

KENNETH C. BALDWIN

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Also admitted in Massachusetts  
and New York

December 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  
689 (a/k/a 695) Old Colchester Road, Montville, 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 Town of Montville in June of 1984. Cellco’s shared use of the tower was approved by the Council in April 1988. A copy of Town’s approval and Cellco’s approval are included in Attachment 1.

Cellco now intends to modify its facility by removing nine (9) existing antennas and installing three (3) new Samsung MT6407-77A antennas; and six (6) NHH-65B-R2B antennas. Cellco will also remove six (6) existing remote radio heads (“RRHs”) and install six (6) new RRHs all on Cellco’s existing antenna mounts. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRHs 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 Montville’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.  
December 16, 2021  
Page 2

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. Cellco's replacement antennas will be installed on Cellco's existing antenna platform.
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 and RRHs 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 mounts, 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.  
December 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:

Ronald K. McDaniel, Montville Mayor  
Liz Burdick, Montville Town Planner  
Atlantic Broadband (CT) LLC, Property Owner  
Aleksey Tyurin

# **ATTACHMENT 1**

TOWN OF MONTVILLE

The Zoning & Planning Commission

Town Planner/Zoning Enforcement Officer

310 Norwich-New London Tpke.

Uncasville, Connecticut 06382

848-8549

L E G A L   N O T I C E

NOTICE IS HEREBY GIVEN THAT THE MONTVILLE ZONING AND PLANNING COMMISSION WILL HOLD PUBLIC HEARINGS IN MONTVILLE TOWN HALL ON TUESDAY, JUNE 12, 1984 AT 7:30 P.M. ON THE FOLLOWING PETITIONS:

THOMAS G. FARIA CORP.: REQUEST FOR SPECIAL PERMIT APPROVAL TO EXCAVATE 5600 CUBIC YARDS TO ENLARGE PARKING AREA AT PROPERTY LOCATED ALONG PINK ROW, MONTVILLE, CT. (MAP 74, LOT 38).

MONTVILLE V.F.W. POST #10060: REQUEST FOR SPECIAL PERMIT APPROVAL TO FILL AT PROPERTY LOCATED ALONG ROUTE 32, MONTVILLE, CT. (MAP 86, LOT 8).

TUOMO LAAKSO: REQUEST FOR ZONE CHANGE FROM RA-40 TO RA-20 FOR PROPERTY OF JOHN TEPHLY ALONG OLD COLCHESTER ROAD, MONTVILLE, CT., A PORTION OF LOT 11 ON MAP 44 (8.09 ACRES) BOUNDED ON THE SOUTH BY OLD COLCHESTER ROAD, ON THE WEST BY LOTS 10 and 11A ON MAP 44, ON THE NORTH BY THE FUTURE EXTENSION OF SHORT ROAD TO BE KNOWN AS LIBERTY ROAD, AND ON THE EAST BY LOTS 12, 13, 14, 15, 16, 17, 18, 19, 20 ON MAP 97.

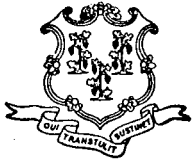
EASTERN CONNECTICUT CABLE T.V.: REQUEST FOR SPECIAL PERMIT APPROVAL TO ERECT A 370 FOOT TELEVISION TOWER AT PROPERTY LOCATED AT 695 OLD COLCHESTER ROAD, MONTVILLE, CT. (MAP 30, LOT 89A).

AT THESE HEARINGS INTERESTED PERSONS MAY APPEAR AND BE HEARD AND WRITTEN COMMUNICATIONS WILL BE RECEIVED. COPIES OF THE PROPOSED APPLICATIONS AND MAPS ARE ON FILE IN THE OFFICES OF THE TOWN PLANNER AND TOWN CLERK, MONTVILLE TOWN HALL ANNEX AND TOWN HALL, RESPECTIVELY.

DATED AT MONTVILLE, CT. THIS 1ST DAY OF JUNE, 1984.

MONTVILLE ZONING & PLANNING COMM.  
Charles Korenkiewicz, CHM.  
Magnus Wade, SECY.

TO BE INSERTED IN THE DAY ON June 1 and June 8, 1984.



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401  
New Britain, Connecticut 06051  
Phone: 827-7682

Gloria Dibble Pond  
CHAIRPERSON

### COMMISSIONERS

Peter Boucher  
Leslie Carothers

April 28, 1988

Fred J. Doocy  
Mortimer A. Gelston  
James G. Horsfall  
William H. Smith  
Colin C. Tait

Ms. Jennifer Young Gaudet  
Byrne, Slater, Sandler, Shulman  
and Rouse, P.C.  
330 Main Street  
P.O. Box 3216  
Hartford, Connecticut 06103

Joel M. Rinebold  
Executive Director

RE: Metro Mobile CTS of New London, Inc., - Notice  
Pursuant to Regulations of State Agencies 16-50j-73  
of Intent to Install Cellular Antennas and Equipment.

Stanley J. Modzelesky  
Executive Assistant

Dear Ms. Gaudet:

At a meeting held on April 27, 1988, the Connecticut Siting Council acknowledged your notice of intent to install additional cellular antennas and related equipment at the existing Eastern Connecticut Cable Television, Inc., tower on Old Colchester Road, Montville, Connecticut, pursuant to Section 16-50j-73 of the Regulations of State Agencies (RSA).

Your notice is in compliance with the exception criteria for changes to an existing facility site, pursuant to RSA 16-50j-72.

Very truly yours,

Gloria Dibble Pond  
Chairperson

GDP/JMR/go

1371E-2

# **ATTACHMENT 2**



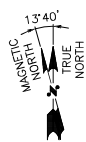
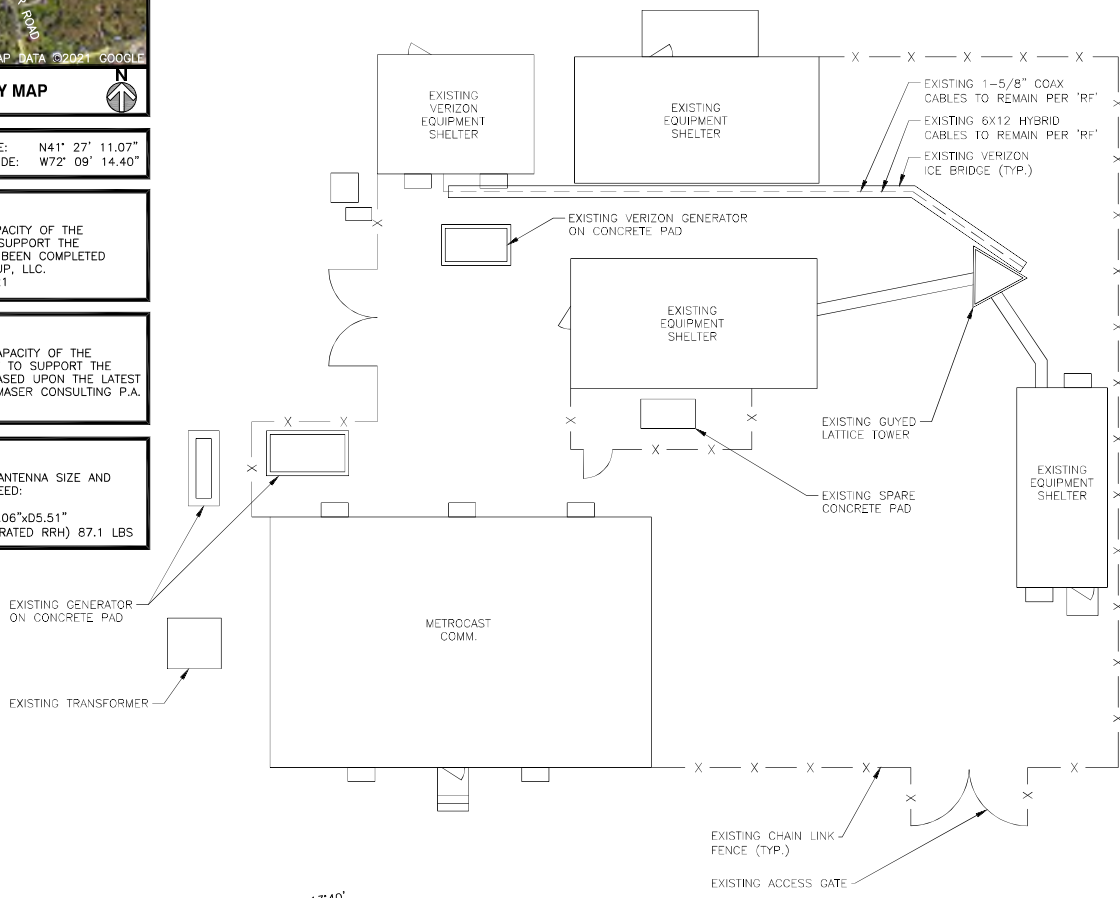
**VICINITY MAP**  
SCALE: N.T.S.

APPROXIMATE COORDINATES: LATITUDE: N41° 27' 11.07" LONGITUDE: W72° 09' 14.40"

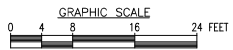
**NOTE:**  
AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY HUDSON DESIGN GROUP, LLC. DATED: DECEMBER 6, 2021

**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING IS BASED UPON THE LATEST MOUNT ASSESSMENT BY MASER CONSULTING P.A.

**NOTE:**  
PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:  
DIMENSIONS H35.12"W16.06"D5.51"  
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS



**COMPOUND PLAN**  
22x34 SCALE: 1/8"=1'-0"  
11x17 SCALE: 1/16"=1'-0"



FIELD INSPECTION DATE: 08-19-2021

**SCOPE**

- EXISTING (9) ANTENNAS TO BE REMOVED PER 'RF', EXISTING (3) ANTENNAS TO REMAIN PER 'RF', INSTALL (9) ANTENNAS PER 'RF'.
- INSTALL (3) SIDE-BY-SIDE MOUNTS PER 'RF'.
- EXISTING (6) RRH'S TO BE REMOVED PER 'RF', INSTALL (9) RRH'S PER 'RF'.
- EXISTING (2) JUNCTION BOXES (OVP) TO BE REMAIN PER 'RF'.
- ALL EXISTING 1-5/8" COAX CABLES TO REMAIN PER 'RF'.
- ALL EXISTING 6X12 HYBRID CABLES TO REMAIN PER 'RF'.
- CAP AND WEATHERPROOF UNUSED PORTS/CONNECTORS.
- ALL REPLACEMENT ANTENNAS TO MATCH EXISTING CONDITION & HEIGHTS.
- RECONFIGURE/RELOCATE EXISTING ANTENNA MOUNTS AS NECESSARY TO ACCOMMODATE HORIZONTAL SEPARATION, PROPOSED AZIMUTHS, AND ANTENNAS CONFIGURATION.

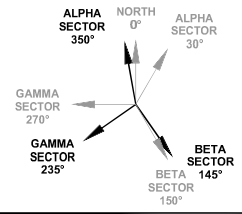
**NEW ANTENNA CONFIGURATION**

**NOTE TO GENERAL CONTRACTOR:**  
'RF' DESIGN AND EQUIPMENT IS BASED UPON **RFDS ISSUED BY VZW DATED: JULY 30, 2021 REVISION #0.**  
THE CONTRACTOR OF RECORD SHALL CONTACT VZW PRIOR TO ANY AND ALL ORDERING/PURCHASING/INSTALLATION OF EQUIPMENT TO VERIFY THAT THE 'RF' LISTED IN THE DRAWING SET IS CURRENT AND UP TO DATE.

**NOTES**

- NORTH SHOWN AS APPROXIMATE.
- SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- ANTENNAS WILL BE CAMOUFLAGED WITH 3M WRAP OR SHERWIN-WILLIAMS PRO INDUSTRIAL DTM ACRYLIC PAINT, AS NEEDED, PER VERIZON WIRELESS AND BUILDING OWNER'S APPROVAL.
- PRIOR TO COMMENCEMENT OF ANY WORK, PROPOSED ANTENNA INSTALLATION IS PURSUANT TO FINDINGS DICTATED IN STRUCTURAL ANALYSIS. STRUCTURAL ANALYSIS TO VERIFY CAPACITY OF EXISTING STRUCTURE TO ENSURE STRUCTURAL INTEGRITY FOLLOWING INSTALLATION OF PROPOSED ANTENNAS, COAX CABLES AND REQUIRED HARDWARE. COPY OF STRUCTURAL ANALYSIS TO BE SENT TO DESIGN ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, VERIZON WIRELESS ANTENNA MOUNT LOCATION AND ANTENNAS TO BE INSTALLED.
- CONTRACTOR SHALL NOTIFY ENGINEERS IF FIELD CONDITIONS DIFFER FROM DESIGN.
- RAD CENTERS MEASURED IN THE FIELD WITH LASER BY HDG. RAD CENTERS MAY NOT MATCH RF ANTENNA DESIGN SHEET.

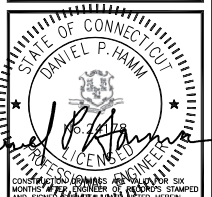
**ANTENNA ORIENTATION**



PREPARED FOR: CELCO PARTNERSHIP D.B.A.



45 BEECHWOOD DRIVE TEL: (978) 557-5553  
14 ANDOVER, MA 01846 FAX: (978) 556-5594



CHECKED BY: JX

APPROVED BY: DPH

**SUBMITTALS**

| REV. | DATE     | DESCRIPTION             | BY |
|------|----------|-------------------------|----|
| 1    | 12/06/21 | REVISED PER UPDATED TSA | CS |
| 0    | 10/19/21 | ISSUED FOR CONSTRUCTION | NM |

SITE NAME:  
MONTVILLE CT

SITE ADDRESS:  
695 OLD COLCHESTER ROAD  
UNCASVILLE, CT 06382

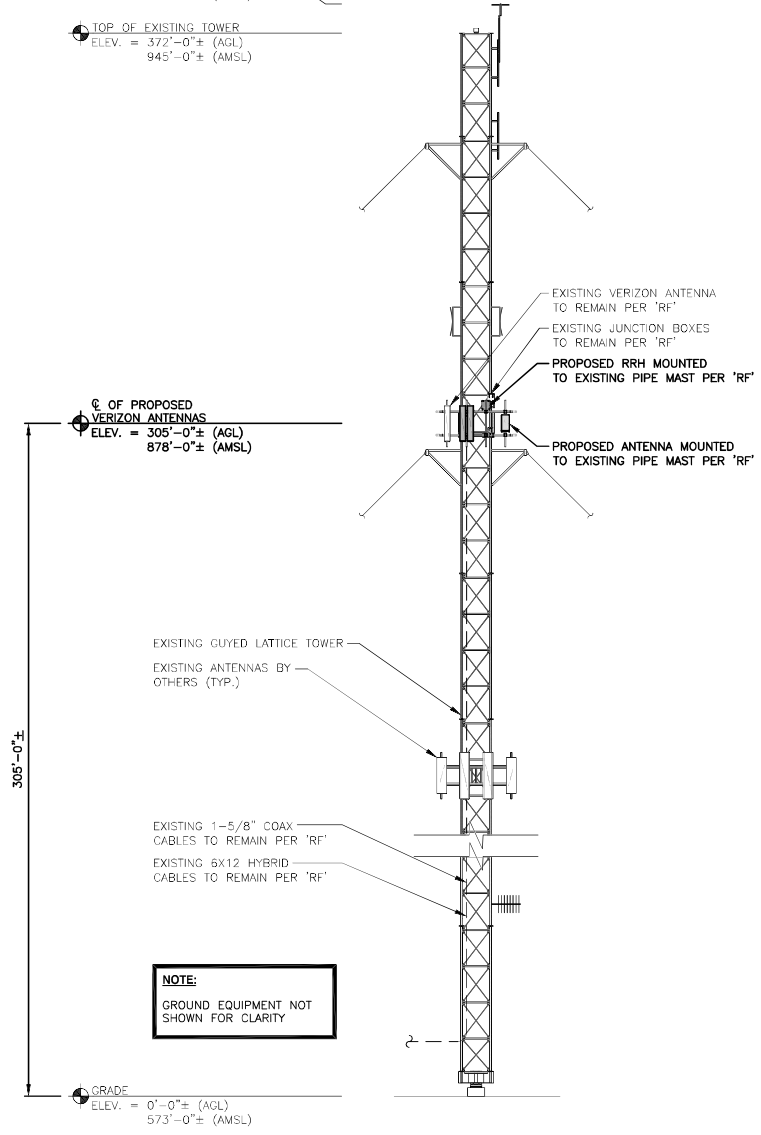
SHEET TITLE  
COMPOUND PLAN

SHEET NUMBER  
**A-1**



HIGHEST APPURTENANCE  
ELEV. = 377'-0"± (AGL)  
950'-0"± (AMSL)

TOP OF EXISTING TOWER  
ELEV. = 372'-0"± (AGL)  
945'-0"± (AMSL)



**NOTE:**  
GROUND EQUIPMENT NOT SHOWN FOR CLARITY

**ELEVATION**  
22x34 SCALE: 3/32"=1'-0"  
11x17 SCALE: 3/64"=1'-0"

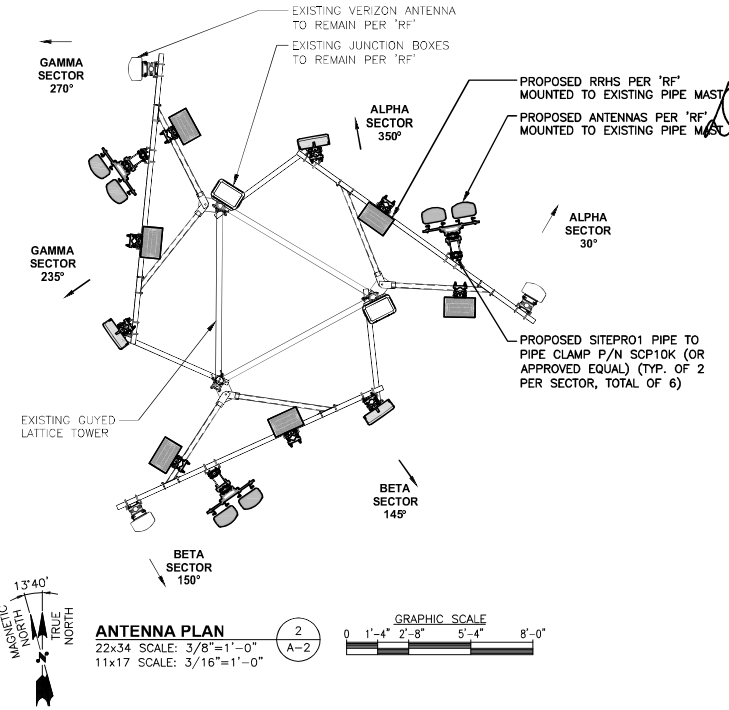
GRAPHIC SCALE  
0 5'-4" 10'-8" 21'-4" 32'-0"

1  
A-2

**NOTE:**  
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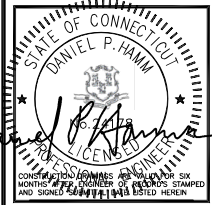
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WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS



PREPARED FOR: CELCO PARTNERSHIP D.B.A.



45 BEECHWOOD DRIVE TEL: (978) 557-5553  
21 ANDOVER, MA 01845 FAX: (978) 556-5501



CHECKED BY: JX  
APPROVED BY: DPH

**SUBMITTALS**

| REV. | DATE     | DESCRIPTION             | BY |
|------|----------|-------------------------|----|
| 1    | 12/06/21 | REVISED PER UPDATED TSA | CS |
| 0    | 10/19/21 | ISSUED FOR CONSTRUCTION | KM |

SITE NAME:  
MONTVILLE CT

SITE ADDRESS:  
695 OLD COLCHESTER ROAD  
UNCASVILLE, CT 06382

SHEET TITLE  
ELEVATION &  
ANTENNA PLAN

SHEET NUMBER  
**A-2**

**STRUCTURAL NOTES:**

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D11. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL", 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

**SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):**

**GENERAL:** WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

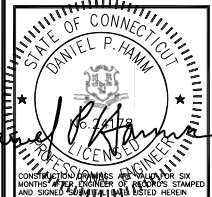
| SPECIAL INSPECTION CHECKLIST   |  |
|--|--|
| BEFORE CONSTRUCTION  |  |
| CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD) | REPORT ITEM  |
| <b>REQUIRED</b>  | ENGINEER OF RECORD APPROVED SHOP DRAWINGS <sup>1</sup>         |
| <b>REQUIRED</b>  | MATERIAL SPECIFICATIONS REPORT <sup>2</sup>                    |
| N/A  | FABRICATOR NDE INSPECTION                                      |
| <b>REQUIRED</b>  | PACKING SLIPS <sup>3</sup>                                     |
| ADDITIONAL TESTING AND INSPECTIONS:  |  |
| DURING CONSTRUCTION  |  |
| CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD) | REPORT ITEM  |
| <b>REQUIRED</b>  | STEEL INSPECTIONS  |
| N/A  | HIGH STRENGTH BOLT INSPECTIONS                                 |
| N/A  | HIGH WIND ZONE INSPECTIONS <sup>4</sup>                        |
| N/A  | FOUNDATION INSPECTIONS   |
| N/A  | CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT             |
| N/A  | POST INSTALLED ANCHOR VERIFICATION <sup>5</sup>                |
| N/A  | GROUT VERIFICATION   |
| N/A  | CERTIFIED WELD INSPECTION                                      |
| N/A  | EARTHWORK; LIFT AND DENSITY                                    |
| N/A  | ON SITE COLD GALVANIZING VERIFICATION                          |
| N/A  | GUY WIRE TENSION REPORT  |
| ADDITIONAL TESTING AND INSPECTIONS:  |  |
| AFTER CONSTRUCTION   |  |
| CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD) | REPORT ITEM  |
| <b>REQUIRED</b>  | MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS <sup>6</sup> |
| N/A  | POST INSTALLED ANCHOR PULL-OUT TESTING                         |
| <b>REQUIRED</b>  | PHOTOGRAPHS  |
| ADDITIONAL TESTING AND INSPECTIONS:  |  |

- NOTES:**
- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL BOLTS OR STEEL.
  - PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
  - PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
  - HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C.D. 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
  - ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 308.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
  - AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

PREPARED FOR: CELCO PARTNERSHIP D.B.A.



