx	-.003	.75
106	MP5C	X	-11.657	4.75
107	MP5C	Z	0	4.75
108	MP5C	Mx	-.003	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.76	1.75
2	MP3A	Z	-1.594	1.75
3	MP3A	Mx	.001	1.75
4	MP3A	X	-2.76	3.75
5	MP3A	Z	-1.594	3.75
6	MP3A	Mx	.001	3.75
7	MP3B	X	-5.078	1.75
8	MP3B	Z	-2.932	1.75
9	MP3B	Mx	0	1.75
10	MP3B	X	-5.078	3.75
11	MP3B	Z	-2.932	3.75
12	MP3B	Mx	0	3.75
13	MP3C	X	-2.76	1.75
14	MP3C	Z	-1.594	1.75
15	MP3C	Mx	-.001	1.75
16	MP3C	X	-2.76	3.75
17	MP3C	Z	-1.594	3.75
18	MP3C	Mx	-.001	3.75
19	MP2A	X	-3.036	2.5
20	MP2A	Z	-1.753	2.5
21	MP2A	Mx	-.002	2.5
22	MP2B	X	-4.041	2.5
23	MP2B	Z	-2.333	2.5
24	MP2B	Mx	0	2.5
25	MP2C	X	-3.036	2.5
26	MP2C	Z	-1.753	2.5
27	MP2C	Mx	.002	2.5
28	MP1A	X	-2.651	2.5
29	MP1A	Z	-1.531	2.5
30	MP1A	Mx	-.001	2.5
31	MP1B	X	-4.041	2.5
32	MP1B	Z	-2.333	2.5
33	MP1B	Mx	0	2.5
34	MP1C	X	-2.651	2.5
35	MP1C	Z	-1.531	2.5
36	MP1C	Mx	.001	2.5
37	MP2A	X	-6.577	.75
38	MP2A	Z	-3.797	.75
39	MP2A	Mx	.006	.75
40	MP2A	X	-6.577	4.75
41	MP2A	Z	-3.797	4.75
42	MP2A	Mx	.006	4.75
43	MP2B	X	-8.816	.75
44	MP2B	Z	-5.09	.75
45	MP2B	Mx	-.006	.75
46	MP2B	X	-8.816	4.75
47	MP2B	Z	-5.09	4.75
48	MP2B	Mx	-.006	4.75
49	MP2C	X	-6.577	.75
50	MP2C	Z	-3.797	.75
51	MP2C	Mx	-.001	.75
52	MP2C	X	-6.577	4.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	-3.797	4.75
54	MP2C	Mx	-.001	4.75
55	MP2A	X	-6.577	.75
56	MP2A	Z	-3.797	.75
57	MP2A	Mx	.001	.75
58	MP2A	X	-6.577	4.75
59	MP2A	Z	-3.797	4.75
60	MP2A	Mx	.001	4.75
61	MP2B	X	-8.816	.75
62	MP2B	Z	-5.09	.75
63	MP2B	Mx	.006	.75
64	MP2B	X	-8.816	4.75
65	MP2B	Z	-5.09	4.75
66	MP2B	Mx	.006	4.75
67	MP2C	X	-6.577	.75
68	MP2C	Z	-3.797	.75
69	MP2C	Mx	-.006	.75
70	MP2C	X	-6.577	4.75
71	MP2C	Z	-3.797	4.75
72	MP2C	Mx	-.006	4.75
73	MP1A	X	-9.541	.75
74	MP1A	Z	-5.509	.75
75	MP1A	Mx	.005	.75
76	MP1A	X	-9.541	4.75
77	MP1A	Z	-5.509	4.75
78	MP1A	Mx	.005	4.75
79	MP1B	X	-10.372	.75
80	MP1B	Z	-5.988	.75
81	MP1B	Mx	0	.75
82	MP1B	X	-10.372	4.75
83	MP1B	Z	-5.988	4.75
84	MP1B	Mx	0	4.75
85	MP5A	X	-9.541	.75
86	MP5A	Z	-5.509	.75
87	MP5A	Mx	.005	.75
88	MP5A	X	-9.541	4.75
89	MP5A	Z	-5.509	4.75
90	MP5A	Mx	.005	4.75
91	MP5B	X	-10.372	.75
92	MP5B	Z	-5.988	.75
93	MP5B	Mx	0	.75
94	MP5B	X	-10.372	4.75
95	MP5B	Z	-5.988	4.75
96	MP5B	Mx	0	4.75
97	MP1C	X	-9.541	.75
98	MP1C	Z	-5.509	.75
99	MP1C	Mx	-.005	.75
100	MP1C	X	-9.541	4.75
101	MP1C	Z	-5.509	4.75
102	MP1C	Mx	-.005	4.75
103	MP5C	X	-9.541	.75
104	MP5C	Z	-5.509	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	-.005	.75
106	MP5C	X	-9.541	4.75
107	MP5C	Z	-5.509	4.75
108	MP5C	Mx	-.005	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.486	1.75
2	MP3A	Z	-4.305	1.75
3	MP3A	Mx	.001	1.75
4	MP3A	X	-2.486	3.75
5	MP3A	Z	-4.305	3.75
6	MP3A	Mx	.001	3.75
7	MP3B	X	-2.486	1.75
8	MP3B	Z	-4.305	1.75
9	MP3B	Mx	.001	1.75
10	MP3B	X	-2.486	3.75
11	MP3B	Z	-4.305	3.75
12	MP3B	Mx	.001	3.75
13	MP3C	X	-1.148	1.75
14	MP3C	Z	-1.988	1.75
15	MP3C	Mx	-.001	1.75
16	MP3C	X	-1.148	3.75
17	MP3C	Z	-1.988	3.75
18	MP3C	Mx	-.001	3.75
19	MP2A	X	-2.14	2.5
20	MP2A	Z	-3.706	2.5
21	MP2A	Mx	-.001	2.5
22	MP2B	X	-2.14	2.5
23	MP2B	Z	-3.706	2.5
24	MP2B	Mx	-.001	2.5
25	MP2C	X	-1.559	2.5
26	MP2C	Z	-2.701	2.5
27	MP2C	Mx	.002	2.5
28	MP1A	X	-2.065	2.5
29	MP1A	Z	-3.577	2.5
30	MP1A	Mx	-.001	2.5
31	MP1B	X	-2.065	2.5
32	MP1B	Z	-3.577	2.5
33	MP1B	Mx	-.001	2.5
34	MP1C	X	-1.263	2.5
35	MP1C	Z	-2.188	2.5
36	MP1C	Mx	.001	2.5
37	MP2A	X	-4.659	.75
38	MP2A	Z	-8.07	.75
39	MP2A	Mx	.007	.75
40	MP2A	X	-4.659	4.75
41	MP2A	Z	-8.07	4.75
42	MP2A	Mx	.007	4.75
43	MP2B	X	-4.659	.75
44	MP2B	Z	-8.07	.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	-.002	.75
46	MP2B	X	-4.659	4.75
47	MP2B	Z	-8.07	4.75
48	MP2B	Mx	-.002	4.75
49	MP2C	X	-3.366	.75
50	MP2C	Z	-5.83	.75
51	MP2C	Mx	-.003	.75
52	MP2C	X	-3.366	4.75
53	MP2C	Z	-5.83	4.75
54	MP2C	Mx	-.003	4.75
55	MP2A	X	-4.659	.75
56	MP2A	Z	-8.07	.75
57	MP2A	Mx	-.002	.75
58	MP2A	X	-4.659	4.75
59	MP2A	Z	-8.07	4.75
60	MP2A	Mx	-.002	4.75
61	MP2B	X	-4.659	.75
62	MP2B	Z	-8.07	.75
63	MP2B	Mx	.007	.75
64	MP2B	X	-4.659	4.75
65	MP2B	Z	-8.07	4.75
66	MP2B	Mx	.007	4.75
67	MP2C	X	-3.366	.75
68	MP2C	Z	-5.83	.75
69	MP2C	Mx	-.003	.75
70	MP2C	X	-3.366	4.75
71	MP2C	Z	-5.83	4.75
72	MP2C	Mx	-.003	4.75
73	MP1A	X	-5.828	.75
74	MP1A	Z	-10.095	.75
75	MP1A	Mx	.003	.75
76	MP1A	X	-5.828	4.75
77	MP1A	Z	-10.095	4.75
78	MP1A	Mx	.003	4.75
79	MP1B	X	-5.828	.75
80	MP1B	Z	-10.095	.75
81	MP1B	Mx	.003	.75
82	MP1B	X	-5.828	4.75
83	MP1B	Z	-10.095	4.75
84	MP1B	Mx	.003	4.75
85	MP5A	X	-5.828	.75
86	MP5A	Z	-10.095	.75
87	MP5A	Mx	.003	.75
88	MP5A	X	-5.828	4.75
89	MP5A	Z	-10.095	4.75
90	MP5A	Mx	.003	4.75
91	MP5B	X	-5.828	.75
92	MP5B	Z	-10.095	.75
93	MP5B	Mx	.003	.75
94	MP5B	X	-5.828	4.75
95	MP5B	Z	-10.095	4.75
96	MP5B	Mx	.003	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP1C	X	-5.349	.75
98	MP1C	Z	-9.264	.75
99	MP1C	Mx	-.005	.75
100	MP1C	X	-5.349	4.75
101	MP1C	Z	-9.264	4.75
102	MP1C	Mx	-.005	4.75
103	MP5C	X	-5.349	.75
104	MP5C	Z	-9.264	.75
105	MP5C	Mx	-.005	.75
106	MP5C	X	-5.349	4.75
107	MP5C	Z	-9.264	4.75
108	MP5C	Mx	-.005	4.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M199A	Y	-500	%17.46

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M199A	Y	-500	%48.51

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M199A	Y	-250	%100

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M199A	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	M4	Y	-9.457	-9.457	0	%100
2	M10	Y	-9.457	-9.457	0	%100
3	M43	Y	-9.457	-9.457	0	%100
4	M46	Y	-9.963	-9.963	0	%100
5	M51B	Y	-5.521	-5.521	0	%100
6	M52B	Y	-5.521	-5.521	0	%100
7	M76	Y	-9.95	-9.95	0	%100
8	M77	Y	-9.95	-9.95	0	%100
9	M80	Y	-9.963	-9.963	0	%100
10	M84	Y	-9.95	-9.95	0	%100
11	M85	Y	-9.95	-9.95	0	%100
12	M91	Y	-9.963	-9.963	0	%100
13	M150A	Y	-9.457	-9.457	0	%100
14	M151A	Y	-9.457	-9.457	0	%100
15	M152A	Y	-9.457	-9.457	0	%100
16	M153A	Y	-9.963	-9.963	0	%100
17	M156A	Y	-5.521	-5.521	0	%100



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**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, %]
18	M157A	Y	-5.521	-5.521	0	% 100
19	M161A	Y	-9.95	-9.95	0	% 100
20	M162A	Y	-9.95	-9.95	0	% 100
21	M164A	Y	-9.963	-9.963	0	% 100
22	M166A	Y	-9.95	-9.95	0	% 100
23	M167A	Y	-9.95	-9.95	0	% 100
24	M169A	Y	-9.963	-9.963	0	% 100
25	M174A	Y	-9.457	-9.457	0	% 100
26	M175A	Y	-9.457	-9.457	0	% 100
27	M176A	Y	-9.457	-9.457	0	% 100
28	M177A	Y	-9.963	-9.963	0	% 100
29	M180A	Y	-5.521	-5.521	0	% 100
30	M181A	Y	-5.521	-5.521	0	% 100
31	M185A	Y	-9.95	-9.95	0	% 100
32	M186A	Y	-9.95	-9.95	0	% 100
33	M188A	Y	-9.963	-9.963	0	% 100
34	M190A	Y	-9.95	-9.95	0	% 100
35	M191A	Y	-9.95	-9.95	0	% 100
36	M193A	Y	-9.963	-9.963	0	% 100
37	M199A	Y	-6.455	-6.455	0	% 100
38	M199B	Y	-6.455	-6.455	0	% 100
39	M200A	Y	-6.455	-6.455	0	% 100
40	MP1A	Y	-4.89	-4.89	0	% 100
41	MP2A	Y	-5.586	-5.586	0	% 100
42	MP3A	Y	-4.89	-4.89	0	% 100
43	MP4A	Y	-4.89	-4.89	0	% 100
44	MP5A	Y	-4.89	-4.89	0	% 100
45	MP1C	Y	-4.89	-4.89	0	% 100
46	MP2C	Y	-5.586	-5.586	0	% 100
47	MP3C	Y	-4.89	-4.89	0	% 100
48	MP4C	Y	-4.89	-4.89	0	% 100
49	MP5C	Y	-4.89	-4.89	0	% 100
50	MP1B	Y	-4.89	-4.89	0	% 100
51	MP2B	Y	-5.586	-5.586	0	% 100
52	MP3B	Y	-4.89	-4.89	0	% 100
53	MP4B	Y	-4.89	-4.89	0	% 100
54	MP5B	Y	-4.89	-4.89	0	% 100
55	M106	Y	-5.586	-5.586	0	% 100
56	M111	Y	-5.586	-5.586	0	% 100
57	M116	Y	-5.586	-5.586	0	% 100
58	M130	Y	-7.489	-7.489	0	% 100
59	M131	Y	-7.489	-7.489	0	% 100
60	M132	Y	-7.489	-7.489	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	M4	X	0	0	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	-11.029	-11.029	0	% 100
5	M43	X	0	0	0	% 100



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**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, %]
6	M43	Z	-11.029	-11.029	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	-21.998	-21.998	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	-3.054	-3.054	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	-3.054	-3.054	0	% 100
13	M76	X	0	0	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	-5.601	-5.601	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	-5.9	-5.9	0	% 100
19	M84	X	0	0	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	-5.601	-5.601	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	-5.9	-5.9	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	-9.775	-9.775	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	-2.757	-2.757	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	-2.757	-2.757	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	-5.5	-5.5	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	-3.054	-3.054	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	-12.215	-12.215	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	-16.499	-16.499	0	% 100
39	M162A	X	0	0	0	% 100
40	M162A	Z	-5.601	-5.601	0	% 100
41	M164A	X	0	0	0	% 100
42	M164A	Z	-5.9	-5.9	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	-16.499	-16.499	0	% 100
45	M167A	X	0	0	0	% 100
46	M167A	Z	-22.406	-22.406	0	% 100
47	M169A	X	0	0	0	% 100
48	M169A	Z	-23.599	-23.599	0	% 100
49	M174A	X	0	0	0	% 100
50	M174A	Z	-9.775	-9.775	0	% 100
51	M175A	X	0	0	0	% 100
52	M175A	Z	-2.757	-2.757	0	% 100
53	M176A	X	0	0	0	% 100
54	M176A	Z	-2.757	-2.757	0	% 100
55	M177A	X	0	0	0	% 100
56	M177A	Z	-5.5	-5.5	0	% 100
57	M180A	X	0	0	0	% 100





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**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, %]
58	M180A	Z	-12.215	-12.215	0 % 100
59	M181A	X	0	0	0 % 100
60	M181A	Z	-3.054	-3.054	0 % 100
61	M185A	X	0	0	0 % 100
62	M185A	Z	-16.499	-16.499	0 % 100
63	M186A	X	0	0	0 % 100
64	M186A	Z	-22.406	-22.406	0 % 100
65	M188A	X	0	0	0 % 100
66	M188A	Z	-23.599	-23.599	0 % 100
67	M190A	X	0	0	0 % 100
68	M190A	Z	-16.499	-16.499	0 % 100
69	M191A	X	0	0	0 % 100
70	M191A	Z	-5.601	-5.601	0 % 100
71	M193A	X	0	0	0 % 100
72	M193A	Z	-5.9	-5.9	0 % 100
73	M199A	X	0	0	0 % 100
74	M199A	Z	-12.832	-12.832	0 % 100
75	M199B	X	0	0	0 % 100
76	M199B	Z	-3.208	-3.208	0 % 100
77	M200A	X	0	0	0 % 100
78	M200A	Z	-3.208	-3.208	0 % 100
79	MP1A	X	0	0	0 % 100
80	MP1A	Z	-8.708	-8.708	0 % 100
81	MP2A	X	0	0	0 % 100
82	MP2A	Z	-10.541	-10.541	0 % 100
83	MP3A	X	0	0	0 % 100
84	MP3A	Z	-8.708	-8.708	0 % 100
85	MP4A	X	0	0	0 % 100
86	MP4A	Z	-8.708	-8.708	0 % 100
87	MP5A	X	0	0	0 % 100
88	MP5A	Z	-8.708	-8.708	0 % 100
89	MP1C	X	0	0	0 % 100
90	MP1C	Z	-8.708	-8.708	0 % 100
91	MP2C	X	0	0	0 % 100
92	MP2C	Z	-10.541	-10.541	0 % 100
93	MP3C	X	0	0	0 % 100
94	MP3C	Z	-8.708	-8.708	0 % 100
95	MP4C	X	0	0	0 % 100
96	MP4C	Z	-8.708	-8.708	0 % 100
97	MP5C	X	0	0	0 % 100
98	MP5C	Z	-8.708	-8.708	0 % 100
99	MP1B	X	0	0	0 % 100
100	MP1B	Z	-8.708	-8.708	0 % 100
101	MP2B	X	0	0	0 % 100
102	MP2B	Z	-10.541	-10.541	0 % 100
103	MP3B	X	0	0	0 % 100
104	MP3B	Z	-8.708	-8.708	0 % 100
105	MP4B	X	0	0	0 % 100
106	MP4B	Z	-8.708	-8.708	0 % 100
107	MP5B	X	0	0	0 % 100
108	MP5B	Z	-8.708	-8.708	0 % 100
109	M106	X	0	0	0 % 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
110	M106	Z	-10.541	-10.541	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	-2.635	-2.635	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	-2.635	-2.635	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	-3.01	-3.01	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	-3.01	-3.01	0	% 100
119	M132	X	0	0	0	% 100
120	M132	Z	-12.038	-12.038	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	M4	X	1.629	1.629	0	% 100
2	M4	Z	-2.822	-2.822	0	% 100
3	M10	X	4.136	4.136	0	% 100
4	M10	Z	-7.163	-7.163	0	% 100
5	M43	X	4.136	4.136	0	% 100
6	M43	Z	-7.163	-7.163	0	% 100
7	M46	X	8.249	8.249	0	% 100
8	M46	Z	-14.288	-14.288	0	% 100
9	M51B	X	4.581	4.581	0	% 100
10	M51B	Z	-7.934	-7.934	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	2.75	2.75	0	% 100
14	M76	Z	-4.763	-4.763	0	% 100
15	M77	X	8.402	8.402	0	% 100
16	M77	Z	-14.553	-14.553	0	% 100
17	M80	X	8.85	8.85	0	% 100
18	M80	Z	-15.328	-15.328	0	% 100
19	M84	X	2.75	2.75	0	% 100
20	M84	Z	-4.763	-4.763	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	1.629	1.629	0	% 100
26	M150A	Z	-2.822	-2.822	0	% 100
27	M151A	X	4.136	4.136	0	% 100
28	M151A	Z	-7.163	-7.163	0	% 100
29	M152A	X	4.136	4.136	0	% 100
30	M152A	Z	-7.163	-7.163	0	% 100
31	M153A	X	8.249	8.249	0	% 100
32	M153A	Z	-14.288	-14.288	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	4.581	4.581	0	% 100
36	M157A	Z	-7.934	-7.934	0	% 100
37	M161A	X	2.75	2.75	0	% 100



Company : Maser Consulting  
 Designer : AJH  
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**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, %]
38	M161A	Z	-4.763	-4.763	0 %100
39	M162A	X	0	0	0 %100
40	M162A	Z	0	0	0 %100
41	M164A	X	0	0	0 %100
42	M164A	Z	0	0	0 %100
43	M166A	X	2.75	2.75	0 %100
44	M166A	Z	-4.763	-4.763	0 %100
45	M167A	X	8.402	8.402	0 %100
46	M167A	Z	-14.553	-14.553	0 %100
47	M169A	X	8.85	8.85	0 %100
48	M169A	Z	-15.328	-15.328	0 %100
49	M174A	X	6.517	6.517	0 %100
50	M174A	Z	-11.288	-11.288	0 %100
51	M175A	X	0	0	0 %100
52	M175A	Z	0	0	0 %100
53	M176A	X	0	0	0 %100
54	M176A	Z	0	0	0 %100
55	M177A	X	0	0	0 %100
56	M177A	Z	0	0	0 %100
57	M180A	X	4.581	4.581	0 %100
58	M180A	Z	-7.934	-7.934	0 %100
59	M181A	X	4.581	4.581	0 %100
60	M181A	Z	-7.934	-7.934	0 %100
61	M185A	X	10.999	10.999	0 %100
62	M185A	Z	-19.051	-19.051	0 %100
63	M186A	X	8.402	8.402	0 %100
64	M186A	Z	-14.553	-14.553	0 %100
65	M188A	X	8.85	8.85	0 %100
66	M188A	Z	-15.328	-15.328	0 %100
67	M190A	X	10.999	10.999	0 %100
68	M190A	Z	-19.051	-19.051	0 %100
69	M191A	X	8.402	8.402	0 %100
70	M191A	Z	-14.553	-14.553	0 %100
71	M193A	X	8.85	8.85	0 %100
72	M193A	Z	-15.328	-15.328	0 %100
73	M199A	X	4.812	4.812	0 %100
74	M199A	Z	-8.335	-8.335	0 %100
75	M199B	X	4.812	4.812	0 %100
76	M199B	Z	-8.335	-8.335	0 %100
77	M200A	X	0	0	0 %100
78	M200A	Z	0	0	0 %100
79	MP1A	X	4.354	4.354	0 %100
80	MP1A	Z	-7.541	-7.541	0 %100
81	MP2A	X	5.27	5.27	0 %100
82	MP2A	Z	-9.129	-9.129	0 %100
83	MP3A	X	4.354	4.354	0 %100
84	MP3A	Z	-7.541	-7.541	0 %100
85	MP4A	X	4.354	4.354	0 %100
86	MP4A	Z	-7.541	-7.541	0 %100
87	MP5A	X	4.354	4.354	0 %100
88	MP5A	Z	-7.541	-7.541	0 %100
89	MP1C	X	4.354	4.354	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, %]
90	MP1C	Z	-7.541	-7.541	0	% 100
91	MP2C	X	5.27	5.27	0	% 100
92	MP2C	Z	-9.129	-9.129	0	% 100
93	MP3C	X	4.354	4.354	0	% 100
94	MP3C	Z	-7.541	-7.541	0	% 100
95	MP4C	X	4.354	4.354	0	% 100
96	MP4C	Z	-7.541	-7.541	0	% 100
97	MP5C	X	4.354	4.354	0	% 100
98	MP5C	Z	-7.541	-7.541	0	% 100
99	MP1B	X	4.354	4.354	0	% 100
100	MP1B	Z	-7.541	-7.541	0	% 100
101	MP2B	X	5.27	5.27	0	% 100
102	MP2B	Z	-9.129	-9.129	0	% 100
103	MP3B	X	4.354	4.354	0	% 100
104	MP3B	Z	-7.541	-7.541	0	% 100
105	MP4B	X	4.354	4.354	0	% 100
106	MP4B	Z	-7.541	-7.541	0	% 100
107	MP5B	X	4.354	4.354	0	% 100
108	MP5B	Z	-7.541	-7.541	0	% 100
109	M106	X	3.953	3.953	0	% 100
110	M106	Z	-6.846	-6.846	0	% 100
111	M111	X	3.953	3.953	0	% 100
112	M111	Z	-6.846	-6.846	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	4.514	4.514	0	% 100
116	M130	Z	-7.819	-7.819	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	4.514	4.514	0	% 100
120	M132	Z	-7.819	-7.819	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	M4	X	8.466	8.466	0	% 100
2	M4	Z	-4.888	-4.888	0	% 100
3	M10	X	2.388	2.388	0	% 100
4	M10	Z	-1.379	-1.379	0	% 100
5	M43	X	2.388	2.388	0	% 100
6	M43	Z	-1.379	-1.379	0	% 100
7	M46	X	4.763	4.763	0	% 100
8	M46	Z	-2.75	-2.75	0	% 100
9	M51B	X	10.579	10.579	0	% 100
10	M51B	Z	-6.108	-6.108	0	% 100
11	M52B	X	2.645	2.645	0	% 100
12	M52B	Z	-1.527	-1.527	0	% 100
13	M76	X	14.288	14.288	0	% 100
14	M76	Z	-8.249	-8.249	0	% 100
15	M77	X	19.404	19.404	0	% 100
16	M77	Z	-11.203	-11.203	0	% 100
17	M80	X	20.438	20.438	0	% 100



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**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, %]
18	M80	Z	-11.8	-11.8	0	% 100
19	M84	X	14.288	14.288	0	% 100
20	M84	Z	-8.249	-8.249	0	% 100
21	M85	X	4.851	4.851	0	% 100
22	M85	Z	-2.801	-2.801	0	% 100
23	M91	X	5.109	5.109	0	% 100
24	M91	Z	-2.95	-2.95	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	9.551	9.551	0	% 100
28	M151A	Z	-5.514	-5.514	0	% 100
29	M152A	X	9.551	9.551	0	% 100
30	M152A	Z	-5.514	-5.514	0	% 100
31	M153A	X	19.051	19.051	0	% 100
32	M153A	Z	-10.999	-10.999	0	% 100
33	M156A	X	2.645	2.645	0	% 100
34	M156A	Z	-1.527	-1.527	0	% 100
35	M157A	X	2.645	2.645	0	% 100
36	M157A	Z	-1.527	-1.527	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	4.851	4.851	0	% 100
40	M162A	Z	-2.801	-2.801	0	% 100
41	M164A	X	5.109	5.109	0	% 100
42	M164A	Z	-2.95	-2.95	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	0	0	0	% 100
45	M167A	X	4.851	4.851	0	% 100
46	M167A	Z	-2.801	-2.801	0	% 100
47	M169A	X	5.109	5.109	0	% 100
48	M169A	Z	-2.95	-2.95	0	% 100
49	M174A	X	8.466	8.466	0	% 100
50	M174A	Z	-4.888	-4.888	0	% 100
51	M175A	X	2.388	2.388	0	% 100
52	M175A	Z	-1.379	-1.379	0	% 100
53	M176A	X	2.388	2.388	0	% 100
54	M176A	Z	-1.379	-1.379	0	% 100
55	M177A	X	4.763	4.763	0	% 100
56	M177A	Z	-2.75	-2.75	0	% 100
57	M180A	X	2.645	2.645	0	% 100
58	M180A	Z	-1.527	-1.527	0	% 100
59	M181A	X	10.579	10.579	0	% 100
60	M181A	Z	-6.108	-6.108	0	% 100
61	M185A	X	14.288	14.288	0	% 100
62	M185A	Z	-8.249	-8.249	0	% 100
63	M186A	X	4.851	4.851	0	% 100
64	M186A	Z	-2.801	-2.801	0	% 100
65	M188A	X	5.109	5.109	0	% 100
66	M188A	Z	-2.95	-2.95	0	% 100
67	M190A	X	14.288	14.288	0	% 100
68	M190A	Z	-8.249	-8.249	0	% 100
69	M191A	X	19.404	19.404	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, %]
70	M191A	Z	-11.203	-11.203	0 % 100
71	M193A	X	20.438	20.438	0 % 100
72	M193A	Z	-11.8	-11.8	0 % 100
73	M199A	X	2.778	2.778	0 % 100
74	M199A	Z	-1.604	-1.604	0 % 100
75	M199B	X	11.113	11.113	0 % 100
76	M199B	Z	-6.416	-6.416	0 % 100
77	M200A	X	2.778	2.778	0 % 100
78	M200A	Z	-1.604	-1.604	0 % 100
79	MP1A	X	7.541	7.541	0 % 100
80	MP1A	Z	-4.354	-4.354	0 % 100
81	MP2A	X	9.129	9.129	0 % 100
82	MP2A	Z	-5.27	-5.27	0 % 100
83	MP3A	X	7.541	7.541	0 % 100
84	MP3A	Z	-4.354	-4.354	0 % 100
85	MP4A	X	7.541	7.541	0 % 100
86	MP4A	Z	-4.354	-4.354	0 % 100
87	MP5A	X	7.541	7.541	0 % 100
88	MP5A	Z	-4.354	-4.354	0 % 100
89	MP1C	X	7.541	7.541	0 % 100
90	MP1C	Z	-4.354	-4.354	0 % 100
91	MP2C	X	9.129	9.129	0 % 100
92	MP2C	Z	-5.27	-5.27	0 % 100
93	MP3C	X	7.541	7.541	0 % 100
94	MP3C	Z	-4.354	-4.354	0 % 100
95	MP4C	X	7.541	7.541	0 % 100
96	MP4C	Z	-4.354	-4.354	0 % 100
97	MP5C	X	7.541	7.541	0 % 100
98	MP5C	Z	-4.354	-4.354	0 % 100
99	MP1B	X	7.541	7.541	0 % 100
100	MP1B	Z	-4.354	-4.354	0 % 100
101	MP2B	X	9.129	9.129	0 % 100
102	MP2B	Z	-5.27	-5.27	0 % 100
103	MP3B	X	7.541	7.541	0 % 100
104	MP3B	Z	-4.354	-4.354	0 % 100
105	MP4B	X	7.541	7.541	0 % 100
106	MP4B	Z	-4.354	-4.354	0 % 100
107	MP5B	X	7.541	7.541	0 % 100
108	MP5B	Z	-4.354	-4.354	0 % 100
109	M106	X	2.282	2.282	0 % 100
110	M106	Z	-1.318	-1.318	0 % 100
111	M111	X	9.129	9.129	0 % 100
112	M111	Z	-5.27	-5.27	0 % 100
113	M116	X	2.282	2.282	0 % 100
114	M116	Z	-1.318	-1.318	0 % 100
115	M130	X	10.425	10.425	0 % 100
116	M130	Z	-6.019	-6.019	0 % 100
117	M131	X	2.606	2.606	0 % 100
118	M131	Z	-1.505	-1.505	0 % 100
119	M132	X	2.606	2.606	0 % 100
120	M132	Z	-1.505	-1.505	0 % 100





Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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**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	M4	X	13.034	13.034	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	0	0	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	0	0	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	0	0	0	% 100
9	M51B	X	9.161	9.161	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	9.161	9.161	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	21.998	21.998	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	16.804	16.804	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	17.699	17.699	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	21.998	21.998	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	16.804	16.804	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	17.699	17.699	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	3.258	3.258	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	8.272	8.272	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	8.272	8.272	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	16.499	16.499	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	9.161	9.161	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	0	0	0	% 100
37	M161A	X	5.5	5.5	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	16.804	16.804	0	% 100
40	M162A	Z	0	0	0	% 100
41	M164A	X	17.699	17.699	0	% 100
42	M164A	Z	0	0	0	% 100
43	M166A	X	5.5	5.5	0	% 100
44	M166A	Z	0	0	0	% 100
45	M167A	X	0	0	0	% 100
46	M167A	Z	0	0	0	% 100
47	M169A	X	0	0	0	% 100
48	M169A	Z	0	0	0	% 100
49	M174A	X	3.258	3.258	0	% 100
50	M174A	Z	0	0	0	% 100
51	M175A	X	8.272	8.272	0	% 100
52	M175A	Z	0	0	0	% 100



Company : Maser Consulting  
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**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, %]
53	M176A	X	8.272	8.272	0 % 100
54	M176A	Z	0	0	0 % 100
55	M177A	X	16.499	16.499	0 % 100
56	M177A	Z	0	0	0 % 100
57	M180A	X	0	0	0 % 100
58	M180A	Z	0	0	0 % 100
59	M181A	X	9.161	9.161	0 % 100
60	M181A	Z	0	0	0 % 100
61	M185A	X	5.5	5.5	0 % 100
62	M185A	Z	0	0	0 % 100
63	M186A	X	0	0	0 % 100
64	M186A	Z	0	0	0 % 100
65	M188A	X	0	0	0 % 100
66	M188A	Z	0	0	0 % 100
67	M190A	X	5.5	5.5	0 % 100
68	M190A	Z	0	0	0 % 100
69	M191A	X	16.804	16.804	0 % 100
70	M191A	Z	0	0	0 % 100
71	M193A	X	17.699	17.699	0 % 100
72	M193A	Z	0	0	0 % 100
73	M199A	X	0	0	0 % 100
74	M199A	Z	0	0	0 % 100
75	M199B	X	9.624	9.624	0 % 100
76	M199B	Z	0	0	0 % 100
77	M200A	X	9.624	9.624	0 % 100
78	M200A	Z	0	0	0 % 100
79	MP1A	X	8.708	8.708	0 % 100
80	MP1A	Z	0	0	0 % 100
81	MP2A	X	10.541	10.541	0 % 100
82	MP2A	Z	0	0	0 % 100
83	MP3A	X	8.708	8.708	0 % 100
84	MP3A	Z	0	0	0 % 100
85	MP4A	X	8.708	8.708	0 % 100
86	MP4A	Z	0	0	0 % 100
87	MP5A	X	8.708	8.708	0 % 100
88	MP5A	Z	0	0	0 % 100
89	MP1C	X	8.708	8.708	0 % 100
90	MP1C	Z	0	0	0 % 100
91	MP2C	X	10.541	10.541	0 % 100
92	MP2C	Z	0	0	0 % 100
93	MP3C	X	8.708	8.708	0 % 100
94	MP3C	Z	0	0	0 % 100
95	MP4C	X	8.708	8.708	0 % 100
96	MP4C	Z	0	0	0 % 100
97	MP5C	X	8.708	8.708	0 % 100
98	MP5C	Z	0	0	0 % 100
99	MP1B	X	8.708	8.708	0 % 100
100	MP1B	Z	0	0	0 % 100
101	MP2B	X	10.541	10.541	0 % 100
102	MP2B	Z	0	0	0 % 100
103	MP3B	X	8.708	8.708	0 % 100
104	MP3B	Z	0	0	0 % 100