45 BEECHWOOD DRIVE  
AN ANDOVER, MA 01846 TEL: (978) 557-5553  
FAX: (978) 556-5501



CHECKED BY: JX

APPROVED BY: DPH

| SUBMITTALS |          |                         |    |
|------------|----------|-------------------------|----|
| REV.       | DATE     | DESCRIPTION             | BY |
| 1          | 12/06/21 | REVISED PER UPDATED TSA | CS |
| 0          | 10/19/21 | ISSUED FOR CONSTRUCTION | NM |

SITE NAME:  
MONTVILLE CT

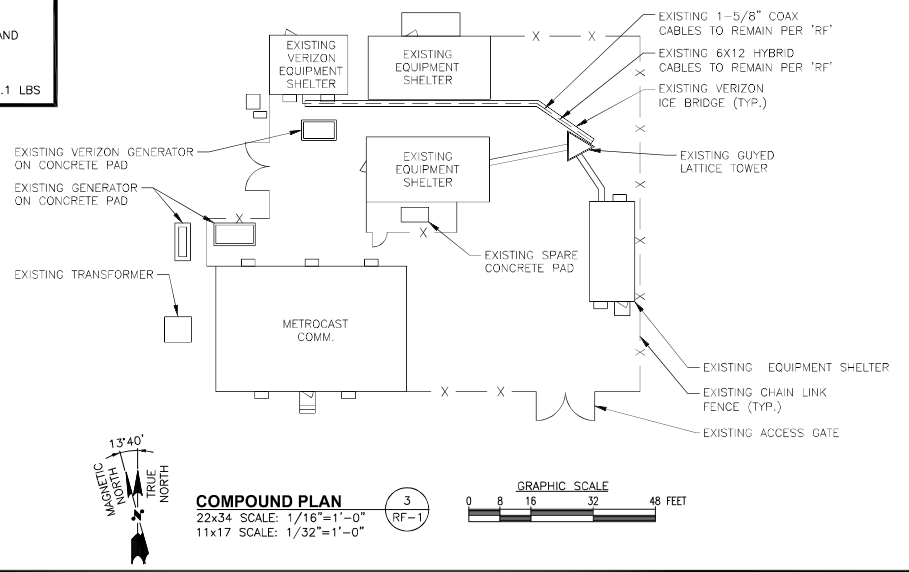
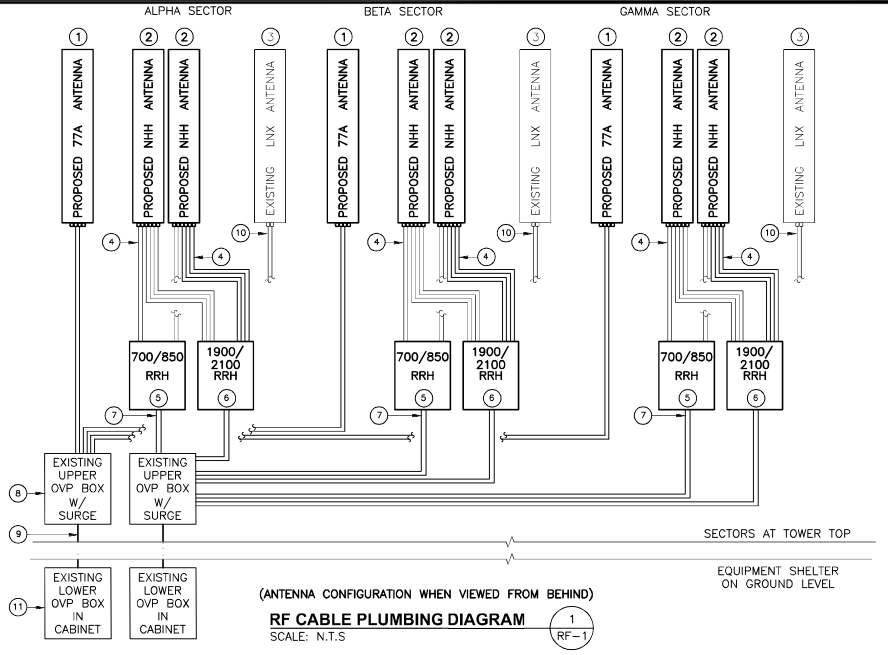
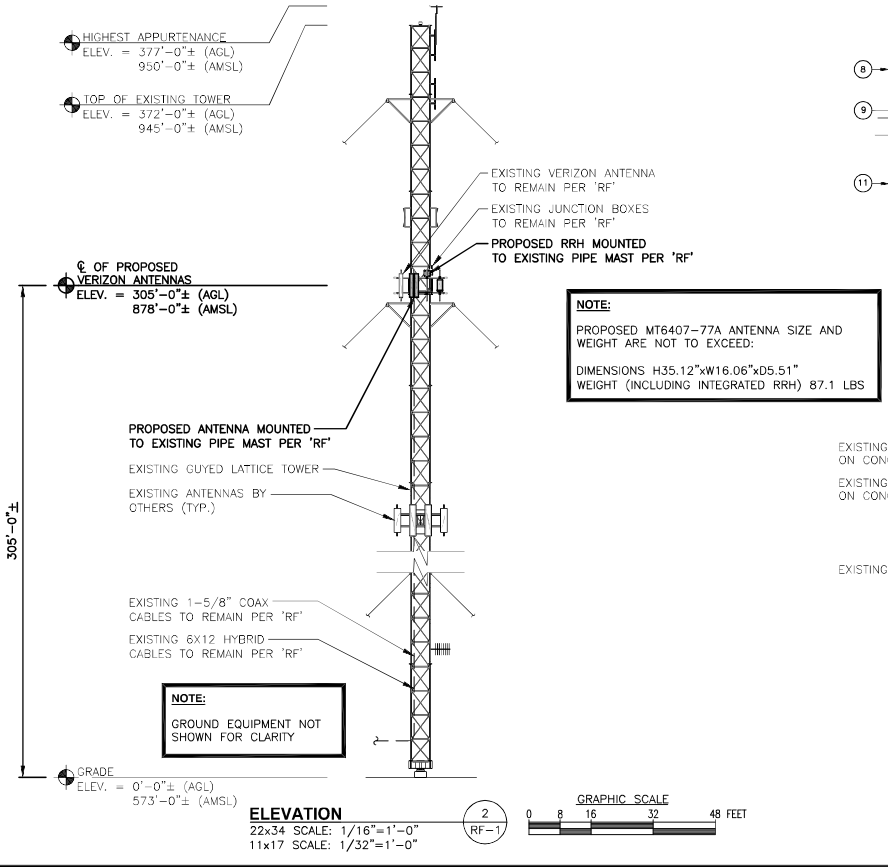
SITE ADDRESS:  
695 OLD COLCHESTER ROAD  
UNCASVILLE, CT 06382

SHEET TITLE  
STRUCTURAL NOTES  
&  
SPECIAL INSPECTIONS

SHEET NUMBER  
SN-1

| BILL OF MATERIALS       |                                      |     |         |  |
|-------------------------|--------------------------------------|-----|---------|--|
| SITE NAME: MONTVILLE CT |                                      |     |         |  |
| ITEM                    | DESCRIPTION                          | QTY | LENGTH  | COMMENTS   |
| ①                       | PROPOSED MT6407-77A ANTENNA W/ RRH   | 3   |         | MOUNTED TO EXISTING PIPE MAST                    |
| ②                       | PROPOSED NHH-65B-RB2 ANTENNA         | 6   |         | MOUNTED TO EXISTING PIPE MAST SIDE-BY-SIDE MOUNT |
| ③                       | EXISTING LNX-6514DS-A1M ANTENNA      | 3   |         | MOUNTED TO EXISTING PIPE MAST                    |
| ④                       | EXISTING 1/2" TOP COAX JUMPERS       | 24  | 6 FT.   | ROUTE FROM RRH TO ANTENNA                        |
| ④                       | PROPOSED 1/2" TOP COAX JUMPERS       | 12  | 6 FT.   | ROUTE FROM RRH TO ANTENNA                        |
| ⑤                       | PROPOSED LTE 700/850 RRH             | 3   |         | SAMSUNG RRH RF4440D-13A PIPE MOUNTED             |
| ⑥                       | PROPOSED PCS/AWS 1900/2100 RRH       | 3   |         | SAMSUNG RRH RF4439D-25A PIPE MOUNTED             |
| ⑦                       | PROPOSED SAMSUNG FIBER JUMPER CABLES | 9   | 15 FT.  | ROUTE FROM OVP TO ANTENNA/RRH                    |
| ⑦                       | PROPOSED SAMSUNG POWER JUMPER CABLES | 9   | 15 FT.  | ROUTE FROM OVP TO ANTENNA/RRH                    |
| ⑧                       | EXISTING UPPER OVP                   | 2   |         | MOUNTED TO TOWER LEG                             |
| ⑨                       | EXISTING 6X12 HYBRID CABLES          | 2   | 400 FT. | ROUTE FROM EQUIPMENT SHELTER TO ANTENNA SECTOR   |
| ⑩                       | EXISTING 1-5/8" COAX CABLES          | 6   | 400 FT. | ROUTE FROM EQUIPMENT SHELTER TO ANTENNA SECTOR   |
| ⑪                       | EXISTING LOWER OVP                   | 2   |         | RACK MOUNTED INSIDE EQUIPMENT SHELTER            |

THE ABOVE RF-BOM SHEET IS BASED ON INFORMATION LISTED ON ANTENNA RECOMMENDATION SHEET DATED 7/30/21



PREPARED FOR: CELCO PARTNERSHIP D.B.A.

**verizon**

**HG HUDSON Design Group LLC**  
45 BEECHWOOD DRIVE    TEL: (978) 557-5553  
N. ANDOVER, MA 01845    FAX: (978) 536-5504

CHECKED BY: JX

APPROVED BY: DPH

**SUBMITTALS**

| REV. | DATE     | DESCRIPTION      | BY |
|------|----------|------------------|----|
| 0    | 10/19/21 | BILL OF MATERIAL | JM |

SITE NAME:  
MONTVILLE CT

SITE ADDRESS:  
695 OLD COLCHESTER ROAD  
UNCASVILLE, CT 06382

SHEET TITLE  
RF PLUMBING  
DIAGRAM & BILL OF  
MATERIAL

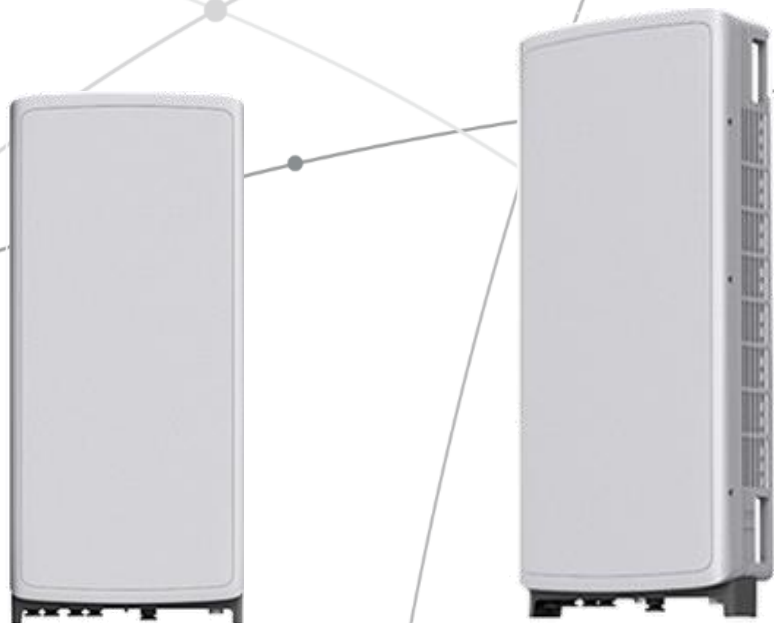
SHEET NUMBER  
**RF-1**

## **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



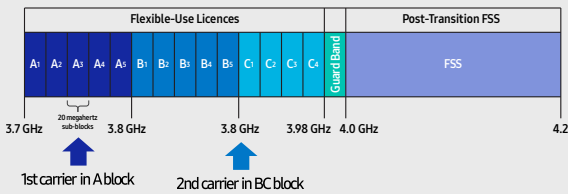
## Points of Differentiation

### 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

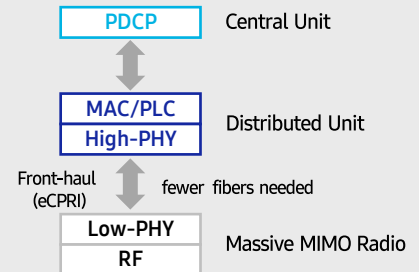
C-Band spectrum supported by Massive MIMO Radio



### 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.

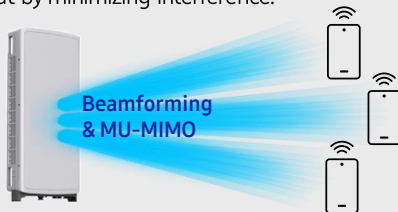


### Enhanced Performance

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.

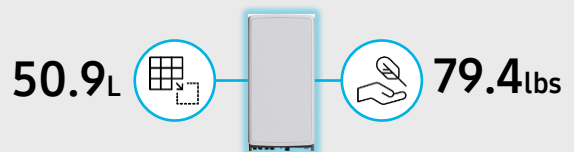
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



### 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 |

The Samsung logo is positioned in the top right corner. The background features several thin, light gray curved lines that sweep across the page, creating a sense of motion and connectivity. Some of these lines intersect at small gray dots.

# 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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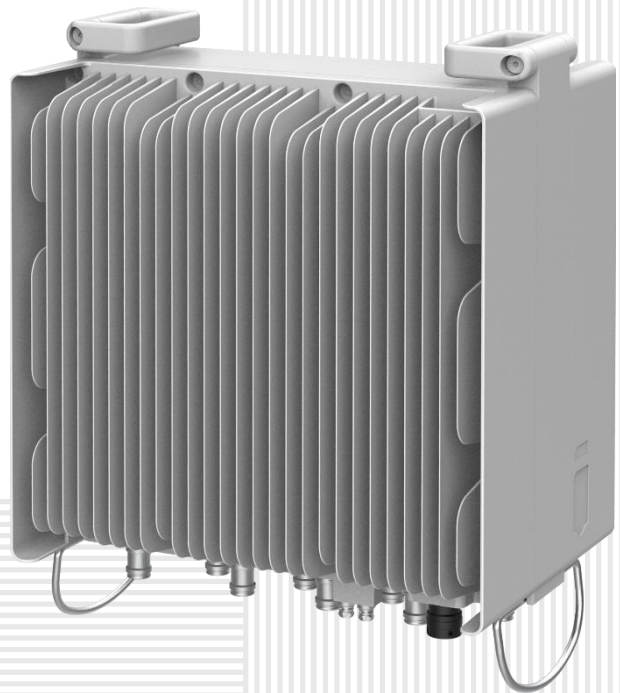
# SAMSUNG

## AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER  
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage  
[samsungnetworks.com](http://samsungnetworks.com)

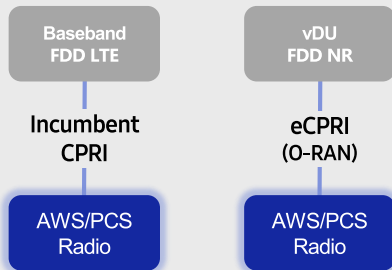


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

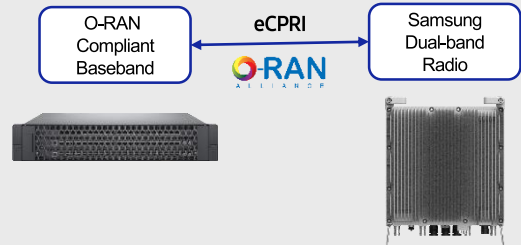
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



### O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

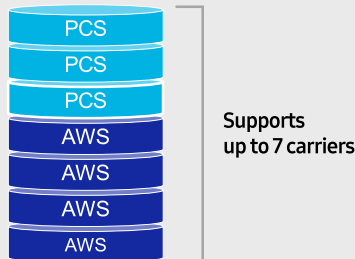
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

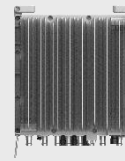
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



### Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



- 2 FH connectivity
- O-RAN capability
- More carriers and spectrum

Same as an incumbent radio volume

## Technical Specifications

| Item           | Specification  |
|----------------|--|
| Tech           | LTE / NR   |
| Brand          | B25(PCS), B66(AWS)   |
| Frequency Band | DL: 1930 – 1995MHz, UL: 1850 – 1915MHz<br>DL: 2110 – 2200MHz, UL: 1710 – 1780MHz |
| RF Power       | (B25) 4 × 40W or 2 × 60W<br>(B66) 4 × 60W or 2 × 80W                             |
| IBW/OBW        | (B25) 65MHz / 30MHz<br>(B66) DL 90MHz, UL 70MHz / 60MHz                          |
| Installation   | Pole, Wall   |
| Size/Weight    | 14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb                                       |



# SAMSUNG

## 700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER  
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage  
[samsungnetworks.com](https://www.samsungnetworks.com)

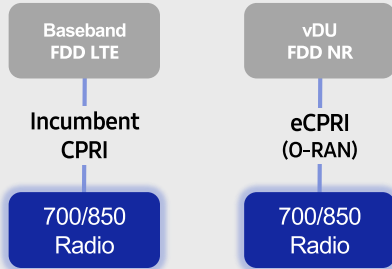


Youtube  
[www.youtube.com/samsung5g](https://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

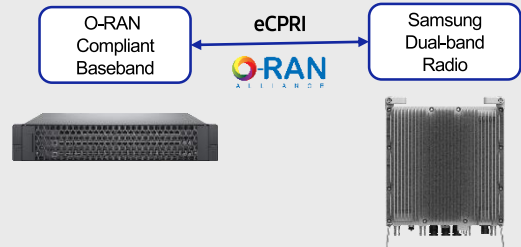
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



### O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

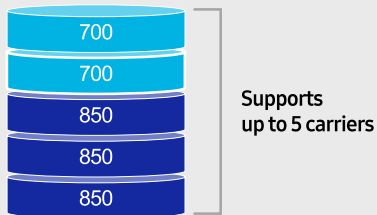
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

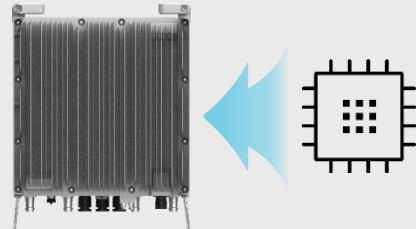
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



### Secured Integrity

Access to sensitive data is allowed only to authorized software.

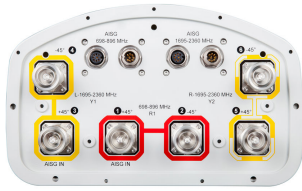
The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



## Technical Specifications

| Item           | Specification  |
|----------------|--|
| Tech           | LTE / NR   |
| Brand          | B13(700MHz), B5(850MHz)  |
| Frequency Band | DL: 746 – 756MHz, UL: 777 – 787MHz<br>DL: 869 – 894MHz, UL: 824 – 849MHz |
| RF Power       | (B13) 4 × 40W or 2 × 60W<br>(B5) 4 × 40W or 2 × 60W                      |
| IBW/OBW        | (B13) 10MHz / 10MHz<br>(B5) 25MHz / 25MHz                                |
| Installation   | Pole, Wall   |
| Size/Weight    | 14.96 x 14.96 x 9.05inch (33.2L) /<br>70.33 lb                           |

# NHH-65B-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

## General Specifications

|   |  |
|---|--|
| <b>Antenna Type</b>                             | Sector   |
| <b>Band</b>                                     | Multiband  |
| <b>Color</b>                                    | Light gray   |
| <b>Effective Projective Area (EPA), frontal</b> | 0.26 m <sup>2</sup>   2.799 ft <sup>2</sup>  |
| <b>Effective Projective Area (EPA), lateral</b> | 0.22 m <sup>2</sup>   2.368 ft <sup>2</sup>  |
| <b>Grounding Type</b>                           | RF connector body grounded to reflector and mounting bracket   |
| <b>Performance Note</b>                         | Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN |
| <b>Radome Material</b>                          | Fiberglass, UV resistant   |
| <b>Radiator Material</b>                        | Low loss circuit board   |
| <b>Reflector Material</b>                       | Aluminum   |
| <b>RF Connector Interface</b>                   | 7-16 DIN Female  |
| <b>RF Connector Location</b>                    | Bottom   |
| <b>RF Connector Quantity, high band</b>         | 4  |
| <b>RF Connector Quantity, low band</b>          | 2  |
| <b>RF Connector Quantity, total</b>             | 6  |

## Remote Electrical Tilt (RET) Information, General

|                                |                                   |
|--------------------------------|-----------------------------------|
| <b>RET Interface</b>           | 8-pin DIN Female   8-pin DIN Male |
| <b>RET Interface, quantity</b> | 2 female   2 male                 |

## Dimensions

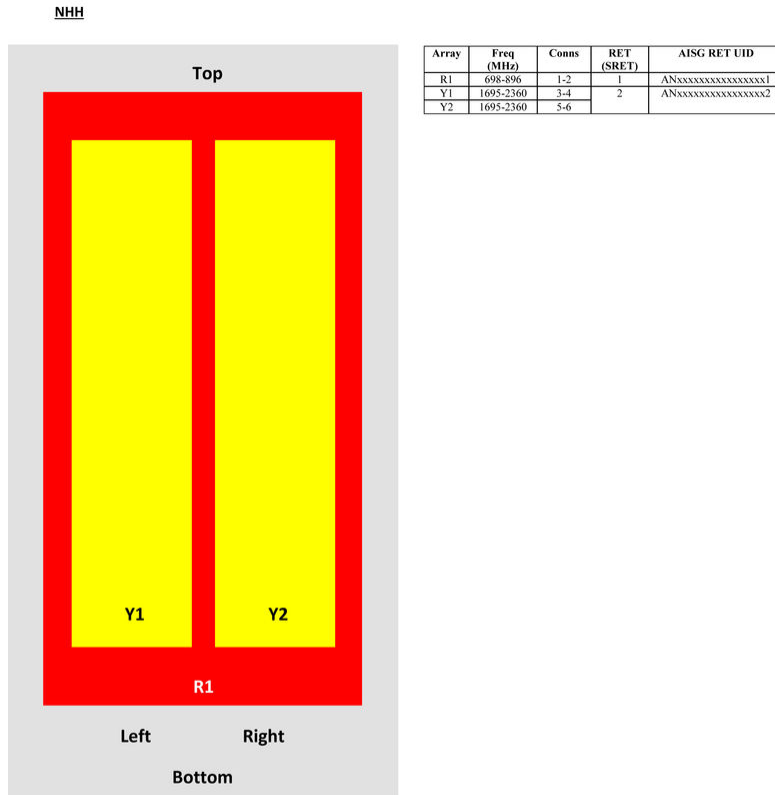
|               |                     |
|---------------|---------------------|
| <b>Width</b>  | 301 mm   11.85 in   |
| <b>Length</b> | 1828 mm   71.969 in |

# NHH-65B-R2B

Depth

180 mm | 7.087 in

## Array Layout



View from the front of the antenna

(Sizes of colored boxes are not true depictions of array sizes)

## Electrical Specifications

|                                   |                                 |
|-----------------------------------|---------------------------------|
| <b>Impedance</b>                  | 50 ohm                          |
| <b>Operating Frequency Band</b>   | 1695 – 2360 MHz   698 – 896 MHz |
| <b>Polarization</b>               | ±45°                            |
| <b>Total Input Power, maximum</b> | 900 W @ 50 °C                   |

## Remote Electrical Tilt (RET) Information, Electrical

|   |                            |
|---|----------------------------|
| <b>Protocol</b>                               | 3GPP/AISG 2.0 (Single RET) |
| <b>Power Consumption, idle state, maximum</b> | 2 W                        |

# NHH-65B-R2B

|   |                              |
|---|------------------------------|
| Power Consumption, normal conditions, maximum | 13 W                         |
| Input Voltage                                 | 10–30 Vdc                    |
| Internal Bias Tee                             | Port 1   Port 3              |
| Internal RET                                  | High band (1)   Low band (1) |

## Electrical Specifications

| Frequency Band, MHz                           | 698–806    | 806–896    | 1695–1880  | 1850–1990  | 1920–2200  | 2300–2360  |
|---|------------|------------|------------|------------|------------|------------|
| Gain, dBi                                     | 14.9       | 15         | 17.7       | 17.9       | 18.4       | 18.7       |
| Beamwidth, Horizontal, degrees                | 65         | 60         | 71         | 69         | 64         | 57         |
| Beamwidth, Vertical, degrees                  | 12.4       | 11.2       | 5.7        | 5.2        | 4.9        | 4.6        |
| Beam Tilt, degrees                            | 0–14       | 0–14       | 0–7        | 0–7        | 0–7        | 0–7        |
| USLS (First Lobe), dB                         | 13         | 14         | 18         | 18         | 19         | 18         |
| Front-to-Back Ratio at 180°, dB               | 30         | 29         | 31         | 30         | 29         | 31         |
| Isolation, Cross Polarization, dB             | 25         | 25         | 25         | 25         | 25         | 25         |
| Isolation, Inter-band, dB                     | 30         | 30         | 30         | 30         | 30         | 30         |
| VSWR   Return loss, dB                        | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc                 | -153       | -153       | -153       | -153       | -153       | -153       |
| Input Power per Port at 50° C, maximum, watts | 300        | 300        | 300        | 300        | 300        | 300        |

## Electrical Specifications, BASTA

| Frequency Band, MHz                         | 698–806                              | 806–896                              | 1695–1880                           | 1850–1990                           | 1920–2200                           | 2300–2360                           |
|---|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Gain by all Beam Tilts, average, dBi        | 14.5                                 | 14.5                                 | 17.3                                | 17.7                                | 18.1                                | 18.5                                |
| Gain by all Beam Tilts Tolerance, dB        | ±0.6                                 | ±1.1                                 | ±0.4                                | ±0.4                                | ±0.5                                | ±0.3                                |
| Gain by Beam Tilt, average, dBi             | 0°   14.4<br>7°   14.6<br>14°   14.3 | 0°   14.7<br>7°   14.7<br>14°   14.1 | 0°   17.2<br>4°   17.3<br>7°   17.3 | 0°   17.6<br>4°   17.7<br>7°   17.7 | 0°   18.0<br>4°   18.2<br>7°   18.1 | 0°   18.3<br>4°   18.5<br>7°   18.6 |
| Beamwidth, Horizontal Tolerance, degrees    | ±2                                   | ±2.1                                 | ±3                                  | ±4.1                                | ±6.5                                | ±2.9                                |
| Beamwidth, Vertical Tolerance, degrees      | ±0.7                                 | ±0.7                                 | ±0.3                                | ±0.2                                | ±0.3                                | ±0.2                                |
| USLS, beampeak to 20° above beampeak, dB    | 13                                   | 14                                   | 16                                  | 16                                  | 17                                  | 15                                  |
| Front-to-Back Total Power at 180° ± 30°, dB | 23                                   | 22                                   | 27                                  | 27                                  | 25                                  | 25                                  |
| CPR at Boresight, dB                        | 22                                   | 21                                   | 23                                  | 23                                  | 22                                  | 19                                  |

# NHH-65B-R2B

CPR at Sector, dB                      10                      7                      16                      13                      11                      4

## Mechanical Specifications

|  |   |
|--|---|
| <b>Wind Loading at Velocity, frontal</b> | 278.0 N @ 150 km/h   63.6 lbf @ 150 km/h  |
| <b>Wind Loading at Velocity, lateral</b> | 230.0 N @ 150 km/h   51.7 lbf @ 150 km/h  |
| <b>Wind Loading at Velocity, maximum</b> | 120.7 lbf @ 150 km/h   537.0 N @ 150 km/h |
| <b>Wind Speed, maximum</b>               | 241 km/h   149.75 mph                     |

## Packaging and Weights

|   |                     |
|---|---------------------|
| <b>Width, packed</b>                    | 409 mm   16.102 in  |
| <b>Depth, packed</b>                    | 299 mm   11.772 in  |
| <b>Length, packed</b>                   | 1952 mm   76.85 in  |
| <b>Net Weight, without mounting kit</b> | 19.8 kg   43.651 lb |
| <b>Weight, gross</b>                    | 32.3 kg   71.209 lb |

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| CHINA-ROHS    | Below maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system   |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |



## Included Products

BSAMNT-3 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

## \* Footnotes

**Performance Note**                      Severe environmental conditions may degrade optimum performance

# **ATTACHMENT 3**

|                                      | General    | Power        | Density    |                |                  |                   |              |               |
|--------------------------------------|------------|--------------|------------|----------------|------------------|-------------------|--------------|---------------|
| <b>Site Name: Montville</b>          |            |              |            |                |                  |                   |              |               |
| <b>Tower Height: Verizon @ 305ft</b> |            |              |            |                |                  |                   |              |               |
| CARRIER                              | # OF CHAN. | WATTS ERP    | HEIGHT     | FREQ.          | CALC. POWER DENS | MAX. PERMISS.EXP. | FRACTION MPE | Total         |
| *T-Mobile                            | 4          | 6747         | 230        | 2100           | 0.193427709      | 1                 | 1.93%        |               |
| *T-Mobile                            | 4          | 6747         | 230        | 1900           | 0.193427709      | 1                 | 1.93%        |               |
| *T-Mobile                            | 1          | 633          | 230        | 1900           | 0.004536822      | 1                 | 0.05%        |               |
| *T-Mobile                            | 4          | 5562         | 230        | 700            | 0.159455302      | 0.466666667       | 3.42%        |               |
| *T-Mobile                            | 2          | 1578         | 230        | 600            | 0.022619603      | 0.4               | 0.57%        |               |
| *T-Mobile                            | 2          | 1578         | 230        | 600            | 0.022619603      | 0.4               | 0.57%        |               |
| *T-Mobile                            | 1          | 982          | 230        | 2500           | 0.007038166      | 1                 | 0.07%        |               |
| *T-Mobile                            | 1          | 982          | 230        | 2500           | 0.007038166      | 1                 | 0.07%        |               |
| *T-Mobile                            | 1          | 15461        | 230        | 2500           | 0.110811687      | 1                 | 1.11%        |               |
| *T-Mobile                            | 1          | 15461        | 230        | 2500           | 0.110811687      | 1                 | 1.11%        |               |
| *AT&T-GSM                            | 1          | 268          | 240        | 850            | 0.00176014       | 0.566666667       | 0.03%        |               |
| *AT&T-PCS-UMTS                       | 2          | 1476         | 240        | 700            | 0.019387806      | 0.466666667       | 0.42%        |               |
| *AT&T-PCS-UMTS                       | 1          | 1000         | 240        | 850            | 0.006567685      | 0.566666667       | 0.12%        |               |
| *AT&T-UMTS                           | 1          | 1000         | 240        | 850            | 0.0066           | 0.566666667       | 0.12%        |               |
| *AT&T-PCS-LTE                        | 2          | 3664         | 240        | 1900           | 0.0481           | 1                 | 0.48%        |               |
| *AT&T-LTE                            | 2          | 3837         | 240        | 2100           | 0.0504           | 1                 | 0.50%        |               |
| <b>VZW 700</b>                       | <b>4</b>   | <b>679</b>   | <b>305</b> | <b>751</b>     | <b>0.0010</b>    | <b>0.5007</b>     | <b>0.21%</b> |               |
| <b>VZW Cellular</b>                  | <b>4</b>   | <b>689</b>   | <b>305</b> | <b>874</b>     | <b>0.0011</b>    | <b>0.5827</b>     | <b>0.18%</b> |               |
| <b>VZW PCS</b>                       | <b>4</b>   | <b>1466</b>  | <b>305</b> | <b>1975</b>    | <b>0.0023</b>    | <b>1.0000</b>     | <b>0.23%</b> |               |
| <b>VZW AWS</b>                       | <b>4</b>   | <b>1626</b>  | <b>305</b> | <b>2120</b>    | <b>0.0025</b>    | <b>1.0000</b>     | <b>0.25%</b> |               |
| <b>VZW CBAND</b>                     | <b>2</b>   | <b>21627</b> | <b>305</b> | <b>3730.08</b> | <b>0.0167</b>    | <b>1.0000</b>     | <b>1.67%</b> |               |
|                                      |            |              |            |                |                  |                   |              | <b>15.02%</b> |
| * Source: Siting Council             |            |              |            |                |                  |                   |              |               |



# **ATTACHMENT 4**

**(REVISED)**  
**STRUCTURAL ANALYSIS REPORT**

For

**SITE NAME: MONTVILLE CT**

695 Old Colchester Road  
Uncasville, CT 06382

**Antennas Mounted on the Guyed Tower**



Prepared for:

**verizon**<sup>v</sup>

20 Alexander Drive  
Wallingford CT 06492

Dated: December 6, 2021 (Rev. 1)  
October 8, 2021

Prepared by:



**HUDSON**  
Design Group LLC

45 Beechwood Drive  
North Andover, MA 01845  
(P) 978.557.5553 (F) 978.336.5586  
[www.hudsondesigngroupllc.com](http://www.hudsondesigngroupllc.com)



### **SCOPE OF WORK:**

Hudson Design Group, LLC (HDG) has been authorized by Verizon to conduct a structural evaluation of the 372' guyed tower supporting the proposed Verizon's antennas located at elevation 305' above the ground level.

This report represents this office's findings, conclusions and recommendations pertaining to the support of Verizon's existing and proposed antennas listed below.

Record drawings of the existing tower were not available for our use. The following documents were used for our references:

- Geotechnical Evaluation prepared by Terracon Consulting Engineering & Scientists dated November 26, 2008.
- Structural Analysis Report prepared by URS Corporation dated December 5, 2012.
- Tower Mapping Report provided by ProVertic LLC, dated September 28, 2021.
- Mount Structural Report by Maser Consulting – Connecticut – dated October 18, 2021.

### **CONCLUSION SUMMARY:**

Based on our evaluation, we have determined that the existing tower **is in conformance** with the ANSI/TIA-222-H Standard for the loading considered under the criteria listed in this report. The tower structure is rated at 97.6 % - (Leg at Tower Section T9 from EL.253' to EL.278' Controlling).

### **TOWER FOUNDATION SUMMARY:**

Based on our evaluation, we have determined that the existing tower foundation and guy anchor foundation **is in conformance** with the ANSI/TIA-222-H Standard for the loading considered under the criteria listed in this report. The tower foundation is rated at 99.1 % - (Bearing Controlling).



**APPURTENANCES CONFIGURATION:**

| Tenant  | Appurtenances   | Elev. | Mount           |
|---------|---|-------|-----------------|
|         | (1) Search Antenna                                    | 377'  | Tower Leg       |
|         | (1) Lightning Rod                                     | 374'  | Tower Leg       |
|         | (1) Flash Beacon                                      | 372'  | Tower Leg       |
|         | (1) Antenna Mount Pipe                                | 354'  | Stand-off Mount |
|         | (2) 8' Wire Frame Dish Antenna                        | 321'  | Tower Leg       |
| Verizon | (2) Junction Boxes                                    | 311'  | Tower Leg       |
| Verizon | (3) LNX-6514DS-A1M Antennas                           | 305'  | Sector Frame    |
| Verizon | <b>(6) NHH-65B-R2B Antennas</b>                       | 305'  | Sector Frame    |
| Verizon | <b>(3) MT6407-77A Antenna w/<br/>MT6407-77A RRH's</b> | 305'  | Sector Frame    |
| Verizon | <b>(3) RF4439d-25A RRH's</b>                          | 305'  | Sector Frame    |
| Verizon | <b>(3) RF4440d-13A RRH's</b>                          | 305'  | Sector Frame    |
|         | (3) Flash Beacon                                      | 283'  | Tower Leg       |
|         | (1) 20' Dipole Antenna                                | 267'  | Stand-off Mount |
|         | (1) Antenna Mount Pipe                                | 255'  | Stand-off Mount |
|         | (3) Surge Arrestors                                   | 252'  | Tower Leg       |
|         | (3) 7770 Antennas                                     | 246'  | Sector Frame    |
|         | (3) 800-10965 Antennas                                | 246'  | Sector Frame    |
|         | (3) 800-10966 Antennas                                | 246'  | Sector Frame    |
|         | (1) HPA-65R-BUU-H6 Antenna                            | 246'  | Sector Frame    |
|         | (2) HPA-65R-BUU-H8 Antennas                           | 246'  | Sector Frame    |
|         | (6) LPG21401 TMA's                                    | 246'  | Sector Frame    |
|         | (3) B2/B66A 8843 RRH's                                | 246'  | Sector Frame    |
|         | (3) B5/B12 4449 RRH's                                 | 246'  | Sector Frame    |
|         | (3) B14 4478 RRH's                                    | 246'  | Sector Frame    |
|         | (1) Antenna Mount Pipe                                | 238'  | Tower Leg       |
|         | (1) Yagi Antenna                                      | 207'  | Tower Leg       |
|         | (1) Yagi Antenna                                      | 204'  | Tower Leg       |
|         | (1) Yagi Antenna                                      | 199'  | Tower Leg       |
|         | (2) Flash Beacon                                      | 195'  | Stand-off Mount |
|         | (1) Yagi Antenna                                      | 152'  | Tower Leg       |
|         | (1) Yagi Antenna                                      | 139'  | Tower Leg       |
|         | (1) Yagi Antenna                                      | 132'  | Tower Leg       |
|         | (1) Yagi Antenna                                      | 126'  | Tower Leg       |
|         | (3) Flash Beacon                                      | 102'  | Tower Leg       |
|         | (4) X-Style antennas                                  | 95'   | Stand-off Mount |
|         | (1) Yagi Antenna                                      | 33'   | Tower Leg       |

**\*Proposed Verizon Appurtenances shown in Bold.**



**VERIZON EXISTING/PROPOSED COAX CABLES:**

| Tenant | Coax Cables                | Elev. | Mount      |
|--------|----------------------------|-------|------------|
|        | (12) 1 5/8" Coaxial Cables | 305'  | Tower Face |
|        | (2) Hybrid Cables          | 305'  | Tower Face |

*\*Proposed Verizon Coax Cables shown in Bold.*

**ANALYSIS RESULTS SUMMARY:**

| Component                   | Max. Stress Ratio | Elev. of Component (ft) | Pass/Fail | Comments           |
|-----------------------------|-------------------|-------------------------|-----------|--------------------|
| <b>Legs</b>                 | <b>97.6%</b>      | 253 – 278               | PASS      | <b>Controlling</b> |
| <b>Diagonals</b>            | 95.0 %            | 165.5 – 178             | PASS      |                    |
| <b>Horizontal</b>           | 41.8 %            | 303 - 328               | PASS      |                    |
| <b>Secondary Horizontal</b> | 6.8 %             | 178 - 203               | PASS      |                    |
| <b>Top Girt</b>             | 28.2 %            | 328 – 334.25            | PASS      |                    |
| <b>Guy Wire</b>             | 67.7 %            | 153 -165.5              | PASS      |                    |
| <b>Torque Arm</b>           | 73.7 %            | 296.75 -303             | PASS      |                    |

**TOWER FOUNDATION RESULTS SUMMARY:**

|                | Stress Ratio  | Pass/Fail | Comments           |
|----------------|---------------|-----------|--------------------|
| <b>Bearing</b> | <b>99.1 %</b> | PASS      | <b>Controlling</b> |
| <b>Sliding</b> | 0.6 %         | PASS      |                    |

**ANCHOR BLOCK FOUNDATION RESULTS SUMMARY:**

|               | Stress Ratio  | Sector  | Pass/Fail | Comments           |
|---------------|---------------|---------|-----------|--------------------|
| <b>Shear</b>  | 15.5 %        | A, B, C | PASS      |                    |
|               | 44.1 %        | A, B, C | PASS      |                    |
|               | 42.6 %        | A, B, C | PASS      |                    |
|               | 30.4 %        | A, B, C | PASS      |                    |
| <b>Uplift</b> | 14.5 %        | A, B, C | PASS      |                    |
|               | 37.7 %        | A, B, C | PASS      |                    |
|               | <b>50.1 %</b> | A, B    | PASS      | <b>Controlling</b> |
|               | 35.4 %        | C       | PASS      |                    |



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Design Group LLC

### **DESIGN CRITERIA:**

1. EIA/TIA-222-H Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

County: New London  
Ultimate Wind Speed: 135 mph (3 second gust)  
Structural Class: II  
Exposure Category: C  
Topographic Category: 1  
Nominal Ice Thickness: 1 inch

2. Approximate height above grade to proposed antennas: 305'

**\*Calculations and referenced documents are attached.**

### **ASSUMPTIONS:**

1. The appurtenances configuration is as stated in this report. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
2. The tower and foundation are properly constructed and maintained. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
3. The support mounts and platforms are not analyzed and are considered adequate to support the loading. The analysis is limited to the primary support structure itself.
4. All prior structural modification, if any, are assumed to be as per data supplied (if available) and installed properly.

### **SUPPORT RECOMMENDATIONS:**

HDG recommends that the proposed antennas and RRHs be mounted on the existing sector frame supported by the guyed tower.



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**Photo 1:** Photo illustrating the Tower with Appurtenances shown.

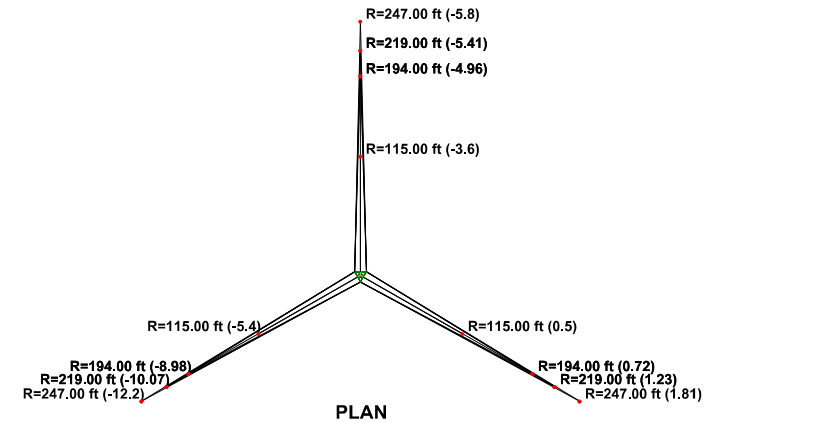
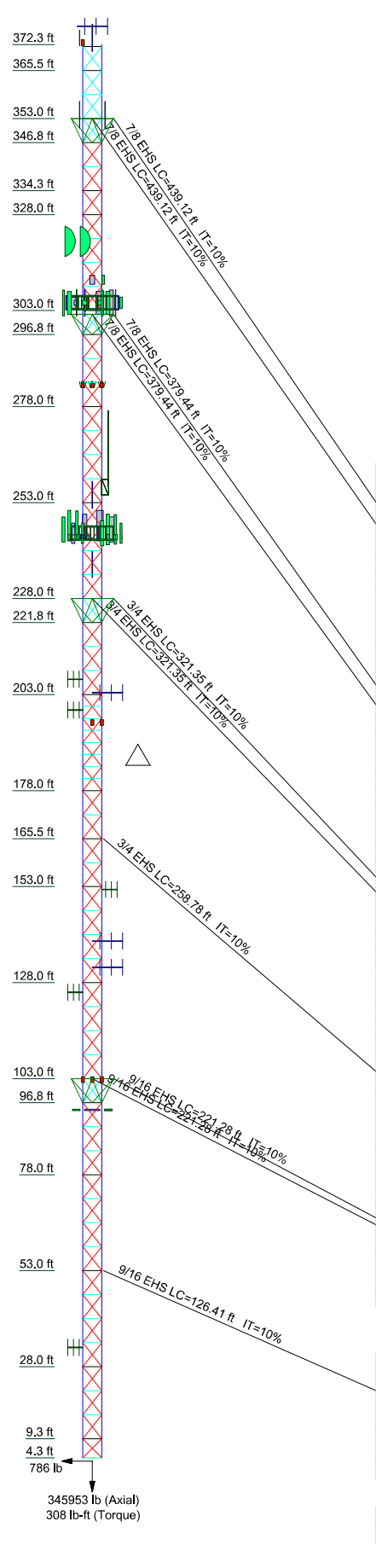


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Design Group LLC

## CALCULATIONS



|                 |                |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
|-----------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|
| Section         | T23            | T22    | T21    | T20    | T19    | T18    | T17    | T16    | T15    | T14    | T13    | T12    | T11    | T10    | T9     | T8     | T7     | T6     | T5    | T4     | T3     | T2     | T1    |
| Legs            | SR 3 1/4       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Leg Grade       | A36            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Diagonals       | SR 5/8         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Diagonal Grade  | A36            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Top Girts       | 2L2 1/2x2x3/16 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Horizontal      | P1.5x.2        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Sec. Horizontal | N.A.           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Face Width (ft) | 5              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| # Panels @ (ft) | 58 @ 6.25      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Weight (lb)     | 43139.3        | 2522.8 | 1874.4 | 2494.6 | 1902.6 | 1880.4 | 2822.9 | 2484.6 | 1282.3 | 1254.2 | 2344.7 | 1902.6 | 1690.4 | 2981.3 | 2494.3 | 2137.2 | 1550.8 | 2807.5 | 620.1 | 1195.9 | 1694.5 | 2186.6 | 712.5 |



**DESIGNED APPURTENANCE LOADING**

| TYPE                               | ELEVATION | TYPE                           | ELEVATION |
|------------------------------------|-----------|--------------------------------|-----------|
| Search Antenna                     | 377       | Powerwave 7770 w/Mounting Pipe | 246       |
| 7'x2" Antenna Mount Pipe           | 377       | HPA-65R-BUU-H6 w/Mounting Pipe | 246       |
| Lightning Rod                      | 374       | HPA-65R-BUU-H8 w/Mounting Pipe | 246       |
| Flash Beacon Light                 | 372       | HPA-65R-BUU-H8 w/Mounting Pipe | 246       |
| 7'x2" Antenna Mount Pipe           | 354       | 800-10966 w/ Mounting Pipe     | 246       |
| 7'x2 1/2" Pipe Mount               | 354       | 800-10966 w/ Mounting Pipe     | 246       |
| 8' Wire Frame Dish Frame           | 321       | 800-10966 w/ Mounting Pipe     | 246       |
| 8' Wire Frame Dish Frame           | 321       | 800-10965 w/ Mounting Pipe     | 246       |
| Junction Box                       | 311       | 800-10965 w/ Mounting Pipe     | 246       |
| Junction Box                       | 311       | 800-10965 w/ Mounting Pipe     | 246       |
| 15'-0" Sector Frame                | 305       | LGP21401 TMA                   | 246       |
| MT6407-77A Antenna w/Mounting Pipe | 305       | LGP21401 TMA                   | 246       |
| MT6407-77A Antenna w/Mounting Pipe | 305       | LGP21401 TMA                   | 246       |
| MT6407-77A Antenna w/Mounting Pipe | 305       | LGP21401 TMA                   | 246       |
| 7'x2" Antenna Mount Pipe           | 305       | LGP21401 TMA                   | 246       |
| 7'x2" Antenna Mount Pipe           | 305       | LGP21401 TMA                   | 246       |
| 7'x2" Antenna Mount Pipe           | 305       | B2/B66A 8843 RRH               | 246       |
| LNx-6514DS-VTM w/Mounting Pipe     | 305       | B2/B66A 8843 RRH               | 246       |
| (2) NHH-65B-R2B w/Mounting Pipe    | 305       | B5/B12 4449 RRH                | 246       |
| (2) NHH-65B-R2B w/Mounting Pipe    | 305       | B5/B12 4449 RRH                | 246       |
| (2) NHH-65B-R2B w/Mounting Pipe    | 305       | B5/B12 4449 RRH                | 246       |
| LNx-6514DS-VTM w/Mounting Pipe     | 305       | B5/B12 4449 RRH                | 246       |
| LNx-6514DS-VTM w/Mounting Pipe     | 305       | B14 4478 RRH                   | 246       |
| RF4439d-25A RRH                    | 305       | B14 4478 RRH                   | 246       |
| RF4439d-25A RRH                    | 305       | B14 4478 RRH                   | 246       |
| RF4439d-25A RRH                    | 305       | Sector Stabilizer Kit SFS-V    | 246       |
| RF4440d-13A RRH                    | 305       | Sector Stabilizer Kit SFS-V    | 246       |
| RF4440d-13A RRH                    | 305       | 7'x2" Antenna Mount Pipe       | 237       |
| RF4440d-13A RRH                    | 305       | 6' Yagi                        | 207       |
| 15'-0" Sector Frame                | 305       | 6' Yagi                        | 203.5     |
| 15'-0" Sector Frame                | 305       | 6' Yagi                        | 199       |
| Flash Beacon Light                 | 283       | Flash Beacon Light             | 195       |
| Flash Beacon Light                 | 283       | Flash Beacon Light             | 195       |
| Flash Beacon Light                 | 283       | 6' Yagi                        | 152.25    |
| 20' Dipole                         | 267       | 6' Yagi                        | 138.8     |
| 1' Side Mount Standoff             | 267       | 6' Yagi                        | 132       |
| 7'x2" Antenna Mount Pipe           | 255       | 6' Yagi                        | 125.5     |
| Surge Arrestor                     | 252       | Flash Beacon Light             | 102       |
| Surge Arrestor                     | 252       | Flash Beacon Light             | 102       |
| Surge Arrestor                     | 252       | Flash Beacon Light             | 102       |
| Sector Stabilizer Kit SFS-V        | 246       | X-Style Antenna                | 95        |
| Pirod 12' T-Frame Sector Mount (1) | 246       | X-Style Antenna                | 95        |
| Pirod 12' T-Frame Sector Mount (1) | 246       | X-Style Antenna                | 95        |
| Pirod 12' T-Frame Sector Mount (1) | 246       | X-Style Antenna                | 95        |
| Powerwave 7770 w/Mounting Pipe     | 246       | 6' Yagi                        | 33        |
| Powerwave 7770 w/Mounting Pipe     | 246       |                                |           |

**SYMBOL LIST**

| MARK | SIZE               | MARK | SIZE           |
|------|--------------------|------|----------------|
| A    | L2 1/2x2 1/2x1/4   | G    | 2L2 1/2x3x1/4  |
| B    | 2L3x3x5/16         | H    | P1.5x.145      |
| C    | 2L3x2 1/2x1/4      | I    | 2L2 1/2x2x3/16 |
| D    | 2L2 1/2x2 1/2x3/16 | J    | N.A.           |
| E    | 2L2 1/2x2 1/2x1/4  | K    | 1 @ 5          |
| F    | 2L2 1/2x2x1/4      |      |                |

**MATERIAL STRENGTH**

| GRADE | Fy     | Fu     | GRADE | Fy | Fu |
|-------|--------|--------|-------|----|----|
| A36   | 36 ksi | 58 ksi |       |    |    |

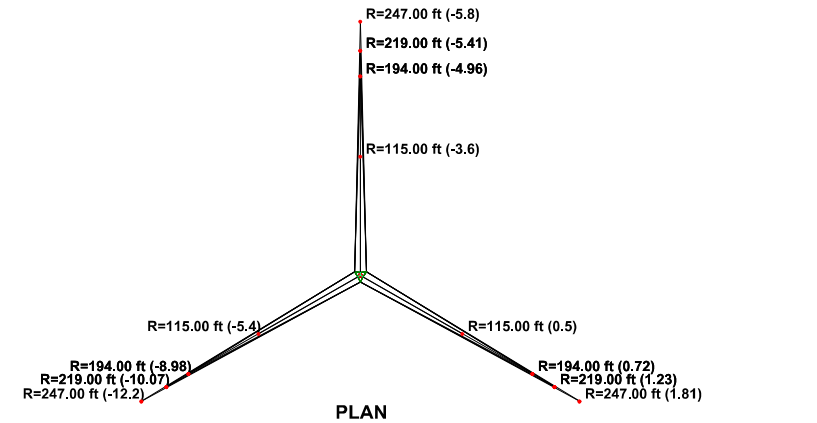
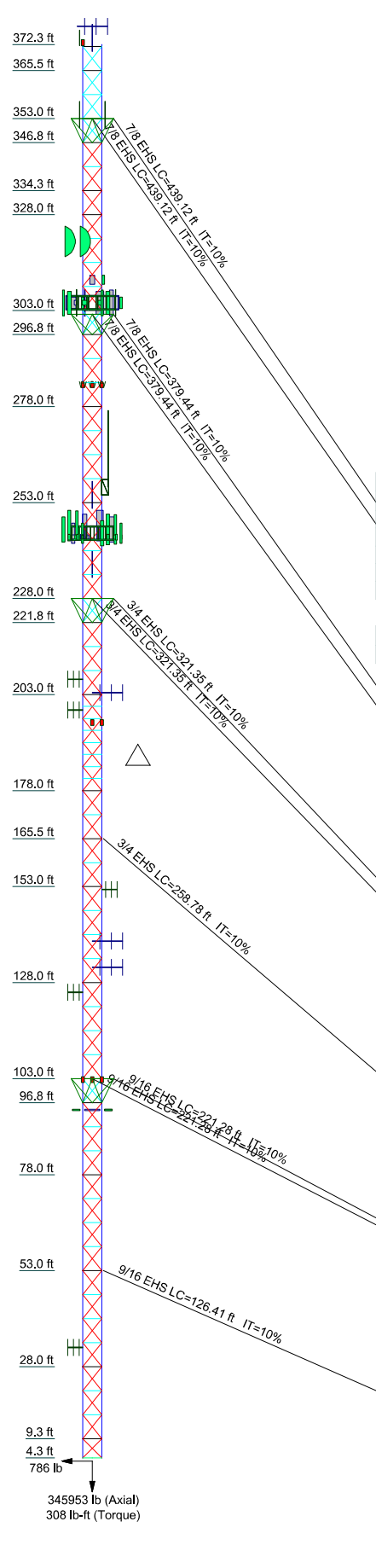
ALL REACTIONS ARE FACTORED