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 Designer : AJH  
 Job Number : Project No. 10037788  
 Model Name : 467194-VZW\_MT\_LO\_H

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**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, %]
105	MP4B	X	8.708	8.708	0	% 100
106	MP4B	Z	0	0	0	% 100
107	MP5B	X	8.708	8.708	0	% 100
108	MP5B	Z	0	0	0	% 100
109	M106	X	0	0	0	% 100
110	M106	Z	0	0	0	% 100
111	M111	X	7.906	7.906	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	7.906	7.906	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	9.029	9.029	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	9.029	9.029	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	0	0	0	% 100
120	M132	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	M4	X	8.466	8.466	0	% 100
2	M4	Z	4.888	4.888	0	% 100
3	M10	X	2.388	2.388	0	% 100
4	M10	Z	1.379	1.379	0	% 100
5	M43	X	2.388	2.388	0	% 100
6	M43	Z	1.379	1.379	0	% 100
7	M46	X	4.763	4.763	0	% 100
8	M46	Z	2.75	2.75	0	% 100
9	M51B	X	2.645	2.645	0	% 100
10	M51B	Z	1.527	1.527	0	% 100
11	M52B	X	10.579	10.579	0	% 100
12	M52B	Z	6.108	6.108	0	% 100
13	M76	X	14.288	14.288	0	% 100
14	M76	Z	8.249	8.249	0	% 100
15	M77	X	4.851	4.851	0	% 100
16	M77	Z	2.801	2.801	0	% 100
17	M80	X	5.109	5.109	0	% 100
18	M80	Z	2.95	2.95	0	% 100
19	M84	X	14.288	14.288	0	% 100
20	M84	Z	8.249	8.249	0	% 100
21	M85	X	19.404	19.404	0	% 100
22	M85	Z	11.203	11.203	0	% 100
23	M91	X	20.438	20.438	0	% 100
24	M91	Z	11.8	11.8	0	% 100
25	M150A	X	8.466	8.466	0	% 100
26	M150A	Z	4.888	4.888	0	% 100
27	M151A	X	2.388	2.388	0	% 100
28	M151A	Z	1.379	1.379	0	% 100
29	M152A	X	2.388	2.388	0	% 100
30	M152A	Z	1.379	1.379	0	% 100
31	M153A	X	4.763	4.763	0	% 100
32	M153A	Z	2.75	2.75	0	% 100



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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,%]
33	M156A	X	10.579	10.579	0	% 100
34	M156A	Z	6.108	6.108	0	% 100
35	M157A	X	2.645	2.645	0	% 100
36	M157A	Z	1.527	1.527	0	% 100
37	M161A	X	14.288	14.288	0	% 100
38	M161A	Z	8.249	8.249	0	% 100
39	M162A	X	19.404	19.404	0	% 100
40	M162A	Z	11.203	11.203	0	% 100
41	M164A	X	20.438	20.438	0	% 100
42	M164A	Z	11.8	11.8	0	% 100
43	M166A	X	14.288	14.288	0	% 100
44	M166A	Z	8.249	8.249	0	% 100
45	M167A	X	4.851	4.851	0	% 100
46	M167A	Z	2.801	2.801	0	% 100
47	M169A	X	5.109	5.109	0	% 100
48	M169A	Z	2.95	2.95	0	% 100
49	M174A	X	0	0	0	% 100
50	M174A	Z	0	0	0	% 100
51	M175A	X	9.551	9.551	0	% 100
52	M175A	Z	5.514	5.514	0	% 100
53	M176A	X	9.551	9.551	0	% 100
54	M176A	Z	5.514	5.514	0	% 100
55	M177A	X	19.051	19.051	0	% 100
56	M177A	Z	10.999	10.999	0	% 100
57	M180A	X	2.645	2.645	0	% 100
58	M180A	Z	1.527	1.527	0	% 100
59	M181A	X	2.645	2.645	0	% 100
60	M181A	Z	1.527	1.527	0	% 100
61	M185A	X	0	0	0	% 100
62	M185A	Z	0	0	0	% 100
63	M186A	X	4.851	4.851	0	% 100
64	M186A	Z	2.801	2.801	0	% 100
65	M188A	X	5.109	5.109	0	% 100
66	M188A	Z	2.95	2.95	0	% 100
67	M190A	X	0	0	0	% 100
68	M190A	Z	0	0	0	% 100
69	M191A	X	4.851	4.851	0	% 100
70	M191A	Z	2.801	2.801	0	% 100
71	M193A	X	5.109	5.109	0	% 100
72	M193A	Z	2.95	2.95	0	% 100
73	M199A	X	2.778	2.778	0	% 100
74	M199A	Z	1.604	1.604	0	% 100
75	M199B	X	2.778	2.778	0	% 100
76	M199B	Z	1.604	1.604	0	% 100
77	M200A	X	11.113	11.113	0	% 100
78	M200A	Z	6.416	6.416	0	% 100
79	MP1A	X	7.541	7.541	0	% 100
80	MP1A	Z	4.354	4.354	0	% 100
81	MP2A	X	9.129	9.129	0	% 100
82	MP2A	Z	5.27	5.27	0	% 100
83	MP3A	X	7.541	7.541	0	% 100
84	MP3A	Z	4.354	4.354	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
85	MP4A	X	7.541	7.541	0	% 100
86	MP4A	Z	4.354	4.354	0	% 100
87	MP5A	X	7.541	7.541	0	% 100
88	MP5A	Z	4.354	4.354	0	% 100
89	MP1C	X	7.541	7.541	0	% 100
90	MP1C	Z	4.354	4.354	0	% 100
91	MP2C	X	9.129	9.129	0	% 100
92	MP2C	Z	5.27	5.27	0	% 100
93	MP3C	X	7.541	7.541	0	% 100
94	MP3C	Z	4.354	4.354	0	% 100
95	MP4C	X	7.541	7.541	0	% 100
96	MP4C	Z	4.354	4.354	0	% 100
97	MP5C	X	7.541	7.541	0	% 100
98	MP5C	Z	4.354	4.354	0	% 100
99	MP1B	X	7.541	7.541	0	% 100
100	MP1B	Z	4.354	4.354	0	% 100
101	MP2B	X	9.129	9.129	0	% 100
102	MP2B	Z	5.27	5.27	0	% 100
103	MP3B	X	7.541	7.541	0	% 100
104	MP3B	Z	4.354	4.354	0	% 100
105	MP4B	X	7.541	7.541	0	% 100
106	MP4B	Z	4.354	4.354	0	% 100
107	MP5B	X	7.541	7.541	0	% 100
108	MP5B	Z	4.354	4.354	0	% 100
109	M106	X	2.282	2.282	0	% 100
110	M106	Z	1.318	1.318	0	% 100
111	M111	X	2.282	2.282	0	% 100
112	M111	Z	1.318	1.318	0	% 100
113	M116	X	9.129	9.129	0	% 100
114	M116	Z	5.27	5.27	0	% 100
115	M130	X	2.606	2.606	0	% 100
116	M130	Z	1.505	1.505	0	% 100
117	M131	X	10.425	10.425	0	% 100
118	M131	Z	6.019	6.019	0	% 100
119	M132	X	2.606	2.606	0	% 100
120	M132	Z	1.505	1.505	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	M4	X	1.629	1.629	0	% 100
2	M4	Z	2.822	2.822	0	% 100
3	M10	X	4.136	4.136	0	% 100
4	M10	Z	7.163	7.163	0	% 100
5	M43	X	4.136	4.136	0	% 100
6	M43	Z	7.163	7.163	0	% 100
7	M46	X	8.249	8.249	0	% 100
8	M46	Z	14.288	14.288	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	4.581	4.581	0	% 100
12	M52B	Z	7.934	7.934	0	% 100



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**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,%]
13	M76	X	2.75	2.75	0	% 100
14	M76	Z	4.763	4.763	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	2.75	2.75	0	% 100
20	M84	Z	4.763	4.763	0	% 100
21	M85	X	8.402	8.402	0	% 100
22	M85	Z	14.553	14.553	0	% 100
23	M91	X	8.85	8.85	0	% 100
24	M91	Z	15.328	15.328	0	% 100
25	M150A	X	6.517	6.517	0	% 100
26	M150A	Z	11.288	11.288	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	4.581	4.581	0	% 100
34	M156A	Z	7.934	7.934	0	% 100
35	M157A	X	4.581	4.581	0	% 100
36	M157A	Z	7.934	7.934	0	% 100
37	M161A	X	10.999	10.999	0	% 100
38	M161A	Z	19.051	19.051	0	% 100
39	M162A	X	8.402	8.402	0	% 100
40	M162A	Z	14.553	14.553	0	% 100
41	M164A	X	8.85	8.85	0	% 100
42	M164A	Z	15.328	15.328	0	% 100
43	M166A	X	10.999	10.999	0	% 100
44	M166A	Z	19.051	19.051	0	% 100
45	M167A	X	8.402	8.402	0	% 100
46	M167A	Z	14.553	14.553	0	% 100
47	M169A	X	8.85	8.85	0	% 100
48	M169A	Z	15.328	15.328	0	% 100
49	M174A	X	1.629	1.629	0	% 100
50	M174A	Z	2.822	2.822	0	% 100
51	M175A	X	4.136	4.136	0	% 100
52	M175A	Z	7.163	7.163	0	% 100
53	M176A	X	4.136	4.136	0	% 100
54	M176A	Z	7.163	7.163	0	% 100
55	M177A	X	8.249	8.249	0	% 100
56	M177A	Z	14.288	14.288	0	% 100
57	M180A	X	4.581	4.581	0	% 100
58	M180A	Z	7.934	7.934	0	% 100
59	M181A	X	0	0	0	% 100
60	M181A	Z	0	0	0	% 100
61	M185A	X	2.75	2.75	0	% 100
62	M185A	Z	4.763	4.763	0	% 100
63	M186A	X	8.402	8.402	0	% 100
64	M186A	Z	14.553	14.553	0	% 100





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**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,%]
65	M188A	X	8.85	8.85	0 % 100
66	M188A	Z	15.328	15.328	0 % 100
67	M190A	X	2.75	2.75	0 % 100
68	M190A	Z	4.763	4.763	0 % 100
69	M191A	X	0	0	0 % 100
70	M191A	Z	0	0	0 % 100
71	M193A	X	0	0	0 % 100
72	M193A	Z	0	0	0 % 100
73	M199A	X	4.812	4.812	0 % 100
74	M199A	Z	8.335	8.335	0 % 100
75	M199B	X	0	0	0 % 100
76	M199B	Z	0	0	0 % 100
77	M200A	X	4.812	4.812	0 % 100
78	M200A	Z	8.335	8.335	0 % 100
79	MP1A	X	4.354	4.354	0 % 100
80	MP1A	Z	7.541	7.541	0 % 100
81	MP2A	X	5.27	5.27	0 % 100
82	MP2A	Z	9.129	9.129	0 % 100
83	MP3A	X	4.354	4.354	0 % 100
84	MP3A	Z	7.541	7.541	0 % 100
85	MP4A	X	4.354	4.354	0 % 100
86	MP4A	Z	7.541	7.541	0 % 100
87	MP5A	X	4.354	4.354	0 % 100
88	MP5A	Z	7.541	7.541	0 % 100
89	MP1C	X	4.354	4.354	0 % 100
90	MP1C	Z	7.541	7.541	0 % 100
91	MP2C	X	5.27	5.27	0 % 100
92	MP2C	Z	9.129	9.129	0 % 100
93	MP3C	X	4.354	4.354	0 % 100
94	MP3C	Z	7.541	7.541	0 % 100
95	MP4C	X	4.354	4.354	0 % 100
96	MP4C	Z	7.541	7.541	0 % 100
97	MP5C	X	4.354	4.354	0 % 100
98	MP5C	Z	7.541	7.541	0 % 100
99	MP1B	X	4.354	4.354	0 % 100
100	MP1B	Z	7.541	7.541	0 % 100
101	MP2B	X	5.27	5.27	0 % 100
102	MP2B	Z	9.129	9.129	0 % 100
103	MP3B	X	4.354	4.354	0 % 100
104	MP3B	Z	7.541	7.541	0 % 100
105	MP4B	X	4.354	4.354	0 % 100
106	MP4B	Z	7.541	7.541	0 % 100
107	MP5B	X	4.354	4.354	0 % 100
108	MP5B	Z	7.541	7.541	0 % 100
109	M106	X	3.953	3.953	0 % 100
110	M106	Z	6.846	6.846	0 % 100
111	M111	X	0	0	0 % 100
112	M111	Z	0	0	0 % 100
113	M116	X	3.953	3.953	0 % 100
114	M116	Z	6.846	6.846	0 % 100
115	M130	X	0	0	0 % 100
116	M130	Z	0	0	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,%]
117	M131	X	4.514	4.514	0	% 100
118	M131	Z	7.819	7.819	0	% 100
119	M132	X	4.514	4.514	0	% 100
120	M132	Z	7.819	7.819	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	M4	X	0	0	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	11.029	11.029	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	11.029	11.029	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	21.998	21.998	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	3.054	3.054	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	3.054	3.054	0	% 100
13	M76	X	0	0	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	5.601	5.601	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	5.9	5.9	0	% 100
19	M84	X	0	0	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	5.601	5.601	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	5.9	5.9	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	9.775	9.775	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	2.757	2.757	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	2.757	2.757	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	5.5	5.5	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	3.054	3.054	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	12.215	12.215	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	16.499	16.499	0	% 100
39	M162A	X	0	0	0	% 100
40	M162A	Z	5.601	5.601	0	% 100
41	M164A	X	0	0	0	% 100
42	M164A	Z	5.9	5.9	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	16.499	16.499	0	% 100



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**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,%]
45	M167A	X	0	0	0 % 100
46	M167A	Z	22.406	22.406	0 % 100
47	M169A	X	0	0	0 % 100
48	M169A	Z	23.599	23.599	0 % 100
49	M174A	X	0	0	0 % 100
50	M174A	Z	9.775	9.775	0 % 100
51	M175A	X	0	0	0 % 100
52	M175A	Z	2.757	2.757	0 % 100
53	M176A	X	0	0	0 % 100
54	M176A	Z	2.757	2.757	0 % 100
55	M177A	X	0	0	0 % 100
56	M177A	Z	5.5	5.5	0 % 100
57	M180A	X	0	0	0 % 100
58	M180A	Z	12.215	12.215	0 % 100
59	M181A	X	0	0	0 % 100
60	M181A	Z	3.054	3.054	0 % 100
61	M185A	X	0	0	0 % 100
62	M185A	Z	16.499	16.499	0 % 100
63	M186A	X	0	0	0 % 100
64	M186A	Z	22.406	22.406	0 % 100
65	M188A	X	0	0	0 % 100
66	M188A	Z	23.599	23.599	0 % 100
67	M190A	X	0	0	0 % 100
68	M190A	Z	16.499	16.499	0 % 100
69	M191A	X	0	0	0 % 100
70	M191A	Z	5.601	5.601	0 % 100
71	M193A	X	0	0	0 % 100
72	M193A	Z	5.9	5.9	0 % 100
73	M199A	X	0	0	0 % 100
74	M199A	Z	12.832	12.832	0 % 100
75	M199B	X	0	0	0 % 100
76	M199B	Z	3.208	3.208	0 % 100
77	M200A	X	0	0	0 % 100
78	M200A	Z	3.208	3.208	0 % 100
79	MP1A	X	0	0	0 % 100
80	MP1A	Z	8.708	8.708	0 % 100
81	MP2A	X	0	0	0 % 100
82	MP2A	Z	10.541	10.541	0 % 100
83	MP3A	X	0	0	0 % 100
84	MP3A	Z	8.708	8.708	0 % 100
85	MP4A	X	0	0	0 % 100
86	MP4A	Z	8.708	8.708	0 % 100
87	MP5A	X	0	0	0 % 100
88	MP5A	Z	8.708	8.708	0 % 100
89	MP1C	X	0	0	0 % 100
90	MP1C	Z	8.708	8.708	0 % 100
91	MP2C	X	0	0	0 % 100
92	MP2C	Z	10.541	10.541	0 % 100
93	MP3C	X	0	0	0 % 100
94	MP3C	Z	8.708	8.708	0 % 100
95	MP4C	X	0	0	0 % 100
96	MP4C	Z	8.708	8.708	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, %]
97	MP5C	X	0	0	0	% 100
98	MP5C	Z	8.708	8.708	0	% 100
99	MP1B	X	0	0	0	% 100
100	MP1B	Z	8.708	8.708	0	% 100
101	MP2B	X	0	0	0	% 100
102	MP2B	Z	10.541	10.541	0	% 100
103	MP3B	X	0	0	0	% 100
104	MP3B	Z	8.708	8.708	0	% 100
105	MP4B	X	0	0	0	% 100
106	MP4B	Z	8.708	8.708	0	% 100
107	MP5B	X	0	0	0	% 100
108	MP5B	Z	8.708	8.708	0	% 100
109	M106	X	0	0	0	% 100
110	M106	Z	10.541	10.541	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	2.635	2.635	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	2.635	2.635	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	3.01	3.01	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	3.01	3.01	0	% 100
119	M132	X	0	0	0	% 100
120	M132	Z	12.038	12.038	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	M4	X	-1.629	-1.629	0	% 100
2	M4	Z	2.822	2.822	0	% 100
3	M10	X	-4.136	-4.136	0	% 100
4	M10	Z	7.163	7.163	0	% 100
5	M43	X	-4.136	-4.136	0	% 100
6	M43	Z	7.163	7.163	0	% 100
7	M46	X	-8.249	-8.249	0	% 100
8	M46	Z	14.288	14.288	0	% 100
9	M51B	X	-4.581	-4.581	0	% 100
10	M51B	Z	7.934	7.934	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	-2.75	-2.75	0	% 100
14	M76	Z	4.763	4.763	0	% 100
15	M77	X	-8.402	-8.402	0	% 100
16	M77	Z	14.553	14.553	0	% 100
17	M80	X	-8.85	-8.85	0	% 100
18	M80	Z	15.328	15.328	0	% 100
19	M84	X	-2.75	-2.75	0	% 100
20	M84	Z	4.763	4.763	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	0	0	0	% 100



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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, %]
25	M150A	X	-1.629	-1.629	0 % 100
26	M150A	Z	2.822	2.822	0 % 100
27	M151A	X	-4.136	-4.136	0 % 100
28	M151A	Z	7.163	7.163	0 % 100
29	M152A	X	-4.136	-4.136	0 % 100
30	M152A	Z	7.163	7.163	0 % 100
31	M153A	X	-8.249	-8.249	0 % 100
32	M153A	Z	14.288	14.288	0 % 100
33	M156A	X	0	0	0 % 100
34	M156A	Z	0	0	0 % 100
35	M157A	X	-4.581	-4.581	0 % 100
36	M157A	Z	7.934	7.934	0 % 100
37	M161A	X	-2.75	-2.75	0 % 100
38	M161A	Z	4.763	4.763	0 % 100
39	M162A	X	0	0	0 % 100
40	M162A	Z	0	0	0 % 100
41	M164A	X	0	0	0 % 100
42	M164A	Z	0	0	0 % 100
43	M166A	X	-2.75	-2.75	0 % 100
44	M166A	Z	4.763	4.763	0 % 100
45	M167A	X	-8.402	-8.402	0 % 100
46	M167A	Z	14.553	14.553	0 % 100
47	M169A	X	-8.85	-8.85	0 % 100
48	M169A	Z	15.328	15.328	0 % 100
49	M174A	X	-6.517	-6.517	0 % 100
50	M174A	Z	11.288	11.288	0 % 100
51	M175A	X	0	0	0 % 100
52	M175A	Z	0	0	0 % 100
53	M176A	X	0	0	0 % 100
54	M176A	Z	0	0	0 % 100
55	M177A	X	0	0	0 % 100
56	M177A	Z	0	0	0 % 100
57	M180A	X	-4.581	-4.581	0 % 100
58	M180A	Z	7.934	7.934	0 % 100
59	M181A	X	-4.581	-4.581	0 % 100
60	M181A	Z	7.934	7.934	0 % 100
61	M185A	X	-10.999	-10.999	0 % 100
62	M185A	Z	19.051	19.051	0 % 100
63	M186A	X	-8.402	-8.402	0 % 100
64	M186A	Z	14.553	14.553	0 % 100
65	M188A	X	-8.85	-8.85	0 % 100
66	M188A	Z	15.328	15.328	0 % 100
67	M190A	X	-10.999	-10.999	0 % 100
68	M190A	Z	19.051	19.051	0 % 100
69	M191A	X	-8.402	-8.402	0 % 100
70	M191A	Z	14.553	14.553	0 % 100
71	M193A	X	-8.85	-8.85	0 % 100
72	M193A	Z	15.328	15.328	0 % 100
73	M199A	X	-4.812	-4.812	0 % 100
74	M199A	Z	8.335	8.335	0 % 100
75	M199B	X	-4.812	-4.812	0 % 100
76	M199B	Z	8.335	8.335	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, %]
77	M200A	X	0	0	0	% 100
78	M200A	Z	0	0	0	% 100
79	MP1A	X	-4.354	-4.354	0	% 100
80	MP1A	Z	7.541	7.541	0	% 100
81	MP2A	X	-5.27	-5.27	0	% 100
82	MP2A	Z	9.129	9.129	0	% 100
83	MP3A	X	-4.354	-4.354	0	% 100
84	MP3A	Z	7.541	7.541	0	% 100
85	MP4A	X	-4.354	-4.354	0	% 100
86	MP4A	Z	7.541	7.541	0	% 100
87	MP5A	X	-4.354	-4.354	0	% 100
88	MP5A	Z	7.541	7.541	0	% 100
89	MP1C	X	-4.354	-4.354	0	% 100
90	MP1C	Z	7.541	7.541	0	% 100
91	MP2C	X	-5.27	-5.27	0	% 100
92	MP2C	Z	9.129	9.129	0	% 100
93	MP3C	X	-4.354	-4.354	0	% 100
94	MP3C	Z	7.541	7.541	0	% 100
95	MP4C	X	-4.354	-4.354	0	% 100
96	MP4C	Z	7.541	7.541	0	% 100
97	MP5C	X	-4.354	-4.354	0	% 100
98	MP5C	Z	7.541	7.541	0	% 100
99	MP1B	X	-4.354	-4.354	0	% 100
100	MP1B	Z	7.541	7.541	0	% 100
101	MP2B	X	-5.27	-5.27	0	% 100
102	MP2B	Z	9.129	9.129	0	% 100
103	MP3B	X	-4.354	-4.354	0	% 100
104	MP3B	Z	7.541	7.541	0	% 100
105	MP4B	X	-4.354	-4.354	0	% 100
106	MP4B	Z	7.541	7.541	0	% 100
107	MP5B	X	-4.354	-4.354	0	% 100
108	MP5B	Z	7.541	7.541	0	% 100
109	M106	X	-3.953	-3.953	0	% 100
110	M106	Z	6.846	6.846	0	% 100
111	M111	X	-3.953	-3.953	0	% 100
112	M111	Z	6.846	6.846	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	-4.514	-4.514	0	% 100
116	M130	Z	7.819	7.819	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	-4.514	-4.514	0	% 100
120	M132	Z	7.819	7.819	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	M4	X	-8.466	-8.466	0	% 100
2	M4	Z	4.888	4.888	0	% 100
3	M10	X	-2.388	-2.388	0	% 100
4	M10	Z	1.379	1.379	0	% 100





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**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, %]
5	M43	X	-2.388	-2.388	0	% 100
6	M43	Z	1.379	1.379	0	% 100
7	M46	X	-4.763	-4.763	0	% 100
8	M46	Z	2.75	2.75	0	% 100
9	M51B	X	-10.579	-10.579	0	% 100
10	M51B	Z	6.108	6.108	0	% 100
11	M52B	X	-2.645	-2.645	0	% 100
12	M52B	Z	1.527	1.527	0	% 100
13	M76	X	-14.288	-14.288	0	% 100
14	M76	Z	8.249	8.249	0	% 100
15	M77	X	-19.404	-19.404	0	% 100
16	M77	Z	11.203	11.203	0	% 100
17	M80	X	-20.438	-20.438	0	% 100
18	M80	Z	11.8	11.8	0	% 100
19	M84	X	-14.288	-14.288	0	% 100
20	M84	Z	8.249	8.249	0	% 100
21	M85	X	-4.851	-4.851	0	% 100
22	M85	Z	2.801	2.801	0	% 100
23	M91	X	-5.109	-5.109	0	% 100
24	M91	Z	2.95	2.95	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	-9.551	-9.551	0	% 100
28	M151A	Z	5.514	5.514	0	% 100
29	M152A	X	-9.551	-9.551	0	% 100
30	M152A	Z	5.514	5.514	0	% 100
31	M153A	X	-19.051	-19.051	0	% 100
32	M153A	Z	10.999	10.999	0	% 100
33	M156A	X	-2.645	-2.645	0	% 100
34	M156A	Z	1.527	1.527	0	% 100
35	M157A	X	-2.645	-2.645	0	% 100
36	M157A	Z	1.527	1.527	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	-4.851	-4.851	0	% 100
40	M162A	Z	2.801	2.801	0	% 100
41	M164A	X	-5.109	-5.109	0	% 100
42	M164A	Z	2.95	2.95	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	0	0	0	% 100
45	M167A	X	-4.851	-4.851	0	% 100
46	M167A	Z	2.801	2.801	0	% 100
47	M169A	X	-5.109	-5.109	0	% 100
48	M169A	Z	2.95	2.95	0	% 100
49	M174A	X	-8.466	-8.466	0	% 100
50	M174A	Z	4.888	4.888	0	% 100
51	M175A	X	-2.388	-2.388	0	% 100
52	M175A	Z	1.379	1.379	0	% 100
53	M176A	X	-2.388	-2.388	0	% 100
54	M176A	Z	1.379	1.379	0	% 100
55	M177A	X	-4.763	-4.763	0	% 100
56	M177A	Z	2.75	2.75	0	% 100



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**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, %]
57	M180A	X	-2.645	-2.645	0	% 100
58	M180A	Z	1.527	1.527	0	% 100
59	M181A	X	-10.579	-10.579	0	% 100
60	M181A	Z	6.108	6.108	0	% 100
61	M185A	X	-14.288	-14.288	0	% 100
62	M185A	Z	8.249	8.249	0	% 100
63	M186A	X	-4.851	-4.851	0	% 100
64	M186A	Z	2.801	2.801	0	% 100
65	M188A	X	-5.109	-5.109	0	% 100
66	M188A	Z	2.95	2.95	0	% 100
67	M190A	X	-14.288	-14.288	0	% 100
68	M190A	Z	8.249	8.249	0	% 100
69	M191A	X	-19.404	-19.404	0	% 100
70	M191A	Z	11.203	11.203	0	% 100
71	M193A	X	-20.438	-20.438	0	% 100
72	M193A	Z	11.8	11.8	0	% 100
73	M199A	X	-2.778	-2.778	0	% 100
74	M199A	Z	1.604	1.604	0	% 100
75	M199B	X	-11.113	-11.113	0	% 100
76	M199B	Z	6.416	6.416	0	% 100
77	M200A	X	-2.778	-2.778	0	% 100
78	M200A	Z	1.604	1.604	0	% 100
79	MP1A	X	-7.541	-7.541	0	% 100
80	MP1A	Z	4.354	4.354	0	% 100
81	MP2A	X	-9.129	-9.129	0	% 100
82	MP2A	Z	5.27	5.27	0	% 100
83	MP3A	X	-7.541	-7.541	0	% 100
84	MP3A	Z	4.354	4.354	0	% 100
85	MP4A	X	-7.541	-7.541	0	% 100
86	MP4A	Z	4.354	4.354	0	% 100
87	MP5A	X	-7.541	-7.541	0	% 100
88	MP5A	Z	4.354	4.354	0	% 100
89	MP1C	X	-7.541	-7.541	0	% 100
90	MP1C	Z	4.354	4.354	0	% 100
91	MP2C	X	-9.129	-9.129	0	% 100
92	MP2C	Z	5.27	5.27	0	% 100
93	MP3C	X	-7.541	-7.541	0	% 100
94	MP3C	Z	4.354	4.354	0	% 100
95	MP4C	X	-7.541	-7.541	0	% 100
96	MP4C	Z	4.354	4.354	0	% 100
97	MP5C	X	-7.541	-7.541	0	% 100
98	MP5C	Z	4.354	4.354	0	% 100
99	MP1B	X	-7.541	-7.541	0	% 100
100	MP1B	Z	4.354	4.354	0	% 100
101	MP2B	X	-9.129	-9.129	0	% 100
102	MP2B	Z	5.27	5.27	0	% 100
103	MP3B	X	-7.541	-7.541	0	% 100
104	MP3B	Z	4.354	4.354	0	% 100
105	MP4B	X	-7.541	-7.541	0	% 100
106	MP4B	Z	4.354	4.354	0	% 100
107	MP5B	X	-7.541	-7.541	0	% 100
108	MP5B	Z	4.354	4.354	0	% 100



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**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, %]
109	M106	X	-2.282	-2.282	0	% 100
110	M106	Z	1.318	1.318	0	% 100
111	M111	X	-9.129	-9.129	0	% 100
112	M111	Z	5.27	5.27	0	% 100
113	M116	X	-2.282	-2.282	0	% 100
114	M116	Z	1.318	1.318	0	% 100
115	M130	X	-10.425	-10.425	0	% 100
116	M130	Z	6.019	6.019	0	% 100
117	M131	X	-2.606	-2.606	0	% 100
118	M131	Z	1.505	1.505	0	% 100
119	M132	X	-2.606	-2.606	0	% 100
120	M132	Z	1.505	1.505	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	M4	X	-13.034	-13.034	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	0	0	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	0	0	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	0	0	0	% 100
9	M51B	X	-9.161	-9.161	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	-9.161	-9.161	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	-21.998	-21.998	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	-16.804	-16.804	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	-17.699	-17.699	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	-21.998	-21.998	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	-16.804	-16.804	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	-17.699	-17.699	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	-3.258	-3.258	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	-8.272	-8.272	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	-8.272	-8.272	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	-16.499	-16.499	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	-9.161	-9.161	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	0	0	0	% 100