**TOWER DESIGN NOTES**

1. Tower is located in New London County, Connecticut.
2. Tower designed for 50 mph wind speed.

|   |                                     |            |
|---|-------------------------------------|------------|
| <b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | Job: <b>MONTVILLE CT</b>            |            |
|   | Project: <b>372'-3" Guyed Tower</b> |            |
| Client: Verizon   | Drawn by: RL                        | App'd:     |
| Code: TIA-222-H   | Date: 10/13/21                      | Scale: NTS |
| Path:   | Dwg No. E-1                         |            |

|                  |           |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
|------------------|-----------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|
| Section          | T23       | T22   | T21    | T20    | T19    | T18    | T17    | T16    | T15    | T14    | T13    | T12    | T11    | T10    | T9     | T8     | T7     | T6     | T5     | T4    | T3     | T2     | T1     |       |
| Legs             | SR 3 1/4  |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Leg Grade        | A36       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Diagonals        | SR 5/8    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Diagonal Grade   | A36       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Top Girts        | P1.5x2    |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Horizontal       | P1.5x.145 |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Sec. Horizontals | N.A.      |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Face Width (ft)  | 5         |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| # Panels @ (ft)  | K         |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |        |        |       |
| Weight (lb)      | 43139.3   | 322.2 | 1874.4 | 2522.8 | 2494.6 | 1902.6 | 1880.4 | 2822.9 | 2484.6 | 1282.3 | 1254.2 | 2344.7 | 1902.6 | 1690.4 | 2981.3 | 2494.3 | 2137.2 | 1550.8 | 2807.5 | 650.1 | 1195.9 | 1694.5 | 2186.6 | 712.5 |



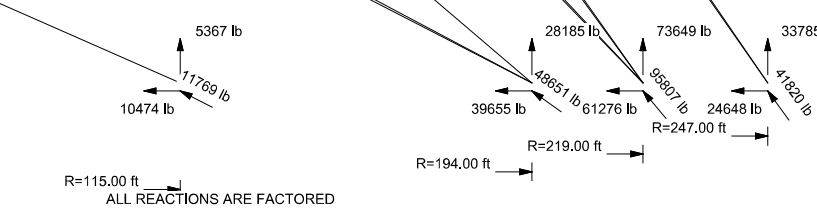
**SYMBOL LIST**

| MARK | SIZE               | MARK | SIZE           |
|------|--------------------|------|----------------|
| A    | L2 1/2x2 1/2x1/4   | G    | 2L2 1/2x3x1/4  |
| B    | 2L3x3x5/16         | H    | P1.5x.145      |
| C    | 2L3x2 1/2x1/4      | I    | 2L2 1/2x2x3/16 |
| D    | 2L2 1/2x2 1/2x3/16 | J    | N.A.           |
| E    | 2L2 1/2x2 1/2x1/4  | K    | 1 @ 5          |
| F    | 2L2 1/2x2x1/4      |      |                |

**MATERIAL STRENGTH**

| GRADE | Fy     | Fu     | GRADE | Fy | Fu |
|-------|--------|--------|-------|----|----|
| A36   | 36 ksi | 58 ksi |       |    |    |

- TOWER DESIGN NOTES**
1. Tower is located in New London County, Connecticut.
  2. Tower designed for Exposure C to the TIA-222-H Standard.
  3. Tower designed for a 135 mph basic wind in accordance with the TIA-222-H Standard.
  4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
  5. Deflections are based upon a 60 mph wind.
  6. Tower Risk Category II.
  7. Topographic Category 1 with Crest Height of 0.00 ft
  8. TOWER RATING: 97.6%



|   |                                     |                       |                    |
|---|-------------------------------------|-----------------------|--------------------|
| <b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | Job: <b>MONTVILLE CT</b>            |                       |                    |
|   | Project: <b>372'-3" Guyed Tower</b> |                       |                    |
|   | Client: <b>Verizon</b>              | Drawn by: <b>RL</b>   | App'd:             |
|   | Code: <b>TIA-222-H</b>              | Date: <b>10/13/21</b> | Scale: <b>NTS</b>  |
|   | Path:                               |                       | Dwg No. <b>E-1</b> |

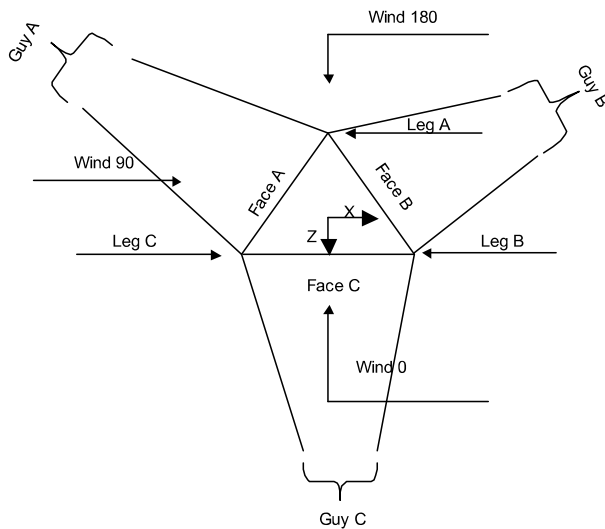
|   |                                       |                                  |
|---|---------------------------------------|----------------------------------|
| <p><b>tnxTower</b></p> <p><b>Hudson Design Group LLC</b><br/> 45 Beechwood Drive<br/> North Andover, MA 01845<br/> Phone: (978) 557-5553<br/> FAX: (978) 336-5586</p> | <b>Job</b><br>MONTVILLE CT            | <b>Page</b><br>1 of 17           |
|   | <b>Project</b><br>372'-3" Guyed Tower | <b>Date</b><br>12:09:29 10/13/21 |
|   | <b>Client</b><br>Verizon              | <b>Designed by</b><br>RL         |

**Tower Input Data**

The main tower is a 3x guyed tower with an overall height of 372.25 ft above the ground line.  
The base of the tower is set at an elevation of 4.25 ft above the ground line.  
The face width of the tower is 5.00 ft at the top and 5.00 ft at the base.  
This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in New London County, Connecticut.
- Tower base elevation above sea level: 4.25 ft.
- Basic wind speed of 135 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- Tension only take-up is 0.0313 in.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Safety factor used in guy design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.



Face Guyed

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 2 of 17           |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

### Tower Section Geometry

| Tower Section | Tower Elevation | Assembly Database | Description | Section Width | Number of Sections | Section Length |
|---------------|-----------------|-------------------|-------------|---------------|--------------------|----------------|
|               | ft              |                   |             | ft            |                    | ft             |
| T1            | 372.25-365.50   |                   |             | 5.00          | 1                  | 6.75           |
| T2            | 365.50-353.00   |                   |             | 5.00          | 1                  | 12.50          |
| T3            | 353.00-346.75   |                   |             | 5.00          | 1                  | 6.25           |
| T4            | 346.75-334.25   |                   |             | 5.00          | 1                  | 12.50          |
| T5            | 334.25-328.00   |                   |             | 5.00          | 1                  | 6.25           |
| T6            | 328.00-303.00   |                   |             | 5.00          | 1                  | 25.00          |
| T7            | 303.00-296.75   |                   |             | 5.00          | 1                  | 6.25           |
| T8            | 296.75-278.00   |                   |             | 5.00          | 1                  | 18.75          |
| T9            | 278.00-253.00   |                   |             | 5.00          | 1                  | 25.00          |
| T10           | 253.00-228.00   |                   |             | 5.00          | 1                  | 25.00          |
| T11           | 228.00-221.75   |                   |             | 5.00          | 1                  | 6.25           |
| T12           | 221.75-203.00   |                   |             | 5.00          | 1                  | 18.75          |
| T13           | 203.00-178.00   |                   |             | 5.00          | 1                  | 25.00          |
| T14           | 178.00-165.50   |                   |             | 5.00          | 1                  | 12.50          |
| T15           | 165.50-153.00   |                   |             | 5.00          | 1                  | 12.50          |
| T16           | 153.00-128.00   |                   |             | 5.00          | 1                  | 25.00          |
| T17           | 128.00-103.00   |                   |             | 5.00          | 1                  | 25.00          |
| T18           | 103.00-96.75    |                   |             | 5.00          | 1                  | 6.25           |
| T19           | 96.75-78.00     |                   |             | 5.00          | 1                  | 18.75          |
| T20           | 78.00-53.00     |                   |             | 5.00          | 1                  | 25.00          |
| T21           | 53.00-28.00     |                   |             | 5.00          | 1                  | 25.00          |
| T22           | 28.00-9.25      |                   |             | 5.00          | 1                  | 18.75          |
| T23           | 9.25-4.25       |                   |             | 5.00          | 1                  | 5.00           |

### Tower Section Geometry (cont'd)

| Tower Section | Tower Elevation | Diagonal Spacing | Bracing Type | Has K Brace End Panels | Has Horizontals | Top Girt Offset | Bottom Girt Offset |
|---------------|-----------------|------------------|--------------|------------------------|-----------------|-----------------|--------------------|
|               | ft              | ft               |              |                        |                 | in              | in                 |
| T1            | 372.25-365.50   | 6.25             | X Brace      | No                     | No              | 6.0000          | 0.0000             |
| T2            | 365.50-353.00   | 6.25             | X Brace      | No                     | Yes             | 0.0000          | 0.0000             |
| T3            | 353.00-346.75   | 6.25             | X Brace      | No                     | No              | 0.0000          | 0.0000             |
| T4            | 346.75-334.25   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T5            | 334.25-328.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T6            | 328.00-303.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T7            | 303.00-296.75   | 6.25             | X Brace      | No                     | No              | 0.0000          | 0.0000             |
| T8            | 296.75-278.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T9            | 278.00-253.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T10           | 253.00-228.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T11           | 228.00-221.75   | 6.25             | X Brace      | No                     | No              | 0.0000          | 0.0000             |
| T12           | 221.75-203.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T13           | 203.00-178.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T14           | 178.00-165.50   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T15           | 165.50-153.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T16           | 153.00-128.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T17           | 128.00-103.00   | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T18           | 103.00-96.75    | 6.25             | X Brace      | No                     | No              | 0.0000          | 0.0000             |
| T19           | 96.75-78.00     | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T20           | 78.00-53.00     | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T21           | 53.00-28.00     | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |
| T22           | 28.00-9.25      | 6.25             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 3 of 17           |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

| Tower Section | Tower Elevation | Diagonal Spacing | Bracing Type | Has K Brace End Panels | Has Horizontals | Top Girt Offset | Bottom Girt Offset |
|---------------|-----------------|------------------|--------------|------------------------|-----------------|-----------------|--------------------|
|               | ft              | ft               |              | No                     | Yes             | in              | in                 |
| T23           | 9.25-4.25       | 5.00             | TX Brace     | No                     | Yes             | 0.0000          | 0.0000             |

### Tower Section Geometry (cont'd)

| Tower Elevation   | Leg Type    | Leg Size | Leg Grade       | Diagonal Type | Diagonal Size      | Diagonal Grade  |
|-------------------|-------------|----------|-----------------|---------------|--------------------|-----------------|
| ft                |             |          |                 |               |                    |                 |
| T1 372.25-365.50  | Solid Round | 2 3/4    | A36<br>(36 ksi) | Single Angle  | L2 1/2x2 1/2x1/4   | A36<br>(36 ksi) |
| T2 365.50-353.00  | Solid Round | 2 3/4    | A36<br>(36 ksi) | Double Angle  | 2L3x3x5/16         | A36<br>(36 ksi) |
| T3 353.00-346.75  | Solid Round | 3        | A36<br>(36 ksi) | Double Angle  | 2L3x2 1/2x1/4      | A36<br>(36 ksi) |
| T4 346.75-334.25  | Solid Round | 3        | A36<br>(36 ksi) | Solid Round   | 3/4                | A36<br>(36 ksi) |
| T5 334.25-328.00  | Solid Round | 3        | A36<br>(36 ksi) | Solid Round   | 1                  | A36<br>(36 ksi) |
| T6 328.00-303.00  | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 1                  | A36<br>(36 ksi) |
| T7 303.00-296.75  | Solid Round | 3 1/4    | A36<br>(36 ksi) | Double Angle  | 2L2 1/2x2 1/2x3/16 | A36<br>(36 ksi) |
| T8 296.75-278.00  | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 1                  | A36<br>(36 ksi) |
| T9 278.00-253.00  | Solid Round | 3        | A36<br>(36 ksi) | Solid Round   | 1                  | A36<br>(36 ksi) |
| T10 253.00-228.00 | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 1                  | A36<br>(36 ksi) |
| T11 228.00-221.75 | Solid Round | 3 1/4    | A36<br>(36 ksi) | Double Angle  | 2L2 1/2x2 1/2x1/4  | A36<br>(36 ksi) |
| T12 221.75-203.00 | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T13 203.00-178.00 | Solid Round | 3        | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T14 178.00-165.50 | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T15 165.50-153.00 | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T16 153.00-128.00 | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T17 128.00-103.00 | Solid Round | 3 1/4    | A36<br>(36 ksi) | Single Angle  | L2 1/2x2x3/16      | A36<br>(36 ksi) |
| T18 103.00-96.75  | Solid Round | 3 1/4    | A36<br>(36 ksi) | Double Angle  | 2L2 1/2x2 1/2x1/4  | A36<br>(36 ksi) |
| T19 96.75-78.00   | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T20 78.00-53.00   | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T21 53.00-28.00   | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T22 28.00-9.25    | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |
| T23 9.25-4.25     | Solid Round | 3 1/4    | A36<br>(36 ksi) | Solid Round   | 5/8                | A36<br>(36 ksi) |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 4 of 17           |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

### Tower Section Geometry (cont'd)

| Tower Elevation<br>ft | Top Girt Type | Top Girt Size  | Top Girt Grade      | Bottom Girt Type | Bottom Girt Size | Bottom Girt Grade |
|-----------------------|---------------|----------------|---------------------|------------------|------------------|-------------------|
| T1 372.25-365.50      | Double Angle  | 2L2 1/2x2x1/4  | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T2 365.50-353.00      | Double Angle  | 2L2 1/2x3x1/4  | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T3 353.00-346.75      | Double Angle  | 2L2 1/2x3x1/4  | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T4 346.75-334.25      | Double Angle  | 2L2 1/2x2x1/4  | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T5 334.25-328.00      | Pipe          | P1.5x.145      | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T6 328.00-303.00      | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T7 303.00-296.75      | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T8 296.75-278.00      | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T9 278.00-253.00      | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T10 253.00-228.00     | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T11 228.00-221.75     | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T12 221.75-203.00     | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T13 203.00-178.00     | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T14 178.00-165.50     | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T15 165.50-153.00     | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T16 153.00-128.00     | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T17 128.00-103.00     | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T18 103.00-96.75      | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T19 96.75-78.00       | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T20 78.00-53.00       | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T21 53.00-28.00       | Double Angle  | 2L2 1/2x2x3/16 | A36<br>(36 ksi)     | Solid Round      |                  | A36<br>(36 ksi)   |
| T22 28.00-9.25        | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |
| T23 9.25-4.25         | Pipe          | P1.5x.2        | A572-50<br>(50 ksi) | Solid Round      |                  | A36<br>(36 ksi)   |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 5 of 17           |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

### Tower Section Geometry (cont'd)

| Tower Elevation<br><i>ft</i> | No. of Mid Girts | Mid Girt Type | Mid Girt Size | Mid Girt Grade      | Horizontal Type | Horizontal Size | Horizontal Grade    |
|------------------------------|------------------|---------------|---------------|---------------------|-----------------|-----------------|---------------------|
| T2 365.50-353.00             | None             | Single Angle  |               | A36<br>(36 ksi)     | Double Angle    | 2L2 1/2x3x1/4   | A36<br>(36 ksi)     |
| T4 346.75-334.25             | None             | Single Angle  |               | A572-50<br>(50 ksi) | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T5 334.25-328.00             | None             | Single Angle  |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T6 328.00-303.00             | None             | Single Angle  |               | A572-50<br>(50 ksi) | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T8 296.75-278.00             | None             | Single Angle  |               | A572-50<br>(50 ksi) | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T9 278.00-253.00             | None             | Single Angle  |               | A572-50<br>(50 ksi) | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T10 253.00-228.00            | None             | Solid Round   |               | A36<br>(36 ksi)     | Double Angle    | 2L2x2 1/2x3/16  | A36<br>(36 ksi)     |
| T12 221.75-203.00            | None             | Single Angle  |               | A572-50<br>(50 ksi) | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T13 203.00-178.00            | None             | Single Angle  |               | A572-50<br>(50 ksi) | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T14 178.00-165.50            | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T15 165.50-153.00            | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T16 153.00-128.00            | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T17 128.00-103.00            | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T19 96.75-78.00              | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T20 78.00-53.00              | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T21 53.00-28.00              | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T22 28.00-9.25               | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | P1.5x.145       | A572-50<br>(50 ksi) |
| T23 9.25-4.25                | None             | Solid Round   |               | A36<br>(36 ksi)     | Pipe            | TS 1.25x 14 GA  | A572-50<br>(50 ksi) |

### Tower Section Geometry (cont'd)

| Tower Elevation<br><i>ft</i> | Secondary Horizontal Type | Secondary Horizontal Size | Secondary Horizontal Grade | Inner Bracing Type | Inner Bracing Size | Inner Bracing Grade |
|------------------------------|---------------------------|---------------------------|----------------------------|--------------------|--------------------|---------------------|
| T13 203.00-178.00            | Pipe                      | P1.5x.145                 | A572-50<br>(50 ksi)        | Solid Round        |                    | A572-50<br>(50 ksi) |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 6 of 17           |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

### Guy Data

| Guy Elevation | Guy Grade | Guy Size | Initial Tension | %   | Guy Modulus | Guy Weight | $L_u$  | Anchor Radius | Anchor Azimuth Adj. | Anchor Elevation | End Fitting Efficiency |
|---------------|-----------|----------|-----------------|-----|-------------|------------|--------|---------------|---------------------|------------------|------------------------|
| ft            |           |          | lb              |     | ksi         | plf        | ft     | ft            | °                   | ft               | %                      |
| 353           | EHS       | A 7/8    | 7970.00         | 10% | 19000       | 1.581      | 433.44 | 247.00        | 0.0000              | -5.80            | 100%                   |
|               |           | B 7/8    | 7970.00         | 10% | 19000       | 1.581      | 427.18 | 247.00        | 0.0000              | 1.81             | 100%                   |
|               |           | C 7/8    | 7970.00         | 10% | 19000       | 1.581      | 438.75 | 247.00        | 0.0000              | -12.20           | 100%                   |
| 302           | EHS       | A 7/8    | 7970.00         | 10% | 19000       | 1.581      | 375.29 | 219.00        | 0.0000              | -5.41            | 100%                   |
|               |           | B 7/8    | 7970.00         | 10% | 19000       | 1.581      | 369.89 | 219.00        | 0.0000              | 1.23             | 100%                   |
|               |           | C 7/8    | 7970.00         | 10% | 19000       | 1.581      | 379.11 | 219.00        | 0.0000              | -10.07           | 100%                   |
| 228           | EHS       | A 3/4    | 5830.00         | 10% | 19000       | 1.155      | 317.64 | 219.00        | 0.0000              | -5.41            | 100%                   |
|               |           | B 3/4    | 5830.00         | 10% | 19000       | 1.155      | 312.80 | 219.00        | 0.0000              | 1.23             | 100%                   |
|               |           | C 3/4    | 5830.00         | 10% | 19000       | 1.155      | 321.08 | 219.00        | 0.0000              | -10.07           | 100%                   |
| 165.5         | EHS       | A 3/4    | 5830.00         | 10% | 19000       | 1.155      | 255.86 | 194.00        | 0.0000              | -4.96            | 100%                   |
|               |           | B 3/4    | 5830.00         | 10% | 19000       | 1.155      | 252.12 | 194.00        | 0.0000              | 0.72             | 100%                   |
|               |           | C 3/4    | 5830.00         | 10% | 19000       | 1.155      | 258.56 | 194.00        | 0.0000              | -8.98            | 100%                   |
| 103           | EHS       | A 9/16   | 3500.00         | 10% | 21000       | 0.671      | 219.10 | 194.00        | 0.0000              | -4.96            | 100%                   |
|               |           | B 9/16   | 3500.00         | 10% | 21000       | 0.671      | 216.36 | 194.00        | 0.0000              | 0.72             | 100%                   |
|               |           | C 9/16   | 3500.00         | 10% | 21000       | 0.671      | 221.10 | 194.00        | 0.0000              | -8.98            | 100%                   |
| 53            | EHS       | A 9/16   | 3500.00         | 10% | 21000       | 0.671      | 125.48 | 115.00        | 0.0000              | -3.60            | 100%                   |
|               |           | B 9/16   | 3500.00         | 10% | 21000       | 0.671      | 123.69 | 115.00        | 0.0000              | 0.50             | 100%                   |
|               |           | C 9/16   | 3500.00         | 10% | 21000       | 0.671      | 126.31 | 115.00        | 0.0000              | -5.40            | 100%                   |

### Guy Data(cont'd)

| Guy Elevation | Mount Type | Torque-Arm Spread | Torque-Arm Leg Angle | Torque-Arm Style | Torque-Arm Grade | Torque-Arm Type | Torque-Arm Size   |
|---------------|------------|-------------------|----------------------|------------------|------------------|-----------------|-------------------|
| ft            |            | ft                | °                    |                  |                  |                 |                   |
| 353           | Torque Arm | 11.17             | 47.0000              | Bat Ear          | A36<br>(36 ksi)  | Double Angle    | 2L2 1/2x2 1/2x1/4 |
| 302           | Torque Arm | 11.17             | 47.0000              | Bat Ear          | A36<br>(36 ksi)  | Double Angle    | 2L2 1/2x2 1/2x1/4 |
| 228           | Torque Arm | 11.17             | 47.0000              | Bat Ear          | A36<br>(36 ksi)  | Double Angle    | 2L2 1/2x2 1/2x1/4 |
| 165.5         | Corner     |                   |                      |                  |                  |                 |                   |
| 103           | Torque Arm | 11.17             | 47.0000              | Bat Ear          | A36<br>(36 ksi)  | Double Angle    | 2L2 1/2x2 1/2x1/4 |
| 53            | Corner     |                   |                      |                  |                  |                 |                   |

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

| Description     | Face or Shield Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement     | Total Number | Number Per Row | Clear Spacing    | Width or Diameter | Perimeter | Weight |
|-----------------|--------------------|--------------|---------------------------------|----------------|---------------|--------------|----------------|------------------|-------------------|-----------|--------|
|                 |                    |              |                                 |                | ft            |              |                | in               | in                | in        | plf    |
| 1/2 Cable       | A                  | No           | Yes                             | Ar (CaAa)      | 372.00 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.5000            |           | 0.25   |
| 7/8" Cable      | B                  | No           | Yes                             | Ar (CaAa)      | 325.00 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.9500            |           | 0.30   |
| *****           |                    |              |                                 |                |               |              |                |                  |                   |           |        |
| 1 5/8 Coax Line | A                  | No           | Yes                             | Ar (CaAa)      | 305.00 - 8.00 | 4            | 4              | 0.2500<br>0.5000 | 1.6250            |           | 1.04   |
| Hybrid Cable    | A                  | No           | Yes                             | Ar (CaAa)      | 305.00 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 1.2500            |           | 2.35   |
| 1 5/8 Coax Line | B                  | No           | Yes                             | Ar (CaAa)      | 305.00 - 8.00 | 4            | 4              | 0.2500           | 1.6250            |           | 1.04   |



|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 7 of 17           |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

| Description         | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft  | Total Number | Number Per Row | Clear Spacing in | Width or Diameter in | Perimeter in | Weight plf |
|---------------------|-------------|--------------|---------------------------------|----------------|---------------|--------------|----------------|------------------|----------------------|--------------|------------|
| Hybrid Cable        | B           | No           | Yes                             | Ar (CaAa)      | 305.00 - 8.00 | 1            | 1              | 0.5000<br>0.2500 | 1.2500               |              | 2.35       |
| 1 5/8 Coax Line     | C           | No           | Yes                             | Ar (CaAa)      | 305.00 - 8.00 | 4            | 4              | 0.2500<br>0.5000 | 1.6250               |              | 1.04       |
| *****<br>7/8" Cable | B           | No           | Yes                             | Ar (CaAa)      | 253.00 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.9500               |              | 0.30       |
| *****<br>Fiber      | A           | No           | Yes                             | Ar (CaAa)      | 252.00 - 8.00 | 2            | 2              | 0.2500<br>0.5000 | 1.2500               |              | 0.25       |
| DC Cable            | A           | No           | Yes                             | Ar (CaAa)      | 252.00 - 8.00 | 4            | 4              | 0.2500<br>0.5000 | 0.9570               |              | 0.25       |
| Fiber               | B           | No           | Yes                             | Ar (CaAa)      | 252.00 - 8.00 | 2            | 2              | 0.2500<br>0.5000 | 1.2500               |              | 0.25       |
| DC Cable            | B           | No           | Yes                             | Ar (CaAa)      | 252.00 - 8.00 | 4            | 4              | 0.2500<br>0.5000 | 0.9570               |              | 0.25       |
| Fiber               | C           | No           | Yes                             | Ar (CaAa)      | 252.00 - 8.00 | 2            | 2              | 0.2500<br>0.5000 | 1.2500               |              | 0.25       |
| DC Cable            | C           | No           | Yes                             | Ar (CaAa)      | 252.00 - 8.00 | 4            | 4              | 0.2500<br>0.5000 | 0.9570               |              | 0.25       |
| *****<br>7/8" Cable | B           | No           | Yes                             | Ar (CaAa)      | 207.00 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.9500               |              | 0.30       |
| 7/8" Cable          | A           | No           | Yes                             | Ar (CaAa)      | 203.50 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.9500               |              | 0.30       |
| 1/2 Cable           | B           | No           | Yes                             | Ar (CaAa)      | 199.00 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.5000               |              | 0.25       |
| 1/2 Cable           | B           | No           | Yes                             | Ar (CaAa)      | 152.25 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.5000               |              | 0.25       |
| 1/2 Cable           | A           | No           | Yes                             | Ar (CaAa)      | 138.83 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.5000               |              | 0.25       |
| 7/8" Cable          | C           | No           | Yes                             | Ar (CaAa)      | 132.00 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.9500               |              | 0.30       |
| 1/4 Cable           | C           | No           | Yes                             | Ar (CaAa)      | 125.50 - 8.00 | 1            | 1              | 0.2500<br>0.5000 | 0.2500               |              | 0.60       |
| 1/4 Cable           | B           | No           | Yes                             | Ar (CaAa)      | 90.00 - 8.00  | 4            | 4              | 0.2500<br>0.5000 | 0.2500               |              | 0.60       |

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

| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type     | Placement ft  | Total Number |          | C <sub>A</sub> A <sub>A</sub> ft <sup>2</sup> /ft | Weight plf |
|-------------|-------------|--------------|---------------------------------|--------------------|---------------|--------------|----------|---|------------|
| SO Cord     | C           | No           | Yes                             | CaAa (Out Of Face) | 372.00 - 8.00 | 1            | No Ice   | 0.07  | 0.50       |
|             |             |              |                                 |                    |               |              | 1/2" Ice | 0.17  | 1.02       |
|             |             |              |                                 |                    |               |              | 1" Ice   | 0.27  | 1.88       |
| SO Cord     | B           | No           | Yes                             | CaAa (Out Of Face) | 283.00 - 8.00 | 2            | No Ice   | 0.07  | 0.50       |
|             |             |              |                                 |                    |               |              | 1/2" Ice | 0.17  | 1.02       |
|             |             |              |                                 |                    |               |              | 1" Ice   | 0.27  | 1.88       |
| SO Cord     | B           | No           | Yes                             | CaAa (Out Of Face) | 194.75 - 8.00 | 2            | No Ice   | 0.07  | 0.50       |
|             |             |              |                                 |                    |               |              | 1/2" Ice | 0.17  | 1.02       |
|             |             |              |                                 |                    |               |              | 1" Ice   | 0.27  | 1.88       |
| 1" Rigid    | B           | No           | Yes                             | CaAa (Out Of Face) | 102.00 - 8.00 | 1            | No Ice   | 0.10  | 1.43       |
|             |             |              |                                 |                    |               |              | 1/2" Ice | 0.20  | 2.35       |
|             |             |              |                                 |                    |               |              | 1" Ice   | 0.30  | 3.87       |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 8 of 17           |
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|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

**Discrete Tower Loads**

| Description                        | Face or Leg | Offset Type | Offsets: Horz Lateral Vert<br>ft ft ft | Azimuth Adjustment<br>° | Placement<br>ft | C <sub>AA</sub> Front<br>ft <sup>2</sup> | C <sub>AA</sub> Side<br>ft <sup>2</sup> | Weight<br>lb |
|------------------------------------|-------------|-------------|--|-------------------------|-----------------|--|---|--------------|
| Search Antenna                     | A           | From Leg    | 1.00                                   | 0.0000                  | 377.00          | No Ice                                   | 3.73                                    | 30.00        |
|                                    |             |             | -4.00                                  |                         |                 | 1/2" Ice                                 | 4.39                                    | 45.00        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 5.05                                    | 60.00        |
| 7'x2" Antenna Mount Pipe           | A           | From Leg    | 1.00                                   | 0.0000                  | 377.00          | No Ice                                   | 1.66                                    | 26.00        |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 2.39                                    | 38.58        |
|                                    |             |             | -3.00                                  |                         |                 | 1" Ice                                   | 2.83                                    | 55.84        |
| Lightning Rod                      | C           | From Leg    | 1.00                                   | 0.0000                  | 374.00          | No Ice                                   | 0.75                                    | 10.00        |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 1.25                                    | 40.00        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 1.75                                    | 70.00        |
| Flash Beacon Light                 | C           | From Leg    | 0.00                                   | 0.0000                  | 372.00          | No Ice                                   | 0.24                                    | 50.00        |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 0.42                                    | 55.37        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 0.52                                    | 62.11        |
| 7'x2" Antenna Mount Pipe           | B           | From Leg    | 1.00                                   | 0.0000                  | 354.00          | No Ice                                   | 1.66                                    | 26.00        |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 2.39                                    | 38.58        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 2.83                                    | 55.84        |
| 7'x2 1/2" Pipe Mount               | C           | From Leg    | 1.00                                   | 0.0000                  | 354.00          | No Ice                                   | 1.89                                    | 40.50        |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 2.59                                    | 55.31        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 3.02                                    | 74.85        |
| *****                              |             |             |  |                         |                 |  |   |              |
| Junction Box                       | A           | From Leg    | 0.50                                   | 0.0000                  | 311.00          | No Ice                                   | 2.51                                    | 32.00        |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 2.72                                    | 63.40        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 2.94                                    | 98.56        |
| Junction Box                       | B           | From Leg    | 0.50                                   | 0.0000                  | 311.00          | No Ice                                   | 2.51                                    | 32.00        |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 2.72                                    | 63.40        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 2.94                                    | 98.56        |
| 15'-0" Sector Frame                | A           | From Leg    | 0.00                                   | 0.0000                  | 305.00          | No Ice                                   | 10.20                                   | 680.00       |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 15.60                                   | 830.00       |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 20.50                                   | 1050.00      |
| 15'-0" Sector Frame                | B           | From Leg    | 0.00                                   | 0.0000                  | 305.00          | No Ice                                   | 10.20                                   | 680.00       |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 15.60                                   | 830.00       |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 20.50                                   | 1050.00      |
| 15'-0" Sector Frame                | C           | From Leg    | 0.00                                   | 0.0000                  | 305.00          | No Ice                                   | 10.20                                   | 680.00       |
|                                    |             |             | 0.00                                   |                         |                 | 1/2" Ice                                 | 15.60                                   | 830.00       |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 20.50                                   | 1050.00      |
| MT6407-77A Antenna w/Mounting Pipe | A           | From Leg    | 3.00                                   | 0.0000                  | 305.00          | No Ice                                   | 3.27                                    | 109.00       |
|                                    |             |             | -5.00                                  |                         |                 | 1/2" Ice                                 | 3.99                                    | 154.17       |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 4.59                                    | 204.90       |
| MT6407-77A Antenna w/Mounting Pipe | B           | From Leg    | 3.00                                   | 0.0000                  | 305.00          | No Ice                                   | 3.27                                    | 109.00       |
|                                    |             |             | -5.00                                  |                         |                 | 1/2" Ice                                 | 3.99                                    | 154.17       |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 4.59                                    | 204.90       |
| MT6407-77A Antenna w/Mounting Pipe | C           | From Leg    | 3.00                                   | 0.0000                  | 305.00          | No Ice                                   | 3.27                                    | 109.00       |
|                                    |             |             | -5.00                                  |                         |                 | 1/2" Ice                                 | 3.99                                    | 154.17       |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 4.59                                    | 204.90       |
| 7'x2" Antenna Mount Pipe           | A           | From Leg    | 3.00                                   | 0.0000                  | 305.00          | No Ice                                   | 1.66                                    | 26.00        |
|                                    |             |             | -2.00                                  |                         |                 | 1/2" Ice                                 | 2.39                                    | 38.58        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 2.83                                    | 55.84        |
| 7'x2" Antenna Mount Pipe           | B           | From Leg    | 3.00                                   | 0.0000                  | 305.00          | No Ice                                   | 1.66                                    | 26.00        |
|                                    |             |             | -2.00                                  |                         |                 | 1/2" Ice                                 | 2.39                                    | 38.58        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 2.83                                    | 55.84        |
| 7'x2" Antenna Mount Pipe           | C           | From Leg    | 3.00                                   | 0.0000                  | 305.00          | No Ice                                   | 1.66                                    | 26.00        |
|                                    |             |             | -2.00                                  |                         |                 | 1/2" Ice                                 | 2.39                                    | 38.58        |
|                                    |             |             | 0.00                                   |                         |                 | 1" Ice                                   | 2.83                                    | 55.84        |
| LNX-6514DS-VTM w/Mounting Pipe     | A           | From Leg    | 3.00                                   | 0.0000                  | 305.00          | No Ice                                   | 8.05                                    | 62.20        |
|                                    |             |             | 5.00                                   |                         |                 | 1/2" Ice                                 | 9.38                                    | 138.82       |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
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|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

| Description                     | Face or Leg | Offset Type | Offsets: |      | Azimuth Adjustment | Placement | C <sub>A</sub> A <sub>1</sub> Front | C <sub>A</sub> A <sub>2</sub> Side | Weight           |
|---------------------------------|-------------|-------------|----------|------|--------------------|-----------|-------------------------------------|------------------------------------|------------------|
|                                 |             |             | Horz     | Vert |                    |           |                                     |                                    |                  |
|                                 |             |             | ft       | ft   | °                  | ft        | ft <sup>2</sup>                     | ft <sup>2</sup>                    | lb               |
|                                 |             |             | 0.00     |      |                    |           |                                     |                                    |                  |
| (2) NHH-65B-R2B w/Mounting Pipe | B           | From Leg    | 3.00     |      | 0.0000             | 305.00    | 1" Ice 10.79<br>No Ice 14.56        | 10.56<br>6.77                      | 224.17<br>115.90 |
|                                 |             |             | 2.00     |      |                    |           | 1/2" Ice 15.07                      | 7.72                               | 212.73           |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 15.60                        | 8.55                               | 318.10           |
| (2) NHH-65B-R2B w/Mounting Pipe | C           | From Leg    | 3.00     |      | 0.0000             | 305.00    | No Ice 14.56                        | 6.77                               | 115.90           |
|                                 |             |             | 2.00     |      |                    |           | 1/2" Ice 15.07                      | 7.72                               | 212.73           |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 15.60                        | 8.55                               | 318.10           |
| (2) NHH-65B-R2B w/Mounting Pipe | A           | From Leg    | 3.00     |      | 0.0000             | 305.00    | No Ice 14.56                        | 6.77                               | 115.90           |
|                                 |             |             | 2.00     |      |                    |           | 1/2" Ice 15.07                      | 7.72                               | 212.73           |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 15.60                        | 8.55                               | 318.10           |
| LNX-6514DS-VTM w/Mounting Pipe  | B           | From Leg    | 3.00     |      | 0.0000             | 305.00    | No Ice 9.54                         | 8.05                               | 62.20            |
|                                 |             |             | 5.00     |      |                    |           | 1/2" Ice 10.17                      | 9.38                               | 138.82           |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 10.79                        | 10.56                              | 224.17           |
| LNX-6514DS-VTM w/Mounting Pipe  | C           | From Leg    | 3.00     |      | 0.0000             | 305.00    | No Ice 9.54                         | 8.05                               | 62.20            |
|                                 |             |             | 5.00     |      |                    |           | 1/2" Ice 10.17                      | 9.38                               | 138.82           |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 10.79                        | 10.56                              | 224.17           |
| RF4439d-25A RRH                 | A           | From Face   | 2.50     |      | 0.0000             | 305.00    | No Ice 1.88                         | 1.25                               | 75.00            |
|                                 |             |             | -2.00    |      |                    |           | 1/2" Ice 2.05                       | 1.39                               | 93.34            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 2.22                         | 1.54                               | 114.47           |
| RF4439d-25A RRH                 | B           | From Face   | 2.50     |      | 0.0000             | 305.00    | No Ice 1.88                         | 1.25                               | 75.00            |
|                                 |             |             | -2.00    |      |                    |           | 1/2" Ice 2.05                       | 1.39                               | 93.34            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 2.22                         | 1.54                               | 114.47           |
| RF4439d-25A RRH                 | C           | From Face   | 2.50     |      | 0.0000             | 305.00    | No Ice 1.88                         | 1.25                               | 75.00            |
|                                 |             |             | -2.00    |      |                    |           | 1/2" Ice 2.05                       | 1.39                               | 93.34            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 2.22                         | 1.54                               | 114.47           |
| RF4440d-13A RRH                 | A           | From Face   | 2.50     |      | 0.0000             | 305.00    | No Ice 1.88                         | 1.13                               | 70.00            |
|                                 |             |             | 2.00     |      |                    |           | 1/2" Ice 2.05                       | 1.26                               | 87.34            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 2.22                         | 1.41                               | 107.40           |
| RF4440d-13A RRH                 | B           | From Face   | 2.50     |      | 0.0000             | 305.00    | No Ice 1.88                         | 1.13                               | 70.00            |
|                                 |             |             | 2.00     |      |                    |           | 1/2" Ice 2.05                       | 1.26                               | 87.34            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 2.22                         | 1.41                               | 107.40           |
| RF4440d-13A RRH                 | C           | From Face   | 2.50     |      | 0.0000             | 305.00    | No Ice 1.88                         | 1.13                               | 70.00            |
|                                 |             |             | 2.00     |      |                    |           | 1/2" Ice 2.05                       | 1.26                               | 87.34            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 2.22                         | 1.41                               | 107.40           |
| *****                           |             |             |          |      |                    |           |                                     |                                    |                  |
| Flash Beacon Light              | C           | From Leg    | 0.00     |      | 0.0000             | 283.00    | No Ice 0.24                         | 0.24                               | 50.00            |
|                                 |             |             | 0.00     |      |                    |           | 1/2" Ice 0.42                       | 0.42                               | 55.37            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 0.52                         | 0.52                               | 62.11            |
| Flash Beacon Light              | A           | From Leg    | 0.00     |      | 0.0000             | 283.00    | No Ice 0.24                         | 0.24                               | 50.00            |
|                                 |             |             | 0.00     |      |                    |           | 1/2" Ice 0.42                       | 0.42                               | 55.37            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 0.52                         | 0.52                               | 62.11            |
| Flash Beacon Light              | B           | From Leg    | 0.00     |      | 0.0000             | 283.00    | No Ice 0.24                         | 0.24                               | 50.00            |
|                                 |             |             | 0.00     |      |                    |           | 1/2" Ice 0.42                       | 0.42                               | 55.37            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 0.52                         | 0.52                               | 62.11            |
| 20' Dipole                      | B           | From Leg    | 2.00     |      | 0.0000             | 267.00    | No Ice 5.42                         | 5.42                               | 56.90            |
|                                 |             |             | 0.00     |      |                    |           | 1/2" Ice 7.95                       | 7.95                               | 103.56           |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 10.36                        | 10.36                              | 164.47           |
| 1' Side Mount Standoff          | B           | From Leg    | 1.00     |      | 0.0000             | 267.00    | No Ice 0.13                         | 0.40                               | 30.00            |
|                                 |             |             | 0.00     |      |                    |           | 1/2" Ice 0.18                       | 0.49                               | 34.31            |
|                                 |             |             | -10.00   |      |                    |           | 1" Ice 0.24                         | 0.59                               | 40.11            |
| 7'x2" Antenna Mount Pipe        | A           | From Leg    | 1.00     |      | 0.0000             | 255.00    | No Ice 1.66                         | 1.66                               | 26.00            |
|                                 |             |             | 0.00     |      |                    |           | 1/2" Ice 2.39                       | 2.39                               | 38.58            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 2.83                         | 2.83                               | 55.84            |
| *****                           |             |             |          |      |                    |           |                                     |                                    |                  |
| Surge Arrestor                  | A           | From Leg    | 0.50     |      | 0.0000             | 252.00    | No Ice 0.79                         | 0.79                               | 20.00            |
|                                 |             |             | 0.00     |      |                    |           | 1/2" Ice 1.27                       | 1.27                               | 35.12            |
|                                 |             |             | 0.00     |      |                    |           | 1" Ice 1.45                         | 1.45                               | 52.57            |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 10 of 17          |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

| Description                        | Face or Leg | Offset Type | Offsets: |        | Azimuth Adjustment | Placement | C <sub>A</sub> A <sub>1</sub> Front | C <sub>A</sub> A <sub>1</sub> Side | Weight |
|------------------------------------|-------------|-------------|----------|--------|--------------------|-----------|-------------------------------------|------------------------------------|--------|
|                                    |             |             | Horz     | Vert   |                    |           |                                     |                                    |        |
|                                    |             |             | Lateral  |        | °                  | ft        | ft <sup>2</sup>                     | ft <sup>2</sup>                    | lb     |
| Surge Arrestor                     | B           | From Leg    | 0.50     | 0.0000 | 252.00             | No Ice    | 0.79                                | 0.79                               | 20.00  |
|                                    |             |             | 0.00     |        |                    | 1/2" Ice  | 1.27                                | 1.27                               | 35.12  |
|                                    |             |             | 0.00     |        |                    | 1" Ice    | 1.45                                | 1.45                               | 52.57  |
| Surge Arrestor                     | C           | From Leg    | 0.50     | 0.0000 | 252.00             | No Ice    | 0.79                                | 0.79                               | 20.00  |
|                                    |             |             | 0.00     |        |                    | 1/2" Ice  | 1.27                                | 1.27                               | 35.12  |
|                                    |             |             | 0.00     |        |                    | 1" Ice    | 1.45                                | 1.45                               | 52.57  |
| Sector Stabilizer Kit SFS-V        | A           | From Leg    | 0.00     | 0.0000 | 246.00             | No Ice    | 2.84                                | 2.67                               | 66.00  |
|                                    |             |             | 0.00     |        |                    | 1/2" Ice  | 3.30                                | 3.09                               | 84.00  |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 3.84                                | 3.58                               | 113.00 |
| Sector Stabilizer Kit SFS-V        | B           | From Leg    | 0.00     | 0.0000 | 246.00             | No Ice    | 2.84                                | 2.67                               | 66.00  |
|                                    |             |             | 0.00     |        |                    | 1/2" Ice  | 3.30                                | 3.09                               | 84.00  |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 3.84                                | 3.58                               | 113.00 |
| Sector Stabilizer Kit SFS-V        | C           | From Leg    | 0.00     | 0.0000 | 246.00             | No Ice    | 2.84                                | 2.67                               | 66.00  |
|                                    |             |             | 0.00     |        |                    | 1/2" Ice  | 3.30                                | 3.09                               | 84.00  |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 3.84                                | 3.58                               | 113.00 |
| Pirod 12' T-Frame Sector Mount (1) | A           | From Leg    | 0.00     | 0.0000 | 246.00             | No Ice    | 13.60                               | 13.60                              | 465.00 |
|                                    |             |             | 0.00     |        |                    | 1/2" Ice  | 18.40                               | 18.40                              | 600.00 |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 23.20                               | 23.20                              | 735.00 |
| Pirod 12' T-Frame Sector Mount (1) | B           | From Leg    | 0.00     | 0.0000 | 246.00             | No Ice    | 13.60                               | 13.60                              | 465.00 |
|                                    |             |             | 0.00     |        |                    | 1/2" Ice  | 18.40                               | 18.40                              | 600.00 |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 23.20                               | 23.20                              | 735.00 |
| Pirod 12' T-Frame Sector Mount (1) | C           | From Leg    | 0.00     | 0.0000 | 246.00             | No Ice    | 13.60                               | 13.60                              | 465.00 |
|                                    |             |             | 0.00     |        |                    | 1/2" Ice  | 18.40                               | 18.40                              | 600.00 |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 23.20                               | 23.20                              | 735.00 |
| Powerwave 7770 w/Mounting Pipe     | A           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 6.64                                | 4.90                               | 49.90  |
|                                    |             |             | -5.00    |        |                    | 1/2" Ice  | 7.11                                | 5.79                               | 102.83 |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 7.56                                | 6.55                               | 162.75 |
| Powerwave 7770 w/Mounting Pipe     | B           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 6.64                                | 4.90                               | 49.90  |
|                                    |             |             | -5.00    |        |                    | 1/2" Ice  | 7.11                                | 5.79                               | 102.83 |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 7.56                                | 6.55                               | 162.75 |
| Powerwave 7770 w/Mounting Pipe     | C           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 6.64                                | 4.90                               | 49.90  |
|                                    |             |             | -5.00    |        |                    | 1/2" Ice  | 7.11                                | 5.79                               | 102.83 |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 7.56                                | 6.55                               | 162.75 |
| HPA-65R-BUU-H6 w/Mounting Pipe     | A           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 9.66                                | 6.94                               | 72.90  |
|                                    |             |             | -2.00    |        |                    | 1/2" Ice  | 10.13                               | 7.90                               | 147.22 |
|                                    |             |             | 1.00     |        |                    | 1" Ice    | 10.61                               | 8.73                               | 229.52 |
| HPA-65R-BUU-H8 w/Mounting Pipe     | B           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 13.05                               | 9.42                               | 97.20  |
|                                    |             |             | -2.00    |        |                    | 1/2" Ice  | 13.66                               | 10.82                              | 192.07 |
|                                    |             |             | 0.00     |        |                    | 1" Ice    | 14.27                               | 12.07                              | 296.65 |
| HPA-65R-BUU-H8 w/Mounting Pipe     | C           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 13.05                               | 9.42                               | 97.20  |
|                                    |             |             | -2.00    |        |                    | 1/2" Ice  | 13.66                               | 10.82                              | 192.07 |
|                                    |             |             | 1.00     |        |                    | 1" Ice    | 14.27                               | 12.07                              | 296.65 |
| 800-10966 w/ Mounting Pipe         | A           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 17.36                               | 9.40                               | 144.20 |
|                                    |             |             | 2.00     |        |                    | 1/2" Ice  | 17.99                               | 10.82                              | 257.48 |
|                                    |             |             | 1.00     |        |                    | 1" Ice    | 18.63                               | 12.09                              | 380.99 |
| 800-10966 w/ Mounting Pipe         | B           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 17.36                               | 9.40                               | 144.20 |
|                                    |             |             | 2.00     |        |                    | 1/2" Ice  | 17.99                               | 10.82                              | 257.48 |
|                                    |             |             | 0.00     |        |                    | 1" Ice    | 18.63                               | 12.09                              | 380.99 |
| 800-10966 w/ Mounting Pipe         | C           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 17.36                               | 9.40                               | 144.20 |
|                                    |             |             | 2.00     |        |                    | 1/2" Ice  | 17.99                               | 10.82                              | 257.48 |
|                                    |             |             | 1.00     |        |                    | 1" Ice    | 18.63                               | 12.09                              | 380.99 |
| 800-10965 w/ Mounting Pipe         | A           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 13.81                               | 7.26                               | 130.90 |
|                                    |             |             | 5.00     |        |                    | 1/2" Ice  | 14.35                               | 8.25                               | 223.32 |
|                                    |             |             | 0.00     |        |                    | 1" Ice    | 14.89                               | 9.12                               | 324.46 |
| 800-10965 w/ Mounting Pipe         | B           | From Leg    | 3.00     | 0.0000 | 246.00             | No Ice    | 13.81                               | 7.26                               | 130.90 |
|                                    |             |             | 5.00     |        |                    | 1/2" Ice  | 14.35                               | 8.25                               | 223.32 |
|                                    |             |             | -1.00    |        |                    | 1" Ice    | 14.89                               | 9.12                               | 324.46 |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 11 of 17          |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