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**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, %]
37	M161A	X	-5.5	-5.5	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	-16.804	-16.804	0	% 100
40	M162A	Z	0	0	0	% 100
41	M164A	X	-17.699	-17.699	0	% 100
42	M164A	Z	0	0	0	% 100
43	M166A	X	-5.5	-5.5	0	% 100
44	M166A	Z	0	0	0	% 100
45	M167A	X	0	0	0	% 100
46	M167A	Z	0	0	0	% 100
47	M169A	X	0	0	0	% 100
48	M169A	Z	0	0	0	% 100
49	M174A	X	-3.258	-3.258	0	% 100
50	M174A	Z	0	0	0	% 100
51	M175A	X	-8.272	-8.272	0	% 100
52	M175A	Z	0	0	0	% 100
53	M176A	X	-8.272	-8.272	0	% 100
54	M176A	Z	0	0	0	% 100
55	M177A	X	-16.499	-16.499	0	% 100
56	M177A	Z	0	0	0	% 100
57	M180A	X	0	0	0	% 100
58	M180A	Z	0	0	0	% 100
59	M181A	X	-9.161	-9.161	0	% 100
60	M181A	Z	0	0	0	% 100
61	M185A	X	-5.5	-5.5	0	% 100
62	M185A	Z	0	0	0	% 100
63	M186A	X	0	0	0	% 100
64	M186A	Z	0	0	0	% 100
65	M188A	X	0	0	0	% 100
66	M188A	Z	0	0	0	% 100
67	M190A	X	-5.5	-5.5	0	% 100
68	M190A	Z	0	0	0	% 100
69	M191A	X	-16.804	-16.804	0	% 100
70	M191A	Z	0	0	0	% 100
71	M193A	X	-17.699	-17.699	0	% 100
72	M193A	Z	0	0	0	% 100
73	M199A	X	0	0	0	% 100
74	M199A	Z	0	0	0	% 100
75	M199B	X	-9.624	-9.624	0	% 100
76	M199B	Z	0	0	0	% 100
77	M200A	X	-9.624	-9.624	0	% 100
78	M200A	Z	0	0	0	% 100
79	MP1A	X	-8.708	-8.708	0	% 100
80	MP1A	Z	0	0	0	% 100
81	MP2A	X	-10.541	-10.541	0	% 100
82	MP2A	Z	0	0	0	% 100
83	MP3A	X	-8.708	-8.708	0	% 100
84	MP3A	Z	0	0	0	% 100
85	MP4A	X	-8.708	-8.708	0	% 100
86	MP4A	Z	0	0	0	% 100
87	MP5A	X	-8.708	-8.708	0	% 100
88	MP5A	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, %]
89	MP1C	X	-8.708	-8.708	0	% 100
90	MP1C	Z	0	0	0	% 100
91	MP2C	X	-10.541	-10.541	0	% 100
92	MP2C	Z	0	0	0	% 100
93	MP3C	X	-8.708	-8.708	0	% 100
94	MP3C	Z	0	0	0	% 100
95	MP4C	X	-8.708	-8.708	0	% 100
96	MP4C	Z	0	0	0	% 100
97	MP5C	X	-8.708	-8.708	0	% 100
98	MP5C	Z	0	0	0	% 100
99	MP1B	X	-8.708	-8.708	0	% 100
100	MP1B	Z	0	0	0	% 100
101	MP2B	X	-10.541	-10.541	0	% 100
102	MP2B	Z	0	0	0	% 100
103	MP3B	X	-8.708	-8.708	0	% 100
104	MP3B	Z	0	0	0	% 100
105	MP4B	X	-8.708	-8.708	0	% 100
106	MP4B	Z	0	0	0	% 100
107	MP5B	X	-8.708	-8.708	0	% 100
108	MP5B	Z	0	0	0	% 100
109	M106	X	0	0	0	% 100
110	M106	Z	0	0	0	% 100
111	M111	X	-7.906	-7.906	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	-7.906	-7.906	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	-9.029	-9.029	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	-9.029	-9.029	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	0	0	0	% 100
120	M132	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	M4	X	-8.466	-8.466	0	% 100
2	M4	Z	-4.888	-4.888	0	% 100
3	M10	X	-2.388	-2.388	0	% 100
4	M10	Z	-1.379	-1.379	0	% 100
5	M43	X	-2.388	-2.388	0	% 100
6	M43	Z	-1.379	-1.379	0	% 100
7	M46	X	-4.763	-4.763	0	% 100
8	M46	Z	-2.75	-2.75	0	% 100
9	M51B	X	-2.645	-2.645	0	% 100
10	M51B	Z	-1.527	-1.527	0	% 100
11	M52B	X	-10.579	-10.579	0	% 100
12	M52B	Z	-6.108	-6.108	0	% 100
13	M76	X	-14.288	-14.288	0	% 100
14	M76	Z	-8.249	-8.249	0	% 100
15	M77	X	-4.851	-4.851	0	% 100
16	M77	Z	-2.801	-2.801	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
17	M80	X	-5.109	-5.109	0	% 100
18	M80	Z	-2.95	-2.95	0	% 100
19	M84	X	-14.288	-14.288	0	% 100
20	M84	Z	-8.249	-8.249	0	% 100
21	M85	X	-19.404	-19.404	0	% 100
22	M85	Z	-11.203	-11.203	0	% 100
23	M91	X	-20.438	-20.438	0	% 100
24	M91	Z	-11.8	-11.8	0	% 100
25	M150A	X	-8.466	-8.466	0	% 100
26	M150A	Z	-4.888	-4.888	0	% 100
27	M151A	X	-2.388	-2.388	0	% 100
28	M151A	Z	-1.379	-1.379	0	% 100
29	M152A	X	-2.388	-2.388	0	% 100
30	M152A	Z	-1.379	-1.379	0	% 100
31	M153A	X	-4.763	-4.763	0	% 100
32	M153A	Z	-2.75	-2.75	0	% 100
33	M156A	X	-10.579	-10.579	0	% 100
34	M156A	Z	-6.108	-6.108	0	% 100
35	M157A	X	-2.645	-2.645	0	% 100
36	M157A	Z	-1.527	-1.527	0	% 100
37	M161A	X	-14.288	-14.288	0	% 100
38	M161A	Z	-8.249	-8.249	0	% 100
39	M162A	X	-19.404	-19.404	0	% 100
40	M162A	Z	-11.203	-11.203	0	% 100
41	M164A	X	-20.438	-20.438	0	% 100
42	M164A	Z	-11.8	-11.8	0	% 100
43	M166A	X	-14.288	-14.288	0	% 100
44	M166A	Z	-8.249	-8.249	0	% 100
45	M167A	X	-4.851	-4.851	0	% 100
46	M167A	Z	-2.801	-2.801	0	% 100
47	M169A	X	-5.109	-5.109	0	% 100
48	M169A	Z	-2.95	-2.95	0	% 100
49	M174A	X	0	0	0	% 100
50	M174A	Z	0	0	0	% 100
51	M175A	X	-9.551	-9.551	0	% 100
52	M175A	Z	-5.514	-5.514	0	% 100
53	M176A	X	-9.551	-9.551	0	% 100
54	M176A	Z	-5.514	-5.514	0	% 100
55	M177A	X	-19.051	-19.051	0	% 100
56	M177A	Z	-10.999	-10.999	0	% 100
57	M180A	X	-2.645	-2.645	0	% 100
58	M180A	Z	-1.527	-1.527	0	% 100
59	M181A	X	-2.645	-2.645	0	% 100
60	M181A	Z	-1.527	-1.527	0	% 100
61	M185A	X	0	0	0	% 100
62	M185A	Z	0	0	0	% 100
63	M186A	X	-4.851	-4.851	0	% 100
64	M186A	Z	-2.801	-2.801	0	% 100
65	M188A	X	-5.109	-5.109	0	% 100
66	M188A	Z	-2.95	-2.95	0	% 100
67	M190A	X	0	0	0	% 100
68	M190A	Z	0	0	0	% 100





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**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, %]
69	M191A	X	-4.851	-4.851	0	% 100
70	M191A	Z	-2.801	-2.801	0	% 100
71	M193A	X	-5.109	-5.109	0	% 100
72	M193A	Z	-2.95	-2.95	0	% 100
73	M199A	X	-2.778	-2.778	0	% 100
74	M199A	Z	-1.604	-1.604	0	% 100
75	M199B	X	-2.778	-2.778	0	% 100
76	M199B	Z	-1.604	-1.604	0	% 100
77	M200A	X	-11.113	-11.113	0	% 100
78	M200A	Z	-6.416	-6.416	0	% 100
79	MP1A	X	-7.541	-7.541	0	% 100
80	MP1A	Z	-4.354	-4.354	0	% 100
81	MP2A	X	-9.129	-9.129	0	% 100
82	MP2A	Z	-5.27	-5.27	0	% 100
83	MP3A	X	-7.541	-7.541	0	% 100
84	MP3A	Z	-4.354	-4.354	0	% 100
85	MP4A	X	-7.541	-7.541	0	% 100
86	MP4A	Z	-4.354	-4.354	0	% 100
87	MP5A	X	-7.541	-7.541	0	% 100
88	MP5A	Z	-4.354	-4.354	0	% 100
89	MP1C	X	-7.541	-7.541	0	% 100
90	MP1C	Z	-4.354	-4.354	0	% 100
91	MP2C	X	-9.129	-9.129	0	% 100
92	MP2C	Z	-5.27	-5.27	0	% 100
93	MP3C	X	-7.541	-7.541	0	% 100
94	MP3C	Z	-4.354	-4.354	0	% 100
95	MP4C	X	-7.541	-7.541	0	% 100
96	MP4C	Z	-4.354	-4.354	0	% 100
97	MP5C	X	-7.541	-7.541	0	% 100
98	MP5C	Z	-4.354	-4.354	0	% 100
99	MP1B	X	-7.541	-7.541	0	% 100
100	MP1B	Z	-4.354	-4.354	0	% 100
101	MP2B	X	-9.129	-9.129	0	% 100
102	MP2B	Z	-5.27	-5.27	0	% 100
103	MP3B	X	-7.541	-7.541	0	% 100
104	MP3B	Z	-4.354	-4.354	0	% 100
105	MP4B	X	-7.541	-7.541	0	% 100
106	MP4B	Z	-4.354	-4.354	0	% 100
107	MP5B	X	-7.541	-7.541	0	% 100
108	MP5B	Z	-4.354	-4.354	0	% 100
109	M106	X	-2.282	-2.282	0	% 100
110	M106	Z	-1.318	-1.318	0	% 100
111	M111	X	-2.282	-2.282	0	% 100
112	M111	Z	-1.318	-1.318	0	% 100
113	M116	X	-9.129	-9.129	0	% 100
114	M116	Z	-5.27	-5.27	0	% 100
115	M130	X	-2.606	-2.606	0	% 100
116	M130	Z	-1.505	-1.505	0	% 100
117	M131	X	-10.425	-10.425	0	% 100
118	M131	Z	-6.019	-6.019	0	% 100
119	M132	X	-2.606	-2.606	0	% 100
120	M132	Z	-1.505	-1.505	0	% 100



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**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	M4	X	-1.629	-1.629	0	% 100
2	M4	Z	-2.822	-2.822	0	% 100
3	M10	X	-4.136	-4.136	0	% 100
4	M10	Z	-7.163	-7.163	0	% 100
5	M43	X	-4.136	-4.136	0	% 100
6	M43	Z	-7.163	-7.163	0	% 100
7	M46	X	-8.249	-8.249	0	% 100
8	M46	Z	-14.288	-14.288	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	-4.581	-4.581	0	% 100
12	M52B	Z	-7.934	-7.934	0	% 100
13	M76	X	-2.75	-2.75	0	% 100
14	M76	Z	-4.763	-4.763	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	-2.75	-2.75	0	% 100
20	M84	Z	-4.763	-4.763	0	% 100
21	M85	X	-8.402	-8.402	0	% 100
22	M85	Z	-14.553	-14.553	0	% 100
23	M91	X	-8.85	-8.85	0	% 100
24	M91	Z	-15.328	-15.328	0	% 100
25	M150A	X	-6.517	-6.517	0	% 100
26	M150A	Z	-11.288	-11.288	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	-4.581	-4.581	0	% 100
34	M156A	Z	-7.934	-7.934	0	% 100
35	M157A	X	-4.581	-4.581	0	% 100
36	M157A	Z	-7.934	-7.934	0	% 100
37	M161A	X	-10.999	-10.999	0	% 100
38	M161A	Z	-19.051	-19.051	0	% 100
39	M162A	X	-8.402	-8.402	0	% 100
40	M162A	Z	-14.553	-14.553	0	% 100
41	M164A	X	-8.85	-8.85	0	% 100
42	M164A	Z	-15.328	-15.328	0	% 100
43	M166A	X	-10.999	-10.999	0	% 100
44	M166A	Z	-19.051	-19.051	0	% 100
45	M167A	X	-8.402	-8.402	0	% 100
46	M167A	Z	-14.553	-14.553	0	% 100
47	M169A	X	-8.85	-8.85	0	% 100
48	M169A	Z	-15.328	-15.328	0	% 100
49	M174A	X	-1.629	-1.629	0	% 100
50	M174A	Z	-2.822	-2.822	0	% 100
51	M175A	X	-4.136	-4.136	0	% 100
52	M175A	Z	-7.163	-7.163	0	% 100



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**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,%]
53	M176A	X	-4.136	-4.136	0 %100
54	M176A	Z	-7.163	-7.163	0 %100
55	M177A	X	-8.249	-8.249	0 %100
56	M177A	Z	-14.288	-14.288	0 %100
57	M180A	X	-4.581	-4.581	0 %100
58	M180A	Z	-7.934	-7.934	0 %100
59	M181A	X	0	0	0 %100
60	M181A	Z	0	0	0 %100
61	M185A	X	-2.75	-2.75	0 %100
62	M185A	Z	-4.763	-4.763	0 %100
63	M186A	X	-8.402	-8.402	0 %100
64	M186A	Z	-14.553	-14.553	0 %100
65	M188A	X	-8.85	-8.85	0 %100
66	M188A	Z	-15.328	-15.328	0 %100
67	M190A	X	-2.75	-2.75	0 %100
68	M190A	Z	-4.763	-4.763	0 %100
69	M191A	X	0	0	0 %100
70	M191A	Z	0	0	0 %100
71	M193A	X	0	0	0 %100
72	M193A	Z	0	0	0 %100
73	M199A	X	-4.812	-4.812	0 %100
74	M199A	Z	-8.335	-8.335	0 %100
75	M199B	X	0	0	0 %100
76	M199B	Z	0	0	0 %100
77	M200A	X	-4.812	-4.812	0 %100
78	M200A	Z	-8.335	-8.335	0 %100
79	MP1A	X	-4.354	-4.354	0 %100
80	MP1A	Z	-7.541	-7.541	0 %100
81	MP2A	X	-5.27	-5.27	0 %100
82	MP2A	Z	-9.129	-9.129	0 %100
83	MP3A	X	-4.354	-4.354	0 %100
84	MP3A	Z	-7.541	-7.541	0 %100
85	MP4A	X	-4.354	-4.354	0 %100
86	MP4A	Z	-7.541	-7.541	0 %100
87	MP5A	X	-4.354	-4.354	0 %100
88	MP5A	Z	-7.541	-7.541	0 %100
89	MP1C	X	-4.354	-4.354	0 %100
90	MP1C	Z	-7.541	-7.541	0 %100
91	MP2C	X	-5.27	-5.27	0 %100
92	MP2C	Z	-9.129	-9.129	0 %100
93	MP3C	X	-4.354	-4.354	0 %100
94	MP3C	Z	-7.541	-7.541	0 %100
95	MP4C	X	-4.354	-4.354	0 %100
96	MP4C	Z	-7.541	-7.541	0 %100
97	MP5C	X	-4.354	-4.354	0 %100
98	MP5C	Z	-7.541	-7.541	0 %100
99	MP1B	X	-4.354	-4.354	0 %100
100	MP1B	Z	-7.541	-7.541	0 %100
101	MP2B	X	-5.27	-5.27	0 %100
102	MP2B	Z	-9.129	-9.129	0 %100
103	MP3B	X	-4.354	-4.354	0 %100
104	MP3B	Z	-7.541	-7.541	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, %]
105	MP4B	X	-4.354	-4.354	0	% 100
106	MP4B	Z	-7.541	-7.541	0	% 100
107	MP5B	X	-4.354	-4.354	0	% 100
108	MP5B	Z	-7.541	-7.541	0	% 100
109	M106	X	-3.953	-3.953	0	% 100
110	M106	Z	-6.846	-6.846	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	-3.953	-3.953	0	% 100
114	M116	Z	-6.846	-6.846	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	-4.514	-4.514	0	% 100
118	M131	Z	-7.819	-7.819	0	% 100
119	M132	X	-4.514	-4.514	0	% 100
120	M132	Z	-7.819	-7.819	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	M4	X	0	0	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	-3.299	-3.299	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	-3.299	-3.299	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	-5.165	-5.165	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	-.949	-.949	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	-.949	-.949	0	% 100
13	M76	X	0	0	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	-1.289	-1.289	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	-1.346	-1.346	0	% 100
19	M84	X	0	0	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	-1.289	-1.289	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	-1.346	-1.346	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	-3.032	-3.032	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	-.825	-.825	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	-.825	-.825	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	-1.291	-1.291	0	% 100



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**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	M156A	X	0	0	0 %100
34	M156A	Z	-0.949	-0.949	0 %100
35	M157A	X	0	0	0 %100
36	M157A	Z	-3.798	-3.798	0 %100
37	M161A	X	0	0	0 %100
38	M161A	Z	-3.81	-3.81	0 %100
39	M162A	X	0	0	0 %100
40	M162A	Z	-1.289	-1.289	0 %100
41	M164A	X	0	0	0 %100
42	M164A	Z	-1.346	-1.346	0 %100
43	M166A	X	0	0	0 %100
44	M166A	Z	-3.81	-3.81	0 %100
45	M167A	X	0	0	0 %100
46	M167A	Z	-5.156	-5.156	0 %100
47	M169A	X	0	0	0 %100
48	M169A	Z	-5.382	-5.382	0 %100
49	M174A	X	0	0	0 %100
50	M174A	Z	-3.032	-3.032	0 %100
51	M175A	X	0	0	0 %100
52	M175A	Z	-0.825	-0.825	0 %100
53	M176A	X	0	0	0 %100
54	M176A	Z	-0.825	-0.825	0 %100
55	M177A	X	0	0	0 %100
56	M177A	Z	-1.291	-1.291	0 %100
57	M180A	X	0	0	0 %100
58	M180A	Z	-3.798	-3.798	0 %100
59	M181A	X	0	0	0 %100
60	M181A	Z	-0.949	-0.949	0 %100
61	M185A	X	0	0	0 %100
62	M185A	Z	-3.81	-3.81	0 %100
63	M186A	X	0	0	0 %100
64	M186A	Z	-5.156	-5.156	0 %100
65	M188A	X	0	0	0 %100
66	M188A	Z	-5.382	-5.382	0 %100
67	M190A	X	0	0	0 %100
68	M190A	Z	-3.81	-3.81	0 %100
69	M191A	X	0	0	0 %100
70	M191A	Z	-1.289	-1.289	0 %100
71	M193A	X	0	0	0 %100
72	M193A	Z	-1.346	-1.346	0 %100
73	M199A	X	0	0	0 %100
74	M199A	Z	-4.005	-4.005	0 %100
75	M199B	X	0	0	0 %100
76	M199B	Z	-1.001	-1.001	0 %100
77	M200A	X	0	0	0 %100
78	M200A	Z	-1.001	-1.001	0 %100
79	MP1A	X	0	0	0 %100
80	MP1A	Z	-3.225	-3.225	0 %100
81	MP2A	X	0	0	0 %100
82	MP2A	Z	-3.571	-3.571	0 %100
83	MP3A	X	0	0	0 %100
84	MP3A	Z	-3.225	-3.225	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, %]
85	MP4A	X	0	0	0	% 100
86	MP4A	Z	-3.225	-3.225	0	% 100
87	MP5A	X	0	0	0	% 100
88	MP5A	Z	-3.225	-3.225	0	% 100
89	MP1C	X	0	0	0	% 100
90	MP1C	Z	-3.225	-3.225	0	% 100
91	MP2C	X	0	0	0	% 100
92	MP2C	Z	-3.571	-3.571	0	% 100
93	MP3C	X	0	0	0	% 100
94	MP3C	Z	-3.225	-3.225	0	% 100
95	MP4C	X	0	0	0	% 100
96	MP4C	Z	-3.225	-3.225	0	% 100
97	MP5C	X	0	0	0	% 100
98	MP5C	Z	-3.225	-3.225	0	% 100
99	MP1B	X	0	0	0	% 100
100	MP1B	Z	-3.225	-3.225	0	% 100
101	MP2B	X	0	0	0	% 100
102	MP2B	Z	-3.571	-3.571	0	% 100
103	MP3B	X	0	0	0	% 100
104	MP3B	Z	-3.225	-3.225	0	% 100
105	MP4B	X	0	0	0	% 100
106	MP4B	Z	-3.225	-3.225	0	% 100
107	MP5B	X	0	0	0	% 100
108	MP5B	Z	-3.225	-3.225	0	% 100
109	M106	X	0	0	0	% 100
110	M106	Z	-3.571	-3.571	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	-.893	-.893	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	-.893	-.893	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	-.829	-.829	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	-.829	-.829	0	% 100
119	M132	X	0	0	0	% 100
120	M132	Z	-3.318	-3.318	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	M4	X	.505	.505	0	% 100
2	M4	Z	-.875	-.875	0	% 100
3	M10	X	1.237	1.237	0	% 100
4	M10	Z	-2.142	-2.142	0	% 100
5	M43	X	1.237	1.237	0	% 100
6	M43	Z	-2.142	-2.142	0	% 100
7	M46	X	1.937	1.937	0	% 100
8	M46	Z	-3.355	-3.355	0	% 100
9	M51B	X	1.424	1.424	0	% 100
10	M51B	Z	-2.467	-2.467	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	0	0	0	% 100





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**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,%]
13	M76	X	.635	.635	0	% 100
14	M76	Z	-1.1	-1.1	0	% 100
15	M77	X	1.934	1.934	0	% 100
16	M77	Z	-3.349	-3.349	0	% 100
17	M80	X	2.018	2.018	0	% 100
18	M80	Z	-3.496	-3.496	0	% 100
19	M84	X	.635	.635	0	% 100
20	M84	Z	-1.1	-1.1	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	.505	.505	0	% 100
26	M150A	Z	-.875	-.875	0	% 100
27	M151A	X	1.237	1.237	0	% 100
28	M151A	Z	-2.142	-2.142	0	% 100
29	M152A	X	1.237	1.237	0	% 100
30	M152A	Z	-2.142	-2.142	0	% 100
31	M153A	X	1.937	1.937	0	% 100
32	M153A	Z	-3.355	-3.355	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	1.424	1.424	0	% 100
36	M157A	Z	-2.467	-2.467	0	% 100
37	M161A	X	.635	.635	0	% 100
38	M161A	Z	-1.1	-1.1	0	% 100
39	M162A	X	0	0	0	% 100
40	M162A	Z	0	0	0	% 100
41	M164A	X	0	0	0	% 100
42	M164A	Z	0	0	0	% 100
43	M166A	X	.635	.635	0	% 100
44	M166A	Z	-1.1	-1.1	0	% 100
45	M167A	X	1.934	1.934	0	% 100
46	M167A	Z	-3.349	-3.349	0	% 100
47	M169A	X	2.018	2.018	0	% 100
48	M169A	Z	-3.496	-3.496	0	% 100
49	M174A	X	2.021	2.021	0	% 100
50	M174A	Z	-3.501	-3.501	0	% 100
51	M175A	X	0	0	0	% 100
52	M175A	Z	0	0	0	% 100
53	M176A	X	0	0	0	% 100
54	M176A	Z	0	0	0	% 100
55	M177A	X	0	0	0	% 100
56	M177A	Z	0	0	0	% 100
57	M180A	X	1.424	1.424	0	% 100
58	M180A	Z	-2.467	-2.467	0	% 100
59	M181A	X	1.424	1.424	0	% 100
60	M181A	Z	-2.467	-2.467	0	% 100
61	M185A	X	2.54	2.54	0	% 100
62	M185A	Z	-4.399	-4.399	0	% 100
63	M186A	X	1.934	1.934	0	% 100
64	M186A	Z	-3.349	-3.349	0	% 100



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**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, %]
65	M188A	X	2.018	2.018	0 % 100
66	M188A	Z	-3.496	-3.496	0 % 100
67	M190A	X	2.54	2.54	0 % 100
68	M190A	Z	-4.399	-4.399	0 % 100
69	M191A	X	1.934	1.934	0 % 100
70	M191A	Z	-3.349	-3.349	0 % 100
71	M193A	X	2.018	2.018	0 % 100
72	M193A	Z	-3.496	-3.496	0 % 100
73	M199A	X	1.502	1.502	0 % 100
74	M199A	Z	-2.601	-2.601	0 % 100
75	M199B	X	1.502	1.502	0 % 100
76	M199B	Z	-2.601	-2.601	0 % 100
77	M200A	X	0	0	0 % 100
78	M200A	Z	0	0	0 % 100
79	MP1A	X	1.612	1.612	0 % 100
80	MP1A	Z	-2.793	-2.793	0 % 100
81	MP2A	X	1.786	1.786	0 % 100
82	MP2A	Z	-3.093	-3.093	0 % 100
83	MP3A	X	1.612	1.612	0 % 100
84	MP3A	Z	-2.793	-2.793	0 % 100
85	MP4A	X	1.612	1.612	0 % 100
86	MP4A	Z	-2.793	-2.793	0 % 100
87	MP5A	X	1.612	1.612	0 % 100
88	MP5A	Z	-2.793	-2.793	0 % 100
89	MP1C	X	1.612	1.612	0 % 100
90	MP1C	Z	-2.793	-2.793	0 % 100
91	MP2C	X	1.786	1.786	0 % 100
92	MP2C	Z	-3.093	-3.093	0 % 100
93	MP3C	X	1.612	1.612	0 % 100
94	MP3C	Z	-2.793	-2.793	0 % 100
95	MP4C	X	1.612	1.612	0 % 100
96	MP4C	Z	-2.793	-2.793	0 % 100
97	MP5C	X	1.612	1.612	0 % 100
98	MP5C	Z	-2.793	-2.793	0 % 100
99	MP1B	X	1.612	1.612	0 % 100
100	MP1B	Z	-2.793	-2.793	0 % 100
101	MP2B	X	1.786	1.786	0 % 100
102	MP2B	Z	-3.093	-3.093	0 % 100
103	MP3B	X	1.612	1.612	0 % 100
104	MP3B	Z	-2.793	-2.793	0 % 100
105	MP4B	X	1.612	1.612	0 % 100
106	MP4B	Z	-2.793	-2.793	0 % 100
107	MP5B	X	1.612	1.612	0 % 100
108	MP5B	Z	-2.793	-2.793	0 % 100
109	M106	X	1.339	1.339	0 % 100
110	M106	Z	-2.32	-2.32	0 % 100
111	M111	X	1.339	1.339	0 % 100
112	M111	Z	-2.32	-2.32	0 % 100
113	M116	X	0	0	0 % 100
114	M116	Z	0	0	0 % 100
115	M130	X	1.244	1.244	0 % 100
116	M130	Z	-2.155	-2.155	0 % 100



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**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,%]
117	M131	X	0	0	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	1.244	1.244	0	% 100
120	M132	Z	-2.155	-2.155	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	M4	X	2.626	2.626	0	% 100
2	M4	Z	-1.516	-1.516	0	% 100
3	M10	X	.714	.714	0	% 100
4	M10	Z	-.412	-.412	0	% 100
5	M43	X	.714	.714	0	% 100
6	M43	Z	-.412	-.412	0	% 100
7	M46	X	1.118	1.118	0	% 100
8	M46	Z	-.646	-.646	0	% 100
9	M51B	X	3.289	3.289	0	% 100
10	M51B	Z	-1.899	-1.899	0	% 100
11	M52B	X	.822	.822	0	% 100
12	M52B	Z	-.475	-.475	0	% 100
13	M76	X	3.299	3.299	0	% 100
14	M76	Z	-1.905	-1.905	0	% 100
15	M77	X	4.466	4.466	0	% 100
16	M77	Z	-2.578	-2.578	0	% 100
17	M80	X	4.661	4.661	0	% 100
18	M80	Z	-2.691	-2.691	0	% 100
19	M84	X	3.299	3.299	0	% 100
20	M84	Z	-1.905	-1.905	0	% 100
21	M85	X	1.116	1.116	0	% 100
22	M85	Z	-.645	-.645	0	% 100
23	M91	X	1.165	1.165	0	% 100
24	M91	Z	-.673	-.673	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	2.857	2.857	0	% 100
28	M151A	Z	-1.649	-1.649	0	% 100
29	M152A	X	2.857	2.857	0	% 100
30	M152A	Z	-1.649	-1.649	0	% 100
31	M153A	X	4.473	4.473	0	% 100
32	M153A	Z	-2.583	-2.583	0	% 100
33	M156A	X	.822	.822	0	% 100
34	M156A	Z	-.475	-.475	0	% 100
35	M157A	X	.822	.822	0	% 100
36	M157A	Z	-.475	-.475	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	1.116	1.116	0	% 100
40	M162A	Z	-.645	-.645	0	% 100
41	M164A	X	1.165	1.165	0	% 100
42	M164A	Z	-.673	-.673	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	0	0	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, %]
45	M167A	X	1.116	1.116	0 % 100
46	M167A	Z	-.645	-.645	0 % 100
47	M169A	X	1.165	1.165	0 % 100
48	M169A	Z	-.673	-.673	0 % 100
49	M174A	X	2.626	2.626	0 % 100
50	M174A	Z	-1.516	-1.516	0 % 100
51	M175A	X	.714	.714	0 % 100
52	M175A	Z	-.412	-.412	0 % 100
53	M176A	X	.714	.714	0 % 100
54	M176A	Z	-.412	-.412	0 % 100
55	M177A	X	1.118	1.118	0 % 100
56	M177A	Z	-.646	-.646	0 % 100
57	M180A	X	.822	.822	0 % 100
58	M180A	Z	-.475	-.475	0 % 100
59	M181A	X	3.289	3.289	0 % 100
60	M181A	Z	-1.899	-1.899	0 % 100
61	M185A	X	3.299	3.299	0 % 100
62	M185A	Z	-1.905	-1.905	0 % 100
63	M186A	X	1.116	1.116	0 % 100
64	M186A	Z	-.645	-.645	0 % 100
65	M188A	X	1.165	1.165	0 % 100
66	M188A	Z	-.673	-.673	0 % 100
67	M190A	X	3.299	3.299	0 % 100
68	M190A	Z	-1.905	-1.905	0 % 100
69	M191A	X	4.466	4.466	0 % 100
70	M191A	Z	-2.578	-2.578	0 % 100
71	M193A	X	4.661	4.661	0 % 100
72	M193A	Z	-2.691	-2.691	0 % 100
73	M199A	X	.867	.867	0 % 100
74	M199A	Z	-.501	-.501	0 % 100
75	M199B	X	3.468	3.468	0 % 100
76	M199B	Z	-2.002	-2.002	0 % 100
77	M200A	X	.867	.867	0 % 100
78	M200A	Z	-.501	-.501	0 % 100
79	MP1A	X	2.793	2.793	0 % 100
80	MP1A	Z	-1.612	-1.612	0 % 100
81	MP2A	X	3.093	3.093	0 % 100
82	MP2A	Z	-1.786	-1.786	0 % 100
83	MP3A	X	2.793	2.793	0 % 100
84	MP3A	Z	-1.612	-1.612	0 % 100
85	MP4A	X	2.793	2.793	0 % 100
86	MP4A	Z	-1.612	-1.612	0 % 100
87	MP5A	X	2.793	2.793	0 % 100
88	MP5A	Z	-1.612	-1.612	0 % 100
89	MP1C	X	2.793	2.793	0 % 100
90	MP1C	Z	-1.612	-1.612	0 % 100
91	MP2C	X	3.093	3.093	0 % 100
92	MP2C	Z	-1.786	-1.786	0 % 100
93	MP3C	X	2.793	2.793	0 % 100
94	MP3C	Z	-1.612	-1.612	0 % 100
95	MP4C	X	2.793	2.793	0 % 100
96	MP4C	Z	-1.612	-1.612	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, %]
97	MP5C	X	2.793	2.793	0	% 100
98	MP5C	Z	-1.612	-1.612	0	% 100
99	MP1B	X	2.793	2.793	0	% 100
100	MP1B	Z	-1.612	-1.612	0	% 100
101	MP2B	X	3.093	3.093	0	% 100
102	MP2B	Z	-1.786	-1.786	0	% 100
103	MP3B	X	2.793	2.793	0	% 100
104	MP3B	Z	-1.612	-1.612	0	% 100
105	MP4B	X	2.793	2.793	0	% 100
106	MP4B	Z	-1.612	-1.612	0	% 100
107	MP5B	X	2.793	2.793	0	% 100
108	MP5B	Z	-1.612	-1.612	0	% 100
109	M106	X	.773	.773	0	% 100
110	M106	Z	-.446	-.446	0	% 100
111	M111	X	3.093	3.093	0	% 100
112	M111	Z	-1.786	-1.786	0	% 100
113	M116	X	.773	.773	0	% 100
114	M116	Z	-.446	-.446	0	% 100
115	M130	X	2.873	2.873	0	% 100
116	M130	Z	-1.659	-1.659	0	% 100
117	M131	X	.718	.718	0	% 100
118	M131	Z	-.415	-.415	0	% 100
119	M132	X	.718	.718	0	% 100
120	M132	Z	-.415	-.415	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	M4	X	4.043	4.043	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	0	0	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	0	0	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	0	0	0	% 100
9	M51B	X	2.848	2.848	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	2.848	2.848	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	5.079	5.079	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	3.867	3.867	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	4.037	4.037	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	5.079	5.079	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	3.867	3.867	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	4.037	4.037	0	% 100
24	M91	Z	0	0	0	% 100