| Description                | Face or Leg | Offset Type | Offsets: Horz Lateral Vert | Azimuth Adjustment | Placement | C <sub>A</sub> A <sub>1</sub> Front | C <sub>A</sub> A <sub>2</sub> Side | Weight |
|----------------------------|-------------|-------------|----------------------------|--------------------|-----------|-------------------------------------|------------------------------------|--------|
|                            |             |             | ft<br>ft<br>ft             | °                  | ft        | ft <sup>2</sup>                     | ft <sup>2</sup>                    | lb     |
| 800-10965 w/ Mounting Pipe | C           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 7.26                               | 130.90 |
|                            |             |             | 5.00                       |                    |           | 1/2" Ice                            | 8.25                               | 223.32 |
|                            |             |             | 0.00                       |                    |           | 1" Ice                              | 9.12                               | 324.46 |
| LGP21401 TMA               | A           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 0.36                               | 19.00  |
|                            |             |             | -5.00                      |                    |           | 1/2" Ice                            | 0.45                               | 26.13  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 0.56                               | 35.14  |
| LGP21401 TMA               | B           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 0.36                               | 19.00  |
|                            |             |             | -5.00                      |                    |           | 1/2" Ice                            | 0.45                               | 26.13  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 0.56                               | 35.14  |
| LGP21401 TMA               | C           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 0.36                               | 19.00  |
|                            |             |             | -5.00                      |                    |           | 1/2" Ice                            | 0.45                               | 26.13  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 0.56                               | 35.14  |
| LGP21401 TMA               | A           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 0.36                               | 19.00  |
|                            |             |             | -5.00                      |                    |           | 1/2" Ice                            | 0.45                               | 26.13  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 0.56                               | 35.14  |
| LGP21401 TMA               | B           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 0.36                               | 19.00  |
|                            |             |             | -5.00                      |                    |           | 1/2" Ice                            | 0.45                               | 26.13  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 0.56                               | 35.14  |
| LGP21401 TMA               | C           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 0.36                               | 19.00  |
|                            |             |             | -5.00                      |                    |           | 1/2" Ice                            | 0.45                               | 26.13  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 0.56                               | 35.14  |
| B2/B66A 8843 RRH           | A           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.35                               | 72.00  |
|                            |             |             | -1.50                      |                    |           | 1/2" Ice                            | 1.50                               | 89.60  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.65                               | 109.91 |
| B2/B66A 8843 RRH           | B           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.35                               | 72.00  |
|                            |             |             | -1.50                      |                    |           | 1/2" Ice                            | 1.50                               | 89.60  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.65                               | 109.91 |
| B2/B66A 8843 RRH           | C           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.35                               | 72.00  |
|                            |             |             | -1.50                      |                    |           | 1/2" Ice                            | 1.50                               | 89.60  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.65                               | 109.91 |
| B5/B12 4449 RRH            | A           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.40                               | 73.00  |
|                            |             |             | -2.50                      |                    |           | 1/2" Ice                            | 1.56                               | 91.48  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.72                               | 112.77 |
| B5/B12 4449 RRH            | B           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.40                               | 73.00  |
|                            |             |             | -2.50                      |                    |           | 1/2" Ice                            | 1.56                               | 91.48  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.72                               | 112.77 |
| B5/B12 4449 RRH            | C           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.40                               | 73.00  |
|                            |             |             | -2.50                      |                    |           | 1/2" Ice                            | 1.56                               | 91.48  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.72                               | 112.77 |
| B14 4478 RRH               | A           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.25                               | 60.00  |
|                            |             |             | 2.00                       |                    |           | 1/2" Ice                            | 1.40                               | 77.66  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.56                               | 98.08  |
| B14 4478 RRH               | B           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.25                               | 60.00  |
|                            |             |             | 2.00                       |                    |           | 1/2" Ice                            | 1.40                               | 77.66  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.56                               | 98.08  |
| B14 4478 RRH               | C           | From Leg    | 3.00                       | 0.0000             | 246.00    | No Ice                              | 1.25                               | 60.00  |
|                            |             |             | 2.00                       |                    |           | 1/2" Ice                            | 1.40                               | 77.66  |
|                            |             |             | -2.00                      |                    |           | 1" Ice                              | 1.56                               | 98.08  |
| *****                      |             |             |                            |                    |           |                                     |                                    |        |
| 7'x2" Antenna Mount Pipe   | A           | From Leg    | 1.00                       | 0.0000             | 237.00    | No Ice                              | 1.66                               | 26.00  |
|                            |             |             | 0.00                       |                    |           | 1/2" Ice                            | 2.39                               | 38.58  |
|                            |             |             | 0.00                       |                    |           | 1" Ice                              | 2.83                               | 55.84  |
| 6' Yagi                    | C           | From Leg    | 0.00                       | 0.0000             | 207.00    | No Ice                              | 2.63                               | 41.90  |
|                            |             |             | 0.00                       |                    |           | 1/2" Ice                            | 3.73                               | 67.18  |
|                            |             |             | 0.00                       |                    |           | 1" Ice                              | 4.46                               | 98.16  |
| 6' Yagi                    | A           | From Leg    | 0.00                       | 0.0000             | 203.50    | No Ice                              | 2.63                               | 41.90  |
|                            |             |             | 0.00                       |                    |           | 1/2" Ice                            | 3.73                               | 67.18  |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 12 of 17          |
|  | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

| Description        | Face or Leg | Offset Type | Offsets: |      | Azimuth Adjustment | Placement | C <sub>A</sub> A <sub>1</sub> Front | C <sub>A</sub> A <sub>1</sub> Side | Weight |       |
|--------------------|-------------|-------------|----------|------|--------------------|-----------|-------------------------------------|------------------------------------|--------|-------|
|                    |             |             | Horz     | Vert |                    |           |                                     |                                    |        |       |
|                    |             |             | ft       | ft   | °                  | ft        | ft <sup>2</sup>                     | ft <sup>2</sup>                    | lb     |       |
| 6' Yagi            | C           | From Leg    | 0.00     |      | 0.0000             | 199.00    | 1" Ice                              | 4.46                               | 4.46   | 98.16 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 2.63                               | 2.63   | 41.90 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 3.73                               | 3.73   | 67.18 |
| Flash Beacon Light | A           | From Leg    | 0.00     |      | 0.0000             | 195.00    | 1" Ice                              | 4.46                               | 4.46   | 98.16 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 0.24                               | 0.24   | 50.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 0.42                               | 0.42   | 55.37 |
| Flash Beacon Light | B           | From Leg    | 0.00     |      | 0.0000             | 195.00    | 1" Ice                              | 0.52                               | 0.52   | 62.11 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 0.24                               | 0.24   | 50.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 0.42                               | 0.42   | 55.37 |
| 6' Yagi            | B           | From Leg    | 0.00     |      | 0.0000             | 152.25    | 1" Ice                              | 0.52                               | 0.52   | 62.11 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 2.63                               | 2.63   | 41.90 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 3.73                               | 3.73   | 67.18 |
| 6' Yagi            | A           | From Leg    | 0.00     |      | 0.0000             | 138.80    | 1" Ice                              | 4.46                               | 4.46   | 98.16 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 2.63                               | 2.63   | 41.90 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 3.73                               | 3.73   | 67.18 |
| 6' Yagi            | A           | From Leg    | 0.00     |      | 0.0000             | 132.00    | 1" Ice                              | 4.46                               | 4.46   | 98.16 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 2.63                               | 2.63   | 41.90 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 3.73                               | 3.73   | 67.18 |
| 6' Yagi            | C           | From Leg    | 0.00     |      | 0.0000             | 125.50    | 1" Ice                              | 4.46                               | 4.46   | 98.16 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 2.63                               | 2.63   | 41.90 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 3.73                               | 3.73   | 67.18 |
| Flash Beacon Light | C           | From Leg    | 0.00     |      | 0.0000             | 102.00    | 1" Ice                              | 4.46                               | 4.46   | 98.16 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 0.24                               | 0.24   | 50.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 0.42                               | 0.42   | 55.37 |
| Flash Beacon Light | A           | From Leg    | 0.00     |      | 0.0000             | 102.00    | 1" Ice                              | 0.52                               | 0.52   | 62.11 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 0.24                               | 0.24   | 50.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 0.42                               | 0.42   | 55.37 |
| Flash Beacon Light | B           | From Leg    | 0.00     |      | 0.0000             | 102.00    | 1" Ice                              | 0.52                               | 0.52   | 62.11 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 0.24                               | 0.24   | 50.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 0.42                               | 0.42   | 55.37 |
| X-Style Antenna    | C           | From Leg    | 2.00     |      | 0.0000             | 95.00     | 1" Ice                              | 0.52                               | 0.52   | 62.11 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 1.50                               | 2.00   | 30.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 1.50                               | 2.00   | 30.00 |
| X-Style Antenna    | B           | From Leg    | 2.00     |      | 0.0000             | 95.00     | 1" Ice                              | 1.50                               | 2.00   | 40.00 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 1.50                               | 2.00   | 30.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 1.50                               | 2.00   | 30.00 |
| X-Style Antenna    | B           | From Leg    | 2.00     |      | 0.0000             | 95.00     | 1" Ice                              | 1.50                               | 2.00   | 40.00 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 1.50                               | 2.00   | 30.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 1.50                               | 2.00   | 30.00 |
| X-Style Antenna    | A           | From Leg    | 2.00     |      | 0.0000             | 95.00     | 1" Ice                              | 1.50                               | 2.00   | 40.00 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 1.50                               | 2.00   | 30.00 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 1.50                               | 2.00   | 30.00 |
| 6' Yagi            | C           | From Leg    | 0.00     |      | 0.0000             | 33.00     | 1" Ice                              | 1.50                               | 2.00   | 40.00 |
|                    |             |             | 0.00     |      |                    |           | No Ice                              | 2.63                               | 2.63   | 41.90 |
|                    |             |             | 0.00     |      |                    |           | 1/2" Ice                            | 3.73                               | 3.73   | 67.18 |
|                    |             |             | 0.00     |      |                    |           | 1" Ice                              | 4.46                               | 4.46   | 98.16 |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
| <b>tnxTower</b><br><br><b>Hudson Design Group LLC</b><br>45 Beechwood Drive<br>North Andover, MA 01845<br>Phone: (978) 557-5553<br>FAX: (978) 336-5586 | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 13 of 17          |
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|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

## Dishes

| Description              | Face or Leg | Dish Type             | Offset Type | Offsets: |        | Azimuth Adjustment | 3 dB Beam Width | Elevation | Outside Diameter | Aperture Area | Weight |        |
|--------------------------|-------------|-----------------------|-------------|----------|--------|--------------------|-----------------|-----------|------------------|---------------|--------|--------|
|                          |             |                       |             | Horz     | Vert   |                    |                 |           |                  |               |        |        |
|                          |             |                       |             | ft       | °      | °                  | ft              | ft        | ft <sup>2</sup>  | lb            |        |        |
| 8' Wire Frame Dish Frame | C           | Paraboloid w/o Radome | From Leg    | 0.00     | 0.0000 |                    |                 | 321.00    | 8.00             | No Ice        | 10.05  | 22.60  |
|                          |             |                       |             | -4.00    |        |                    |                 |           |                  | 1/2" Ice      | 10.26  | 75.29  |
|                          |             |                       |             | 0.00     |        |                    |                 |           |                  | 1" Ice        | 10.47  | 127.98 |
| 8' Wire Frame Dish Frame | C           | Paraboloid w/o Radome | From Leg    | 0.00     | 0.0000 |                    |                 | 321.00    | 8.00             | No Ice        | 10.05  | 22.60  |
|                          |             |                       |             | 4.00     |        |                    |                 |           |                  | 1/2" Ice      | 10.26  | 75.29  |
|                          |             |                       |             | 0.00     |        |                    |                 |           |                  | 1" Ice        | 10.47  | 127.98 |

## Force Totals (Does not include forces on guys)

| Load Case                | Vertical Forces | Sum of Forces X | Sum of Forces Z | Sum of Torques |
|--------------------------|-----------------|-----------------|-----------------|----------------|
|                          | lb              | lb              | lb              | lb-ft          |
| Leg Weight               | 29761.87        |                 |                 |                |
| Bracing Weight           | 13377.46        |                 |                 |                |
| Total Member Self-Weight | 43139.33        |                 |                 |                |
| Guy Weight               | 11880.04        |                 |                 |                |
| Total Weight             | 71119.00        |                 |                 |                |
| Wind 0 deg - No Ice      |                 | 1417.86         | -88064.13       | 1036.07        |
| Wind 30 deg - No Ice     |                 | 44506.00        | -75222.23       | 1299.77        |
| Wind 60 deg - No Ice     |                 | 75694.71        | -43627.62       | 400.66         |
| Wind 90 deg - No Ice     |                 | 87509.47        | -867.49         | -605.81        |
| Wind 120 deg - No Ice    |                 | 77104.16        | 42804.17        | -635.41        |
| Wind 150 deg - No Ice    |                 | 43215.01        | 74746.82        | 1270.84        |
| Wind 180 deg - No Ice    |                 | -169.09         | 86264.41        | 1661.41        |
| Wind 210 deg - No Ice    |                 | -43533.13       | 75194.53        | 1357.45        |
| Wind 240 deg - No Ice    |                 | -76393.49       | 44031.06        | -400.66        |
| Wind 270 deg - No Ice    |                 | -86999.05       | 38.81           | -2051.41       |
| Wind 300 deg - No Ice    |                 | -74921.17       | -42985.77       | -2062.07       |
| Wind 330 deg - No Ice    |                 | -43237.26       | -74733.98       | -1270.84       |
| Member Ice               | 25771.58        |                 |                 |                |
| Guy Ice                  | 24397.85        |                 |                 |                |
| Total Weight Ice         | 158193.40       |                 |                 |                |
| Wind 0 deg - Ice         |                 | 204.78          | -25408.76       | 29.91          |
| Wind 30 deg - Ice        |                 | 12768.82        | -21882.89       | 90.32          |
| Wind 60 deg - Ice        |                 | 21924.83        | -12668.29       | 8.94           |
| Wind 90 deg - Ice        |                 | 25320.57        | -125.33         | -74.84         |
| Wind 120 deg - Ice       |                 | 22089.72        | 12527.03        | -20.97         |
| Wind 150 deg - Ice       |                 | 12582.29        | 21814.17        | 293.42         |
| Wind 180 deg - Ice       |                 | -24.50          | 25193.39        | 359.53         |
| Wind 210 deg - Ice       |                 | -12628.36       | 21878.89        | 293.31         |
| Wind 240 deg - Ice       |                 | -21987.20       | 12704.31        | -8.94          |
| Wind 270 deg - Ice       |                 | -25246.88       | 5.69            | -308.78        |
| Wind 300 deg - Ice       |                 | -21813.07       | -12575.48       | -368.47        |
| Wind 330 deg - Ice       |                 | -12585.50       | -21812.32       | -293.42        |
| Total Weight             | 71119.00        |                 |                 |                |
| Wind 0 deg - Service     |                 | 280.07          | -17467.32       | 200.14         |
| Wind 30 deg - Service    |                 | 8827.28         | -14921.01       | 254.14         |
| Wind 60 deg - Service    |                 | 15014.34        | -8653.77        | 79.14          |
| Wind 90 deg - Service    |                 | 17357.76        | -171.36         | -117.06        |
| Wind 120 deg - Service   |                 | 15292.75        | 8491.11         | -121.00        |
| Wind 150 deg - Service   |                 | 8572.27         | 14827.10        | 256.24         |
| Wind 180 deg - Service   |                 | -33.40          | 17111.82        | 332.69         |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
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|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

| <i>Load Case</i>       | <i>Vertical Forces</i> | <i>Sum of Forces X</i> | <i>Sum of Forces Z</i> | <i>Sum of Torques</i> |
|------------------------|------------------------|------------------------|------------------------|-----------------------|
|                        | <i>lb</i>              | <i>lb</i>              | <i>lb</i>              | <i>lb-ft</i>          |
| Wind 210 deg - Service |                        | -8635.11               | 14915.54               | 270.74                |
| Wind 240 deg - Service |                        | -15152.37              | 8733.46                | -79.14                |
| Wind 270 deg - Service |                        | -17256.94              | 7.67                   | -407.82               |
| Wind 300 deg - Service |                        | -14861.54              | -8526.98               | -411.83               |
| Wind 330 deg - Service |                        | -8576.66               | -14824.57              | -256.24               |

## Load Combinations

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



|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
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## Section Capacity Table

| Section No. | Elevation ft    | Component Type | Size               | Critical Element | P lb       | $\phi P_{allow}$ lb | % Capacity | Pass Fail |  |
|-------------|-----------------|----------------|--------------------|------------------|------------|---------------------|------------|-----------|--|
| T1          | 372.25 - 365.5  | Leg            | 2 3/4              | 1                | -1080.99   | 102851.00           | 1.1        | Pass      |  |
|             |                 | Diagonal       | L2 1/2x2 1/2x1/4   | 12               | -645.10    | 39906.90            | 1.6        | Pass      |  |
|             |                 | Top Girt       | 2L2 1/2x2x1/4      | 5                | 118.08     | 69012.00            | 0.2        | Pass      |  |
| T2          | 365.5 - 353     | Leg            | 2 3/4              | 13               | -7240.18   | 102851.00           | 7.0        | Pass      |  |
|             |                 | Diagonal       | 2L3x3x5/16         | 22               | 1642.76    | 115020.00           | 1.4        | Pass      |  |
|             |                 | Horizontal     | 2L2 1/2x3x1/4      | 25               | 353.07     | 85212.00            | 0.4        | Pass      |  |
| T3          | 353 - 346.75    | Top Girt       | 2L2 1/2x3x1/4      | 18               | 183.34     | 85212.00            | 0.2        | Pass      |  |
|             |                 | Leg            | 3                  | 34               | -2677.80   | 135284.00           | 2.0        | Pass      |  |
|             |                 | Diagonal       | 2L3x2 1/2x1/4      | 40               | -5017.45   | 85424.30            | 5.9        | Pass      |  |
| T4          | 346.75 - 334.25 | Top Girt       | 2L2 1/2x3x1/4      | 38               | 7462.49    | 85212.00            | 8.8        | Pass      |  |
|             |                 | Guy A@353      | 7/8                | 626              | 21027.70   | 47820.00            | 44.0       | Pass      |  |
|             |                 | Guy B@353      | 7/8                | 619              | 20854.30   | 47820.00            | 43.6       | Pass      |  |
|             |                 | Guy C@353      | 7/8                | 613              | 21503.30   | 47820.00            | 45.0       | Pass      |  |
|             |                 | Torque Arm     | 2L2 1/2x2 1/2x1/4  | 616              | 18763.00   | 77112.00            | 24.3       | Pass      |  |
|             |                 | Top@353        |                    |                  |            |                     |            |           |  |
|             |                 | Torque Arm     | 2L2 1/2x2 1/2x1/4  | 617              | -21506.20  | 41592.00            | 51.7       | Pass      |  |
|             |                 | Bottom@353     |                    |                  |            |                     |            |           |  |
|             |                 | Leg            | 3                  | 46               | -50601.30  | 135284.00           | 37.4       | Pass      |  |
|             |                 | Diagonal       | 3/4                | 62               | 5740.53    | 14313.90            | 40.1       | Pass      |  |
| T5          | 334.25 - 328    | Horizontal     | P1.5x.145          | 59               | -4267.43   | 19491.80            | 21.9       | Pass      |  |
|             |                 | Top Girt       | 2L2 1/2x2x1/4      | 50               | -4578.69   | 63934.90            | 7.2        | Pass      |  |
|             |                 | Leg            | 3                  | 67               | -57547.80  | 135284.00           | 42.5       | Pass      |  |
| T6          | 328 - 303       | Diagonal       | 1                  | 73               | 7071.41    | 25446.90            | 27.8       | Pass      |  |
|             |                 | Top Girt       | P1.5x.145          | 71               | -5498.98   | 19491.80            | 28.2       | Pass      |  |
|             |                 | Leg            | 3 1/4              | 79               | -62611.60  | 171629.00           | 36.5       | Pass      |  |
| T7          | 303 - 296.75    | Diagonal       | 1                  | 89               | 7554.04    | 25446.90            | 29.7       | Pass      |  |
|             |                 | Horizontal     | P1.5x.145          | 92               | -8189.14   | 19596.60            | 41.8       | Pass      |  |
|             |                 | Top Girt       | P1.5x.2            | 83               | -6853.86   | 25270.50            | 27.1       | Pass      |  |
|             |                 | Leg            | 3 1/4              | 118              | -44284.00  | 171629.00           | 25.8       | Pass      |  |
|             |                 | Diagonal       | 2L2 1/2x2 1/2x3/16 | 128              | -6984.97   | 55732.00            | 12.5       | Pass      |  |
|             |                 | Top Girt       | 2L2 1/2x2x3/16     | 122              | 2310.89    | 52488.00            | 4.4        | Pass      |  |
| T8          | 296.75 - 278    | Guy A@302      | 7/8                | 644              | 24994.10   | 47820.00            | 52.3       | Pass      |  |
|             |                 | Guy B@302      | 7/8                | 637              | 24795.60   | 47820.00            | 51.9       | Pass      |  |
|             |                 | Guy C@302      | 7/8                | 632              | 25491.30   | 47820.00            | 53.3       | Pass      |  |
|             |                 | Torque Arm     | 2L2 1/2x2 1/2x1/4  | 639              | 22728.30   | 77112.00            | 29.5       | Pass      |  |
|             |                 | Top@302        |                    |                  |            |                     |            |           |  |
|             |                 | Torque Arm     | 2L2 1/2x2 1/2x1/4  | 641              | -36061.20  | 48906.20            | 73.7       | Pass      |  |
|             |                 | Bottom@302     |                    |                  |            |                     |            |           |  |
| T9          | 278 - 253       | Leg            | 3 1/4              | 130              | -124821.00 | 171629.00           | 72.7       | Pass      |  |
|             |                 | Diagonal       | 1                  | 157              | 8899.48    | 25446.90            | 35.0       | Pass      |  |
|             |                 | Horizontal     | P1.5x.145          | 152              | -7069.13   | 19596.60            | 36.1       | Pass      |  |
|             |                 | Top Girt       | 2L2 1/2x2x3/16     | 134              | -4177.77   | 48856.80            | 8.6        | Pass      |  |
| T10         | 253 - 228       | Leg            | 3                  | 160              | -132004.00 | 135284.00           | 97.6       | Pass      |  |
|             |                 | Diagonal       | 1                  | 196              | 6495.52    | 25446.90            | 25.5       | Pass      |  |
|             |                 | Horizontal     | P1.5x.145          | 172              | -6614.63   | 19491.80            | 33.9       | Pass      |  |
|             |                 | Top Girt       | P1.5x.2            | 164              | -6674.79   | 25127.40            | 26.6       | Pass      |  |
| T11         | 228 - 221.75    | Leg            | 3 1/4              | 199              | -130758.00 | 171629.00           | 76.2       | Pass      |  |
|             |                 | Diagonal       | 1                  | 206              | 15459.50   | 25446.90            | 60.8       | Pass      |  |
|             |                 | Horizontal     | 2L2x2 1/2x3/16     | 211              | -9438.17   | 41914.40            | 22.5       | Pass      |  |
|             |                 | Top Girt       | 2L2 1/2x2x3/16     | 202              | -7211.26   | 48856.80            | 14.8       | Pass      |  |
| T11         | 228 - 221.75    | Leg            | 3 1/4              | 240              | -71333.80  | 171629.00           | 41.6       | Pass      |  |
|             |                 | Diagonal       | 2L2 1/2x2 1/2x1/4  | 244              | -13620.20  | 78903.70            | 17.3       | Pass      |  |
|             |                 | Top Girt       | 2L2 1/2x2x3/16     | 242              | 13243.00   | 52488.00            | 25.2       | Pass      |  |
|             |                 | Guy A@228      | 3/4                | 662              | 23026.50   | 34980.00            | 65.8       | Pass      |  |
|             |                 | Guy B@228      | 3/4                | 655              | 22830.00   | 34980.00            | 65.3       | Pass      |  |
|             |                 | Guy C@228      | 3/4                | 650              | 23289.20   | 34980.00            | 66.6       | Pass      |  |
|             |                 | Torque Arm     | 2L2 1/2x2 1/2x1/4  | 652              | 20813.40   | 77112.00            | 27.0       | Pass      |  |
|             |                 | Top@228        |                    |                  |            |                     |            |           |  |

|  |                |                     |                    |                   |
|--|----------------|---------------------|--------------------|-------------------|
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|  | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

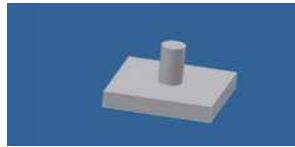
| Section No. | Elevation ft | Component Type        | Size              | Critical Element | P lb       | $\phi P_{allow}$ lb | % Capacity | Pass Fail |
|-------------|--------------|-----------------------|-------------------|------------------|------------|---------------------|------------|-----------|
|             |              | Torque Arm Bottom@228 | 2L2 1/2x2 1/2x1/4 | 653              | -22647.50  | 41750.80            | 54.2       | Pass      |
| T12         | 221.75 - 203 | Leg                   | 3 1/4             | 252              | -122576.00 | 171629.00           | 71.4       | Pass      |
|             |              | Diagonal              | 5/8               | 278              | 3520.59    | 9940.20             | 35.4       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 271              | -2634.31   | 19596.60            | 13.4       | Pass      |
|             |              | Top Girt              | 2L2 1/2x2x3/16    | 255              | 6057.17    | 52488.00            | 11.5       | Pass      |
| T13         | 203 - 178    | Leg                   | 3                 | 282              | -121357.00 | 200780.00           | 60.4       | Pass      |
|             |              | Diagonal              | 5/8               | 290              | 6854.28    | 9940.20             | 69.0       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 294              | -3627.14   | 19491.80            | 18.6       | Pass      |
|             |              | Secondary Horizontal  | P1.5x.145         | 320              | -2101.96   | 30865.20            | 6.8        | Pass      |
|             |              | Top Girt              | P1.5x.2           | 283              | -2512.61   | 25127.40            | 10.0       | Pass      |
| T14         | 178 - 165.5  | Leg                   | 3 1/4             | 333              | -106053.00 | 171629.00           | 61.8       | Pass      |
|             |              | Diagonal              | 5/8               | 341              | 9440.20    | 9940.20             | 95.0       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 345              | -5615.09   | 19596.60            | 28.7       | Pass      |
|             |              | Top Girt              | P1.5x.2           | 336              | -4778.87   | 25270.50            | 18.9       | Pass      |
| T15         | 165.5 - 153  | Leg                   | 3 1/4             | 354              | -110417.00 | 171629.00           | 64.3       | Pass      |
|             |              | Diagonal              | 5/8               | 370              | 3471.84    | 9940.20             | 34.9       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 365              | -1952.42   | 19596.60            | 10.0       | Pass      |
|             |              | Top Girt              | 2L2 1/2x2x3/16    | 355              | 7327.97    | 52488.00            | 14.0       | Pass      |
|             |              | Guy A@165.5           | 3/4               | 669              | 23482.50   | 34980.00            | 67.1       | Pass      |
|             |              | Guy B@165.5           | 3/4               | 668              | 23139.20   | 34980.00            | 66.1       | Pass      |
|             |              | Guy C@165.5           | 3/4               | 667              | 23671.10   | 34980.00            | 67.7       | Pass      |
| T16         | 153 - 128    | Leg                   | 3 1/4             | 375              | -111200.00 | 171629.00           | 64.8       | Pass      |
|             |              | Diagonal              | 5/8               | 382              | 4211.21    | 9940.20             | 42.4       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 386              | -2343.31   | 19596.60            | 12.0       | Pass      |
|             |              | Top Girt              | P1.5x.2           | 376              | -2073.46   | 25270.50            | 8.2        | Pass      |
| T17         | 128 - 103    | Leg                   | 3 1/4             | 412              | -116314.00 | 171629.00           | 67.8       | Pass      |
|             |              | Diagonal              | L2 1/2x2x3/16     | 423              | 10091.60   | 26211.60            | 38.5       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 426              | -5914.81   | 19596.60            | 30.2       | Pass      |
|             |              | Top Girt              | P1.5x.2           | 416              | -3278.63   | 25270.50            | 13.0       | Pass      |
| T18         | 103 - 96.75  | Leg                   | 3 1/4             | 451              | -97416.00  | 171629.00           | 56.8       | Pass      |
|             |              | Diagonal              | 2L2 1/2x2 1/2x1/4 | 462              | -12965.80  | 78903.70            | 16.4       | Pass      |
|             |              | Top Girt              | 2L2 1/2x2x3/16    | 455              | 13681.70   | 52488.00            | 26.1       | Pass      |
|             |              | Guy A@103             | 9/16              | 682              | 12790.80   | 21000.00            | 60.9       | Pass      |
|             |              | Guy B@103             | 9/16              | 676              | 12559.80   | 21000.00            | 59.8       | Pass      |
|             |              | Guy C@103             | 9/16              | 671              | 12915.60   | 21000.00            | 61.5       | Pass      |
|             |              | Torque Arm Top@103    | 2L2 1/2x2 1/2x1/4 | 673              | 12828.70   | 77112.00            | 16.6       | Pass      |
|             |              | Torque Arm Bottom@103 | 2L2 1/2x2 1/2x1/4 | 680              | -9875.93   | 41750.80            | 23.7       | Pass      |
| T19         | 96.75 - 78   | Leg                   | 3 1/4             | 465              | -109576.00 | 171629.00           | 63.8       | Pass      |
|             |              | Diagonal              | 5/8               | 487              | 3859.48    | 9940.20             | 38.8       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 484              | -2023.33   | 19596.60            | 10.3       | Pass      |
|             |              | Top Girt              | 2L2 1/2x2x3/16    | 468              | 5987.24    | 52488.00            | 11.4       | Pass      |
| T20         | 78 - 53      | Leg                   | 3 1/4             | 495              | -112109.00 | 171629.00           | 65.3       | Pass      |
|             |              | Diagonal              | 5/8               | 502              | 3611.60    | 9940.20             | 36.3       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 506              | -1971.93   | 19596.60            | 10.1       | Pass      |
|             |              | Top Girt              | P1.5x.2           | 497              | -1941.79   | 25270.50            | 7.7        | Pass      |
| T21         | 53 - 28      | Leg                   | 3 1/4             | 532              | -116969.00 | 171629.00           | 68.2       | Pass      |
|             |              | Diagonal              | 5/8               | 565              | 4366.11    | 9940.20             | 43.9       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 562              | -2469.40   | 19596.60            | 12.6       | Pass      |
|             |              | Top Girt              | 2L2 1/2x2x3/16    | 537              | 4022.36    | 52488.00            | 7.7        | Pass      |
|             |              | Guy A@53              | 9/16              | 690              | 11672.30   | 21000.00            | 55.6       | Pass      |
|             |              | Guy B@53              | 9/16              | 689              | 11500.20   | 21000.00            | 54.8       | Pass      |
|             |              | Guy C@53              | 9/16              | 688              | 11808.00   | 21000.00            | 56.2       | Pass      |
| T22         | 28 - 9.25    | Leg                   | 3 1/4             | 571              | -117709.00 | 171629.00           | 68.6       | Pass      |
|             |              | Diagonal              | 5/8               | 577              | 2114.02    | 9940.20             | 21.3       | Pass      |
|             |              | Horizontal            | P1.5x.145         | 585              | -2038.78   | 19596.60            | 10.4       | Pass      |
|             |              | Top Girt              | P1.5x.2           | 576              | -2038.78   | 25270.50            | 8.1        | Pass      |
| T23         | 9.25 - 4.25  | Leg                   | 3 1/4             | 601              | -117987.00 | 201708.00           | 58.5       | Pass      |
|             |              | Diagonal              | 5/8               | 611              | 2943.32    | 9940.20             | 29.6       | Pass      |

|   |                |                     |                    |                   |
|---|----------------|---------------------|--------------------|-------------------|
| <p><b>tnxTower</b></p> <p><b>Hudson Design Group LLC</b><br/> 45 Beechwood Drive<br/> North Andover, MA 01845<br/> Phone: (978) 557-5553<br/> FAX: (978) 336-5586</p> | <b>Job</b>     | MONTVILLE CT        | <b>Page</b>        | 17 of 17          |
|   | <b>Project</b> | 372'-3" Guyed Tower | <b>Date</b>        | 12:09:29 10/13/21 |
|   | <b>Client</b>  | Verizon             | <b>Designed by</b> | RL                |

| Section No. | Elevation ft | Component Type | Size    | Critical Element | P lb     | $\phi P_{allow}$ lb | % Capacity                 | Pass Fail        |
|-------------|--------------|----------------|---------|------------------|----------|---------------------|----------------------------|------------------|
|             |              | Top Girt       | P1.5x.2 | 606              | -2043.59 | 25270.50            | 8.1                        | Pass             |
|             |              |                |         |                  |          |                     | Summary                    |                  |
|             |              |                |         |                  |          |                     | Leg (T9)                   | 97.6 Pass        |
|             |              |                |         |                  |          |                     | Diagonal (T14)             | 95.0 Pass        |
|             |              |                |         |                  |          |                     | Horizontal (T6)            | 41.8 Pass        |
|             |              |                |         |                  |          |                     | Secondary Horizontal (T13) | 6.8 Pass         |
|             |              |                |         |                  |          |                     | Top Girt (T5)              | 28.2 Pass        |
|             |              |                |         |                  |          |                     | Guy A (T15)                | 67.1 Pass        |
|             |              |                |         |                  |          |                     | Guy B (T15)                | 66.1 Pass        |
|             |              |                |         |                  |          |                     | Guy C (T15)                | 67.7 Pass        |
|             |              |                |         |                  |          |                     | Torque Arm Top (T7)        | 29.5 Pass        |
|             |              |                |         |                  |          |                     | Torque Arm Bottom (T7)     | 73.7 Pass        |
|             |              |                |         |                  |          |                     | <b>RATING =</b>            | <b>97.6 Pass</b> |

# Unit Base Foundation

Checks capacity of square mat foundation with raised piers for a self-supporting tower



Site Name: MONTVILLE CT

TIA-222 Revision: **H**

| Design Reactions             |        |         |
|------------------------------|--------|---------|
| Shear, <b>S</b> :            | 0.79   | kips    |
| Moment, <b>M</b> :           | 0.00   | ft-kips |
| Compression/leg, <b>Ca</b> : | 0.00   | kips    |
| Uplift/leg, <b>Ua</b> :      | 0.00   | kips    |
| Tower Weight, <b>Wt</b> :    | 345.95 | kips    |
| Tower Height, <b>H</b> :     | 372    | ft      |
| Base Face Width, <b>w'</b> : | 5      | ft      |

| Pad Properties                  |     |      |
|---------------------------------|-----|------|
| Depth, <b>D</b> :               | 3.5 | ft   |
| Pad Width, <b>W</b> :           | 7.0 | ft   |
| Pad Thickness, <b>T</b> :       | 2.0 | ft   |
| Ext. Above Grade, <b>E</b> :    | 1.5 | ft   |
| Neglected Depth, <b>N</b> :     | 0.0 | ft   |
| Pad Rebar Size, <b>Sp</b> :     |     |      |
| Pad Rebar Quantity, <b>mp</b> : |     | #N/A |

| Pier Properties                  |        |      |
|----------------------------------|--------|------|
| Pier Shape:                      | Square |      |
| Pier Width, <b>di</b> :          | 3.0    | ft   |
| Pier Rebar Size, <b>Sc</b> :     |        |      |
| Pier Rebar Quantity, <b>mc</b> : |        | #N/A |
| Pier Tie Size, <b>St</b> :       |        |      |
| Tie Quantity, <b>mt</b> :        |        | #N/A |

| Material Properties             |       |     |
|---------------------------------|-------|-----|
| Rebar Tensile, <b>Fy</b> :      | 60000 | psi |
| Concrete Strength, <b>F'c</b> : | 4000  | psi |
| Concrete Density, <b>δc</b> :   | 150   | pcf |
| Clear Cover, <b>cc</b> :        | 3     | in  |

| Soil Properties               |        |         |
|-------------------------------|--------|---------|
| Soil Unit Weight, <b>γ</b> :  | 120    | pcf     |
| Ultimate Bearing, <b>Bc</b> : | 10.667 | ksf     |
| Cohesion, <b>Co</b> :         | 0.000  | ksf     |
| Friction Angle, <b>φ</b> :    | 30     | degrees |
| Base Sliding, <b>μ</b> :      | 0.45   |         |

| Design Checks                |                       |               |       |
|------------------------------|-----------------------|---------------|-------|
|                              | Capacity/Availability | Demand/Limits | Check |
| Base Sliding (kips):         | 134.25                | 0.79          | 0.6%  |
| Overturing (k-ft):           | 197.33                | 0.00          | 0.0%  |
| Bearing (ksf):               | 8.00                  | 7.93          | 99.1% |
| 1-way Shear (kips):          | #N/A                  | #N/A          | #N/A  |
| 2-way Shear (kips):          | #N/A                  | 0.00          | #N/A  |
| Pier concrete stress (ksf):  | 2695.68               | 0.00          | 0.0%  |
| Pier moment capacity (k-ft): | 117.40                | 1.18          | 1.0%  |
| Pad moment capacity (k-ft):  | #N/A                  | 105.34        | #N/A  |

Tower centroid is offset from foundation centroid

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 115 ft  
**Site Name:** MONTVILLE CT

**Location:** A

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 10.47 | kips |
| Uplift, <b>Ua:</b>           | 5.37  | kips |
| Resultant Force, <b>Rf:</b>  | 11.77 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 115.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 6.5  | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 3.0  | ft              |
| Anchor Length, <b>La:</b>              | 10.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 4.4  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 3    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 67.50                 | 10.47         | OK    | 15.5% |
| Uplift Capacity (kips): | 36.92                 | 5.37          | OK    | 14.5% |

| Soil Properties |        | No. of Soil Layers? 6 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.40  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 7.00  |
| 4               | 36     | 0.000                 | 0.110  | 9.00  |
| 5               | 36     | 0.000                 | 0.110  | 11.00 |
| 6               | 36     | 0.000                 | 0.110  | 16.50 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 194 ft  
**Site Name:** MONTVILLE CT

**Location:** A

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 39.66 | kips |
| Uplift, <b>Ua:</b>           | 28.19 | kips |
| Resultant Force, <b>Rf:</b>  | 48.65 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 194.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 10.0 | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 4.0  | ft              |
| Anchor Length, <b>La:</b>              | 10.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 5.9  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 3    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 90.00                 | 39.66         | OK    | 44.1% |
| Uplift Capacity (kips): | 74.78                 | 28.19         | OK    | 37.7% |

| Soil Properties |        | No. of Soil Layers? 5 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 6.80  |
| 4               | 36     | 0.000                 | 0.110  | 11.40 |
| 5               | 36     | 0.000                 | 0.110  | 16.50 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction  
 δ = Soil Unit Weight  
 d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 219 ft  
**Site Name:** MONTVILLE CT

**Location:** A

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 61.28 | kips |
| Uplift, <b>Ua:</b>           | 73.65 | kips |
| Resultant Force, <b>Rf:</b>  | 95.81 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 219.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 10.0 | ft              |
| Anchor Width, <b>Wa:</b>               | 6.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 4.0  | ft              |
| Anchor Length, <b>La:</b>              | 16.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 14.2 | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 0    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 144.00                | 61.28         | OK    | 42.6% |
| Uplift Capacity (kips): | 147.06                | 73.65         | OK    | 50.1% |

| Soil Properties |        | No. of Soil Layers? 5 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 6.80  |
| 4               | 36     | 0.000                 | 0.110  | 11.40 |
| 5               | 36     | 0.000                 | 0.110  | 16.50 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-G

**BU#:** Guy Anchor at 247 ft  
**Site Name:** MONTVILLE CT

**Location:** A

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 24.65 | kips |
| Uplift, <b>Ua:</b>           | 33.79 | kips |
| Resultant Force, <b>Rf:</b>  | 41.82 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 247.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 9.8  | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 3.0  | ft              |
| Anchor Length, <b>La:</b>              | 12.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 5.3  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 0    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 81.00                 | 24.65         | OK    | 30.4% |
| Uplift Capacity (kips): | 95.65                 | 33.79         | OK    | 35.3% |

| Soil Properties |        | No. of Soil Layers? 5 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 6.80  |
| 4               | 36     | 0.000                 | 0.110  | 11.40 |
| 5               | 36     | 0.000                 | 0.110  | 16.50 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction  
 δ = Soil Unit Weight  
 d = Depth to Bottom of Layer



# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 115 ft  
**Site Name:** MONTVILLE CT

**Location:** B

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 10.47 | kips |
| Uplift, <b>Ua:</b>           | 5.37  | kips |
| Resultant Force, <b>Rf:</b>  | 11.77 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 115.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 6.5  | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 3.0  | ft              |
| Anchor Length, <b>La:</b>              | 10.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 4.4  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 3    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 67.50                 | 10.47         | OK    | 15.5% |
| Uplift Capacity (kips): | 37.05                 | 5.37          | OK    | 14.5% |

| Soil Properties |        | No. of Soil Layers? 5 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 7.00  |
| 4               | 36     | 0.000                 | 0.110  | 12.00 |
| 5               | 36     | 0.000                 | 0.110  | 15.90 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction  
 δ = Soil Unit Weight  
 d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 194 ft  
**Site Name:** MONTVILLE CT

**Location:** B

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 39.66 | kips |
| Uplift, <b>Ua:</b>           | 28.19 | kips |
| Resultant Force, <b>Rf:</b>  | 48.65 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 194.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 10.0 | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 4.0  | ft              |
| Anchor Length, <b>La:</b>              | 10.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 5.9  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 3    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 90.00                 | 39.66         | OK    | 44.1% |
| Uplift Capacity (kips): | 74.78                 | 28.19         | OK    | 37.7% |

| Soil Properties |        | No. of Soil Layers? 5 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 7.00  |
| 4               | 36     | 0.000                 | 0.110  | 10.40 |
| 5               | 36     | 0.000                 | 0.110  | 15.90 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 219 ft  
**Site Name:** MONTVILLE CT

**Location:** B

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 61.28 | kips |
| Uplift, <b>Ua:</b>           | 73.65 | kips |
| Resultant Force, <b>Rf:</b>  | 95.81 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 219.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 10.0 | ft              |
| Anchor Width, <b>Wa:</b>               | 6.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 4.0  | ft              |
| Anchor Length, <b>La:</b>              | 16.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 14.2 | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 0    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                           |                   |       |       |
|-------------------------|---------------------------|-------------------|-------|-------|
|                         | Capacity/<br>Availability | Demand/<br>Limits | Check | %     |
| Shear (kips):           | 144.00                    | 61.28             | OK    | 42.6% |
| Uplift Capacity (kips): | 147.06                    | 73.65             | OK    | 50.1% |

| Soil Properties |        | No. of Soil Layers? 5 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 7.00  |
| 4               | 36     | 0.000                 | 0.110  | 10.40 |
| 5               | 36     | 0.000                 | 0.110  | 15.90 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-G

**BU#:** Guy Anchor at 247 ft  
**Site Name:** MONTVILLE CT

**Location:** B

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 24.65 | kips |
| Uplift, <b>Ua:</b>           | 33.79 | kips |
| Resultant Force, <b>Rf:</b>  | 41.82 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 247.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 9.8  | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 3.0  | ft              |
| Anchor Length, <b>La:</b>              | 12.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 5.3  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 0    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 81.00                 | 24.65         | OK    | 30.4% |
| Uplift Capacity (kips): | 95.65                 | 33.79         | OK    | 35.3% |

| Soil Properties |        | No. of Soil Layers? 5 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 7.00  |
| 4               | 36     | 0.000                 | 0.110  | 11.40 |
| 5               | 36     | 0.000                 | 0.110  | 15.90 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 115 ft  
**Site Name:** MONTVILLE CT

**Location:** C

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 10.47 | kips |
| Uplift, <b>Ua:</b>           | 5.37  | kips |
| Resultant Force, <b>Rf:</b>  | 11.77 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 115.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 6.5  | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 3.0  | ft              |
| Anchor Length, <b>La:</b>              | 10.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 4.4  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 3    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 67.50                 | 10.47         | OK    | 15.5% |
| Uplift Capacity (kips): | 37.05                 | 5.37          | OK    | 14.5% |

| Soil Properties |        | No. of Soil Layers? 5 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 30     | 0.000                 | 0.110  | 4.00  |
| 3               | 36     | 0.000                 | 0.110  | 7.00  |
| 4               | 36     | 0.000                 | 0.110  | 12.00 |
| 5               | 36     | 0.000                 | 0.110  | 16.80 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 194 ft  
**Site Name:** MONTVILLE CT

**Location:** C

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 39.66 | kips |
| Uplift, <b>Ua:</b>           | 28.19 | kips |
| Resultant Force, <b>Rf:</b>  | 48.65 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 194.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 10.0 | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 4.0  | ft              |
| Anchor Length, <b>La:</b>              | 10.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 5.9  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 3    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 90.00                 | 39.66         | OK    | 44.1% |
| Uplift Capacity (kips): | 74.70                 | 28.19         | OK    | 37.7% |

| Soil Properties |        | No. of Soil Layers? 6 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 1,000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 29     | 0.000                 | 0.110  | 2.50  |
| 3               | 30     | 0.000                 | 0.110  | 4.00  |
| 4               | 36     | 0.000                 | 0.110  | 7.00  |
| 5               | 36     | 0.000                 | 0.110  | 12.00 |
| 6               | 30     | 0.000                 | 0.110  | 15.30 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-H

**BU#:** Guy Anchor at 219 ft  
**Site Name:** MONTVILLE CT

**Location:** C

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 61.28 | kips |
| Uplift, <b>Ua:</b>           | 73.65 | kips |
| Resultant Force, <b>Rf:</b>  | 95.81 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 219.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 10.0 | ft              |
| Anchor Width, <b>Wa:</b>               | 6.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 4.0  | ft              |
| Anchor Length, <b>La:</b>              | 16.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 14.2 | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 0    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                           |                   |       |       |
|-------------------------|---------------------------|-------------------|-------|-------|
|                         | Capacity/<br>Availability | Demand/<br>Limits | Check | %     |
| Shear (kips):           | 144.00                    | 61.28             | OK    | 42.6% |
| Uplift Capacity (kips): | 151.48                    | 73.65             | OK    | 48.6% |

| Soil Properties |        | No. of Soil Layers? 6 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 29     | 0.000                 | 0.110  | 2.50  |
| 3               | 30     | 0.000                 | 0.110  | 1.00  |
| 4               | 36     | 0.000                 | 0.110  | 7.00  |
| 5               | 36     | 0.000                 | 0.110  | 12.00 |
| 6               | 30     | 0.000                 | 0.110  | 15.30 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer

# Anchor Block Foundation

Checks capacity of anchor blocks with or without a berm for a guyed tower per TIA-222-G

**BU#:** Guy Anchor at 247 ft  
**Site Name:** MONTVILLE CT

**Location:** C

| Design Reactions             |       |      |
|------------------------------|-------|------|
| Shear, <b>S:</b>             | 24.65 | kips |
| Uplift, <b>Ua:</b>           | 33.79 | kips |
| Resultant Force, <b>Rf:</b>  | 41.82 | kips |
| Tower Height, <b>H:</b>      | 372.3 | ft   |
| Guy Anchor Radius, <b>R:</b> | 247.0 | ft   |

| Guyed Anchor Properties                |      |                 |
|--|------|-----------------|
| Depth to Bottom of Deadman, <b>Da:</b> | 9.8  | ft              |
| Anchor Width, <b>Wa:</b>               | 4.0  | ft              |
| Anchor Thickness, <b>Ta:</b>           | 3.0  | ft              |
| Anchor Length, <b>La:</b>              | 12.0 | ft              |
| Concrete Volume, <b>Vc:</b>            | 5.3  | yd <sup>3</sup> |
| Frost Depth, <b>Fd:</b>                | 0    | ft              |

| Material Properties                  |       |     |
|--------------------------------------|-------|-----|
| Rebar Tensile, <b>Fy:</b>            | 60000 | psi |
| Concrete Strength, <b>F'c:</b>       | 3000  | psi |
| Concrete Density, <b>δx:</b>         | 0.150 | kcf |
| Clear Cover, <b>cc:</b>              | 3     | in  |
| Strength Reduction Factor, <b>φ:</b> | 0.9   |     |

| Skin Friction                                  |   |     |
|--|---|-----|
| Ultimate Soil Friction, <b>f<sub>s</sub></b> = | 0 | kSF |

| Design Checks           |                       |               |       |       |
|-------------------------|-----------------------|---------------|-------|-------|
|                         | Capacity/Availability | Demand/Limits | Check | %     |
| Shear (kips):           | 81.00                 | 24.65         | OK    | 30.4% |
| Uplift Capacity (kips): | 95.56                 | 33.79         | OK    | 35.4% |

| Soil Properties |        | No. of Soil Layers? 6 |        |       |
|-----------------|--------|-----------------------|--------|-------|
| Layer           | φ, deg | c, ksf                | δ, kcf | d, ft |
| Berm            | 0      | 0.000                 | 0.110  | 0.50  |
| 1               | 29     | 0.000                 | 0.110  | 2.00  |
| 2               | 29     | 0.000                 | 0.110  | 2.50  |
| 3               | 30     | 0.000                 | 0.110  | 4.00  |
| 4               | 36     | 0.000                 | 0.110  | 7.00  |
| 5               | 36     | 0.000                 | 0.110  | 12.00 |
| 6               | 30     | 0.000                 | 0.110  | 15.30 |

|          |    |       |       |                              |
|----------|----|-------|-------|------------------------------|
| Backfill | 30 | 0.500 | 0.120 | <input type="checkbox"/> use |
|----------|----|-------|-------|------------------------------|

\*key: φ = Internal Angle of Friction

δ = Soil Unit Weight

d = Depth to Bottom of Layer





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## Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10109202  
Maser Consulting Connecticut Project #: 21781061A

October 18, 2021

### Site Information

Site ID: 468399-VZW / MONTVILLE CT  
Site Name: MONTVILLE CT  
Carrier Name: Verizon Wireless  
Address: 695 Old Colchester Rd.  
Uncasville, Connecticut 06382  
New London County  
Latitude: 41.453111111°  
Longitude: -72.15402778°

### Structure Information

Tower Type: 350-Ft Guyed  
Mount Type: 13.00-Ft Sector Frame

FUZE ID # 16486598

### Analysis Results

Sector Frame: 97.4% Pass\*

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

### \*\*\*Contractor PMI Requirements:

*Included at the end of this MA report*

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

*Contractor - Please Review Specific Site PMI Requirements Upon Award*

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

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

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

Report Prepared By: Garrett Smith



Digitally signed by Eric Anderson  
Date: 2021.10.18 18:44:59-04'00'

**Executive Summary:**

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

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

**Sources of Information:**

| Document Type                            | Remarks   |
|--|---|
| <i>Radio Frequency Data Sheet (RFDS)</i> | <i>Verizon RFDS Site ID: 324410, dated July 30, 2021</i>                          |
| <i>Mount Mapping Report</i>              | <i>Hudson Design Group, LLC., Site ID: 468399, dated June 8, 2021</i>             |
| <i>Mounting Sketch</i>                   | <i>Hudson Design Group, LLC., Site Name: Montville CT, dated October 13, 2021</i> |
| <i>Mount Specification</i>               | <i>Site Pro 1, P/N: DCP12K</i>  |

**Analysis Criteria:**

|                         |  |          |
|-------------------------|--|----------|
| Codes and Standards:    | ANSI/TIA-222-H                           |          |
| Wind Parameters:        | Basic Wind Speed (Ultimate 3-sec. Gust), | 125 mph  |
|                         | Ice Wind Speed (3-sec. Gust):            | 50 mph   |
|                         | Design Ice Thickness:                    | 1.00 in  |
|                         | Risk Category:                           | II       |
|                         | Exposure Category:                       | B        |
|                         | Topographic Category:                    | 1        |
|                         | Topographic Feature Considered:          | N/A      |
|                         | Topographic Method:                      | N/A      |
|                         | Ground Elevation Factor, $K_e$ :         | 0.983    |
| Seismic Parameters:     | $S_s$ :                                  | 0.197    |
|                         | $S_1$ :                                  | 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   |
|----------------------|--------------------------|----------|--------------|-------------|----------|
|                      |                          |          | Commscope    |             | Added    |
|                      |                          |          | Samsung      |             |          |
|                      |                          |          | Samsung      | RF4439d-25A |          |
|                      |                          |          | Samsung      | RF4440d-13A |          |
|                      |                          |          | Commscope    |             | Retained |
|                      |                          |          | Raycap       |             |          |

\* Equipment is flush mounted directly to the Guyed. They are not mounted on the sector frame mounts and are not included in this mount analysis.