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**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,%]
25	M150A	X	1.011	1.011	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	2.474	2.474	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	2.474	2.474	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	3.874	3.874	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	2.848	2.848	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	0	0	0	% 100
37	M161A	X	1.27	1.27	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	3.867	3.867	0	% 100
40	M162A	Z	0	0	0	% 100
41	M164A	X	4.037	4.037	0	% 100
42	M164A	Z	0	0	0	% 100
43	M166A	X	1.27	1.27	0	% 100
44	M166A	Z	0	0	0	% 100
45	M167A	X	0	0	0	% 100
46	M167A	Z	0	0	0	% 100
47	M169A	X	0	0	0	% 100
48	M169A	Z	0	0	0	% 100
49	M174A	X	1.011	1.011	0	% 100
50	M174A	Z	0	0	0	% 100
51	M175A	X	2.474	2.474	0	% 100
52	M175A	Z	0	0	0	% 100
53	M176A	X	2.474	2.474	0	% 100
54	M176A	Z	0	0	0	% 100
55	M177A	X	3.874	3.874	0	% 100
56	M177A	Z	0	0	0	% 100
57	M180A	X	0	0	0	% 100
58	M180A	Z	0	0	0	% 100
59	M181A	X	2.848	2.848	0	% 100
60	M181A	Z	0	0	0	% 100
61	M185A	X	1.27	1.27	0	% 100
62	M185A	Z	0	0	0	% 100
63	M186A	X	0	0	0	% 100
64	M186A	Z	0	0	0	% 100
65	M188A	X	0	0	0	% 100
66	M188A	Z	0	0	0	% 100
67	M190A	X	1.27	1.27	0	% 100
68	M190A	Z	0	0	0	% 100
69	M191A	X	3.867	3.867	0	% 100
70	M191A	Z	0	0	0	% 100
71	M193A	X	4.037	4.037	0	% 100
72	M193A	Z	0	0	0	% 100
73	M199A	X	0	0	0	% 100
74	M199A	Z	0	0	0	% 100
75	M199B	X	3.003	3.003	0	% 100
76	M199B	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, %]
77	M200A	X	3.003	3.003	0	% 100
78	M200A	Z	0	0	0	% 100
79	MP1A	X	3.225	3.225	0	% 100
80	MP1A	Z	0	0	0	% 100
81	MP2A	X	3.571	3.571	0	% 100
82	MP2A	Z	0	0	0	% 100
83	MP3A	X	3.225	3.225	0	% 100
84	MP3A	Z	0	0	0	% 100
85	MP4A	X	3.225	3.225	0	% 100
86	MP4A	Z	0	0	0	% 100
87	MP5A	X	3.225	3.225	0	% 100
88	MP5A	Z	0	0	0	% 100
89	MP1C	X	3.225	3.225	0	% 100
90	MP1C	Z	0	0	0	% 100
91	MP2C	X	3.571	3.571	0	% 100
92	MP2C	Z	0	0	0	% 100
93	MP3C	X	3.225	3.225	0	% 100
94	MP3C	Z	0	0	0	% 100
95	MP4C	X	3.225	3.225	0	% 100
96	MP4C	Z	0	0	0	% 100
97	MP5C	X	3.225	3.225	0	% 100
98	MP5C	Z	0	0	0	% 100
99	MP1B	X	3.225	3.225	0	% 100
100	MP1B	Z	0	0	0	% 100
101	MP2B	X	3.571	3.571	0	% 100
102	MP2B	Z	0	0	0	% 100
103	MP3B	X	3.225	3.225	0	% 100
104	MP3B	Z	0	0	0	% 100
105	MP4B	X	3.225	3.225	0	% 100
106	MP4B	Z	0	0	0	% 100
107	MP5B	X	3.225	3.225	0	% 100
108	MP5B	Z	0	0	0	% 100
109	M106	X	0	0	0	% 100
110	M106	Z	0	0	0	% 100
111	M111	X	2.679	2.679	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	2.679	2.679	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	2.488	2.488	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	2.488	2.488	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	0	0	0	% 100
120	M132	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	M4	X	2.626	2.626	0	% 100
2	M4	Z	1.516	1.516	0	% 100
3	M10	X	.714	.714	0	% 100
4	M10	Z	.412	.412	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,%]
5	M43	X	.714	.714	0 %100
6	M43	Z	.412	.412	0 %100
7	M46	X	1.118	1.118	0 %100
8	M46	Z	.646	.646	0 %100
9	M51B	X	.822	.822	0 %100
10	M51B	Z	.475	.475	0 %100
11	M52B	X	3.289	3.289	0 %100
12	M52B	Z	1.899	1.899	0 %100
13	M76	X	3.299	3.299	0 %100
14	M76	Z	1.905	1.905	0 %100
15	M77	X	1.116	1.116	0 %100
16	M77	Z	.645	.645	0 %100
17	M80	X	1.165	1.165	0 %100
18	M80	Z	.673	.673	0 %100
19	M84	X	3.299	3.299	0 %100
20	M84	Z	1.905	1.905	0 %100
21	M85	X	4.466	4.466	0 %100
22	M85	Z	2.578	2.578	0 %100
23	M91	X	4.661	4.661	0 %100
24	M91	Z	2.691	2.691	0 %100
25	M150A	X	2.626	2.626	0 %100
26	M150A	Z	1.516	1.516	0 %100
27	M151A	X	.714	.714	0 %100
28	M151A	Z	.412	.412	0 %100
29	M152A	X	.714	.714	0 %100
30	M152A	Z	.412	.412	0 %100
31	M153A	X	1.118	1.118	0 %100
32	M153A	Z	.646	.646	0 %100
33	M156A	X	3.289	3.289	0 %100
34	M156A	Z	1.899	1.899	0 %100
35	M157A	X	.822	.822	0 %100
36	M157A	Z	.475	.475	0 %100
37	M161A	X	3.299	3.299	0 %100
38	M161A	Z	1.905	1.905	0 %100
39	M162A	X	4.466	4.466	0 %100
40	M162A	Z	2.578	2.578	0 %100
41	M164A	X	4.661	4.661	0 %100
42	M164A	Z	2.691	2.691	0 %100
43	M166A	X	3.299	3.299	0 %100
44	M166A	Z	1.905	1.905	0 %100
45	M167A	X	1.116	1.116	0 %100
46	M167A	Z	.645	.645	0 %100
47	M169A	X	1.165	1.165	0 %100
48	M169A	Z	.673	.673	0 %100
49	M174A	X	0	0	0 %100
50	M174A	Z	0	0	0 %100
51	M175A	X	2.857	2.857	0 %100
52	M175A	Z	1.649	1.649	0 %100
53	M176A	X	2.857	2.857	0 %100
54	M176A	Z	1.649	1.649	0 %100
55	M177A	X	4.473	4.473	0 %100
56	M177A	Z	2.583	2.583	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,%]
57	M180A	X	.822	.822	0 %100
58	M180A	Z	.475	.475	0 %100
59	M181A	X	.822	.822	0 %100
60	M181A	Z	.475	.475	0 %100
61	M185A	X	0	0	0 %100
62	M185A	Z	0	0	0 %100
63	M186A	X	1.116	1.116	0 %100
64	M186A	Z	.645	.645	0 %100
65	M188A	X	1.165	1.165	0 %100
66	M188A	Z	.673	.673	0 %100
67	M190A	X	0	0	0 %100
68	M190A	Z	0	0	0 %100
69	M191A	X	1.116	1.116	0 %100
70	M191A	Z	.645	.645	0 %100
71	M193A	X	1.165	1.165	0 %100
72	M193A	Z	.673	.673	0 %100
73	M199A	X	.867	.867	0 %100
74	M199A	Z	.501	.501	0 %100
75	M199B	X	.867	.867	0 %100
76	M199B	Z	.501	.501	0 %100
77	M200A	X	3.468	3.468	0 %100
78	M200A	Z	2.002	2.002	0 %100
79	MP1A	X	2.793	2.793	0 %100
80	MP1A	Z	1.612	1.612	0 %100
81	MP2A	X	3.093	3.093	0 %100
82	MP2A	Z	1.786	1.786	0 %100
83	MP3A	X	2.793	2.793	0 %100
84	MP3A	Z	1.612	1.612	0 %100
85	MP4A	X	2.793	2.793	0 %100
86	MP4A	Z	1.612	1.612	0 %100
87	MP5A	X	2.793	2.793	0 %100
88	MP5A	Z	1.612	1.612	0 %100
89	MP1C	X	2.793	2.793	0 %100
90	MP1C	Z	1.612	1.612	0 %100
91	MP2C	X	3.093	3.093	0 %100
92	MP2C	Z	1.786	1.786	0 %100
93	MP3C	X	2.793	2.793	0 %100
94	MP3C	Z	1.612	1.612	0 %100
95	MP4C	X	2.793	2.793	0 %100
96	MP4C	Z	1.612	1.612	0 %100
97	MP5C	X	2.793	2.793	0 %100
98	MP5C	Z	1.612	1.612	0 %100
99	MP1B	X	2.793	2.793	0 %100
100	MP1B	Z	1.612	1.612	0 %100
101	MP2B	X	3.093	3.093	0 %100
102	MP2B	Z	1.786	1.786	0 %100
103	MP3B	X	2.793	2.793	0 %100
104	MP3B	Z	1.612	1.612	0 %100
105	MP4B	X	2.793	2.793	0 %100
106	MP4B	Z	1.612	1.612	0 %100
107	MP5B	X	2.793	2.793	0 %100
108	MP5B	Z	1.612	1.612	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, %]
109	M106	X	.773	.773	0	% 100
110	M106	Z	.446	.446	0	% 100
111	M111	X	.773	.773	0	% 100
112	M111	Z	.446	.446	0	% 100
113	M116	X	3.093	3.093	0	% 100
114	M116	Z	1.786	1.786	0	% 100
115	M130	X	.718	.718	0	% 100
116	M130	Z	.415	.415	0	% 100
117	M131	X	2.873	2.873	0	% 100
118	M131	Z	1.659	1.659	0	% 100
119	M132	X	.718	.718	0	% 100
120	M132	Z	.415	.415	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	M4	X	.505	.505	0	% 100
2	M4	Z	.875	.875	0	% 100
3	M10	X	1.237	1.237	0	% 100
4	M10	Z	2.142	2.142	0	% 100
5	M43	X	1.237	1.237	0	% 100
6	M43	Z	2.142	2.142	0	% 100
7	M46	X	1.937	1.937	0	% 100
8	M46	Z	3.355	3.355	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	1.424	1.424	0	% 100
12	M52B	Z	2.467	2.467	0	% 100
13	M76	X	.635	.635	0	% 100
14	M76	Z	1.1	1.1	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	.635	.635	0	% 100
20	M84	Z	1.1	1.1	0	% 100
21	M85	X	1.934	1.934	0	% 100
22	M85	Z	3.349	3.349	0	% 100
23	M91	X	2.018	2.018	0	% 100
24	M91	Z	3.496	3.496	0	% 100
25	M150A	X	2.021	2.021	0	% 100
26	M150A	Z	3.501	3.501	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	1.424	1.424	0	% 100
34	M156A	Z	2.467	2.467	0	% 100
35	M157A	X	1.424	1.424	0	% 100
36	M157A	Z	2.467	2.467	0	% 100



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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, %]
37	M161A	X	2.54	2.54	0	% 100
38	M161A	Z	4.399	4.399	0	% 100
39	M162A	X	1.934	1.934	0	% 100
40	M162A	Z	3.349	3.349	0	% 100
41	M164A	X	2.018	2.018	0	% 100
42	M164A	Z	3.496	3.496	0	% 100
43	M166A	X	2.54	2.54	0	% 100
44	M166A	Z	4.399	4.399	0	% 100
45	M167A	X	1.934	1.934	0	% 100
46	M167A	Z	3.349	3.349	0	% 100
47	M169A	X	2.018	2.018	0	% 100
48	M169A	Z	3.496	3.496	0	% 100
49	M174A	X	.505	.505	0	% 100
50	M174A	Z	.875	.875	0	% 100
51	M175A	X	1.237	1.237	0	% 100
52	M175A	Z	2.142	2.142	0	% 100
53	M176A	X	1.237	1.237	0	% 100
54	M176A	Z	2.142	2.142	0	% 100
55	M177A	X	1.937	1.937	0	% 100
56	M177A	Z	3.355	3.355	0	% 100
57	M180A	X	1.424	1.424	0	% 100
58	M180A	Z	2.467	2.467	0	% 100
59	M181A	X	0	0	0	% 100
60	M181A	Z	0	0	0	% 100
61	M185A	X	.635	.635	0	% 100
62	M185A	Z	1.1	1.1	0	% 100
63	M186A	X	1.934	1.934	0	% 100
64	M186A	Z	3.349	3.349	0	% 100
65	M188A	X	2.018	2.018	0	% 100
66	M188A	Z	3.496	3.496	0	% 100
67	M190A	X	.635	.635	0	% 100
68	M190A	Z	1.1	1.1	0	% 100
69	M191A	X	0	0	0	% 100
70	M191A	Z	0	0	0	% 100
71	M193A	X	0	0	0	% 100
72	M193A	Z	0	0	0	% 100
73	M199A	X	1.502	1.502	0	% 100
74	M199A	Z	2.601	2.601	0	% 100
75	M199B	X	0	0	0	% 100
76	M199B	Z	0	0	0	% 100
77	M200A	X	1.502	1.502	0	% 100
78	M200A	Z	2.601	2.601	0	% 100
79	MP1A	X	1.612	1.612	0	% 100
80	MP1A	Z	2.793	2.793	0	% 100
81	MP2A	X	1.786	1.786	0	% 100
82	MP2A	Z	3.093	3.093	0	% 100
83	MP3A	X	1.612	1.612	0	% 100
84	MP3A	Z	2.793	2.793	0	% 100
85	MP4A	X	1.612	1.612	0	% 100
86	MP4A	Z	2.793	2.793	0	% 100
87	MP5A	X	1.612	1.612	0	% 100
88	MP5A	Z	2.793	2.793	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
89	MP1C	X	1.612	1.612	0	% 100
90	MP1C	Z	2.793	2.793	0	% 100
91	MP2C	X	1.786	1.786	0	% 100
92	MP2C	Z	3.093	3.093	0	% 100
93	MP3C	X	1.612	1.612	0	% 100
94	MP3C	Z	2.793	2.793	0	% 100
95	MP4C	X	1.612	1.612	0	% 100
96	MP4C	Z	2.793	2.793	0	% 100
97	MP5C	X	1.612	1.612	0	% 100
98	MP5C	Z	2.793	2.793	0	% 100
99	MP1B	X	1.612	1.612	0	% 100
100	MP1B	Z	2.793	2.793	0	% 100
101	MP2B	X	1.786	1.786	0	% 100
102	MP2B	Z	3.093	3.093	0	% 100
103	MP3B	X	1.612	1.612	0	% 100
104	MP3B	Z	2.793	2.793	0	% 100
105	MP4B	X	1.612	1.612	0	% 100
106	MP4B	Z	2.793	2.793	0	% 100
107	MP5B	X	1.612	1.612	0	% 100
108	MP5B	Z	2.793	2.793	0	% 100
109	M106	X	1.339	1.339	0	% 100
110	M106	Z	2.32	2.32	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	1.339	1.339	0	% 100
114	M116	Z	2.32	2.32	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	1.244	1.244	0	% 100
118	M131	Z	2.155	2.155	0	% 100
119	M132	X	1.244	1.244	0	% 100
120	M132	Z	2.155	2.155	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	3.299	3.299	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	3.299	3.299	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	5.165	5.165	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	.949	.949	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	.949	.949	0	% 100
13	M76	X	0	0	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	1.289	1.289	0	% 100





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**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,%]
17	M80	X	0	0	0	% 100
18	M80	Z	1.346	1.346	0	% 100
19	M84	X	0	0	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	1.289	1.289	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	1.346	1.346	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	3.032	3.032	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	.825	.825	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	.825	.825	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	1.291	1.291	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	.949	.949	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	3.798	3.798	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	3.81	3.81	0	% 100
39	M162A	X	0	0	0	% 100
40	M162A	Z	1.289	1.289	0	% 100
41	M164A	X	0	0	0	% 100
42	M164A	Z	1.346	1.346	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	3.81	3.81	0	% 100
45	M167A	X	0	0	0	% 100
46	M167A	Z	5.156	5.156	0	% 100
47	M169A	X	0	0	0	% 100
48	M169A	Z	5.382	5.382	0	% 100
49	M174A	X	0	0	0	% 100
50	M174A	Z	3.032	3.032	0	% 100
51	M175A	X	0	0	0	% 100
52	M175A	Z	.825	.825	0	% 100
53	M176A	X	0	0	0	% 100
54	M176A	Z	.825	.825	0	% 100
55	M177A	X	0	0	0	% 100
56	M177A	Z	1.291	1.291	0	% 100
57	M180A	X	0	0	0	% 100
58	M180A	Z	3.798	3.798	0	% 100
59	M181A	X	0	0	0	% 100
60	M181A	Z	.949	.949	0	% 100
61	M185A	X	0	0	0	% 100
62	M185A	Z	3.81	3.81	0	% 100
63	M186A	X	0	0	0	% 100
64	M186A	Z	5.156	5.156	0	% 100
65	M188A	X	0	0	0	% 100
66	M188A	Z	5.382	5.382	0	% 100
67	M190A	X	0	0	0	% 100
68	M190A	Z	3.81	3.81	0	% 100



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**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,%]
69	M191A	X	0	0	0 % 100
70	M191A	Z	1.289	1.289	0 % 100
71	M193A	X	0	0	0 % 100
72	M193A	Z	1.346	1.346	0 % 100
73	M199A	X	0	0	0 % 100
74	M199A	Z	4.005	4.005	0 % 100
75	M199B	X	0	0	0 % 100
76	M199B	Z	1.001	1.001	0 % 100
77	M200A	X	0	0	0 % 100
78	M200A	Z	1.001	1.001	0 % 100
79	MP1A	X	0	0	0 % 100
80	MP1A	Z	3.225	3.225	0 % 100
81	MP2A	X	0	0	0 % 100
82	MP2A	Z	3.571	3.571	0 % 100
83	MP3A	X	0	0	0 % 100
84	MP3A	Z	3.225	3.225	0 % 100
85	MP4A	X	0	0	0 % 100
86	MP4A	Z	3.225	3.225	0 % 100
87	MP5A	X	0	0	0 % 100
88	MP5A	Z	3.225	3.225	0 % 100
89	MP1C	X	0	0	0 % 100
90	MP1C	Z	3.225	3.225	0 % 100
91	MP2C	X	0	0	0 % 100
92	MP2C	Z	3.571	3.571	0 % 100
93	MP3C	X	0	0	0 % 100
94	MP3C	Z	3.225	3.225	0 % 100
95	MP4C	X	0	0	0 % 100
96	MP4C	Z	3.225	3.225	0 % 100
97	MP5C	X	0	0	0 % 100
98	MP5C	Z	3.225	3.225	0 % 100
99	MP1B	X	0	0	0 % 100
100	MP1B	Z	3.225	3.225	0 % 100
101	MP2B	X	0	0	0 % 100
102	MP2B	Z	3.571	3.571	0 % 100
103	MP3B	X	0	0	0 % 100
104	MP3B	Z	3.225	3.225	0 % 100
105	MP4B	X	0	0	0 % 100
106	MP4B	Z	3.225	3.225	0 % 100
107	MP5B	X	0	0	0 % 100
108	MP5B	Z	3.225	3.225	0 % 100
109	M106	X	0	0	0 % 100
110	M106	Z	3.571	3.571	0 % 100
111	M111	X	0	0	0 % 100
112	M111	Z	.893	.893	0 % 100
113	M116	X	0	0	0 % 100
114	M116	Z	.893	.893	0 % 100
115	M130	X	0	0	0 % 100
116	M130	Z	.829	.829	0 % 100
117	M131	X	0	0	0 % 100
118	M131	Z	.829	.829	0 % 100
119	M132	X	0	0	0 % 100
120	M132	Z	3.318	3.318	0 % 100



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**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	M4	X	-.505	-.505	0	% 100
2	M4	Z	.875	.875	0	% 100
3	M10	X	-1.237	-1.237	0	% 100
4	M10	Z	2.142	2.142	0	% 100
5	M43	X	-1.237	-1.237	0	% 100
6	M43	Z	2.142	2.142	0	% 100
7	M46	X	-1.937	-1.937	0	% 100
8	M46	Z	3.355	3.355	0	% 100
9	M51B	X	-1.424	-1.424	0	% 100
10	M51B	Z	2.467	2.467	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	-.635	-.635	0	% 100
14	M76	Z	1.1	1.1	0	% 100
15	M77	X	-1.934	-1.934	0	% 100
16	M77	Z	3.349	3.349	0	% 100
17	M80	X	-2.018	-2.018	0	% 100
18	M80	Z	3.496	3.496	0	% 100
19	M84	X	-.635	-.635	0	% 100
20	M84	Z	1.1	1.1	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	-.505	-.505	0	% 100
26	M150A	Z	.875	.875	0	% 100
27	M151A	X	-1.237	-1.237	0	% 100
28	M151A	Z	2.142	2.142	0	% 100
29	M152A	X	-1.237	-1.237	0	% 100
30	M152A	Z	2.142	2.142	0	% 100
31	M153A	X	-1.937	-1.937	0	% 100
32	M153A	Z	3.355	3.355	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	-1.424	-1.424	0	% 100
36	M157A	Z	2.467	2.467	0	% 100
37	M161A	X	-.635	-.635	0	% 100
38	M161A	Z	1.1	1.1	0	% 100
39	M162A	X	0	0	0	% 100
40	M162A	Z	0	0	0	% 100
41	M164A	X	0	0	0	% 100
42	M164A	Z	0	0	0	% 100
43	M166A	X	-.635	-.635	0	% 100
44	M166A	Z	1.1	1.1	0	% 100
45	M167A	X	-1.934	-1.934	0	% 100
46	M167A	Z	3.349	3.349	0	% 100
47	M169A	X	-2.018	-2.018	0	% 100
48	M169A	Z	3.496	3.496	0	% 100
49	M174A	X	-2.021	-2.021	0	% 100
50	M174A	Z	3.501	3.501	0	% 100
51	M175A	X	0	0	0	% 100
52	M175A	Z	0	0	0	% 100



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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, %]
53	M176A	X	0	0	0 % 100
54	M176A	Z	0	0	0 % 100
55	M177A	X	0	0	0 % 100
56	M177A	Z	0	0	0 % 100
57	M180A	X	-1.424	-1.424	0 % 100
58	M180A	Z	2.467	2.467	0 % 100
59	M181A	X	-1.424	-1.424	0 % 100
60	M181A	Z	2.467	2.467	0 % 100
61	M185A	X	-2.54	-2.54	0 % 100
62	M185A	Z	4.399	4.399	0 % 100
63	M186A	X	-1.934	-1.934	0 % 100
64	M186A	Z	3.349	3.349	0 % 100
65	M188A	X	-2.018	-2.018	0 % 100
66	M188A	Z	3.496	3.496	0 % 100
67	M190A	X	-2.54	-2.54	0 % 100
68	M190A	Z	4.399	4.399	0 % 100
69	M191A	X	-1.934	-1.934	0 % 100
70	M191A	Z	3.349	3.349	0 % 100
71	M193A	X	-2.018	-2.018	0 % 100
72	M193A	Z	3.496	3.496	0 % 100
73	M199A	X	-1.502	-1.502	0 % 100
74	M199A	Z	2.601	2.601	0 % 100
75	M199B	X	-1.502	-1.502	0 % 100
76	M199B	Z	2.601	2.601	0 % 100
77	M200A	X	0	0	0 % 100
78	M200A	Z	0	0	0 % 100
79	MP1A	X	-1.612	-1.612	0 % 100
80	MP1A	Z	2.793	2.793	0 % 100
81	MP2A	X	-1.786	-1.786	0 % 100
82	MP2A	Z	3.093	3.093	0 % 100
83	MP3A	X	-1.612	-1.612	0 % 100
84	MP3A	Z	2.793	2.793	0 % 100
85	MP4A	X	-1.612	-1.612	0 % 100
86	MP4A	Z	2.793	2.793	0 % 100
87	MP5A	X	-1.612	-1.612	0 % 100
88	MP5A	Z	2.793	2.793	0 % 100
89	MP1C	X	-1.612	-1.612	0 % 100
90	MP1C	Z	2.793	2.793	0 % 100
91	MP2C	X	-1.786	-1.786	0 % 100
92	MP2C	Z	3.093	3.093	0 % 100
93	MP3C	X	-1.612	-1.612	0 % 100
94	MP3C	Z	2.793	2.793	0 % 100
95	MP4C	X	-1.612	-1.612	0 % 100
96	MP4C	Z	2.793	2.793	0 % 100
97	MP5C	X	-1.612	-1.612	0 % 100
98	MP5C	Z	2.793	2.793	0 % 100
99	MP1B	X	-1.612	-1.612	0 % 100
100	MP1B	Z	2.793	2.793	0 % 100
101	MP2B	X	-1.786	-1.786	0 % 100
102	MP2B	Z	3.093	3.093	0 % 100
103	MP3B	X	-1.612	-1.612	0 % 100
104	MP3B	Z	2.793	2.793	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, %]
105	MP4B	X	-1.612	-1.612	0	% 100
106	MP4B	Z	2.793	2.793	0	% 100
107	MP5B	X	-1.612	-1.612	0	% 100
108	MP5B	Z	2.793	2.793	0	% 100
109	M106	X	-1.339	-1.339	0	% 100
110	M106	Z	2.32	2.32	0	% 100
111	M111	X	-1.339	-1.339	0	% 100
112	M111	Z	2.32	2.32	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	-1.244	-1.244	0	% 100
116	M130	Z	2.155	2.155	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	-1.244	-1.244	0	% 100
120	M132	Z	2.155	2.155	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	M4	X	-2.626	-2.626	0	% 100
2	M4	Z	1.516	1.516	0	% 100
3	M10	X	-.714	-.714	0	% 100
4	M10	Z	.412	.412	0	% 100
5	M43	X	-.714	-.714	0	% 100
6	M43	Z	.412	.412	0	% 100
7	M46	X	-1.118	-1.118	0	% 100
8	M46	Z	.646	.646	0	% 100
9	M51B	X	-3.289	-3.289	0	% 100
10	M51B	Z	1.899	1.899	0	% 100
11	M52B	X	-.822	-.822	0	% 100
12	M52B	Z	.475	.475	0	% 100
13	M76	X	-3.299	-3.299	0	% 100
14	M76	Z	1.905	1.905	0	% 100
15	M77	X	-4.466	-4.466	0	% 100
16	M77	Z	2.578	2.578	0	% 100
17	M80	X	-4.661	-4.661	0	% 100
18	M80	Z	2.691	2.691	0	% 100
19	M84	X	-3.299	-3.299	0	% 100
20	M84	Z	1.905	1.905	0	% 100
21	M85	X	-1.116	-1.116	0	% 100
22	M85	Z	.645	.645	0	% 100
23	M91	X	-1.165	-1.165	0	% 100
24	M91	Z	.673	.673	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	-2.857	-2.857	0	% 100
28	M151A	Z	1.649	1.649	0	% 100
29	M152A	X	-2.857	-2.857	0	% 100
30	M152A	Z	1.649	1.649	0	% 100
31	M153A	X	-4.473	-4.473	0	% 100
32	M153A	Z	2.583	2.583	0	% 100



Company : Maser Consulting  
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**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, %]
33	M156A	X	-.822	-.822	0 % 100
34	M156A	Z	.475	.475	0 % 100
35	M157A	X	-.822	-.822	0 % 100
36	M157A	Z	.475	.475	0 % 100
37	M161A	X	0	0	0 % 100
38	M161A	Z	0	0	0 % 100
39	M162A	X	-1.116	-1.116	0 % 100
40	M162A	Z	.645	.645	0 % 100
41	M164A	X	-1.165	-1.165	0 % 100
42	M164A	Z	.673	.673	0 % 100
43	M166A	X	0	0	0 % 100
44	M166A	Z	0	0	0 % 100
45	M167A	X	-1.116	-1.116	0 % 100
46	M167A	Z	.645	.645	0 % 100
47	M169A	X	-1.165	-1.165	0 % 100
48	M169A	Z	.673	.673	0 % 100
49	M174A	X	-2.626	-2.626	0 % 100
50	M174A	Z	1.516	1.516	0 % 100
51	M175A	X	-.714	-.714	0 % 100
52	M175A	Z	.412	.412	0 % 100
53	M176A	X	-.714	-.714	0 % 100
54	M176A	Z	.412	.412	0 % 100
55	M177A	X	-1.118	-1.118	0 % 100
56	M177A	Z	.646	.646	0 % 100
57	M180A	X	-.822	-.822	0 % 100
58	M180A	Z	.475	.475	0 % 100
59	M181A	X	-3.289	-3.289	0 % 100
60	M181A	Z	1.899	1.899	0 % 100
61	M185A	X	-3.299	-3.299	0 % 100
62	M185A	Z	1.905	1.905	0 % 100
63	M186A	X	-1.116	-1.116	0 % 100
64	M186A	Z	.645	.645	0 % 100
65	M188A	X	-1.165	-1.165	0 % 100
66	M188A	Z	.673	.673	0 % 100
67	M190A	X	-3.299	-3.299	0 % 100
68	M190A	Z	1.905	1.905	0 % 100
69	M191A	X	-4.466	-4.466	0 % 100
70	M191A	Z	2.578	2.578	0 % 100
71	M193A	X	-4.661	-4.661	0 % 100
72	M193A	Z	2.691	2.691	0 % 100
73	M199A	X	-.867	-.867	0 % 100
74	M199A	Z	.501	.501	0 % 100
75	M199B	X	-3.468	-3.468	0 % 100
76	M199B	Z	2.002	2.002	0 % 100
77	M200A	X	-.867	-.867	0 % 100
78	M200A	Z	.501	.501	0 % 100
79	MP1A	X	-2.793	-2.793	0 % 100
80	MP1A	Z	1.612	1.612	0 % 100
81	MP2A	X	-3.093	-3.093	0 % 100
82	MP2A	Z	1.786	1.786	0 % 100
83	MP3A	X	-2.793	-2.793	0 % 100
84	MP3A	Z	1.612	1.612	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, %]
85	MP4A	X	-2.793	-2.793	0	% 100
86	MP4A	Z	1.612	1.612	0	% 100
87	MP5A	X	-2.793	-2.793	0	% 100
88	MP5A	Z	1.612	1.612	0	% 100
89	MP1C	X	-2.793	-2.793	0	% 100
90	MP1C	Z	1.612	1.612	0	% 100
91	MP2C	X	-3.093	-3.093	0	% 100
92	MP2C	Z	1.786	1.786	0	% 100
93	MP3C	X	-2.793	-2.793	0	% 100
94	MP3C	Z	1.612	1.612	0	% 100
95	MP4C	X	-2.793	-2.793	0	% 100
96	MP4C	Z	1.612	1.612	0	% 100
97	MP5C	X	-2.793	-2.793	0	% 100
98	MP5C	Z	1.612	1.612	0	% 100
99	MP1B	X	-2.793	-2.793	0	% 100
100	MP1B	Z	1.612	1.612	0	% 100
101	MP2B	X	-3.093	-3.093	0	% 100
102	MP2B	Z	1.786	1.786	0	% 100
103	MP3B	X	-2.793	-2.793	0	% 100
104	MP3B	Z	1.612	1.612	0	% 100
105	MP4B	X	-2.793	-2.793	0	% 100
106	MP4B	Z	1.612	1.612	0	% 100
107	MP5B	X	-2.793	-2.793	0	% 100
108	MP5B	Z	1.612	1.612	0	% 100
109	M106	X	-.773	-.773	0	% 100
110	M106	Z	.446	.446	0	% 100
111	M111	X	-3.093	-3.093	0	% 100
112	M111	Z	1.786	1.786	0	% 100
113	M116	X	-.773	-.773	0	% 100
114	M116	Z	.446	.446	0	% 100
115	M130	X	-2.873	-2.873	0	% 100
116	M130	Z	1.659	1.659	0	% 100
117	M131	X	-.718	-.718	0	% 100
118	M131	Z	.415	.415	0	% 100
119	M132	X	-.718	-.718	0	% 100
120	M132	Z	.415	.415	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	M4	X	-4.043	-4.043	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	0	0	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	0	0	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	0	0	0	% 100
9	M51B	X	-2.848	-2.848	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	-2.848	-2.848	0	% 100
12	M52B	Z	0	0	0	% 100



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**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	M76	X	-5.079	-5.079	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	-3.867	-3.867	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	-4.037	-4.037	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	-5.079	-5.079	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	-3.867	-3.867	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	-4.037	-4.037	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	-1.011	-1.011	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	-2.474	-2.474	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	-2.474	-2.474	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	-3.874	-3.874	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	-2.848	-2.848	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	0	0	0	% 100
37	M161A	X	-1.27	-1.27	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	-3.867	-3.867	0	% 100
40	M162A	Z	0	0	0	% 100
41	M164A	X	-4.037	-4.037	0	% 100
42	M164A	Z	0	0	0	% 100
43	M166A	X	-1.27	-1.27	0	% 100
44	M166A	Z	0	0	0	% 100
45	M167A	X	0	0	0	% 100
46	M167A	Z	0	0	0	% 100
47	M169A	X	0	0	0	% 100
48	M169A	Z	0	0	0	% 100
49	M174A	X	-1.011	-1.011	0	% 100
50	M174A	Z	0	0	0	% 100
51	M175A	X	-2.474	-2.474	0	% 100
52	M175A	Z	0	0	0	% 100
53	M176A	X	-2.474	-2.474	0	% 100
54	M176A	Z	0	0	0	% 100
55	M177A	X	-3.874	-3.874	0	% 100
56	M177A	Z	0	0	0	% 100
57	M180A	X	0	0	0	% 100
58	M180A	Z	0	0	0	% 100
59	M181A	X	-2.848	-2.848	0	% 100
60	M181A	Z	0	0	0	% 100
61	M185A	X	-1.27	-1.27	0	% 100
62	M185A	Z	0	0	0	% 100
63	M186A	X	0	0	0	% 100
64	M186A	Z	0	0	0	% 100



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**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, %]
65	M188A	X	0	0	0 % 100
66	M188A	Z	0	0	0 % 100
67	M190A	X	-1.27	-1.27	0 % 100
68	M190A	Z	0	0	0 % 100
69	M191A	X	-3.867	-3.867	0 % 100
70	M191A	Z	0	0	0 % 100
71	M193A	X	-4.037	-4.037	0 % 100
72	M193A	Z	0	0	0 % 100
73	M199A	X	0	0	0 % 100
74	M199A	Z	0	0	0 % 100
75	M199B	X	-3.003	-3.003	0 % 100
76	M199B	Z	0	0	0 % 100
77	M200A	X	-3.003	-3.003	0 % 100
78	M200A	Z	0	0	0 % 100
79	MP1A	X	-3.225	-3.225	0 % 100
80	MP1A	Z	0	0	0 % 100
81	MP2A	X	-3.571	-3.571	0 % 100
82	MP2A	Z	0	0	0 % 100
83	MP3A	X	-3.225	-3.225	0 % 100
84	MP3A	Z	0	0	0 % 100
85	MP4A	X	-3.225	-3.225	0 % 100
86	MP4A	Z	0	0	0 % 100
87	MP5A	X	-3.225	-3.225	0 % 100
88	MP5A	Z	0	0	0 % 100
89	MP1C	X	-3.225	-3.225	0 % 100
90	MP1C	Z	0	0	0 % 100
91	MP2C	X	-3.571	-3.571	0 % 100
92	MP2C	Z	0	0	0 % 100
93	MP3C	X	-3.225	-3.225	0 % 100
94	MP3C	Z	0	0	0 % 100
95	MP4C	X	-3.225	-3.225	0 % 100
96	MP4C	Z	0	0	0 % 100
97	MP5C	X	-3.225	-3.225	0 % 100
98	MP5C	Z	0	0	0 % 100
99	MP1B	X	-3.225	-3.225	0 % 100
100	MP1B	Z	0	0	0 % 100
101	MP2B	X	-3.571	-3.571	0 % 100
102	MP2B	Z	0	0	0 % 100
103	MP3B	X	-3.225	-3.225	0 % 100
104	MP3B	Z	0	0	0 % 100
105	MP4B	X	-3.225	-3.225	0 % 100
106	MP4B	Z	0	0	0 % 100
107	MP5B	X	-3.225	-3.225	0 % 100
108	MP5B	Z	0	0	0 % 100
109	M106	X	0	0	0 % 100
110	M106	Z	0	0	0 % 100
111	M111	X	-2.679	-2.679	0 % 100
112	M111	Z	0	0	0 % 100
113	M116	X	-2.679	-2.679	0 % 100
114	M116	Z	0	0	0 % 100
115	M130	X	-2.488	-2.488	0 % 100
116	M130	Z	0	0	0 % 100



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**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,%]
117	M131	X	-2.488	-2.488	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	0	0	0	% 100
120	M132	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	M4	X	-2.626	-2.626	0	% 100
2	M4	Z	-1.516	-1.516	0	% 100
3	M10	X	-0.714	-0.714	0	% 100
4	M10	Z	-0.412	-0.412	0	% 100
5	M43	X	-0.714	-0.714	0	% 100
6	M43	Z	-0.412	-0.412	0	% 100
7	M46	X	-1.118	-1.118	0	% 100
8	M46	Z	-0.646	-0.646	0	% 100
9	M51B	X	-0.822	-0.822	0	% 100
10	M51B	Z	-0.475	-0.475	0	% 100
11	M52B	X	-3.289	-3.289	0	% 100
12	M52B	Z	-1.899	-1.899	0	% 100
13	M76	X	-3.299	-3.299	0	% 100
14	M76	Z	-1.905	-1.905	0	% 100
15	M77	X	-1.116	-1.116	0	% 100
16	M77	Z	-0.645	-0.645	0	% 100
17	M80	X	-1.165	-1.165	0	% 100
18	M80	Z	-0.673	-0.673	0	% 100
19	M84	X	-3.299	-3.299	0	% 100
20	M84	Z	-1.905	-1.905	0	% 100
21	M85	X	-4.466	-4.466	0	% 100
22	M85	Z	-2.578	-2.578	0	% 100
23	M91	X	-4.661	-4.661	0	% 100
24	M91	Z	-2.691	-2.691	0	% 100
25	M150A	X	-2.626	-2.626	0	% 100
26	M150A	Z	-1.516	-1.516	0	% 100
27	M151A	X	-0.714	-0.714	0	% 100
28	M151A	Z	-0.412	-0.412	0	% 100
29	M152A	X	-0.714	-0.714	0	% 100
30	M152A	Z	-0.412	-0.412	0	% 100
31	M153A	X	-1.118	-1.118	0	% 100
32	M153A	Z	-0.646	-0.646	0	% 100
33	M156A	X	-3.289	-3.289	0	% 100
34	M156A	Z	-1.899	-1.899	0	% 100
35	M157A	X	-0.822	-0.822	0	% 100
36	M157A	Z	-0.475	-0.475	0	% 100
37	M161A	X	-3.299	-3.299	0	% 100
38	M161A	Z	-1.905	-1.905	0	% 100
39	M162A	X	-4.466	-4.466	0	% 100
40	M162A	Z	-2.578	-2.578	0	% 100
41	M164A	X	-4.661	-4.661	0	% 100
42	M164A	Z	-2.691	-2.691	0	% 100
43	M166A	X	-3.299	-3.299	0	% 100
44	M166A	Z	-1.905	-1.905	0	% 100



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**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, %]
45	M167A	X	-1.116	-1.116	0 % 100
46	M167A	Z	-.645	-.645	0 % 100
47	M169A	X	-1.165	-1.165	0 % 100
48	M169A	Z	-.673	-.673	0 % 100
49	M174A	X	0	0	0 % 100
50	M174A	Z	0	0	0 % 100
51	M175A	X	-2.857	-2.857	0 % 100
52	M175A	Z	-1.649	-1.649	0 % 100
53	M176A	X	-2.857	-2.857	0 % 100
54	M176A	Z	-1.649	-1.649	0 % 100
55	M177A	X	-4.473	-4.473	0 % 100
56	M177A	Z	-2.583	-2.583	0 % 100
57	M180A	X	-.822	-.822	0 % 100
58	M180A	Z	-.475	-.475	0 % 100
59	M181A	X	-.822	-.822	0 % 100
60	M181A	Z	-.475	-.475	0 % 100
61	M185A	X	0	0	0 % 100
62	M185A	Z	0	0	0 % 100
63	M186A	X	-1.116	-1.116	0 % 100
64	M186A	Z	-.645	-.645	0 % 100
65	M188A	X	-1.165	-1.165	0 % 100
66	M188A	Z	-.673	-.673	0 % 100
67	M190A	X	0	0	0 % 100
68	M190A	Z	0	0	0 % 100
69	M191A	X	-1.116	-1.116	0 % 100
70	M191A	Z	-.645	-.645	0 % 100
71	M193A	X	-1.165	-1.165	0 % 100
72	M193A	Z	-.673	-.673	0 % 100
73	M199A	X	-.867	-.867	0 % 100
74	M199A	Z	-.501	-.501	0 % 100
75	M199B	X	-.867	-.867	0 % 100
76	M199B	Z	-.501	-.501	0 % 100
77	M200A	X	-3.468	-3.468	0 % 100
78	M200A	Z	-2.002	-2.002	0 % 100
79	MP1A	X	-2.793	-2.793	0 % 100
80	MP1A	Z	-1.612	-1.612	0 % 100
81	MP2A	X	-3.093	-3.093	0 % 100
82	MP2A	Z	-1.786	-1.786	0 % 100
83	MP3A	X	-2.793	-2.793	0 % 100
84	MP3A	Z	-1.612	-1.612	0 % 100
85	MP4A	X	-2.793	-2.793	0 % 100
86	MP4A	Z	-1.612	-1.612	0 % 100
87	MP5A	X	-2.793	-2.793	0 % 100
88	MP5A	Z	-1.612	-1.612	0 % 100
89	MP1C	X	-2.793	-2.793	0 % 100
90	MP1C	Z	-1.612	-1.612	0 % 100
91	MP2C	X	-3.093	-3.093	0 % 100
92	MP2C	Z	-1.786	-1.786	0 % 100
93	MP3C	X	-2.793	-2.793	0 % 100
94	MP3C	Z	-1.612	-1.612	0 % 100
95	MP4C	X	-2.793	-2.793	0 % 100
96	MP4C	Z	-1.612	-1.612	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, %]
97	MP5C	X	-2.793	-2.793	0	% 100
98	MP5C	Z	-1.612	-1.612	0	% 100
99	MP1B	X	-2.793	-2.793	0	% 100
100	MP1B	Z	-1.612	-1.612	0	% 100
101	MP2B	X	-3.093	-3.093	0	% 100
102	MP2B	Z	-1.786	-1.786	0	% 100
103	MP3B	X	-2.793	-2.793	0	% 100
104	MP3B	Z	-1.612	-1.612	0	% 100
105	MP4B	X	-2.793	-2.793	0	% 100
106	MP4B	Z	-1.612	-1.612	0	% 100
107	MP5B	X	-2.793	-2.793	0	% 100
108	MP5B	Z	-1.612	-1.612	0	% 100
109	M106	X	-.773	-.773	0	% 100
110	M106	Z	-.446	-.446	0	% 100
111	M111	X	-.773	-.773	0	% 100
112	M111	Z	-.446	-.446	0	% 100
113	M116	X	-3.093	-3.093	0	% 100
114	M116	Z	-1.786	-1.786	0	% 100
115	M130	X	-.718	-.718	0	% 100
116	M130	Z	-.415	-.415	0	% 100
117	M131	X	-2.873	-2.873	0	% 100
118	M131	Z	-1.659	-1.659	0	% 100
119	M132	X	-.718	-.718	0	% 100
120	M132	Z	-.415	-.415	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	M4	X	-.505	-.505	0	% 100
2	M4	Z	-.875	-.875	0	% 100
3	M10	X	-1.237	-1.237	0	% 100
4	M10	Z	-2.142	-2.142	0	% 100
5	M43	X	-1.237	-1.237	0	% 100
6	M43	Z	-2.142	-2.142	0	% 100
7	M46	X	-1.937	-1.937	0	% 100
8	M46	Z	-3.355	-3.355	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	-1.424	-1.424	0	% 100
12	M52B	Z	-2.467	-2.467	0	% 100
13	M76	X	-.635	-.635	0	% 100
14	M76	Z	-1.1	-1.1	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	-.635	-.635	0	% 100
20	M84	Z	-1.1	-1.1	0	% 100
21	M85	X	-1.934	-1.934	0	% 100
22	M85	Z	-3.349	-3.349	0	% 100
23	M91	X	-2.018	-2.018	0	% 100
24	M91	Z	-3.496	-3.496	0	% 100





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**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,%]
25	M150A	X	-2.021	-2.021	0 % 100
26	M150A	Z	-3.501	-3.501	0 % 100
27	M151A	X	0	0	0 % 100
28	M151A	Z	0	0	0 % 100
29	M152A	X	0	0	0 % 100
30	M152A	Z	0	0	0 % 100
31	M153A	X	0	0	0 % 100
32	M153A	Z	0	0	0 % 100
33	M156A	X	-1.424	-1.424	0 % 100
34	M156A	Z	-2.467	-2.467	0 % 100
35	M157A	X	-1.424	-1.424	0 % 100
36	M157A	Z	-2.467	-2.467	0 % 100
37	M161A	X	-2.54	-2.54	0 % 100
38	M161A	Z	-4.399	-4.399	0 % 100
39	M162A	X	-1.934	-1.934	0 % 100
40	M162A	Z	-3.349	-3.349	0 % 100
41	M164A	X	-2.018	-2.018	0 % 100
42	M164A	Z	-3.496	-3.496	0 % 100
43	M166A	X	-2.54	-2.54	0 % 100
44	M166A	Z	-4.399	-4.399	0 % 100
45	M167A	X	-1.934	-1.934	0 % 100
46	M167A	Z	-3.349	-3.349	0 % 100
47	M169A	X	-2.018	-2.018	0 % 100
48	M169A	Z	-3.496	-3.496	0 % 100
49	M174A	X	-.505	-.505	0 % 100
50	M174A	Z	-.875	-.875	0 % 100
51	M175A	X	-1.237	-1.237	0 % 100
52	M175A	Z	-2.142	-2.142	0 % 100
53	M176A	X	-1.237	-1.237	0 % 100
54	M176A	Z	-2.142	-2.142	0 % 100
55	M177A	X	-1.937	-1.937	0 % 100
56	M177A	Z	-3.355	-3.355	0 % 100
57	M180A	X	-1.424	-1.424	0 % 100
58	M180A	Z	-2.467	-2.467	0 % 100
59	M181A	X	0	0	0 % 100
60	M181A	Z	0	0	0 % 100
61	M185A	X	-.635	-.635	0 % 100
62	M185A	Z	-1.1	-1.1	0 % 100
63	M186A	X	-1.934	-1.934	0 % 100
64	M186A	Z	-3.349	-3.349	0 % 100
65	M188A	X	-2.018	-2.018	0 % 100
66	M188A	Z	-3.496	-3.496	0 % 100
67	M190A	X	-.635	-.635	0 % 100
68	M190A	Z	-1.1	-1.1	0 % 100
69	M191A	X	0	0	0 % 100
70	M191A	Z	0	0	0 % 100
71	M193A	X	0	0	0 % 100
72	M193A	Z	0	0	0 % 100
73	M199A	X	-1.502	-1.502	0 % 100
74	M199A	Z	-2.601	-2.601	0 % 100
75	M199B	X	0	0	0 % 100
76	M199B	Z	0	0	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, %]
77	M200A	X	-1.502	-1.502	0	% 100
78	M200A	Z	-2.601	-2.601	0	% 100
79	MP1A	X	-1.612	-1.612	0	% 100
80	MP1A	Z	-2.793	-2.793	0	% 100
81	MP2A	X	-1.786	-1.786	0	% 100
82	MP2A	Z	-3.093	-3.093	0	% 100
83	MP3A	X	-1.612	-1.612	0	% 100
84	MP3A	Z	-2.793	-2.793	0	% 100
85	MP4A	X	-1.612	-1.612	0	% 100
86	MP4A	Z	-2.793	-2.793	0	% 100
87	MP5A	X	-1.612	-1.612	0	% 100
88	MP5A	Z	-2.793	-2.793	0	% 100
89	MP1C	X	-1.612	-1.612	0	% 100
90	MP1C	Z	-2.793	-2.793	0	% 100
91	MP2C	X	-1.786	-1.786	0	% 100
92	MP2C	Z	-3.093	-3.093	0	% 100
93	MP3C	X	-1.612	-1.612	0	% 100
94	MP3C	Z	-2.793	-2.793	0	% 100
95	MP4C	X	-1.612	-1.612	0	% 100
96	MP4C	Z	-2.793	-2.793	0	% 100
97	MP5C	X	-1.612	-1.612	0	% 100
98	MP5C	Z	-2.793	-2.793	0	% 100
99	MP1B	X	-1.612	-1.612	0	% 100
100	MP1B	Z	-2.793	-2.793	0	% 100
101	MP2B	X	-1.786	-1.786	0	% 100
102	MP2B	Z	-3.093	-3.093	0	% 100
103	MP3B	X	-1.612	-1.612	0	% 100
104	MP3B	Z	-2.793	-2.793	0	% 100
105	MP4B	X	-1.612	-1.612	0	% 100
106	MP4B	Z	-2.793	-2.793	0	% 100
107	MP5B	X	-1.612	-1.612	0	% 100
108	MP5B	Z	-2.793	-2.793	0	% 100
109	M106	X	-1.339	-1.339	0	% 100
110	M106	Z	-2.32	-2.32	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	-1.339	-1.339	0	% 100
114	M116	Z	-2.32	-2.32	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	-1.244	-1.244	0	% 100
118	M131	Z	-2.155	-2.155	0	% 100
119	M132	X	-1.244	-1.244	0	% 100
120	M132	Z	-2.155	-2.155	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	M4	X	0	0	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	-.751	-.751	0	% 100



Company : Maser Consulting  
 Designer : AJH  
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**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,%]
5	M43	X	0	0	0	% 100
6	M43	Z	-.751	-.751	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	-1.497	-1.497	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	-.208	-.208	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	-.208	-.208	0	% 100
13	M76	X	0	0	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	-.381	-.381	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	-.402	-.402	0	% 100
19	M84	X	0	0	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	-.381	-.381	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	-.402	-.402	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	-.665	-.665	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	-.188	-.188	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	-.188	-.188	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	-.374	-.374	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	-.208	-.208	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	-.831	-.831	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	-1.123	-1.123	0	% 100
39	M162A	X	0	0	0	% 100
40	M162A	Z	-.381	-.381	0	% 100
41	M164A	X	0	0	0	% 100
42	M164A	Z	-.402	-.402	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	-1.123	-1.123	0	% 100
45	M167A	X	0	0	0	% 100
46	M167A	Z	-1.525	-1.525	0	% 100
47	M169A	X	0	0	0	% 100
48	M169A	Z	-1.606	-1.606	0	% 100
49	M174A	X	0	0	0	% 100
50	M174A	Z	-.665	-.665	0	% 100
51	M175A	X	0	0	0	% 100
52	M175A	Z	-.188	-.188	0	% 100
53	M176A	X	0	0	0	% 100
54	M176A	Z	-.188	-.188	0	% 100
55	M177A	X	0	0	0	% 100
56	M177A	Z	-.374	-.374	0	% 100



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**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,%]
57	M180A	X	0	0	0 % 100
58	M180A	Z	-.831	-.831	0 % 100
59	M181A	X	0	0	0 % 100
60	M181A	Z	-.208	-.208	0 % 100
61	M185A	X	0	0	0 % 100
62	M185A	Z	-1.123	-1.123	0 % 100
63	M186A	X	0	0	0 % 100
64	M186A	Z	-1.525	-1.525	0 % 100
65	M188A	X	0	0	0 % 100
66	M188A	Z	-1.606	-1.606	0 % 100
67	M190A	X	0	0	0 % 100
68	M190A	Z	-1.123	-1.123	0 % 100
69	M191A	X	0	0	0 % 100
70	M191A	Z	-.381	-.381	0 % 100
71	M193A	X	0	0	0 % 100
72	M193A	Z	-.402	-.402	0 % 100
73	M199A	X	0	0	0 % 100
74	M199A	Z	-.873	-.873	0 % 100
75	M199B	X	0	0	0 % 100
76	M199B	Z	-.218	-.218	0 % 100
77	M200A	X	0	0	0 % 100
78	M200A	Z	-.218	-.218	0 % 100
79	MP1A	X	0	0	0 % 100
80	MP1A	Z	-.593	-.593	0 % 100
81	MP2A	X	0	0	0 % 100
82	MP2A	Z	-.717	-.717	0 % 100
83	MP3A	X	0	0	0 % 100
84	MP3A	Z	-.593	-.593	0 % 100
85	MP4A	X	0	0	0 % 100
86	MP4A	Z	-.593	-.593	0 % 100
87	MP5A	X	0	0	0 % 100
88	MP5A	Z	-.593	-.593	0 % 100
89	MP1C	X	0	0	0 % 100
90	MP1C	Z	-.593	-.593	0 % 100
91	MP2C	X	0	0	0 % 100
92	MP2C	Z	-.717	-.717	0 % 100
93	MP3C	X	0	0	0 % 100
94	MP3C	Z	-.593	-.593	0 % 100
95	MP4C	X	0	0	0 % 100
96	MP4C	Z	-.593	-.593	0 % 100
97	MP5C	X	0	0	0 % 100
98	MP5C	Z	-.593	-.593	0 % 100
99	MP1B	X	0	0	0 % 100
100	MP1B	Z	-.593	-.593	0 % 100
101	MP2B	X	0	0	0 % 100
102	MP2B	Z	-.717	-.717	0 % 100
103	MP3B	X	0	0	0 % 100
104	MP3B	Z	-.593	-.593	0 % 100
105	MP4B	X	0	0	0 % 100
106	MP4B	Z	-.593	-.593	0 % 100
107	MP5B	X	0	0	0 % 100
108	MP5B	Z	-.593	-.593	0 % 100



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**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, %]
109	M106	X	0	0	0	% 100
110	M106	Z	-.717	-.717	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	-.179	-.179	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	-.179	-.179	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	-.205	-.205	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	-.205	-.205	0	% 100
119	M132	X	0	0	0	% 100
120	M132	Z	-.819	-.819	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	M4	X	.111	.111	0	% 100
2	M4	Z	-.192	-.192	0	% 100
3	M10	X	.281	.281	0	% 100
4	M10	Z	-.487	-.487	0	% 100
5	M43	X	.281	.281	0	% 100
6	M43	Z	-.487	-.487	0	% 100
7	M46	X	.561	.561	0	% 100
8	M46	Z	-.972	-.972	0	% 100
9	M51B	X	.312	.312	0	% 100
10	M51B	Z	-.54	-.54	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	.187	.187	0	% 100
14	M76	Z	-.324	-.324	0	% 100
15	M77	X	.572	.572	0	% 100
16	M77	Z	-.99	-.99	0	% 100
17	M80	X	.602	.602	0	% 100
18	M80	Z	-1.043	-1.043	0	% 100
19	M84	X	.187	.187	0	% 100
20	M84	Z	-.324	-.324	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	.111	.111	0	% 100
26	M150A	Z	-.192	-.192	0	% 100
27	M151A	X	.281	.281	0	% 100
28	M151A	Z	-.487	-.487	0	% 100
29	M152A	X	.281	.281	0	% 100
30	M152A	Z	-.487	-.487	0	% 100
31	M153A	X	.561	.561	0	% 100
32	M153A	Z	-.972	-.972	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	.312	.312	0	% 100
36	M157A	Z	-.54	-.54	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	M161A	X	.187	.187	0	% 100
38	M161A	Z	-.324	-.324	0	% 100
39	M162A	X	0	0	0	% 100
40	M162A	Z	0	0	0	% 100
41	M164A	X	0	0	0	% 100
42	M164A	Z	0	0	0	% 100
43	M166A	X	.187	.187	0	% 100
44	M166A	Z	-.324	-.324	0	% 100
45	M167A	X	.572	.572	0	% 100
46	M167A	Z	-.99	-.99	0	% 100
47	M169A	X	.602	.602	0	% 100
48	M169A	Z	-1.043	-1.043	0	% 100
49	M174A	X	.443	.443	0	% 100
50	M174A	Z	-.768	-.768	0	% 100
51	M175A	X	0	0	0	% 100
52	M175A	Z	0	0	0	% 100
53	M176A	X	0	0	0	% 100
54	M176A	Z	0	0	0	% 100
55	M177A	X	0	0	0	% 100
56	M177A	Z	0	0	0	% 100
57	M180A	X	.312	.312	0	% 100
58	M180A	Z	-.54	-.54	0	% 100
59	M181A	X	.312	.312	0	% 100
60	M181A	Z	-.54	-.54	0	% 100
61	M185A	X	.749	.749	0	% 100
62	M185A	Z	-1.296	-1.296	0	% 100
63	M186A	X	.572	.572	0	% 100
64	M186A	Z	-.99	-.99	0	% 100
65	M188A	X	.602	.602	0	% 100
66	M188A	Z	-1.043	-1.043	0	% 100
67	M190A	X	.749	.749	0	% 100
68	M190A	Z	-1.296	-1.296	0	% 100
69	M191A	X	.572	.572	0	% 100
70	M191A	Z	-.99	-.99	0	% 100
71	M193A	X	.602	.602	0	% 100
72	M193A	Z	-1.043	-1.043	0	% 100
73	M199A	X	.327	.327	0	% 100
74	M199A	Z	-.567	-.567	0	% 100
75	M199B	X	.327	.327	0	% 100
76	M199B	Z	-.567	-.567	0	% 100
77	M200A	X	0	0	0	% 100
78	M200A	Z	0	0	0	% 100
79	MP1A	X	.296	.296	0	% 100
80	MP1A	Z	-.513	-.513	0	% 100
81	MP2A	X	.359	.359	0	% 100
82	MP2A	Z	-.621	-.621	0	% 100
83	MP3A	X	.296	.296	0	% 100
84	MP3A	Z	-.513	-.513	0	% 100
85	MP4A	X	.296	.296	0	% 100
86	MP4A	Z	-.513	-.513	0	% 100
87	MP5A	X	.296	.296	0	% 100
88	MP5A	Z	-.513	-.513	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, %]
89	MP1C	X	.296	.296	0	% 100
90	MP1C	Z	-.513	-.513	0	% 100
91	MP2C	X	.359	.359	0	% 100
92	MP2C	Z	-.621	-.621	0	% 100
93	MP3C	X	.296	.296	0	% 100
94	MP3C	Z	-.513	-.513	0	% 100
95	MP4C	X	.296	.296	0	% 100
96	MP4C	Z	-.513	-.513	0	% 100
97	MP5C	X	.296	.296	0	% 100
98	MP5C	Z	-.513	-.513	0	% 100
99	MP1B	X	.296	.296	0	% 100
100	MP1B	Z	-.513	-.513	0	% 100
101	MP2B	X	.359	.359	0	% 100
102	MP2B	Z	-.621	-.621	0	% 100
103	MP3B	X	.296	.296	0	% 100
104	MP3B	Z	-.513	-.513	0	% 100
105	MP4B	X	.296	.296	0	% 100
106	MP4B	Z	-.513	-.513	0	% 100
107	MP5B	X	.296	.296	0	% 100
108	MP5B	Z	-.513	-.513	0	% 100
109	M106	X	.269	.269	0	% 100
110	M106	Z	-.466	-.466	0	% 100
111	M111	X	.269	.269	0	% 100
112	M111	Z	-.466	-.466	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	.307	.307	0	% 100
116	M130	Z	-.532	-.532	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	.307	.307	0	% 100
120	M132	Z	-.532	-.532	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	M4	X	.576	.576	0	% 100
2	M4	Z	-.333	-.333	0	% 100
3	M10	X	.162	.162	0	% 100
4	M10	Z	-.094	-.094	0	% 100
5	M43	X	.162	.162	0	% 100
6	M43	Z	-.094	-.094	0	% 100
7	M46	X	.324	.324	0	% 100
8	M46	Z	-.187	-.187	0	% 100
9	M51B	X	.72	.72	0	% 100
10	M51B	Z	-.416	-.416	0	% 100
11	M52B	X	.18	.18	0	% 100
12	M52B	Z	-.104	-.104	0	% 100
13	M76	X	.972	.972	0	% 100
14	M76	Z	-.561	-.561	0	% 100
15	M77	X	1.32	1.32	0	% 100
16	M77	Z	-.762	-.762	0	% 100



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**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, %]
17	M80	X	1.391	1.391	0	% 100
18	M80	Z	-.803	-.803	0	% 100
19	M84	X	.972	.972	0	% 100
20	M84	Z	-.561	-.561	0	% 100
21	M85	X	.33	.33	0	% 100
22	M85	Z	-.191	-.191	0	% 100
23	M91	X	.348	.348	0	% 100
24	M91	Z	-.201	-.201	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	.65	.65	0	% 100
28	M151A	Z	-.375	-.375	0	% 100
29	M152A	X	.65	.65	0	% 100
30	M152A	Z	-.375	-.375	0	% 100
31	M153A	X	1.296	1.296	0	% 100
32	M153A	Z	-.749	-.749	0	% 100
33	M156A	X	.18	.18	0	% 100
34	M156A	Z	-.104	-.104	0	% 100
35	M157A	X	.18	.18	0	% 100
36	M157A	Z	-.104	-.104	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	.33	.33	0	% 100
40	M162A	Z	-.191	-.191	0	% 100
41	M164A	X	.348	.348	0	% 100
42	M164A	Z	-.201	-.201	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	0	0	0	% 100
45	M167A	X	.33	.33	0	% 100
46	M167A	Z	-.191	-.191	0	% 100
47	M169A	X	.348	.348	0	% 100
48	M169A	Z	-.201	-.201	0	% 100
49	M174A	X	.576	.576	0	% 100
50	M174A	Z	-.333	-.333	0	% 100
51	M175A	X	.162	.162	0	% 100
52	M175A	Z	-.094	-.094	0	% 100
53	M176A	X	.162	.162	0	% 100
54	M176A	Z	-.094	-.094	0	% 100
55	M177A	X	.324	.324	0	% 100
56	M177A	Z	-.187	-.187	0	% 100
57	M180A	X	.18	.18	0	% 100
58	M180A	Z	-.104	-.104	0	% 100
59	M181A	X	.72	.72	0	% 100
60	M181A	Z	-.416	-.416	0	% 100
61	M185A	X	.972	.972	0	% 100
62	M185A	Z	-.561	-.561	0	% 100
63	M186A	X	.33	.33	0	% 100
64	M186A	Z	-.191	-.191	0	% 100
65	M188A	X	.348	.348	0	% 100
66	M188A	Z	-.201	-.201	0	% 100
67	M190A	X	.972	.972	0	% 100
68	M190A	Z	-.561	-.561	0	% 100



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**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,%]
69	M191A	X	1.32	1.32	0 %100
70	M191A	Z	-.762	-.762	0 %100
71	M193A	X	1.391	1.391	0 %100
72	M193A	Z	-.803	-.803	0 %100
73	M199A	X	.189	.189	0 %100
74	M199A	Z	-.109	-.109	0 %100
75	M199B	X	.756	.756	0 %100
76	M199B	Z	-.437	-.437	0 %100
77	M200A	X	.189	.189	0 %100
78	M200A	Z	-.109	-.109	0 %100
79	MP1A	X	.513	.513	0 %100
80	MP1A	Z	-.296	-.296	0 %100
81	MP2A	X	.621	.621	0 %100
82	MP2A	Z	-.359	-.359	0 %100
83	MP3A	X	.513	.513	0 %100
84	MP3A	Z	-.296	-.296	0 %100
85	MP4A	X	.513	.513	0 %100
86	MP4A	Z	-.296	-.296	0 %100
87	MP5A	X	.513	.513	0 %100
88	MP5A	Z	-.296	-.296	0 %100
89	MP1C	X	.513	.513	0 %100
90	MP1C	Z	-.296	-.296	0 %100
91	MP2C	X	.621	.621	0 %100
92	MP2C	Z	-.359	-.359	0 %100
93	MP3C	X	.513	.513	0 %100
94	MP3C	Z	-.296	-.296	0 %100
95	MP4C	X	.513	.513	0 %100
96	MP4C	Z	-.296	-.296	0 %100
97	MP5C	X	.513	.513	0 %100
98	MP5C	Z	-.296	-.296	0 %100
99	MP1B	X	.513	.513	0 %100
100	MP1B	Z	-.296	-.296	0 %100
101	MP2B	X	.621	.621	0 %100
102	MP2B	Z	-.359	-.359	0 %100
103	MP3B	X	.513	.513	0 %100
104	MP3B	Z	-.296	-.296	0 %100
105	MP4B	X	.513	.513	0 %100
106	MP4B	Z	-.296	-.296	0 %100
107	MP5B	X	.513	.513	0 %100
108	MP5B	Z	-.296	-.296	0 %100
109	M106	X	.155	.155	0 %100
110	M106	Z	-.09	-.09	0 %100
111	M111	X	.621	.621	0 %100
112	M111	Z	-.359	-.359	0 %100
113	M116	X	.155	.155	0 %100
114	M116	Z	-.09	-.09	0 %100
115	M130	X	.709	.709	0 %100
116	M130	Z	-.41	-.41	0 %100
117	M131	X	.177	.177	0 %100
118	M131	Z	-.102	-.102	0 %100
119	M132	X	.177	.177	0 %100
120	M132	Z	-.102	-.102	0 %100



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
 Model Name : 467194-VZW\_MT\_LO\_H

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**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	M4	X	.887	.887	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	0	0	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	0	0	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	0	0	0	% 100
9	M51B	X	.623	.623	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	.623	.623	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	1.497	1.497	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	1.144	1.144	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	1.205	1.205	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	1.497	1.497	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	1.144	1.144	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	1.205	1.205	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	.222	.222	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	.563	.563	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	.563	.563	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	1.123	1.123	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	.623	.623	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	0	0	0	% 100
37	M161A	X	.374	.374	0	% 100
38	M161A	Z	0	0	0	% 100
39	M162A	X	1.144	1.144	0	% 100
40	M162A	Z	0	0	0	% 100
41	M164A	X	1.205	1.205	0	% 100
42	M164A	Z	0	0	0	% 100
43	M166A	X	.374	.374	0	% 100
44	M166A	Z	0	0	0	% 100
45	M167A	X	0	0	0	% 100
46	M167A	Z	0	0	0	% 100
47	M169A	X	0	0	0	% 100
48	M169A	Z	0	0	0	% 100
49	M174A	X	.222	.222	0	% 100
50	M174A	Z	0	0	0	% 100
51	M175A	X	.563	.563	0	% 100
52	M175A	Z	0	0	0	% 100



Company : Maser Consulting  
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**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,%]
53	M176A	X	.563	.563	0 % 100
54	M176A	Z	0	0	0 % 100
55	M177A	X	1.123	1.123	0 % 100
56	M177A	Z	0	0	0 % 100
57	M180A	X	0	0	0 % 100
58	M180A	Z	0	0	0 % 100
59	M181A	X	.623	.623	0 % 100
60	M181A	Z	0	0	0 % 100
61	M185A	X	.374	.374	0 % 100
62	M185A	Z	0	0	0 % 100
63	M186A	X	0	0	0 % 100
64	M186A	Z	0	0	0 % 100
65	M188A	X	0	0	0 % 100
66	M188A	Z	0	0	0 % 100
67	M190A	X	.374	.374	0 % 100
68	M190A	Z	0	0	0 % 100
69	M191A	X	1.144	1.144	0 % 100
70	M191A	Z	0	0	0 % 100
71	M193A	X	1.205	1.205	0 % 100
72	M193A	Z	0	0	0 % 100
73	M199A	X	0	0	0 % 100
74	M199A	Z	0	0	0 % 100
75	M199B	X	.655	.655	0 % 100
76	M199B	Z	0	0	0 % 100
77	M200A	X	.655	.655	0 % 100
78	M200A	Z	0	0	0 % 100
79	MP1A	X	.593	.593	0 % 100
80	MP1A	Z	0	0	0 % 100
81	MP2A	X	.717	.717	0 % 100
82	MP2A	Z	0	0	0 % 100
83	MP3A	X	.593	.593	0 % 100
84	MP3A	Z	0	0	0 % 100
85	MP4A	X	.593	.593	0 % 100
86	MP4A	Z	0	0	0 % 100
87	MP5A	X	.593	.593	0 % 100
88	MP5A	Z	0	0	0 % 100
89	MP1C	X	.593	.593	0 % 100
90	MP1C	Z	0	0	0 % 100
91	MP2C	X	.717	.717	0 % 100
92	MP2C	Z	0	0	0 % 100
93	MP3C	X	.593	.593	0 % 100
94	MP3C	Z	0	0	0 % 100
95	MP4C	X	.593	.593	0 % 100
96	MP4C	Z	0	0	0 % 100
97	MP5C	X	.593	.593	0 % 100
98	MP5C	Z	0	0	0 % 100
99	MP1B	X	.593	.593	0 % 100
100	MP1B	Z	0	0	0 % 100
101	MP2B	X	.717	.717	0 % 100
102	MP2B	Z	0	0	0 % 100
103	MP3B	X	.593	.593	0 % 100
104	MP3B	Z	0	0	0 % 100



Company : Maser Consulting  
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 Job Number : Project No. 10037788  
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**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, %]
105	MP4B	X	.593	.593	0	% 100
106	MP4B	Z	0	0	0	% 100
107	MP5B	X	.593	.593	0	% 100
108	MP5B	Z	0	0	0	% 100
109	M106	X	0	0	0	% 100
110	M106	Z	0	0	0	% 100
111	M111	X	.538	.538	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	.538	.538	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	.614	.614	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	.614	.614	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	0	0	0	% 100
120	M132	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	M4	X	.576	.576	0	% 100
2	M4	Z	.333	.333	0	% 100
3	M10	X	.162	.162	0	% 100
4	M10	Z	.094	.094	0	% 100
5	M43	X	.162	.162	0	% 100
6	M43	Z	.094	.094	0	% 100
7	M46	X	.324	.324	0	% 100
8	M46	Z	.187	.187	0	% 100
9	M51B	X	.18	.18	0	% 100
10	M51B	Z	.104	.104	0	% 100
11	M52B	X	.72	.72	0	% 100
12	M52B	Z	.416	.416	0	% 100
13	M76	X	.972	.972	0	% 100
14	M76	Z	.561	.561	0	% 100
15	M77	X	.33	.33	0	% 100
16	M77	Z	.191	.191	0	% 100
17	M80	X	.348	.348	0	% 100
18	M80	Z	.201	.201	0	% 100
19	M84	X	.972	.972	0	% 100
20	M84	Z	.561	.561	0	% 100
21	M85	X	1.32	1.32	0	% 100
22	M85	Z	.762	.762	0	% 100
23	M91	X	1.391	1.391	0	% 100
24	M91	Z	.803	.803	0	% 100
25	M150A	X	.576	.576	0	% 100
26	M150A	Z	.333	.333	0	% 100
27	M151A	X	.162	.162	0	% 100
28	M151A	Z	.094	.094	0	% 100
29	M152A	X	.162	.162	0	% 100
30	M152A	Z	.094	.094	0	% 100
31	M153A	X	.324	.324	0	% 100
32	M153A	Z	.187	.187	0	% 100





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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,%]
33	M156A	X	.72	.72	0 %100
34	M156A	Z	.416	.416	0 %100
35	M157A	X	.18	.18	0 %100
36	M157A	Z	.104	.104	0 %100
37	M161A	X	.972	.972	0 %100
38	M161A	Z	.561	.561	0 %100
39	M162A	X	1.32	1.32	0 %100
40	M162A	Z	.762	.762	0 %100
41	M164A	X	1.391	1.391	0 %100
42	M164A	Z	.803	.803	0 %100
43	M166A	X	.972	.972	0 %100
44	M166A	Z	.561	.561	0 %100
45	M167A	X	.33	.33	0 %100
46	M167A	Z	.191	.191	0 %100
47	M169A	X	.348	.348	0 %100
48	M169A	Z	.201	.201	0 %100
49	M174A	X	0	0	0 %100
50	M174A	Z	0	0	0 %100
51	M175A	X	.65	.65	0 %100
52	M175A	Z	.375	.375	0 %100
53	M176A	X	.65	.65	0 %100
54	M176A	Z	.375	.375	0 %100
55	M177A	X	1.296	1.296	0 %100
56	M177A	Z	.749	.749	0 %100
57	M180A	X	.18	.18	0 %100
58	M180A	Z	.104	.104	0 %100
59	M181A	X	.18	.18	0 %100
60	M181A	Z	.104	.104	0 %100
61	M185A	X	0	0	0 %100
62	M185A	Z	0	0	0 %100
63	M186A	X	.33	.33	0 %100
64	M186A	Z	.191	.191	0 %100
65	M188A	X	.348	.348	0 %100
66	M188A	Z	.201	.201	0 %100
67	M190A	X	0	0	0 %100
68	M190A	Z	0	0	0 %100
69	M191A	X	.33	.33	0 %100
70	M191A	Z	.191	.191	0 %100
71	M193A	X	.348	.348	0 %100
72	M193A	Z	.201	.201	0 %100
73	M199A	X	.189	.189	0 %100
74	M199A	Z	.109	.109	0 %100
75	M199B	X	.189	.189	0 %100
76	M199B	Z	.109	.109	0 %100
77	M200A	X	.756	.756	0 %100
78	M200A	Z	.437	.437	0 %100
79	MP1A	X	.513	.513	0 %100
80	MP1A	Z	.296	.296	0 %100
81	MP2A	X	.621	.621	0 %100
82	MP2A	Z	.359	.359	0 %100
83	MP3A	X	.513	.513	0 %100
84	MP3A	Z	.296	.296	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, %]
85	MP4A	X	.513	.513	0	% 100
86	MP4A	Z	.296	.296	0	% 100
87	MP5A	X	.513	.513	0	% 100
88	MP5A	Z	.296	.296	0	% 100
89	MP1C	X	.513	.513	0	% 100
90	MP1C	Z	.296	.296	0	% 100
91	MP2C	X	.621	.621	0	% 100
92	MP2C	Z	.359	.359	0	% 100
93	MP3C	X	.513	.513	0	% 100
94	MP3C	Z	.296	.296	0	% 100
95	MP4C	X	.513	.513	0	% 100
96	MP4C	Z	.296	.296	0	% 100
97	MP5C	X	.513	.513	0	% 100
98	MP5C	Z	.296	.296	0	% 100
99	MP1B	X	.513	.513	0	% 100
100	MP1B	Z	.296	.296	0	% 100
101	MP2B	X	.621	.621	0	% 100
102	MP2B	Z	.359	.359	0	% 100
103	MP3B	X	.513	.513	0	% 100
104	MP3B	Z	.296	.296	0	% 100
105	MP4B	X	.513	.513	0	% 100
106	MP4B	Z	.296	.296	0	% 100
107	MP5B	X	.513	.513	0	% 100
108	MP5B	Z	.296	.296	0	% 100
109	M106	X	.155	.155	0	% 100
110	M106	Z	.09	.09	0	% 100
111	M111	X	.155	.155	0	% 100
112	M111	Z	.09	.09	0	% 100
113	M116	X	.621	.621	0	% 100
114	M116	Z	.359	.359	0	% 100
115	M130	X	.177	.177	0	% 100
116	M130	Z	.102	.102	0	% 100
117	M131	X	.709	.709	0	% 100
118	M131	Z	.41	.41	0	% 100
119	M132	X	.177	.177	0	% 100
120	M132	Z	.102	.102	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	M4	X	.111	.111	0	% 100
2	M4	Z	.192	.192	0	% 100
3	M10	X	.281	.281	0	% 100
4	M10	Z	.487	.487	0	% 100
5	M43	X	.281	.281	0	% 100
6	M43	Z	.487	.487	0	% 100
7	M46	X	.561	.561	0	% 100
8	M46	Z	.972	.972	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	.312	.312	0	% 100
12	M52B	Z	.54	.54	0	% 100



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**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,%]
13	M76	X	.187	.187	0	% 100
14	M76	Z	.324	.324	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	.187	.187	0	% 100
20	M84	Z	.324	.324	0	% 100
21	M85	X	.572	.572	0	% 100
22	M85	Z	.99	.99	0	% 100
23	M91	X	.602	.602	0	% 100
24	M91	Z	1.043	1.043	0	% 100
25	M150A	X	.443	.443	0	% 100
26	M150A	Z	.768	.768	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	.312	.312	0	% 100
34	M156A	Z	.54	.54	0	% 100
35	M157A	X	.312	.312	0	% 100
36	M157A	Z	.54	.54	0	% 100
37	M161A	X	.749	.749	0	% 100
38	M161A	Z	1.296	1.296	0	% 100
39	M162A	X	.572	.572	0	% 100
40	M162A	Z	.99	.99	0	% 100
41	M164A	X	.602	.602	0	% 100
42	M164A	Z	1.043	1.043	0	% 100
43	M166A	X	.749	.749	0	% 100
44	M166A	Z	1.296	1.296	0	% 100
45	M167A	X	.572	.572	0	% 100
46	M167A	Z	.99	.99	0	% 100
47	M169A	X	.602	.602	0	% 100
48	M169A	Z	1.043	1.043	0	% 100
49	M174A	X	.111	.111	0	% 100
50	M174A	Z	.192	.192	0	% 100
51	M175A	X	.281	.281	0	% 100
52	M175A	Z	.487	.487	0	% 100
53	M176A	X	.281	.281	0	% 100
54	M176A	Z	.487	.487	0	% 100
55	M177A	X	.561	.561	0	% 100
56	M177A	Z	.972	.972	0	% 100
57	M180A	X	.312	.312	0	% 100
58	M180A	Z	.54	.54	0	% 100
59	M181A	X	0	0	0	% 100
60	M181A	Z	0	0	0	% 100
61	M185A	X	.187	.187	0	% 100
62	M185A	Z	.324	.324	0	% 100
63	M186A	X	.572	.572	0	% 100
64	M186A	Z	.99	.99	0	% 100



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**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,%]
65	M188A	X	.602	.602	0 % 100
66	M188A	Z	1.043	1.043	0 % 100
67	M190A	X	.187	.187	0 % 100
68	M190A	Z	.324	.324	0 % 100
69	M191A	X	0	0	0 % 100
70	M191A	Z	0	0	0 % 100
71	M193A	X	0	0	0 % 100
72	M193A	Z	0	0	0 % 100
73	M199A	X	.327	.327	0 % 100
74	M199A	Z	.567	.567	0 % 100
75	M199B	X	0	0	0 % 100
76	M199B	Z	0	0	0 % 100
77	M200A	X	.327	.327	0 % 100
78	M200A	Z	.567	.567	0 % 100
79	MP1A	X	.296	.296	0 % 100
80	MP1A	Z	.513	.513	0 % 100
81	MP2A	X	.359	.359	0 % 100
82	MP2A	Z	.621	.621	0 % 100
83	MP3A	X	.296	.296	0 % 100
84	MP3A	Z	.513	.513	0 % 100
85	MP4A	X	.296	.296	0 % 100
86	MP4A	Z	.513	.513	0 % 100
87	MP5A	X	.296	.296	0 % 100
88	MP5A	Z	.513	.513	0 % 100
89	MP1C	X	.296	.296	0 % 100
90	MP1C	Z	.513	.513	0 % 100
91	MP2C	X	.359	.359	0 % 100
92	MP2C	Z	.621	.621	0 % 100
93	MP3C	X	.296	.296	0 % 100
94	MP3C	Z	.513	.513	0 % 100
95	MP4C	X	.296	.296	0 % 100
96	MP4C	Z	.513	.513	0 % 100
97	MP5C	X	.296	.296	0 % 100
98	MP5C	Z	.513	.513	0 % 100
99	MP1B	X	.296	.296	0 % 100
100	MP1B	Z	.513	.513	0 % 100
101	MP2B	X	.359	.359	0 % 100
102	MP2B	Z	.621	.621	0 % 100
103	MP3B	X	.296	.296	0 % 100
104	MP3B	Z	.513	.513	0 % 100
105	MP4B	X	.296	.296	0 % 100
106	MP4B	Z	.513	.513	0 % 100
107	MP5B	X	.296	.296	0 % 100
108	MP5B	Z	.513	.513	0 % 100
109	M106	X	.269	.269	0 % 100
110	M106	Z	.466	.466	0 % 100
111	M111	X	0	0	0 % 100
112	M111	Z	0	0	0 % 100
113	M116	X	.269	.269	0 % 100
114	M116	Z	.466	.466	0 % 100
115	M130	X	0	0	0 % 100
116	M130	Z	0	0	0 % 100



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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**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,%]
117	M131	X	.307	.307	0	% 100
118	M131	Z	.532	.532	0	% 100
119	M132	X	.307	.307	0	% 100
120	M132	Z	.532	.532	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	M4	X	0	0	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	.751	.751	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	.751	.751	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	1.497	1.497	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	.208	.208	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	.208	.208	0	% 100
13	M76	X	0	0	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	.381	.381	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	.402	.402	0	% 100
19	M84	X	0	0	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	.381	.381	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	.402	.402	0	% 100
25	M150A	X	0	0	0	% 100
26	M150A	Z	.665	.665	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	.188	.188	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	.188	.188	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	.374	.374	0	% 100
33	M156A	X	0	0	0	% 100
34	M156A	Z	.208	.208	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	.831	.831	0	% 100
37	M161A	X	0	0	0	% 100
38	M161A	Z	1.123	1.123	0	% 100
39	M162A	X	0	0	0	% 100
40	M162A	Z	.381	.381	0	% 100
41	M164A	X	0	0	0	% 100
42	M164A	Z	.402	.402	0	% 100
43	M166A	X	0	0	0	% 100
44	M166A	Z	1.123	1.123	0	% 100



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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,%]
45	M167A	X	0	0	0 % 100
46	M167A	Z	1.525	1.525	0 % 100
47	M169A	X	0	0	0 % 100
48	M169A	Z	1.606	1.606	0 % 100
49	M174A	X	0	0	0 % 100
50	M174A	Z	.665	.665	0 % 100
51	M175A	X	0	0	0 % 100
52	M175A	Z	.188	.188	0 % 100
53	M176A	X	0	0	0 % 100
54	M176A	Z	.188	.188	0 % 100
55	M177A	X	0	0	0 % 100
56	M177A	Z	.374	.374	0 % 100
57	M180A	X	0	0	0 % 100
58	M180A	Z	.831	.831	0 % 100
59	M181A	X	0	0	0 % 100
60	M181A	Z	.208	.208	0 % 100
61	M185A	X	0	0	0 % 100
62	M185A	Z	1.123	1.123	0 % 100
63	M186A	X	0	0	0 % 100
64	M186A	Z	1.525	1.525	0 % 100
65	M188A	X	0	0	0 % 100
66	M188A	Z	1.606	1.606	0 % 100
67	M190A	X	0	0	0 % 100
68	M190A	Z	1.123	1.123	0 % 100
69	M191A	X	0	0	0 % 100
70	M191A	Z	.381	.381	0 % 100
71	M193A	X	0	0	0 % 100
72	M193A	Z	.402	.402	0 % 100
73	M199A	X	0	0	0 % 100
74	M199A	Z	.873	.873	0 % 100
75	M199B	X	0	0	0 % 100
76	M199B	Z	.218	.218	0 % 100
77	M200A	X	0	0	0 % 100
78	M200A	Z	.218	.218	0 % 100
79	MP1A	X	0	0	0 % 100
80	MP1A	Z	.593	.593	0 % 100
81	MP2A	X	0	0	0 % 100
82	MP2A	Z	.717	.717	0 % 100
83	MP3A	X	0	0	0 % 100
84	MP3A	Z	.593	.593	0 % 100
85	MP4A	X	0	0	0 % 100
86	MP4A	Z	.593	.593	0 % 100
87	MP5A	X	0	0	0 % 100
88	MP5A	Z	.593	.593	0 % 100
89	MP1C	X	0	0	0 % 100
90	MP1C	Z	.593	.593	0 % 100
91	MP2C	X	0	0	0 % 100
92	MP2C	Z	.717	.717	0 % 100
93	MP3C	X	0	0	0 % 100
94	MP3C	Z	.593	.593	0 % 100
95	MP4C	X	0	0	0 % 100
96	MP4C	Z	.593	.593	0 % 100





Company : Maser Consulting  
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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,%]
97	MP5C	X	0	0	0	% 100
98	MP5C	Z	.593	.593	0	% 100
99	MP1B	X	0	0	0	% 100
100	MP1B	Z	.593	.593	0	% 100
101	MP2B	X	0	0	0	% 100
102	MP2B	Z	.717	.717	0	% 100
103	MP3B	X	0	0	0	% 100
104	MP3B	Z	.593	.593	0	% 100
105	MP4B	X	0	0	0	% 100
106	MP4B	Z	.593	.593	0	% 100
107	MP5B	X	0	0	0	% 100
108	MP5B	Z	.593	.593	0	% 100
109	M106	X	0	0	0	% 100
110	M106	Z	.717	.717	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	.179	.179	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	.179	.179	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	.205	.205	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	.205	.205	0	% 100
119	M132	X	0	0	0	% 100
120	M132	Z	.819	.819	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	M4	X	-.111	-.111	0	% 100
2	M4	Z	.192	.192	0	% 100
3	M10	X	-.281	-.281	0	% 100
4	M10	Z	.487	.487	0	% 100
5	M43	X	-.281	-.281	0	% 100
6	M43	Z	.487	.487	0	% 100
7	M46	X	-.561	-.561	0	% 100
8	M46	Z	.972	.972	0	% 100
9	M51B	X	-.312	-.312	0	% 100
10	M51B	Z	.54	.54	0	% 100
11	M52B	X	0	0	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	-.187	-.187	0	% 100
14	M76	Z	.324	.324	0	% 100
15	M77	X	-.572	-.572	0	% 100
16	M77	Z	.99	.99	0	% 100
17	M80	X	-.602	-.602	0	% 100
18	M80	Z	1.043	1.043	0	% 100
19	M84	X	-.187	-.187	0	% 100
20	M84	Z	.324	.324	0	% 100
21	M85	X	0	0	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	0	0	0	% 100
24	M91	Z	0	0	0	% 100



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**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,%]
25	M150A	X	-.111	-.111	0 %100
26	M150A	Z	.192	.192	0 %100
27	M151A	X	-.281	-.281	0 %100
28	M151A	Z	.487	.487	0 %100
29	M152A	X	-.281	-.281	0 %100
30	M152A	Z	.487	.487	0 %100
31	M153A	X	-.561	-.561	0 %100
32	M153A	Z	.972	.972	0 %100
33	M156A	X	0	0	0 %100
34	M156A	Z	0	0	0 %100
35	M157A	X	-.312	-.312	0 %100
36	M157A	Z	.54	.54	0 %100
37	M161A	X	-.187	-.187	0 %100
38	M161A	Z	.324	.324	0 %100
39	M162A	X	0	0	0 %100
40	M162A	Z	0	0	0 %100
41	M164A	X	0	0	0 %100
42	M164A	Z	0	0	0 %100
43	M166A	X	-.187	-.187	0 %100
44	M166A	Z	.324	.324	0 %100
45	M167A	X	-.572	-.572	0 %100
46	M167A	Z	.99	.99	0 %100
47	M169A	X	-.602	-.602	0 %100
48	M169A	Z	1.043	1.043	0 %100
49	M174A	X	-.443	-.443	0 %100
50	M174A	Z	.768	.768	0 %100
51	M175A	X	0	0	0 %100
52	M175A	Z	0	0	0 %100
53	M176A	X	0	0	0 %100
54	M176A	Z	0	0	0 %100
55	M177A	X	0	0	0 %100
56	M177A	Z	0	0	0 %100
57	M180A	X	-.312	-.312	0 %100
58	M180A	Z	.54	.54	0 %100
59	M181A	X	-.312	-.312	0 %100
60	M181A	Z	.54	.54	0 %100
61	M185A	X	-.749	-.749	0 %100
62	M185A	Z	1.296	1.296	0 %100
63	M186A	X	-.572	-.572	0 %100
64	M186A	Z	.99	.99	0 %100
65	M188A	X	-.602	-.602	0 %100
66	M188A	Z	1.043	1.043	0 %100
67	M190A	X	-.749	-.749	0 %100
68	M190A	Z	1.296	1.296	0 %100
69	M191A	X	-.572	-.572	0 %100
70	M191A	Z	.99	.99	0 %100
71	M193A	X	-.602	-.602	0 %100
72	M193A	Z	1.043	1.043	0 %100
73	M199A	X	-.327	-.327	0 %100
74	M199A	Z	.567	.567	0 %100
75	M199B	X	-.327	-.327	0 %100
76	M199B	Z	.567	.567	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, %]
77	M200A	X	0	0	0	% 100
78	M200A	Z	0	0	0	% 100
79	MP1A	X	-.296	-.296	0	% 100
80	MP1A	Z	.513	.513	0	% 100
81	MP2A	X	-.359	-.359	0	% 100
82	MP2A	Z	.621	.621	0	% 100
83	MP3A	X	-.296	-.296	0	% 100
84	MP3A	Z	.513	.513	0	% 100
85	MP4A	X	-.296	-.296	0	% 100
86	MP4A	Z	.513	.513	0	% 100
87	MP5A	X	-.296	-.296	0	% 100
88	MP5A	Z	.513	.513	0	% 100
89	MP1C	X	-.296	-.296	0	% 100
90	MP1C	Z	.513	.513	0	% 100
91	MP2C	X	-.359	-.359	0	% 100
92	MP2C	Z	.621	.621	0	% 100
93	MP3C	X	-.296	-.296	0	% 100
94	MP3C	Z	.513	.513	0	% 100
95	MP4C	X	-.296	-.296	0	% 100
96	MP4C	Z	.513	.513	0	% 100
97	MP5C	X	-.296	-.296	0	% 100
98	MP5C	Z	.513	.513	0	% 100
99	MP1B	X	-.296	-.296	0	% 100
100	MP1B	Z	.513	.513	0	% 100
101	MP2B	X	-.359	-.359	0	% 100
102	MP2B	Z	.621	.621	0	% 100
103	MP3B	X	-.296	-.296	0	% 100
104	MP3B	Z	.513	.513	0	% 100
105	MP4B	X	-.296	-.296	0	% 100
106	MP4B	Z	.513	.513	0	% 100
107	MP5B	X	-.296	-.296	0	% 100
108	MP5B	Z	.513	.513	0	% 100
109	M106	X	-.269	-.269	0	% 100
110	M106	Z	.466	.466	0	% 100
111	M111	X	-.269	-.269	0	% 100
112	M111	Z	.466	.466	0	% 100
113	M116	X	0	0	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	-.307	-.307	0	% 100
116	M130	Z	.532	.532	0	% 100
117	M131	X	0	0	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	-.307	-.307	0	% 100
120	M132	Z	.532	.532	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-.576	-.576	0	% 100
2	M4	Z	.333	.333	0	% 100
3	M10	X	-.162	-.162	0	% 100
4	M10	Z	.094	.094	0	% 100



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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,%]
5	M43	X	-.162	-.162	0 %100
6	M43	Z	.094	.094	0 %100
7	M46	X	-.324	-.324	0 %100
8	M46	Z	.187	.187	0 %100
9	M51B	X	-.72	-.72	0 %100
10	M51B	Z	.416	.416	0 %100
11	M52B	X	-.18	-.18	0 %100
12	M52B	Z	.104	.104	0 %100
13	M76	X	-.972	-.972	0 %100
14	M76	Z	.561	.561	0 %100
15	M77	X	-1.32	-1.32	0 %100
16	M77	Z	.762	.762	0 %100
17	M80	X	-1.391	-1.391	0 %100
18	M80	Z	.803	.803	0 %100
19	M84	X	-.972	-.972	0 %100
20	M84	Z	.561	.561	0 %100
21	M85	X	-.33	-.33	0 %100
22	M85	Z	.191	.191	0 %100
23	M91	X	-.348	-.348	0 %100
24	M91	Z	.201	.201	0 %100
25	M150A	X	0	0	0 %100
26	M150A	Z	0	0	0 %100
27	M151A	X	-.65	-.65	0 %100
28	M151A	Z	.375	.375	0 %100
29	M152A	X	-.65	-.65	0 %100
30	M152A	Z	.375	.375	0 %100
31	M153A	X	-1.296	-1.296	0 %100
32	M153A	Z	.749	.749	0 %100
33	M156A	X	-.18	-.18	0 %100
34	M156A	Z	.104	.104	0 %100
35	M157A	X	-.18	-.18	0 %100
36	M157A	Z	.104	.104	0 %100
37	M161A	X	0	0	0 %100
38	M161A	Z	0	0	0 %100
39	M162A	X	-.33	-.33	0 %100
40	M162A	Z	.191	.191	0 %100
41	M164A	X	-.348	-.348	0 %100
42	M164A	Z	.201	.201	0 %100
43	M166A	X	0	0	0 %100
44	M166A	Z	0	0	0 %100
45	M167A	X	-.33	-.33	0 %100
46	M167A	Z	.191	.191	0 %100
47	M169A	X	-.348	-.348	0 %100
48	M169A	Z	.201	.201	0 %100
49	M174A	X	-.576	-.576	0 %100
50	M174A	Z	.333	.333	0 %100
51	M175A	X	-.162	-.162	0 %100
52	M175A	Z	.094	.094	0 %100
53	M176A	X	-.162	-.162	0 %100
54	M176A	Z	.094	.094	0 %100
55	M177A	X	-.324	-.324	0 %100
56	M177A	Z	.187	.187	0 %100



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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, %]
57	M180A	X	-.18	-.18	0 %100
58	M180A	Z	.104	.104	0 %100
59	M181A	X	-.72	-.72	0 %100
60	M181A	Z	.416	.416	0 %100
61	M185A	X	-.972	-.972	0 %100
62	M185A	Z	.561	.561	0 %100
63	M186A	X	-.33	-.33	0 %100
64	M186A	Z	.191	.191	0 %100
65	M188A	X	-.348	-.348	0 %100
66	M188A	Z	.201	.201	0 %100
67	M190A	X	-.972	-.972	0 %100
68	M190A	Z	.561	.561	0 %100
69	M191A	X	-1.32	-1.32	0 %100
70	M191A	Z	.762	.762	0 %100
71	M193A	X	-1.391	-1.391	0 %100
72	M193A	Z	.803	.803	0 %100
73	M199A	X	-.189	-.189	0 %100
74	M199A	Z	.109	.109	0 %100
75	M199B	X	-.756	-.756	0 %100
76	M199B	Z	.437	.437	0 %100
77	M200A	X	-.189	-.189	0 %100
78	M200A	Z	.109	.109	0 %100
79	MP1A	X	-.513	-.513	0 %100
80	MP1A	Z	.296	.296	0 %100
81	MP2A	X	-.621	-.621	0 %100
82	MP2A	Z	.359	.359	0 %100
83	MP3A	X	-.513	-.513	0 %100
84	MP3A	Z	.296	.296	0 %100
85	MP4A	X	-.513	-.513	0 %100
86	MP4A	Z	.296	.296	0 %100
87	MP5A	X	-.513	-.513	0 %100
88	MP5A	Z	.296	.296	0 %100
89	MP1C	X	-.513	-.513	0 %100
90	MP1C	Z	.296	.296	0 %100
91	MP2C	X	-.621	-.621	0 %100
92	MP2C	Z	.359	.359	0 %100
93	MP3C	X	-.513	-.513	0 %100
94	MP3C	Z	.296	.296	0 %100
95	MP4C	X	-.513	-.513	0 %100
96	MP4C	Z	.296	.296	0 %100
97	MP5C	X	-.513	-.513	0 %100
98	MP5C	Z	.296	.296	0 %100
99	MP1B	X	-.513	-.513	0 %100
100	MP1B	Z	.296	.296	0 %100
101	MP2B	X	-.621	-.621	0 %100
102	MP2B	Z	.359	.359	0 %100
103	MP3B	X	-.513	-.513	0 %100
104	MP3B	Z	.296	.296	0 %100
105	MP4B	X	-.513	-.513	0 %100
106	MP4B	Z	.296	.296	0 %100
107	MP5B	X	-.513	-.513	0 %100
108	MP5B	Z	.296	.296	0 %100



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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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, %]
109	M106	X	-.155	-.155	0	% 100
110	M106	Z	.09	.09	0	% 100
111	M111	X	-.621	-.621	0	% 100
112	M111	Z	.359	.359	0	% 100
113	M116	X	-.155	-.155	0	% 100
114	M116	Z	.09	.09	0	% 100
115	M130	X	-.709	-.709	0	% 100
116	M130	Z	.41	.41	0	% 100
117	M131	X	-.177	-.177	0	% 100
118	M131	Z	.102	.102	0	% 100
119	M132	X	-.177	-.177	0	% 100
120	M132	Z	.102	.102	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	M4	X	-.887	-.887	0	% 100
2	M4	Z	0	0	0	% 100
3	M10	X	0	0	0	% 100
4	M10	Z	0	0	0	% 100
5	M43	X	0	0	0	% 100
6	M43	Z	0	0	0	% 100
7	M46	X	0	0	0	% 100
8	M46	Z	0	0	0	% 100
9	M51B	X	-.623	-.623	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	-.623	-.623	0	% 100
12	M52B	Z	0	0	0	% 100
13	M76	X	-1.497	-1.497	0	% 100
14	M76	Z	0	0	0	% 100
15	M77	X	-1.144	-1.144	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	-1.205	-1.205	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	-1.497	-1.497	0	% 100
20	M84	Z	0	0	0	% 100
21	M85	X	-1.144	-1.144	0	% 100
22	M85	Z	0	0	0	% 100
23	M91	X	-1.205	-1.205	0	% 100
24	M91	Z	0	0	0	% 100
25	M150A	X	-.222	-.222	0	% 100
26	M150A	Z	0	0	0	% 100
27	M151A	X	-.563	-.563	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	-.563	-.563	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	-1.123	-1.123	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	-.623	-.623	0	% 100
34	M156A	Z	0	0	0	% 100
35	M157A	X	0	0	0	% 100
36	M157A	Z	0	0	0	% 100





Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
 Model Name : 467194-VZW\_MT\_LO\_H

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**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,%]
37	M161A	X	-.374	-.374	0 %100
38	M161A	Z	0	0	0 %100
39	M162A	X	-1.144	-1.144	0 %100
40	M162A	Z	0	0	0 %100
41	M164A	X	-1.205	-1.205	0 %100
42	M164A	Z	0	0	0 %100
43	M166A	X	-.374	-.374	0 %100
44	M166A	Z	0	0	0 %100
45	M167A	X	0	0	0 %100
46	M167A	Z	0	0	0 %100
47	M169A	X	0	0	0 %100
48	M169A	Z	0	0	0 %100
49	M174A	X	-.222	-.222	0 %100
50	M174A	Z	0	0	0 %100
51	M175A	X	-.563	-.563	0 %100
52	M175A	Z	0	0	0 %100
53	M176A	X	-.563	-.563	0 %100
54	M176A	Z	0	0	0 %100
55	M177A	X	-1.123	-1.123	0 %100
56	M177A	Z	0	0	0 %100
57	M180A	X	0	0	0 %100
58	M180A	Z	0	0	0 %100
59	M181A	X	-.623	-.623	0 %100
60	M181A	Z	0	0	0 %100
61	M185A	X	-.374	-.374	0 %100
62	M185A	Z	0	0	0 %100
63	M186A	X	0	0	0 %100
64	M186A	Z	0	0	0 %100
65	M188A	X	0	0	0 %100
66	M188A	Z	0	0	0 %100
67	M190A	X	-.374	-.374	0 %100
68	M190A	Z	0	0	0 %100
69	M191A	X	-1.144	-1.144	0 %100
70	M191A	Z	0	0	0 %100
71	M193A	X	-1.205	-1.205	0 %100
72	M193A	Z	0	0	0 %100
73	M199A	X	0	0	0 %100
74	M199A	Z	0	0	0 %100
75	M199B	X	-.655	-.655	0 %100
76	M199B	Z	0	0	0 %100
77	M200A	X	-.655	-.655	0 %100
78	M200A	Z	0	0	0 %100
79	MP1A	X	-.593	-.593	0 %100
80	MP1A	Z	0	0	0 %100
81	MP2A	X	-.717	-.717	0 %100
82	MP2A	Z	0	0	0 %100
83	MP3A	X	-.593	-.593	0 %100
84	MP3A	Z	0	0	0 %100
85	MP4A	X	-.593	-.593	0 %100
86	MP4A	Z	0	0	0 %100
87	MP5A	X	-.593	-.593	0 %100
88	MP5A	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, %]
89	MP1C	X	-.593	-.593	0	% 100
90	MP1C	Z	0	0	0	% 100
91	MP2C	X	-.717	-.717	0	% 100
92	MP2C	Z	0	0	0	% 100
93	MP3C	X	-.593	-.593	0	% 100
94	MP3C	Z	0	0	0	% 100
95	MP4C	X	-.593	-.593	0	% 100
96	MP4C	Z	0	0	0	% 100
97	MP5C	X	-.593	-.593	0	% 100
98	MP5C	Z	0	0	0	% 100
99	MP1B	X	-.593	-.593	0	% 100
100	MP1B	Z	0	0	0	% 100
101	MP2B	X	-.717	-.717	0	% 100
102	MP2B	Z	0	0	0	% 100
103	MP3B	X	-.593	-.593	0	% 100
104	MP3B	Z	0	0	0	% 100
105	MP4B	X	-.593	-.593	0	% 100
106	MP4B	Z	0	0	0	% 100
107	MP5B	X	-.593	-.593	0	% 100
108	MP5B	Z	0	0	0	% 100
109	M106	X	0	0	0	% 100
110	M106	Z	0	0	0	% 100
111	M111	X	-.538	-.538	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	-.538	-.538	0	% 100
114	M116	Z	0	0	0	% 100
115	M130	X	-.614	-.614	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	-.614	-.614	0	% 100
118	M131	Z	0	0	0	% 100
119	M132	X	0	0	0	% 100
120	M132	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	M4	X	-.576	-.576	0	% 100
2	M4	Z	-.333	-.333	0	% 100
3	M10	X	-.162	-.162	0	% 100
4	M10	Z	-.094	-.094	0	% 100
5	M43	X	-.162	-.162	0	% 100
6	M43	Z	-.094	-.094	0	% 100
7	M46	X	-.324	-.324	0	% 100
8	M46	Z	-.187	-.187	0	% 100
9	M51B	X	-.18	-.18	0	% 100
10	M51B	Z	-.104	-.104	0	% 100
11	M52B	X	-.72	-.72	0	% 100
12	M52B	Z	-.416	-.416	0	% 100
13	M76	X	-.972	-.972	0	% 100
14	M76	Z	-.561	-.561	0	% 100
15	M77	X	-.33	-.33	0	% 100
16	M77	Z	-.191	-.191	0	% 100



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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**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,%]
17	M80	X	-.348	-.348	0 % 100
18	M80	Z	-.201	-.201	0 % 100
19	M84	X	-.972	-.972	0 % 100
20	M84	Z	-.561	-.561	0 % 100
21	M85	X	-1.32	-1.32	0 % 100
22	M85	Z	-.762	-.762	0 % 100
23	M91	X	-1.391	-1.391	0 % 100
24	M91	Z	-.803	-.803	0 % 100
25	M150A	X	-.576	-.576	0 % 100
26	M150A	Z	-.333	-.333	0 % 100
27	M151A	X	-.162	-.162	0 % 100
28	M151A	Z	-.094	-.094	0 % 100
29	M152A	X	-.162	-.162	0 % 100
30	M152A	Z	-.094	-.094	0 % 100
31	M153A	X	-.324	-.324	0 % 100
32	M153A	Z	-.187	-.187	0 % 100
33	M156A	X	-.72	-.72	0 % 100
34	M156A	Z	-.416	-.416	0 % 100
35	M157A	X	-.18	-.18	0 % 100
36	M157A	Z	-.104	-.104	0 % 100
37	M161A	X	-.972	-.972	0 % 100
38	M161A	Z	-.561	-.561	0 % 100
39	M162A	X	-1.32	-1.32	0 % 100
40	M162A	Z	-.762	-.762	0 % 100
41	M164A	X	-1.391	-1.391	0 % 100
42	M164A	Z	-.803	-.803	0 % 100
43	M166A	X	-.972	-.972	0 % 100
44	M166A	Z	-.561	-.561	0 % 100
45	M167A	X	-.33	-.33	0 % 100
46	M167A	Z	-.191	-.191	0 % 100
47	M169A	X	-.348	-.348	0 % 100
48	M169A	Z	-.201	-.201	0 % 100
49	M174A	X	0	0	0 % 100
50	M174A	Z	0	0	0 % 100
51	M175A	X	-.65	-.65	0 % 100
52	M175A	Z	-.375	-.375	0 % 100
53	M176A	X	-.65	-.65	0 % 100
54	M176A	Z	-.375	-.375	0 % 100
55	M177A	X	-1.296	-1.296	0 % 100
56	M177A	Z	-.749	-.749	0 % 100
57	M180A	X	-.18	-.18	0 % 100
58	M180A	Z	-.104	-.104	0 % 100
59	M181A	X	-.18	-.18	0 % 100
60	M181A	Z	-.104	-.104	0 % 100
61	M185A	X	0	0	0 % 100
62	M185A	Z	0	0	0 % 100
63	M186A	X	-.33	-.33	0 % 100
64	M186A	Z	-.191	-.191	0 % 100
65	M188A	X	-.348	-.348	0 % 100
66	M188A	Z	-.201	-.201	0 % 100
67	M190A	X	0	0	0 % 100
68	M190A	Z	0	0	0 % 100



Company : Maser Consulting  
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**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,%]
69	M191A	X	-.33	-.33	0 % 100
70	M191A	Z	-.191	-.191	0 % 100
71	M193A	X	-.348	-.348	0 % 100
72	M193A	Z	-.201	-.201	0 % 100
73	M199A	X	-.189	-.189	0 % 100
74	M199A	Z	-.109	-.109	0 % 100
75	M199B	X	-.189	-.189	0 % 100
76	M199B	Z	-.109	-.109	0 % 100
77	M200A	X	-.756	-.756	0 % 100
78	M200A	Z	-.437	-.437	0 % 100
79	MP1A	X	-.513	-.513	0 % 100
80	MP1A	Z	-.296	-.296	0 % 100
81	MP2A	X	-.621	-.621	0 % 100
82	MP2A	Z	-.359	-.359	0 % 100
83	MP3A	X	-.513	-.513	0 % 100
84	MP3A	Z	-.296	-.296	0 % 100
85	MP4A	X	-.513	-.513	0 % 100
86	MP4A	Z	-.296	-.296	0 % 100
87	MP5A	X	-.513	-.513	0 % 100
88	MP5A	Z	-.296	-.296	0 % 100
89	MP1C	X	-.513	-.513	0 % 100
90	MP1C	Z	-.296	-.296	0 % 100
91	MP2C	X	-.621	-.621	0 % 100
92	MP2C	Z	-.359	-.359	0 % 100
93	MP3C	X	-.513	-.513	0 % 100
94	MP3C	Z	-.296	-.296	0 % 100
95	MP4C	X	-.513	-.513	0 % 100
96	MP4C	Z	-.296	-.296	0 % 100
97	MP5C	X	-.513	-.513	0 % 100
98	MP5C	Z	-.296	-.296	0 % 100
99	MP1B	X	-.513	-.513	0 % 100
100	MP1B	Z	-.296	-.296	0 % 100
101	MP2B	X	-.621	-.621	0 % 100
102	MP2B	Z	-.359	-.359	0 % 100
103	MP3B	X	-.513	-.513	0 % 100
104	MP3B	Z	-.296	-.296	0 % 100
105	MP4B	X	-.513	-.513	0 % 100
106	MP4B	Z	-.296	-.296	0 % 100
107	MP5B	X	-.513	-.513	0 % 100
108	MP5B	Z	-.296	-.296	0 % 100
109	M106	X	-.155	-.155	0 % 100
110	M106	Z	-.09	-.09	0 % 100
111	M111	X	-.155	-.155	0 % 100
112	M111	Z	-.09	-.09	0 % 100
113	M116	X	-.621	-.621	0 % 100
114	M116	Z	-.359	-.359	0 % 100
115	M130	X	-.177	-.177	0 % 100
116	M130	Z	-.102	-.102	0 % 100
117	M131	X	-.709	-.709	0 % 100
118	M131	Z	-.41	-.41	0 % 100
119	M132	X	-.177	-.177	0 % 100
120	M132	Z	-.102	-.102	0 % 100



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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**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	M4	X	-.111	-.111	0	% 100
2	M4	Z	-.192	-.192	0	% 100
3	M10	X	-.281	-.281	0	% 100
4	M10	Z	-.487	-.487	0	% 100
5	M43	X	-.281	-.281	0	% 100
6	M43	Z	-.487	-.487	0	% 100
7	M46	X	-.561	-.561	0	% 100
8	M46	Z	-.972	-.972	0	% 100
9	M51B	X	0	0	0	% 100
10	M51B	Z	0	0	0	% 100
11	M52B	X	-.312	-.312	0	% 100
12	M52B	Z	-.54	-.54	0	% 100
13	M76	X	-.187	-.187	0	% 100
14	M76	Z	-.324	-.324	0	% 100
15	M77	X	0	0	0	% 100
16	M77	Z	0	0	0	% 100
17	M80	X	0	0	0	% 100
18	M80	Z	0	0	0	% 100
19	M84	X	-.187	-.187	0	% 100
20	M84	Z	-.324	-.324	0	% 100
21	M85	X	-.572	-.572	0	% 100
22	M85	Z	-.99	-.99	0	% 100
23	M91	X	-.602	-.602	0	% 100
24	M91	Z	-1.043	-1.043	0	% 100
25	M150A	X	-.443	-.443	0	% 100
26	M150A	Z	-.768	-.768	0	% 100
27	M151A	X	0	0	0	% 100
28	M151A	Z	0	0	0	% 100
29	M152A	X	0	0	0	% 100
30	M152A	Z	0	0	0	% 100
31	M153A	X	0	0	0	% 100
32	M153A	Z	0	0	0	% 100
33	M156A	X	-.312	-.312	0	% 100
34	M156A	Z	-.54	-.54	0	% 100
35	M157A	X	-.312	-.312	0	% 100
36	M157A	Z	-.54	-.54	0	% 100
37	M161A	X	-.749	-.749	0	% 100
38	M161A	Z	-1.296	-1.296	0	% 100
39	M162A	X	-.572	-.572	0	% 100
40	M162A	Z	-.99	-.99	0	% 100
41	M164A	X	-.602	-.602	0	% 100
42	M164A	Z	-1.043	-1.043	0	% 100
43	M166A	X	-.749	-.749	0	% 100
44	M166A	Z	-1.296	-1.296	0	% 100
45	M167A	X	-.572	-.572	0	% 100
46	M167A	Z	-.99	-.99	0	% 100
47	M169A	X	-.602	-.602	0	% 100
48	M169A	Z	-1.043	-1.043	0	% 100
49	M174A	X	-.111	-.111	0	% 100
50	M174A	Z	-.192	-.192	0	% 100
51	M175A	X	-.281	-.281	0	% 100
52	M175A	Z	-.487	-.487	0	% 100



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
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**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,%]
53	M176A	X	-.281	-.281	0 %100
54	M176A	Z	-.487	-.487	0 %100
55	M177A	X	-.561	-.561	0 %100
56	M177A	Z	-.972	-.972	0 %100
57	M180A	X	-.312	-.312	0 %100
58	M180A	Z	-.54	-.54	0 %100
59	M181A	X	0	0	0 %100
60	M181A	Z	0	0	0 %100
61	M185A	X	-.187	-.187	0 %100
62	M185A	Z	-.324	-.324	0 %100
63	M186A	X	-.572	-.572	0 %100
64	M186A	Z	-.99	-.99	0 %100
65	M188A	X	-.602	-.602	0 %100
66	M188A	Z	-1.043	-1.043	0 %100
67	M190A	X	-.187	-.187	0 %100
68	M190A	Z	-.324	-.324	0 %100
69	M191A	X	0	0	0 %100
70	M191A	Z	0	0	0 %100
71	M193A	X	0	0	0 %100
72	M193A	Z	0	0	0 %100
73	M199A	X	-.327	-.327	0 %100
74	M199A	Z	-.567	-.567	0 %100
75	M199B	X	0	0	0 %100
76	M199B	Z	0	0	0 %100
77	M200A	X	-.327	-.327	0 %100
78	M200A	Z	-.567	-.567	0 %100
79	MP1A	X	-.296	-.296	0 %100
80	MP1A	Z	-.513	-.513	0 %100
81	MP2A	X	-.359	-.359	0 %100
82	MP2A	Z	-.621	-.621	0 %100
83	MP3A	X	-.296	-.296	0 %100
84	MP3A	Z	-.513	-.513	0 %100
85	MP4A	X	-.296	-.296	0 %100
86	MP4A	Z	-.513	-.513	0 %100
87	MP5A	X	-.296	-.296	0 %100
88	MP5A	Z	-.513	-.513	0 %100
89	MP1C	X	-.296	-.296	0 %100
90	MP1C	Z	-.513	-.513	0 %100
91	MP2C	X	-.359	-.359	0 %100
92	MP2C	Z	-.621	-.621	0 %100
93	MP3C	X	-.296	-.296	0 %100
94	MP3C	Z	-.513	-.513	0 %100
95	MP4C	X	-.296	-.296	0 %100
96	MP4C	Z	-.513	-.513	0 %100
97	MP5C	X	-.296	-.296	0 %100
98	MP5C	Z	-.513	-.513	0 %100
99	MP1B	X	-.296	-.296	0 %100
100	MP1B	Z	-.513	-.513	0 %100
101	MP2B	X	-.359	-.359	0 %100
102	MP2B	Z	-.621	-.621	0 %100
103	MP3B	X	-.296	-.296	0 %100
104	MP3B	Z	-.513	-.513	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, %]
105	MP4B	X	-.296	-.296	0	% 100
106	MP4B	Z	-.513	-.513	0	% 100
107	MP5B	X	-.296	-.296	0	% 100
108	MP5B	Z	-.513	-.513	0	% 100
109	M106	X	-.269	-.269	0	% 100
110	M106	Z	-.466	-.466	0	% 100
111	M111	X	0	0	0	% 100
112	M111	Z	0	0	0	% 100
113	M116	X	-.269	-.269	0	% 100
114	M116	Z	-.466	-.466	0	% 100
115	M130	X	0	0	0	% 100
116	M130	Z	0	0	0	% 100
117	M131	X	-.307	-.307	0	% 100
118	M131	Z	-.532	-.532	0	% 100
119	M132	X	-.307	-.307	0	% 100
120	M132	Z	-.532	-.532	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	M156A	Y	-1.884	-4.426	0	.832
2	M156A	Y	-4.426	-7.044	.832	1.665
3	M156A	Y	-7.044	-8.26	1.665	2.497
4	M156A	Y	-8.26	-6.573	2.497	3.329
5	M156A	Y	-6.573	-3.462	3.329	4.162
6	M157A	Y	-3.463	-6.545	0	.832
7	M157A	Y	-6.545	-8.189	.832	1.665
8	M157A	Y	-8.189	-6.902	1.665	2.497
9	M157A	Y	-6.902	-4.228	2.497	3.329
10	M157A	Y	-4.228	-1.661	3.329	4.162
11	M51B	Y	-1.879	-4.428	0	.832
12	M51B	Y	-4.428	-7.042	.832	1.665
13	M51B	Y	-7.042	-8.256	1.665	2.497
14	M51B	Y	-8.256	-6.578	2.497	3.329
15	M51B	Y	-6.578	-3.47	3.329	4.162
16	M52B	Y	-3.463	-6.545	0	.832
17	M52B	Y	-6.545	-8.189	.832	1.665
18	M52B	Y	-8.189	-6.9	1.665	2.497
19	M52B	Y	-6.9	-4.227	2.497	3.329
20	M52B	Y	-4.227	-1.665	3.329	4.162
21	M180A	Y	-1.664	-4.227	0	.832
22	M180A	Y	-4.227	-6.899	.832	1.665
23	M180A	Y	-6.899	-8.187	1.665	2.497
24	M180A	Y	-8.187	-6.544	2.497	3.329
25	M180A	Y	-6.544	-3.463	3.329	4.162
26	M181A	Y	-3.462	-6.572	0	.832
27	M181A	Y	-6.572	-8.261	.832	1.665
28	M181A	Y	-8.261	-7.048	1.665	2.497
29	M181A	Y	-7.048	-4.428	2.497	3.329
30	M181A	Y	-4.428	-1.883	3.329	4.162



**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	M156A	Y	-3.617	-8.496	0	.832
2	M156A	Y	-8.496	-13.522	.832	1.665
3	M156A	Y	-13.522	-15.857	1.665	2.497
4	M156A	Y	-15.857	-12.618	2.497	3.329
5	M156A	Y	-12.618	-6.645	3.329	4.162
6	M157A	Y	-6.648	-12.563	0	.832
7	M157A	Y	-12.563	-15.719	.832	1.665
8	M157A	Y	-15.719	-13.249	1.665	2.497
9	M157A	Y	-13.249	-8.117	2.497	3.329
10	M157A	Y	-8.117	-3.189	3.329	4.162
11	M51B	Y	-3.608	-8.5	0	.832
12	M51B	Y	-8.5	-13.517	.832	1.665
13	M51B	Y	-13.517	-15.849	1.665	2.497
14	M51B	Y	-15.849	-12.627	2.497	3.329
15	M51B	Y	-12.627	-6.661	3.329	4.162
16	M52B	Y	-6.647	-12.563	0	.832
17	M52B	Y	-12.563	-15.719	.832	1.665
18	M52B	Y	-15.719	-13.245	1.665	2.497
19	M52B	Y	-13.245	-8.114	2.497	3.329
20	M52B	Y	-8.114	-3.197	3.329	4.162
21	M180A	Y	-3.193	-8.115	0	.832
22	M180A	Y	-8.115	-13.244	.832	1.665
23	M180A	Y	-13.244	-15.717	1.665	2.497
24	M180A	Y	-15.717	-12.563	2.497	3.329
25	M180A	Y	-12.563	-6.648	3.329	4.162
26	M181A	Y	-6.647	-12.616	0	.832
27	M181A	Y	-12.616	-15.858	.832	1.665
28	M181A	Y	-15.858	-13.529	1.665	2.497
29	M181A	Y	-13.529	-8.499	2.497	3.329
30	M181A	Y	-8.499	-3.614	3.329	4.162

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N250A	N252A	N228A	N227A	Y	Two Way	-.005
2	N7	N87B	N87C	N6	Y	Two Way	-.005
3	N257A	N281A	N279A	N256A	Y	Two Way	-.005

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N250A	N252A	N228A	N227A	Y	Two Way	-.01
2	N7	N87B	N87C	N6	Y	Two Way	-.01
3	N257A	N281A	N279A	N256A	Y	Two Way	-.01

**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	N3	max	1026.403	10	2653.006	13	3124.912	1	5.662	13	2.003	4	.295	18
2		min	-1015.675	4	384.036	7	-3294.419	7	-.063	7	-1.979	10	-.038	12
3	N225A	max	2778.524	9	2652.426	21	1511.329	3	.24	3	2.003	12	-.066	3



**Envelope Joint Reactions (Continued)**

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
4		min	-2931.507	3	383.863	3	-1437.311	9	-2.631	21	-1.979	6	-5.018	21
5	N254A	max	2774.644	11	2652.744	17	1900.301	12	-.176	11	2.003	8	4.788	17
6		min	-2634.046	5	383.931	11	-1799.204	6	-3.03	17	-1.979	2	-.175	11
7	Totals:	max	6207.264	10	7468.799	14	6207.21	1						
8		min	-6207.268	4	3328.629	8	-6207.214	7						

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

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn	
1	M4	HSS4X4X4	.358	0	15	.087	0	y	14	124657.7...	139518	16.181	16.181	3...	H1-1b
2	M10	HSS4X4X4	.183	2.375	14	.063	.223	z	2	136263.03	139518	16.181	16.181	1...	H1-1b
3	M43	HSS4X4X4	.186	0	24	.053	0	y	13	136263.03	139518	16.181	16.181	1...	H1-1b
4	M46	PL1/2X6	.288	.516	12	.176	.516	y	10	66009.234	97200	1.012	12.15	1...	H1-1b
5	M51B	L2x2x3	.218	4.162	2	.011	4.162	y	17	9823.122	23392.8	.558	1.087	1...	H2-1
6	M52B	L2x2x3	.187	4.162	12	.013	4.162	y	21	9823.122	23392.8	.558	1.088	1.2	H2-1
7	M76	PL3/8x6	.274	0	2	.173	0	y	18	70677.939	72900	.57	9.113	1...	H1-1b
8	M77	PL3/8x6	.386	.167	8	.380	0	y	14	71601.728	72900	.57	9.113	1...	H1-1b
9	M80	PL1/2X6	.069	0	8	.109	0	y	11	96757.507	97200	1.012	12.15	1...	H1-1b
10	M84	PL3/8x6	.404	0	12	.277	0	y	17	70677.939	72900	.57	9.113	1...	H1-1b
11	M85	PL3/8x6	.340	.167	6	.370	0	y	13	71601.728	72900	.57	9.113	1...	H1-1b
12	M91	PL1/2X6	.081	0	12	.091	.112	y	10	96757.507	97200	1.012	12.15	1...	H1-1b
13	M150A	HSS4X4X4	.357	0	23	.087	0	y	22	124657.7...	139518	16.181	16.181	3...	H1-1b
14	M151A	HSS4X4X4	.183	2.375	22	.063	.223	z	10	136263.03	139518	16.181	16.181	1...	H1-1b
15	M152A	HSS4X4X4	.186	0	20	.053	0	y	21	136263.03	139518	16.181	16.181	1...	H1-1b
16	M153A	PL1/2X6	.288	.516	8	.176	.516	y	6	66009.234	97200	1.012	12.15	1...	H1-1b
17	M156A	L2x2x3	.218	4.162	10	.011	4.162	y	13	9823.122	23392.8	.558	1.087	1...	H2-1
18	M157A	L2x2x3	.187	4.162	8	.013	4.162	y	17	9823.122	23392.8	.558	1.088	1.2	H2-1
19	M161A	PL3/8x6	.274	0	10	.173	0	y	14	70677.939	72900	.57	9.113	1...	H1-1b
20	M162A	PL3/8x6	.386	.167	4	.380	0	y	22	71601.728	72900	.57	9.113	1...	H1-1b
21	M164A	PL1/2X6	.069	0	4	.109	0	y	7	96757.507	97200	1.012	12.15	1...	H1-1b
22	M166A	PL3/8x6	.404	0	8	.276	0	y	13	70677.939	72900	.57	9.113	1...	H1-1b
23	M167A	PL3/8x6	.340	.167	2	.370	0	y	21	71601.728	72900	.57	9.113	1...	H1-1b
24	M169A	PL1/2X6	.081	0	8	.091	.112	y	6	96757.507	97200	1.012	12.15	1...	H1-1b
25	M174A	HSS4X4X4	.358	0	19	.094	0	y	30	124657.7...	139518	16.181	16.181	3...	H1-1b
26	M175A	HSS4X4X4	.183	2.375	18	.063	.223	z	6	136263.03	139518	16.181	16.181	1...	H1-1b
27	M176A	HSS4X4X4	.186	0	16	.053	0	y	17	136263.03	139518	16.181	16.181	1...	H1-1b
28	M177A	PL1/2X6	.288	.516	4	.176	.516	y	2	66009.234	97200	1.012	12.15	1...	H1-1b
29	M180A	L2x2x3	.218	4.162	6	.011	4.162	y	21	9823.122	23392.8	.558	1.088	1.2	H2-1
30	M181A	L2x2x3	.187	4.162	4	.013	4.162	y	13	9823.122	23392.8	.558	1.087	1...	H2-1
31	M185A	PL3/8x6	.274	0	6	.173	0	y	22	70677.939	72900	.57	9.113	1...	H1-1b
32	M186A	PL3/8x6	.386	.167	12	.380	0	y	18	71601.728	72900	.57	9.113	1...	H1-1b
33	M188A	PL1/2X6	.069	0	12	.125	0	y	27	96757.507	97200	1.012	12.15	1...	H1-1b
34	M190A	PL3/8x6	.404	0	4	.276	0	y	21	70677.939	72900	.57	9.113	1...	H1-1b
35	M191A	PL3/8x6	.340	.167	10	.370	0	y	17	71601.728	72900	.57	9.113	1...	H1-1b
36	M193A	PL1/2X6	.081	0	4	.091	.112	y	2	96757.507	97200	1.012	12.15	1...	H1-1b
37	M199A	PIPE 3.0	.188	8.724	20	.063	1.309		7	22948.541	65205	5.749	5.749	2...	H1-1b
38	M199B	PIPE 3.0	.187	8.724	16	.063	1.309		3	22948.541	65205	5.749	5.749	2...	H1-1b
39	M200A	PIPE 3.0	.188	8.724	24	.063	1.309		11	22948.541	65205	5.749	5.749	2...	H1-1b
40	MP1A	PIPE 2.0	.227	3.75	9	.076	3.75		10	14916.096	32130	1.872	1.872	2...	H1-1b
41	MP2A	PIPE 2.5	.300	3.833	9	.086	3.833		7	30038.461	50715	3.596	3.596	3...	H1-1b
42	MP3A	PIPE 2.0	.351	4.313	10	.059	1.688		10	12143.947	32130	1.872	1.872	3...	H1-1b



Company : Maser Consulting  
 Designer : AJH  
 Job Number : Project No. 10037788  
 Model Name : 467194-VZW\_MT\_LO\_H

May 10, 2021  
 4:30 PM  
 Checked By: \_\_\_\_\_

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

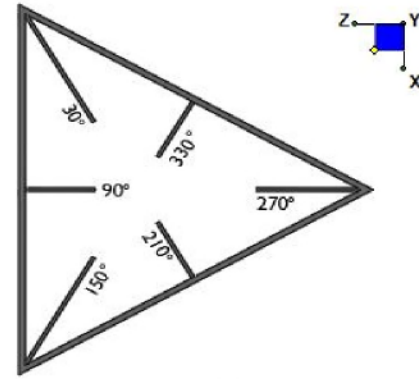
Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
43	MP4A	PIPE 2.0	.340	3.833	5	.090	3.833	6	14916.096	32130	1.872	1.872	3...	H1-1b
44	MP5A	PIPE 2.0	.227	4	17	.074	4	4	14916.096	32130	1.872	1.872	1...	H1-1b
45	MP1C	PIPE 2.0	.221	3.75	5	.076	3.75	6	14916.096	32130	1.872	1.872	2...	H1-1b
46	MP2C	PIPE 2.5	.300	3.833	5	.086	3.833	3	30038.461	50715	3.596	3.596	3...	H1-1b
47	MP3C	PIPE 2.0	.351	4.313	6	.059	1.688	6	12143.947	32130	1.872	1.872	2...	H1-1b
48	MP4C	PIPE 2.0	.340	3.833	1	.090	3.833	2	14916.096	32130	1.872	1.872	3...	H1-1b
49	MP5C	PIPE 2.0	.227	4	13	.074	4	12	14916.096	32130	1.872	1.872	1...	H1-1b
50	MP1B	PIPE 2.0	.219	3.75	1	.076	3.75	2	14916.096	32130	1.872	1.872	3...	H1-1b
51	MP2B	PIPE 2.5	.300	3.833	1	.086	3.833	11	30038.461	50715	3.596	3.596	3...	H1-1b
52	MP3B	PIPE 2.0	.351	4.313	2	.059	1.688	2	12143.947	32130	1.872	1.872	3...	H1-1b
53	MP4B	PIPE 2.0	.340	3.833	9	.090	3.833	10	14916.096	32130	1.872	1.872	3...	H1-1b
54	MP5B	PIPE 2.0	.227	4	21	.074	4	8	14916.096	32130	1.872	1.872	1...	H1-1b
55	M106	PIPE 2.5	.156	3.49	10	.067	1.745	7	11675.574	50715	3.596	3.596	1...	H1-1b
56	M111	PIPE 2.5	.156	3.49	6	.067	1.745	3	11675.574	50715	3.596	3.596	1...	H1-1b
57	M116	PIPE 2.5	.156	3.49	2	.067	1.745	11	11675.574	50715	3.596	3.596	1...	H1-1b
58	M130	L3X3X4	.232	0	11	.066	0	y 6	45037.187	46656	1.688	3.756	2...	H2-1
59	M131	L3X3X4	.232	0	7	.066	0	y 2	45037.187	46656	1.688	3.756	2...	H2-1
60	M132	L3X3X4	.232	0	3	.066	0	y 10	45037.187	46656	1.688	3.756	2...	H2-1



## I. Mount-to-Tower Connection Check

### RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N225A	30
N3	270
N254A	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):

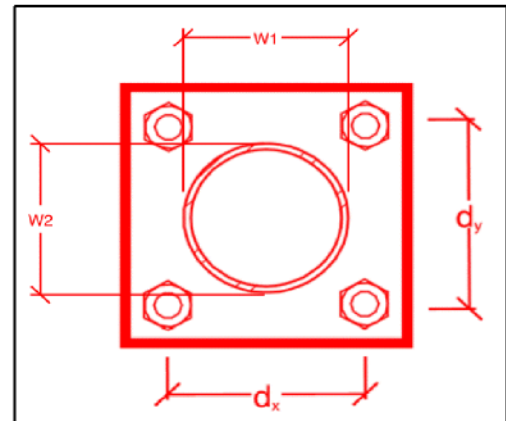
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
8
8
A325N
0.625
17.5
3.7
20.7
12.4
<b>21.2%*</b>
<b>7.4%</b>



\*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):

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

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
10
10
4
4
36
0.75
4
5.57
3.23
<b>38.8%</b>
<b>58.0%</b>

### Max Plate Bending Strengths

$Mu_{xx}$ (kip-in):	17.5
$\Phi * Mn_{xx}$ (kip-in):	45.6
$Mu_{yy}$ (kip-in):	0.1
$\Phi * Mn_{yy}$ (kip-in):	45.6



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

## Documents & Photos Required from Contractor – Mount Modification

---

**Purpose** – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the 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:**

- 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) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

### **Photo Requirements:**

- Base and “During Installation Photos”
  - Base pictures include
    - Photo of Gate Signs showing the tower owner, site name, and number
    - Photo of carrier shelter showing the carrier site name and number if available
    - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
  - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
  - Overall tower structure before and after installation of the modifications
  - Photos of the appropriate mount before and 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 each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
  - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
- Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
- Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
- Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (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, a tape drop measurement shall be provided before the elevation change
- 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.

**Material Certification:**

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
  - If the drawings are as specified on the drawings
    - The contractor should provide the packing list or the materials utilized to perform the mount modification
  - If an equivalent is utilized
    - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company \_\_\_\_\_

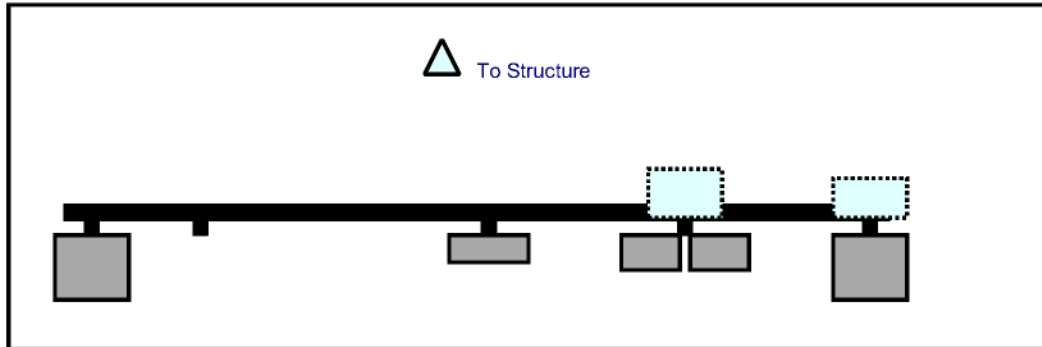
Name \_\_\_\_\_



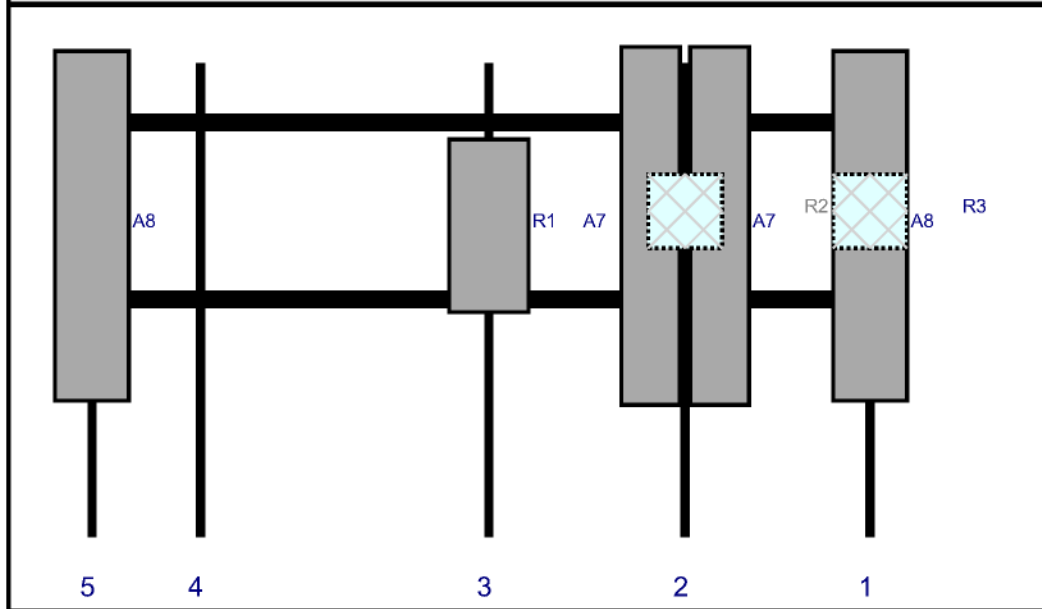
## Schedule A – Photo & Document File Structure

- 📁 VzW Site Number / Name
  - 📁 Base & “During Installation” Photos
  - 📁 Pre-Installation Photos
    - 📁 Alpha
    - 📁 Beta
    - 📁 Gamma
    - 📁 Ground Level
    - 📁 Tape Drop
  - 📁 Post-Installation Photos
    - 📁 Alpha
    - 📁 Beta
    - 📁 Gamma
    - 📁 Ground Level
    - 📁 Tape Drop
    - 📁 Photos of climbing facility and safety climb – If Present
- 📁 Certifications – Submission of this document including certifications
- 📁 Specific Required Additional Photos

Plan View

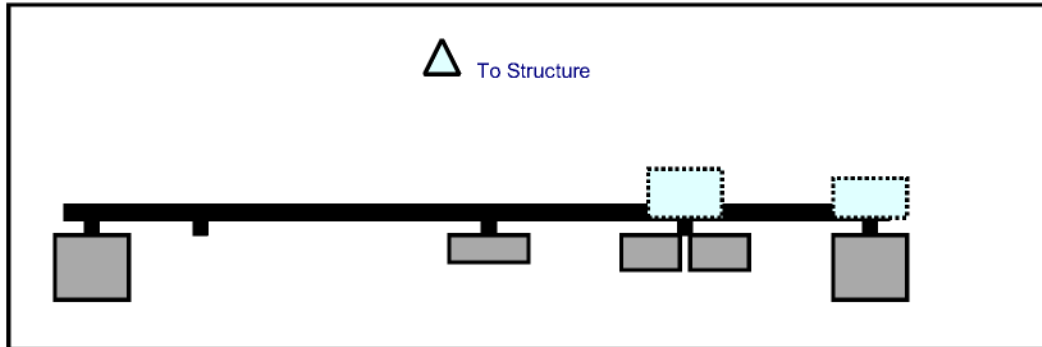


Front View  
Looking at Structure

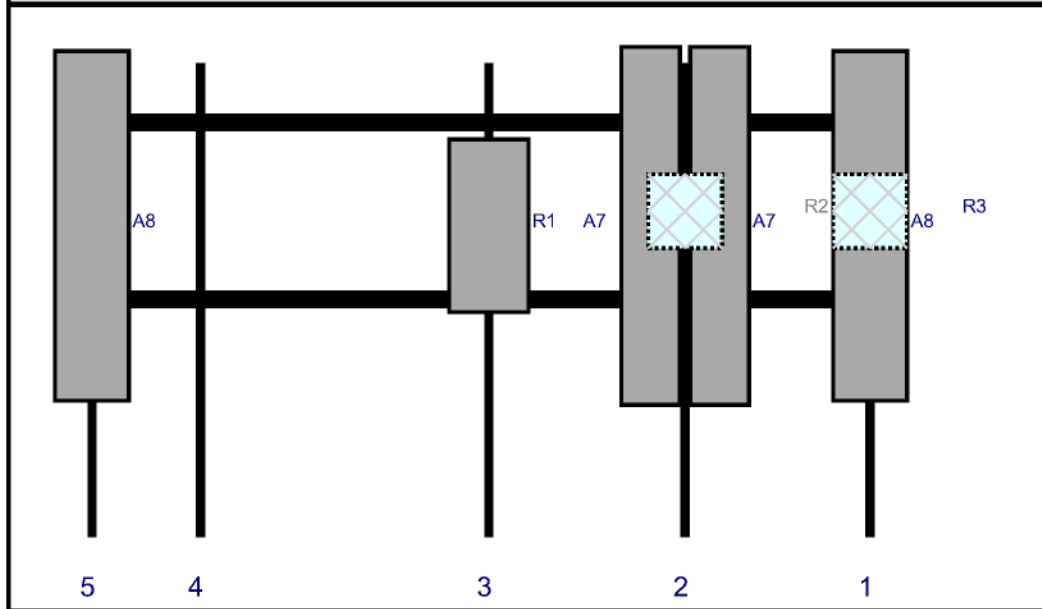


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R1	MT6407-77A	35.1	16.1	86.25	3	a	Front	33	0	Added	
A8	LPA-80063/6CF	70.9	15	5.75	5	a	Front	33	0	Retained	03/22/2021
A8	LPA-80063/6CF	70.9	15	163.5	1	a	Front	33	0	Retained	03/22/2021
R3	B5/B13 RRH-BR04C	15	15	163.5	1	a	Behind	30	0	Added	
A7	SBNHH-1D65B	72.6	11.9	126	2	a	Front	33	-7	Retained	03/22/2021
A7	SBNHH-1D65B	72.6	11.9	126	2	b	Front	33	7	Retained	03/22/2021
R2	B2/B66A RRH-BR049	15	15	126	2	a	Behind	30	0	Added	

Plan View

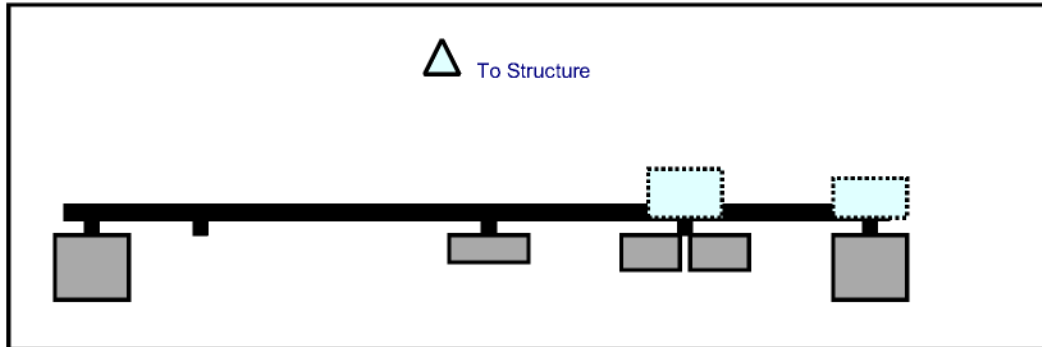


Front View  
Looking at Structure

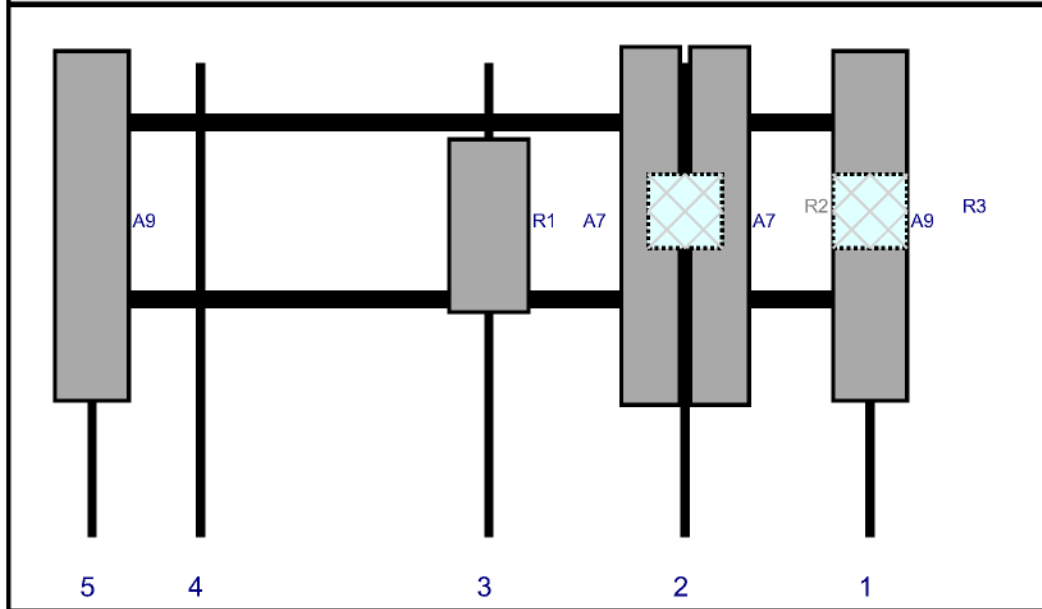


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A8	LPA-80063/6CF	70.9	15	163.5	1	a	Front	33	0	Retained	03/22/2021
R3	B5/B13 RRH-BR04C	15	15	163.5	1	a	Behind	30	0	Added	
A7	SBNHH-1D65B	72.6	11.9	126	2	a	Front	33	-7	Retained	03/22/2021
A7	SBNHH-1D65B	72.6	11.9	126	2	b	Front	33	7	Retained	03/22/2021
R2	B2/B66A RRH-BR049	15	15	126	2	a	Behind	30	0	Added	
R1	MT6407-77A	35.1	16.1	86.25	3	a	Front	33	0	Added	
A8	LPA-80063/6CF	70.9	15	5.75	5	a	Front	33	0	Retained	03/22/2021

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
A9	LPA-80063/6CF 5	70.9	15	163.5	1	a	Front	33	0	Retained	03/22/2021
R3	B5/B13 RRH-BR04C	15	15	163.5	1	a	Behind	30	0	Added	
A7	SBNHH-1D65B	72.6	11.9	126	2	a	Front	33	-7	Retained	03/22/2021
A7	SBNHH-1D65B	72.6	11.9	126	2	b	Front	33	7	Retained	03/22/2021
R2	B2/B66A RRH-BR049	15	15	126	2	a	Behind	30	0	Added	
R1	MT6407-77A	35.1	16.1	86.25	3	a	Front	33	0	Added	
A9	LPA-80063/6CF 5	70.9	15	5.75	5	a	Front	33	0	Retained	03/22/2021



# Maser Consulting Connecticut

**Subject**

TIA-222-H Usage

**Site Information**

Site ID:	467194-VZW / TORRINGTON E CT
Site Name:	TORRINGTON E CT
Carrier Name:	Verizon Wireless
Address:	1931 East Main Street Torrington, Connecticut 06790 Litchfield County
Latitude:	41.823275°
Longitude:	-73.076658°

**Structure Information**

Tower Type:	153-Ft Monopole
Mount Type:	13.96-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,

Taqi Khawaja, PE  
Technical Manager

## PROJECT NOTES

- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, AND REQUIREMENTS OF 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 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 ARCHITECT IMMEDIATELY IN WRITING 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 EXPOSURE 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).



## MOUNT MODIFICATION DRAWINGS EXISTING 13.96' PLATFORM

**SITE NAME: TORRINGTON E CT  
SITE NUMBER: 467194**

**1931 EAST MAIN STREET  
TORRINGTON, CT 06790  
LITCHFIELD COUNTY**

**MASER CONSULTING CONNECTICUT**  
Customer Loyalty through Client Satisfaction  
www.maser.com  
11000 Old Saybrook Road, Suite 100  
Old Saybrook, CT 06475

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- VERMONT
- NEW HAMPSHIRE
- NEW ENGLAND



**811**  
Call before you dig  
PROJECT # 2021106-1931EAST  
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DATE	AS SHOWN	BY	DATE
			2/17/2024

Digitally signed by Tapani Kivakava-Ghulian  
DN: cn=Tapani Kivakava-Ghulian, o=Maser Consulting Connecticut, ou=Maser Consulting Connecticut, email=t.kivakava@maserconsulting.com, c=US

Date: 2021106-1931EAST-47-0400  
PROJECT # 2021106-1931EAST  
FOR MORE INFORMATION VISIT  
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**SITE NAME:**  
TORRINGTON E CT  
467194  
1931 EAST MAIN STREET  
TORRINGTON, CT 06790  
LITCHFIELD COUNTY

**MASER CONSULTING CONNECTICUT**  
11000 Old Saybrook Road, Suite 100  
Old Saybrook, CT 06475  
Tel: 860.732.1700

TITLE SHEET  
PROJECT # 2021106-1931EAST

SHEET INDEX	
SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	PLATFORM PHOTOS
	SPECIFICATION SHEETS

PROJECT INFORMATION	
<b>SITE INFORMATION</b>	
LATITUDE	41.892937° N
LONGITUDE	73.066688° W
JURISDICTION	LITCHFIELD COUNTY
<b>APPLICANT/LESSEE</b>	VERIZON WIRELESS
<b>COMPANY:</b>	VERIZON WIRELESS
<b>CLIENT REPRESENTATIVE</b>	VERIZON WIRELESS, THIRD FLOOR WESTBROOK ROAD, SUITE 100 WESTBROOK, MA 01581
<b>CONTACT:</b>	ANDREW CANDIELLO
<b>EMAIL:</b>	ANDREW.CANDIELLO@VERIZONWIRELESS.COM
<b>PROJECT MANAGER:</b>	MASER CONSULTING CONNECTICUT
<b>CONTACT:</b>	PETER ALBANO
<b>PHONE:</b>	(860) 732-1700
<b>E-MAIL:</b>	PETER.ALBANO@COLLIERSENGINEERING.COM

REFERENCED DOCUMENTS	
FAIRING MOUNT ANALYSIS REPORT	0007288
SMART TOOL PROJECT #	0007288
MASER CONSULTING CT PROJECT #	2177788A
ANALYSIS DATE:	4/11/2021

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZV9641.COM
SMART TOOL PROJECT #:	1006587
VZM LOCATION CODE (P&C):	467194
FUZE ID:	1627595

PMI REQUIREMENTS EMBEDDED WITHIN PLATFORM MODIFICATION REPORT

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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.







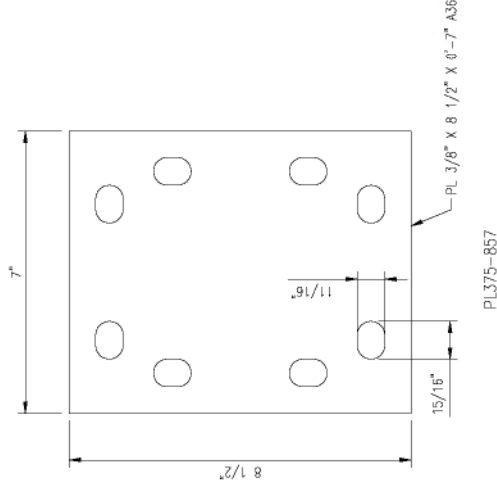
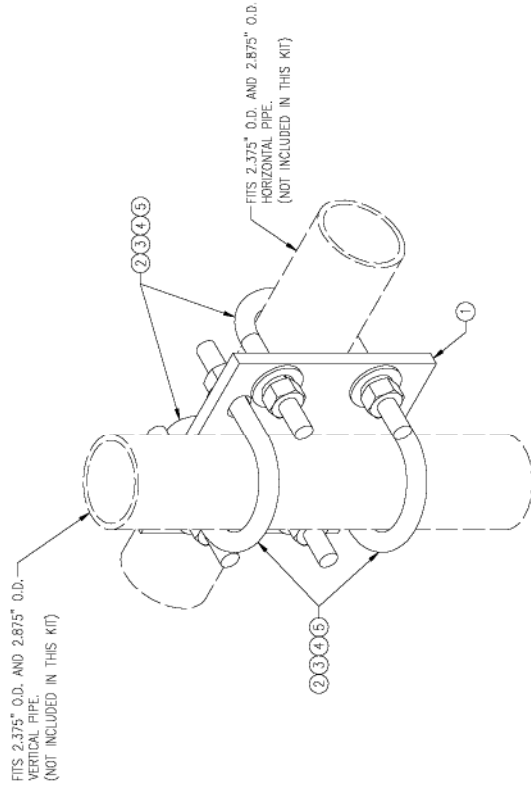










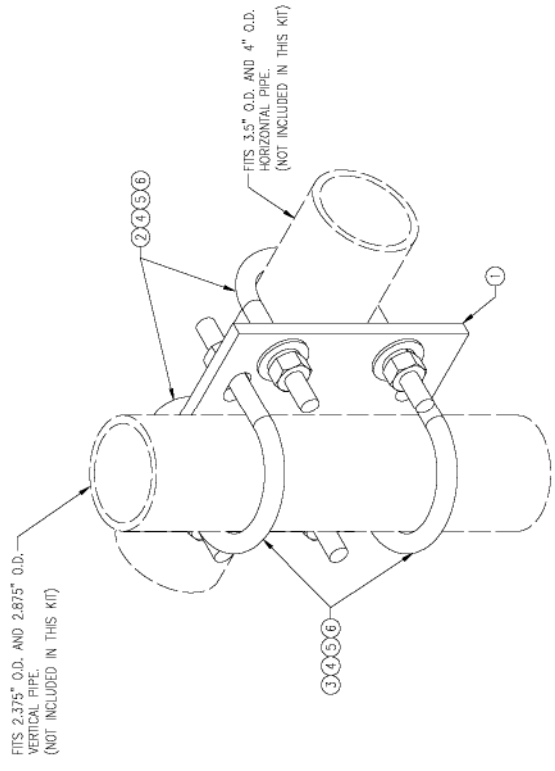
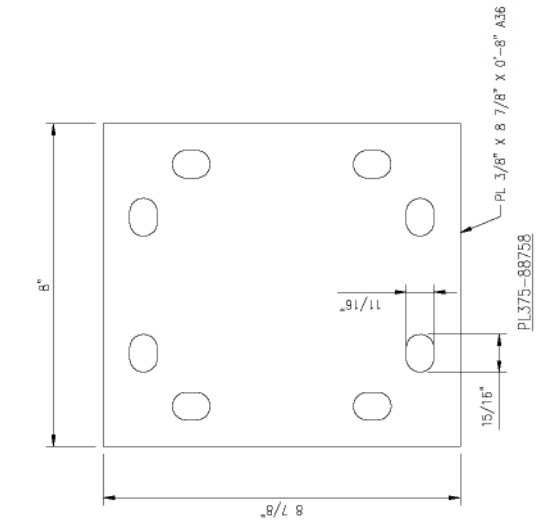


VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" LM. X 5" LL. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625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

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

DRAWN BY: H.R.	CHECKED BY: HMA
REV. DESCRIPTION	BY DATE
1 FIRST ISSUE	H.R. 05/08/20
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△	
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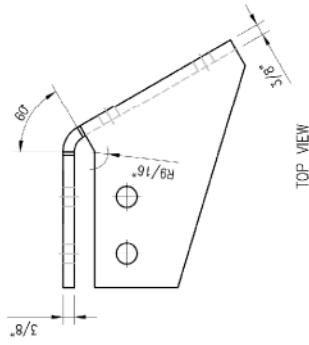
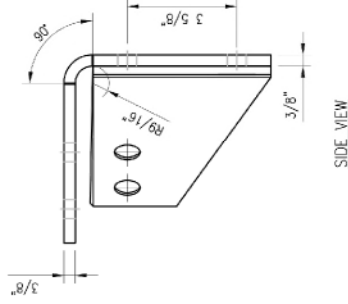
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SHEET NUMBER:	REV #
VZWSMART-MSK1	0



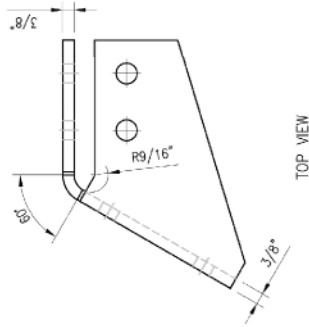
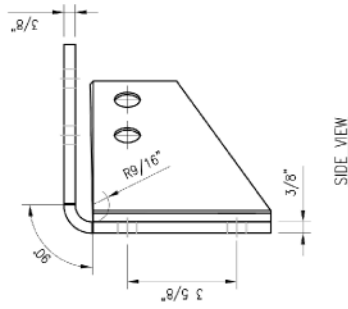
VZWSMART-MSK2 (CROSSOVER PLATE)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-88758	PL 3/8" X 8 3/4" X 0'-8" A36	MSK2-F1	8
2	2	MS02-625-4125-600	RU-BOLT 5/8" X 4 1/8" LW. X 6" LL. A36 (OR EQUIV.)	RBC-1	3
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" LW. X 5" LL. A36 (OR EQUIV.)	RBC-1	3
4	8	FW-625	5/8" HDG USS FLAT WASHER	----	1
5	8	LW-625	5/8" HDG LOCK WASHER	----	0
6	8	NUT-625	5/8" HDG HEX NUT	----	1
GALVANIZED WT					15

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



CBP-R



CBP-L

DATE: 01/18	DESIGNED BY: HMA
REV: 000000	BY: DATE
△ FIRST ISSUE	H.R. 05/08/20

△	
△	
△	
△	
△	

SHEET TITLE:  
VZWSMART-PLK3  
SUPPORT RAIL CORNER  
BRACKET

SHEET NUMBER:	REV #:
VZWSMART-PLK3	0

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

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" L.W. X 5" LL A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A305	---	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

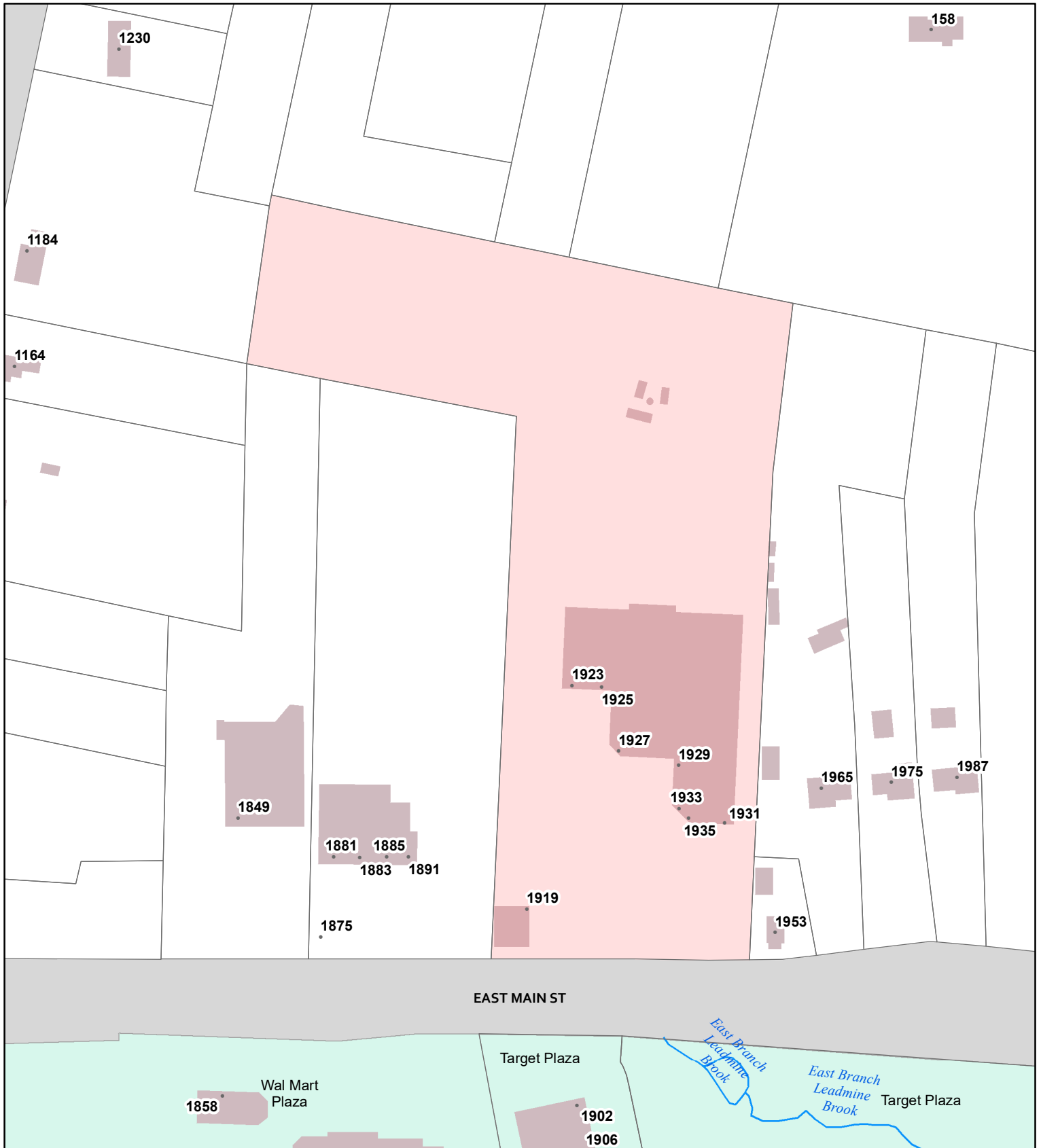
# **ATTACHMENT 5**



# City of Torrington, Connecticut - Assessment Parcel Map

Map/Block/Lot 247-002-024

Address: 247-002-024



Approximate Scale: 1 inch = 177 feet

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

Map Produced: January 2021

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2019.



Information on the Property Records for the Municipality of Torrington was last updated on 9/13/2021.

## Property Summary Information

- [Parcel Data And Values](#)
- [Building](#)
- [Outbuildings](#)
- [Sales](#)
- [Permits](#)

### Parcel Information

Location:	1927 E MAIN ST	Property Use:	Retail	Primary Use:	Neighborhood Shopping Center
Unique ID:	5571	Map Block Lot:	247/002/024	Acres:	9.39
490 Acres:	0.00	Zone:	LB	Volume / Page:	0697/0859
Developers Map / Lot:	5047/4913	Census:	H		

## Value Information

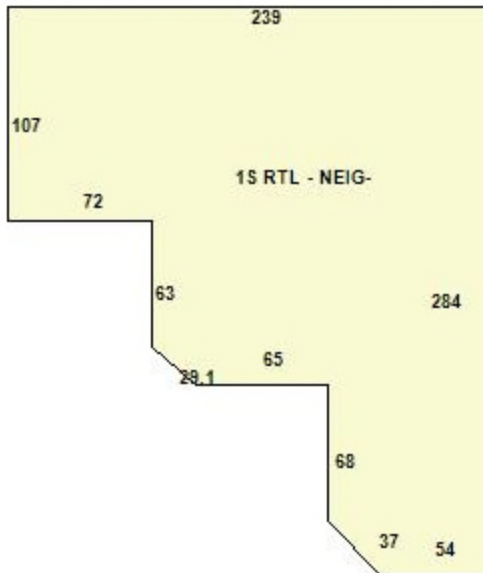
	<b>Appraised Value</b>	<b>Assessed Value</b>
Land	1,311,818	918,280
Buildings	2,594,519	1,816,160
Detached Outbuildings	221,273	154,890
Total	4,127,610	2,889,330

## Owner's Information

### Owner's Data

TEP INCORPORATED  
PO BOX 876  
TORRINGTON CT 06790

## Building 1



Category:	Retail	Use:	Neighborhood Shopping Center	GLA:	46,307
Stories:	1.00	Construction:	Masonry and Wood Frame	Year Built:	1994
Heating:	FHA Non Duct	Fuel:	Gas	Cooling Percent:	100
Siding:	Concrete Block	Roof Material:	Asphalt	Beds/Units:	0

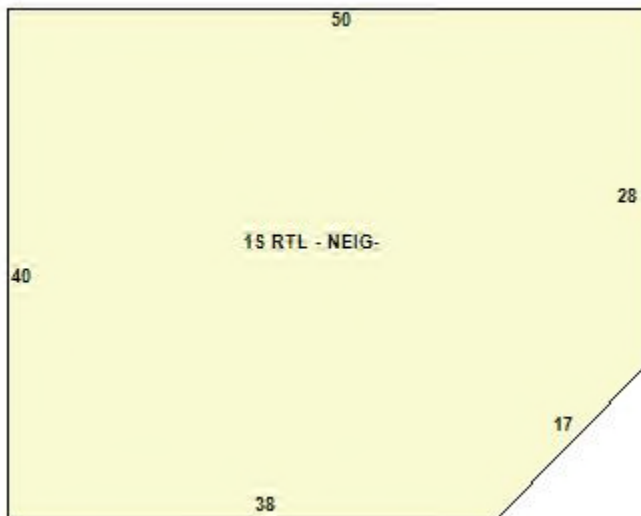
### Special Features

Mezzanine Finished Area 950

Mezzanine Unfinished Area 950  
Wet Sprinklers 46200

## Attached Components

### Building 2



Category: Retail

Use: Neighborhood Shopping Center

GLA: 1,926

Stories: 1.00

Construction: Reinforced Concrete Year Built: 2006

Heating:	FHA	Fuel:	Gas	Cooling Percent:	100
Siding:	Concrete Block	Roof Material:	Asphalt	Beds/Units:	0

### Special Features

### Attached Components

### Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Canopy	1994	0.00	0.00	1,834
Canopy	2006	0.00	0.00	404
Fencing	1994	0.00	0.00	240
Loading Dock Cov	1994	0.00	0.00	480
Loading Dock Un	1994	0.00	0.00	80
Concrete Patio	1994	0.00	0.00	220
Paving	1994	0.00	0.00	122,022
Poles	1994	0.00	0.00	7
Frame Shed	1994	0.00	0.00	600
Frame Shed	1994	0.00	0.00	200

### Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
TEP INCORPORATED	0697	0859	04/20/1999		\$0
PERGOLA HEATHER A	0697	0857	04/20/1999		\$0
TEP INCORPORATED	0599	0410	05/27/1994		\$699,000

### Building Permits

Permit Number	Permit Type	Date Opened	Reason
	Building	12/31/2020	3 NEW CELL ANTENNAS & ASSOC EQUIP
20-125 Z	Commercial	12/11/2020	3 NEW CELL ANTENNAS
20-44 EL	Electrical	02/12/2020	NEW 2" PVC CONDUIT-FIBER OPTIC CARE UNDERGROUND/ATTACH TO T-MOBILE NEW CABINET=PP
19-951	Building	05/29/2019	CELL TOWER MODIFICATION- 6 ANTENNAS/REMOTE HEADS= PP



Permit Number	Permit Type	Date Opened	Reason
18-1934	Electrical	10/17/2018	ELECTRICAL
17-1935	Certificate of Completion	10/10/2017	CERT OF COMPL- REPL ANTENNA PANELS/HEADS- VERIZON
17-1850	Building	09/27/2017	REMOVE & REPLACE 2 WALL SIGNS/ 1 PYLON FACE
17-1849	Electrical	09/27/2017	FINAL ELEC FOR SIGNS
17-1082	Certificate of Completion	06/14/2017	CERT OF COMPL-MODIFY AT&T ANTENNA & REPL 3 RADIO HEADS
17-882	Building	05/23/2017	AT&T SIGNAGE & 3 LETTER SETS/1 PYLON SIGN =PP
17-441	Commercial	04/07/2017	VERIZON- REPL PANELS WITH NEW MODELS/REMOTE RADIO HEADS=PP
17-425 Z	Commercial	03/30/2017	REPL EXISTING ANTENNAS WITH NEW MODELS
17-345	Building	03/16/2017	MODIFY AT&T ANTENNA SITE- REPL 3 REMOTE RADIO UNITS
17-341 Z	Commercial	03/10/2017	ANTENNA MODIFICATION ON EXISTING TOWER
16-1966	Electrical	10/14/2016	DISCONNECT EXHAUST FAN/ADD QUAD OUTLET & REWIRE GFI & LIGHT SWITCH
16-1954	Plumbing	10/13/2016	REM TOILET & INSTALL 15 X 15 SINK
16-1389	Building	08/01/2016	REMOVE 1 TOILET & SINK IN RESTROOM/TURN INTO DRAW ROOM/COUNTER & SINK
15-2412	Building	12/23/2015	REPL ANTENNA PANELS & ADD REMOTE RADIO HEADS=PP
15-1825	Certificate of Completion	10/07/2015	CERT OF COMPL- MAINTENANCE/NEW FLAT PLATE REINFORCEMENT
15-1353	Building	08/12/2015	INSTALL NEW FLAT PLATE REINFORCEMENT & MAINTENANCE= PP
15-760	Building	05/22/2015	ADD 3 NEW ANTENNA/MODUALS/CABLES/ETC=PP
14-1909	Building	09/23/2014	AWNING FOR OUTER SEATING AREA=PP
14-1752 Z	Residential	08/27/2014	23 X 20 CANOPY OVER DINING AREA
14-1369	Building	07/11/2014	ADD 3 CELL ANTENNAS & ASSOC EQUIP= PP
13-5588	Building	08/13/2013	SWAP OUT ANTENNA @CELL TOWER
12-3174	Building	01/04/2013	INSTALL 3 NEW ANTENNAS & SUPPORT EQUIP/I NEW CABINET IN EXISTING SHELTER
12-3032	Commercial	12/07/2012	REPL 6 ANTENNA W/3 NEW & EQUIP CABINETS=PP
12-2968	Commercial	11/27/2012	REPL 6 ANTENNAS W/ NEW
12-1056	Mechanical	04/18/2012	6 FT HOOD/EXHAUST FAN FOR HIBACHI TABLE
12-470	Commercial	03/13/2012	ADD 1 NEW HIBACHI GRIDDLE
11-807	Commercial	07/21/2011	10 PEDICURE CHAIRS/2 MASSAGE ROOMS/1 BATH
11-1174	Certificate of Completion	07/15/2011	CERT OF COMPL-BLOOD DRAWING OFFICE
11-808	Commercial	06/01/2011	64' PARTITION WALL
11-771	Commercial	05/26/2011	OFFICE FITOUT- BLOOD DRAWING OFFICE
11-364	Commercial	04/08/2011	REPL EXISTING PANEL ANTENNA

Permit Number	Permit Type	Date Opened	Reason
10-1094	Certificate of Completion	07/02/2010	WALK IN COOLER/CHECKOUT COUNTER DRY SPRINKLERS
10-1003	Commercial	06/22/2010	ADD 3 DRY SPRINKLERS AND RELOCATE 3 SPRINKLERS
10-183	Commercial	03/17/2010	NEON WALL SIGN & PANEL FACE REPLCMNT
09-1397	Certificate of Completion	08/12/2009	CHG USE FROM AIG OFFICE TO H&R BLOCK OFFICE
07-000436	Commercial	04/12/2007	WALL SIGN
06-1133CO	Certificate of Occupancy	11/16/2006	NEW BLDG
06-1277CO	Certificate of Occupancy	11/16/2006	CINGULAR WIRELESS IN NEW BLDG
06-1277	Commercial	07/28/2006	TENANT FIT OUT
06-1133	Commercial	07/13/2006	CONSTRUCT NEW BLDG
06-458CO	Certificate of Occupancy	05/08/2006	CO PERMIT #06-458
06-458	Commercial	03/31/2006	INTERIOR ALTERATIONS
05-80	Commercial	04/07/2005	FREE-STANDING ATM
04-470	Commercial	09/16/2004	INT PARTITIONS - VERIZON
04-208A	Commercial	05/28/2004	INTERIOR ALTERATIONS
04-172A	Commercial	05/12/2004	WORK ON FOUNDATION - CHINESE REST
04-92	Commercial	04/06/2004	INSTALL PRE-FAB SHELTER & ANTENNAE (1925 E MAIN)
04-37	Commercial	02/10/2004	INT FRAMING
03-582	Commercial	11/24/2003	WIRELESS FACILITY
02-300	Commercial	07/18/2002	TOWER MODIFICATION
02-05	Commercial	01/10/2002	NEW ANTENNAE
00-416	Commercial	12/14/2000	CONCRETE PAD FOR TELECOM TOWER
00-402	Commercial	11/29/2000	ADD ANTENNAE TO TOWER
00-326	Commercial	09/14/2000	TELECOM TOWER
04-037CO	Certificate of Occupancy		04-037 CO ISSUED

### Google Map

Unique Id:

5571

Location:

1927 E MAIN ST

MBL:

247/002/024

Primary Use:

Zone:

Neighborhood Sh

Acres:

LB

Appraised Value:

9.39

Assessed Value:

\$4,127,610

\$2,889,330

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# **ATTACHMENT 6**



Torrington E

Certificate of Mailing — Firm

Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender  3	TOTAL NO. of Pieces Received at Post Office™  3	Affix Stamp Here Postmark with Date of Receipt.  neopost® 09/16/2021 US POSTAGE \$002.99   ZIP 06103 041L12203937			
	Postmaster, per (name of receiving employee)  V.P					

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Elinor Carbone, Mayor City of Torrington 140 Main Street Torrington, CT 06790				
2.	Martin Connor, City Planner City of Torrington 140 Main Street Torrington, CT 06790				
3.	TEP Incorporated PO Box 876 Torrington, CT 06790				
4.					
5.					
6.					