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

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

**Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
  - Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - Pipe    ASTM A53 (Gr. B-35)
  - Threaded Rod                                      F1554 (Gr. 36)
  - Bolts     ASTM A325

**Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.**

**Analysis Results:**

| Component                  | Utilization % | Pass/Fail   |
|----------------------------|---------------|-------------|
| <i>Threaded Rod</i>        | <i>16.2%</i>  | <i>Pass</i> |
| <i>Antenna Pipe</i>        | <i>24.5%</i>  | <i>Pass</i> |
| <i>Tie Back</i>            | <i>23.7%</i>  | <i>Pass</i> |
| <i>Standoff Bar</i>        | <i>24.2%</i>  | <i>Pass</i> |
| <i>Standoff Vertical</i>   | <i>87.0%</i>  | <i>Pass</i> |
| <i>Standoff Diagonal</i>   | <i>97.4%</i>  | <i>Pass</i> |
| <i>Standoff Horizontal</i> | <i>7.7%</i>   | <i>Pass</i> |
| <i>Face Horizontal</i>     | <i>28.8%</i>  | <i>Pass</i> |
| <i>Connection Check</i>    | <i>27.2%</i>  | <i>Pass</i> |

|   |              |
|---|--------------|
| <b>Structure Rating – (Controlling Utilization of all Components)</b> | <b>97.4%</b> |
|---|--------------|

**Recommendation:**

The existing mounts will be **SUFFICIENT** for the final loading configuration upon the completion of the recommendations listed in the Special Instructions section of the below referenced PMI document.

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:**

- Mount Photos
- Mount Mapping Report (for reference only)
- Analysis Calculations
- Contractor Required Post Installation Inspection (PMI) Report Deliverables**
- Antenna Placement Diagrams
- TIA Adoption and Wind Speed Usage Letter







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

| Issue # | Description of Issue | Photo # |
|---------|----------------------|---------|
|         |                      |         |
|         |                      |         |
|         |                      |         |
|         |                      |         |
|         |                      |         |
|         |                      |         |
|         |                      |         |
|         |                      |         |
|         |                      |         |
|         |                      |         |

**Observed Obstructions to Tower Lighting System**

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

**Mapping Notes**

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

**Standard Conditions**

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





### Antenna Mount Mapping Form (PATENT PENDING)

|                            |                           |                               |             |
|----------------------------|---------------------------|-------------------------------|-------------|
| <b>Tower Owner:</b>        | Wireless Solutions        | <b>Mapping Date:</b>          | 6/8/2021    |
| <b>Site Name:</b>          | MONTVILLE CT              | <b>Tower Type:</b>            | Guyed Tower |
| <b>Site Number or ID:</b>  | 468399                    | <b>Tower Height (Ft.):</b>    | 350         |
| <b>Mapping Contractor:</b> | HUDSON DESIGN GROUP, LLC. | <b>Mount Elevation (Ft.):</b> | 304         |

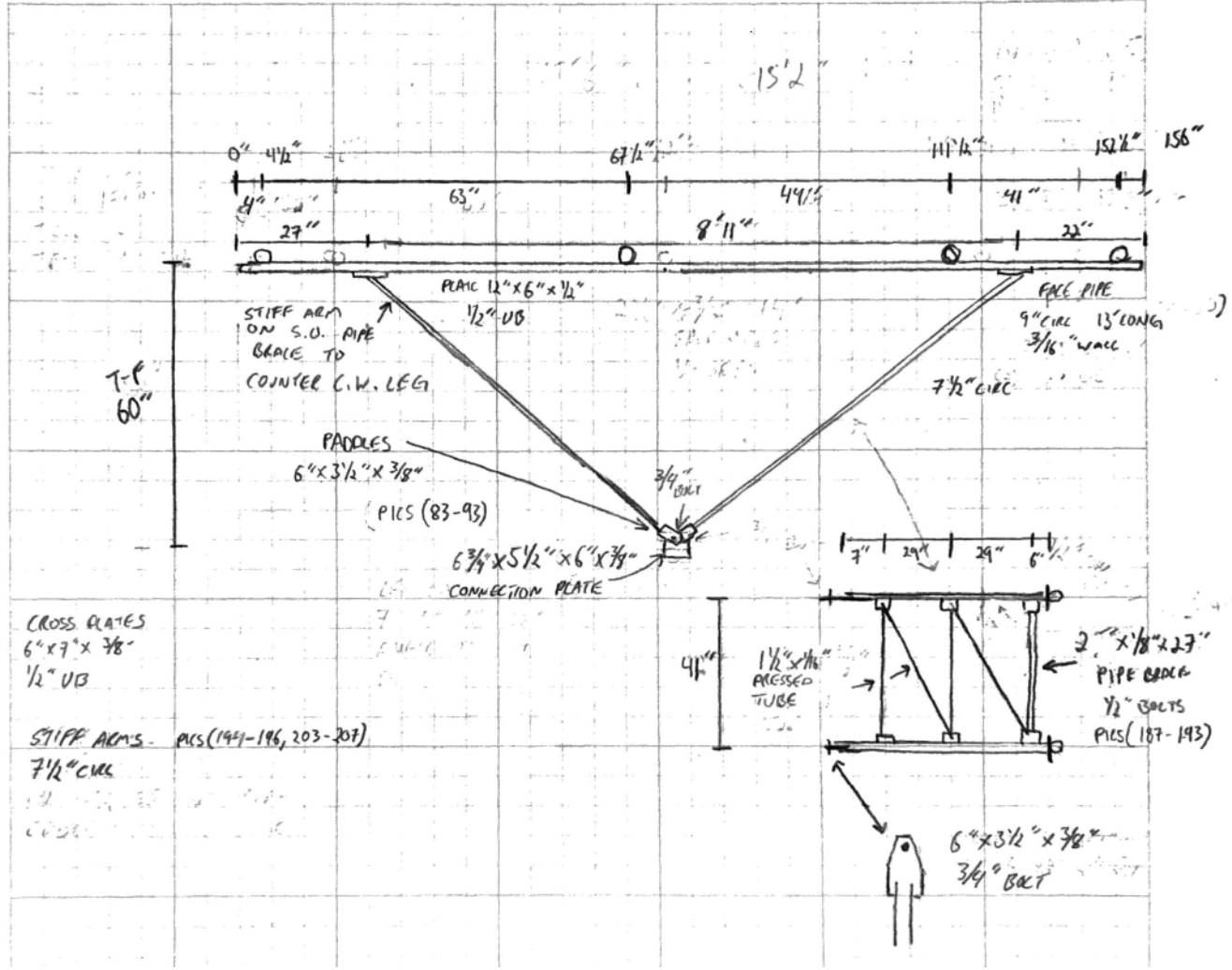
This antenna mapping form is the property of TES and under . The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except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

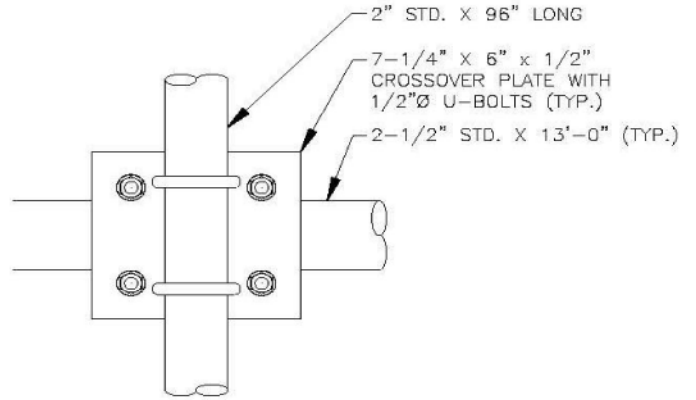
Please Insert Sketches of the Antenna Mount

DATE: 06082021  
 Project Name: COLLIGRS  
 Project No.: MONTVILLE CT  
 Design By: JD Chk'd By: \_\_\_\_\_

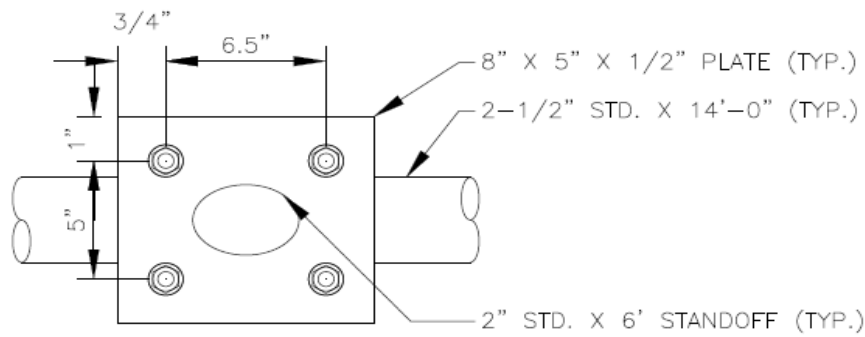
Page      of     

45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5586

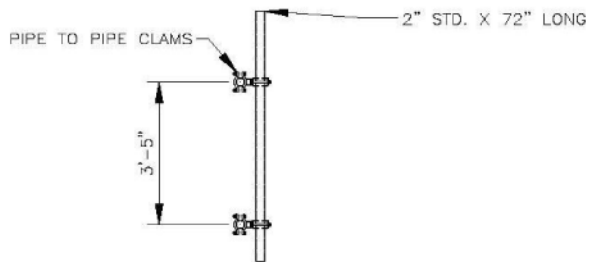




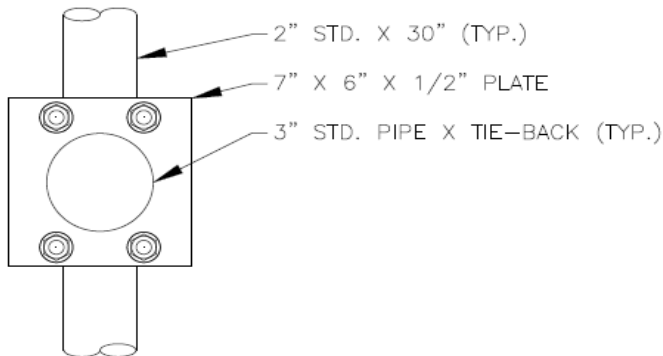
**CROSSOVER PLATE  
DETAIL**



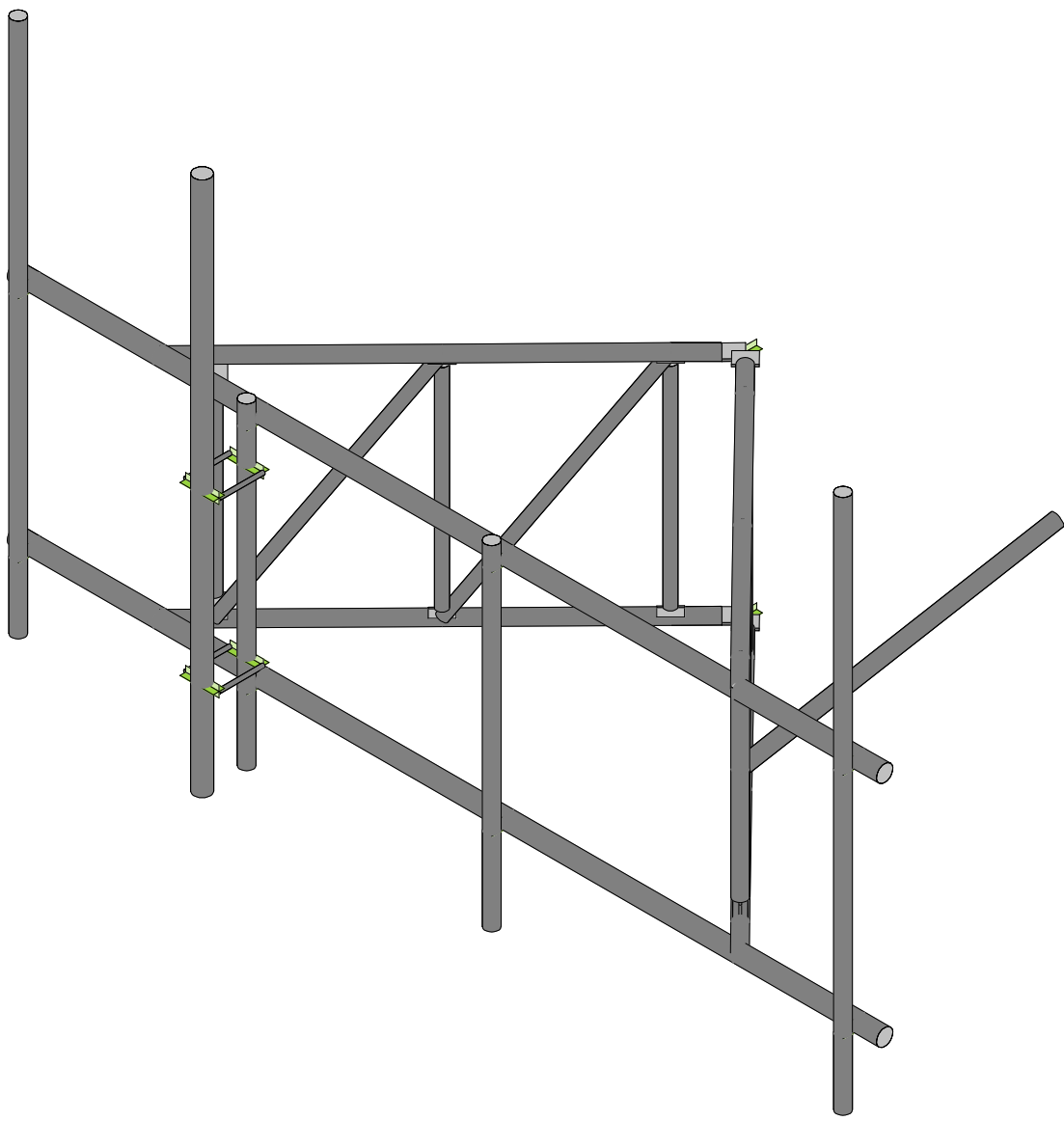
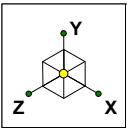
**STANDOFF TOWER LEG**



**MAST DETAIL**



**CROSSOVER PLATE DETAIL**



Maser Consulting

468399-VZW\_MT\_LOT\_SectorA\_H

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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     |           |           |           |       | 30    |                        |              |
| 2  | Antenna Di             | None     |           |           |           |       | 30    |                        |              |
| 3  | Antenna Wo (0 Deg)     | None     |           |           |           |       | 30    |                        |              |
| 4  | Antenna Wo (30 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 5  | Antenna Wo (60 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 6  | Antenna Wo (90 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 7  | Antenna Wo (120 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 8  | Antenna Wo (150 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 9  | Antenna Wo (180 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 10 | Antenna Wo (210 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 11 | Antenna Wo (240 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 12 | Antenna Wo (270 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 13 | Antenna Wo (300 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 14 | Antenna Wo (330 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 15 | Antenna Wi (0 Deg)     | None     |           |           |           |       | 30    |                        |              |
| 16 | Antenna Wi (30 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 17 | Antenna Wi (60 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 18 | Antenna Wi (90 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 19 | Antenna Wi (120 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 20 | Antenna Wi (150 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 21 | Antenna Wi (180 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 22 | Antenna Wi (210 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 23 | Antenna Wi (240 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 24 | Antenna Wi (270 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 25 | Antenna Wi (300 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 26 | Antenna Wi (330 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 27 | Antenna Wm (0 Deg)     | None     |           |           |           |       | 30    |                        |              |
| 28 | Antenna Wm (30 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 29 | Antenna Wm (60 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 30 | Antenna Wm (90 Deg)    | None     |           |           |           |       | 30    |                        |              |
| 31 | Antenna Wm (120 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 32 | Antenna Wm (150 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 33 | Antenna Wm (180 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 34 | Antenna Wm (210 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 35 | Antenna Wm (240 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 36 | Antenna Wm (270 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 37 | Antenna Wm (300 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 38 | Antenna Wm (330 Deg)   | None     |           |           |           |       | 30    |                        |              |
| 39 | Structure D            | None     |           | -1        |           |       |       |                        |              |
| 40 | Structure Di           | None     |           |           |           |       |       | 42                     |              |
| 41 | Structure Wo (0 Deg)   | None     |           |           |           |       |       | 84                     |              |
| 42 | Structure Wo (30 Deg)  | None     |           |           |           |       |       | 84                     |              |
| 43 | Structure Wo (60 Deg)  | None     |           |           |           |       |       | 84                     |              |
| 44 | Structure Wo (90 Deg)  | None     |           |           |           |       |       | 84                     |              |
| 45 | Structure Wo (120 D... | None     |           |           |           |       |       | 84                     |              |
| 46 | Structure Wo (150 D... | None     |           |           |           |       |       | 84                     |              |
| 47 | Structure Wo (180 D... | None     |           |           |           |       |       | 84                     |              |
| 48 | Structure Wo (210 D... | None     |           |           |           |       |       | 84                     |              |
| 49 | Structure Wo (240 D... | None     |           |           |           |       |       | 84                     |              |
| 50 | Structure Wo (270 D... | None     |           |           |           |       |       | 84                     |              |
| 51 | Structure Wo (300 D... | None     |           |           |           |       |       | 84                     |              |
| 52 | Structure Wo (330 D... | None     |           |           |           |       |       | 84                     |              |
| 53 | Structure Wi (0 Deg)   | None     |           |           |           |       |       | 84                     |              |
| 54 | Structure Wi (30 Deg)  | None     |           |           |           |       |       | 84                     |              |
| 55 | Structure Wi (60 Deg)  | None     |           |           |           |       |       | 84                     |              |
| 56 | Structure Wi (90 Deg)  | None     |           |           |           |       |       | 84                     |              |













Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

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 Checked By: \_\_\_\_\_

**Member Primary Data**

|    | Label  | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape     | Type   | Design List  | Material  | Design Rules |
|----|--------|---------|---------|---------|-------------|-------------------|--------|--------------|-----------|--------------|
| 1  | M2     | N1      | N4      |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 2  | M5     | N1      | N17A    |         | 90          | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 3  | M6     | N1      | N18     |         | 90          | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 4  | M7     | N11A    | N12     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B | Typical      |
| 5  | M8     | N5      | N19     |         | 90          | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 6  | M9     | N5      | N20     |         | 90          | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 7  | FACE   | N16     | N17     |         |             | Face Horizontal   | Beam   | Pipe         | A53 Gr. B | Typical      |
| 8  | M11    | N17A    | N10     |         |             | Standoff Horiz... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 9  | M12    | N18     | N11     |         |             | Standoff Horiz... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 10 | M13    | N19     | N14     |         |             | Standoff Horiz... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 11 | M14    | N20     | N15     |         |             | Standoff Horiz... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 12 | M15    | N21     | N29     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 13 | M16    | N21     | N24     |         | 90          | Standoff Diago... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 14 | M17    | N23     | N30     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 15 | M18    | N23     | N26     |         | 90          | Standoff Diago... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 16 | M19    | N26     | N31     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 17 | M20    | N27     | N22     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 18 | M21    | N28     | N24     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 19 | M22    | N29     | N27     | N1      |             | Standoff Diago... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 20 | M23    | N30     | N28     | N1      |             | Standoff Diago... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 21 | M24    | N31     | N32     | N1      |             | Standoff Vertical | Beam   | Pipe         | A53 Gr. B | Typical      |
| 22 | M25    | N32     | N25     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 23 | M26    | N33     | N41     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 24 | M27    | N33     | N36     |         | 90          | Standoff Diago... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 25 | M28    | N35     | N42     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 26 | M29    | N35     | N38     |         | 90          | Standoff Diago... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 27 | M30    | N38     | N43     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 28 | M31    | N39     | N34     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 29 | M32    | N40     | N36     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 30 | M33    | N41     | N39     | N1      |             | Standoff Diago... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 31 | M34    | N42     | N40     | N1      |             | Standoff Diago... | Beam   | Pipe         | A53 Gr. B | Typical      |
| 32 | M35    | N43     | N44     | N1      |             | Standoff Vertical | Beam   | Pipe         | A53 Gr. B | Typical      |
| 33 | M36    | N44     | N37     | N1      |             | Standoff Bar      | Beam   | RECT         | A36 Gr.36 | Typical      |
| 34 | M43    | N57     | N59     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 35 | LIVE2  | N58     | N60     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 36 | MP1A   | N61     | N62     |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B | Typical      |
| 37 | M46    | N66A    | N68     |         |             | Tie Back          | Beam   | Pipe         | A53 Gr. B | Typical      |
| 38 | M46A   | N5      | N65     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 39 | M39    | N49     | N51     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 40 | M40    | N50     | N52     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 41 | MP2A   | N53     | N54     |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B | Typical      |
| 42 | M42    | N55     | N57A    |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 43 | LIUVE1 | N56     | N58A    |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 44 | M45    | N61A    | N63A    |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 45 | M46B   | N62A    | N64     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 46 | MP4A   | N65A    | N66     |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B | Typical      |
| 47 | MP3    | N66B    | N67     |         |             | Antenna Pipe      | Column | Pipe         | A53 Gr. B | Typical      |
| 48 | M48    | N68A    | N70     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 49 | M49    | N68A    | N72     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 50 | M50    | N69     | N71     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 51 | M51    | N69     | N73     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 52 | M52    | N74     | N76     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 53 | M53    | N74     | N78     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 54 | M54    | N75     | N77     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 55 | M55    | N75     | N79     |         |             | RIGID             | None   | None         | RIGID     | Typical      |
| 56 | M56    | N72     | N78     |         |             | Threaded Rod      | Beam   | Single Angle | A36 Gr.36 | Typical      |
| 57 | M57    | N70     | N76     |         |             | Threaded Rod      | Beam   | Single Angle | A36 Gr.36 | Typical      |



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

Oct 18, 2021  
 4:24 PM  
 Checked By: \_\_\_\_\_

**Member Primary Data (Continued)**

|    | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type   | Design List  | Material  | Design Rules |
|----|-------|---------|---------|---------|-------------|---------------|--------|--------------|-----------|--------------|
| 58 | M58   | N73     | N79     |         |             | Threaded Rod  | Beam   | Single Angle | A36 Gr.36 | Typical      |
| 59 | M59   | N71     | N77     |         |             | Threaded Rod  | Beam   | Single Angle | A36 Gr.36 | Typical      |
| 60 | MP3A  | N80     | N81     |         |             | P2.5          | Column | Pipe         | A53 Gr. B | Typical      |

**Member Advanced Data**

|    | Label  | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|----|--------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 1  | M2     |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 2  | M5     |           |           |              |              |          | Yes      | Default     |              |          | None       |
| 3  | M6     |           |           |              |              |          | Yes      | Default     |              |          | None       |
| 4  | M7     |           |           |              |              |          | Yes      |             |              |          | None       |
| 5  | M8     |           |           |              |              |          | Yes      | Default     |              |          | None       |
| 6  | M9     |           |           |              |              |          | Yes      | Default     |              |          | None       |
| 7  | FACE   |           |           |              |              |          | Yes      |             |              |          | None       |
| 8  | M11    |           |           |              |              |          | Yes      |             |              |          | None       |
| 9  | M12    |           |           |              |              |          | Yes      |             |              |          | None       |
| 10 | M13    |           |           |              |              |          | Yes      |             |              |          | None       |
| 11 | M14    |           |           |              |              |          | Yes      |             |              |          | None       |
| 12 | M15    | OOOOOX    |           |              |              |          | Yes      |             |              |          | None       |
| 13 | M16    | BenPIN    | BenPIN    |              |              |          | Yes      | Default     |              |          | None       |
| 14 | M17    | OOOOOX    |           |              |              |          | Yes      |             |              |          | None       |
| 15 | M18    | BenPIN    | BenPIN    |              |              |          | Yes      | Default     |              |          | None       |
| 16 | M19    | OOOOOX    |           |              |              |          | Yes      |             |              |          | None       |
| 17 | M20    |           | OOOOOO    |              |              |          | Yes      |             |              |          | None       |
| 18 | M21    |           | OOOOOO    |              |              |          | Yes      |             |              |          | None       |
| 19 | M22    |           |           |              |              |          | Yes      |             |              |          | None       |
| 20 | M23    |           |           |              |              |          | Yes      |             |              |          | None       |
| 21 | M24    |           |           |              |              |          | Yes      |             |              |          | None       |
| 22 | M25    |           | OOOOOO    |              |              |          | Yes      | Default     |              |          | None       |
| 23 | M26    | OOOOOX    |           |              |              |          | Yes      |             |              |          | None       |
| 24 | M27    | BenPIN    | BenPIN    |              |              |          | Yes      |             |              |          | None       |
| 25 | M28    | OOOOOX    |           |              |              |          | Yes      |             |              |          | None       |
| 26 | M29    | BenPIN    | BenPIN    |              |              |          | Yes      | Default     |              |          | None       |
| 27 | M30    | OOOOOX    |           |              |              |          | Yes      |             |              |          | None       |
| 28 | M31    |           | OOOOOO    |              |              |          | Yes      |             |              |          | None       |
| 29 | M32    |           | OOOOOO    |              |              |          | Yes      |             |              |          | None       |
| 30 | M33    |           |           |              |              |          | Yes      |             |              |          | None       |
| 31 | M34    |           |           |              |              |          | Yes      |             |              |          | None       |
| 32 | M35    |           |           |              |              |          | Yes      |             |              |          | None       |
| 33 | M36    |           | OOOOOO    |              |              |          | Yes      |             |              |          | None       |
| 34 | M43    |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 35 | LIVE2  |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 36 | MP1A   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 37 | M46    | OOOOXO    |           |              |              |          | Yes      | Default     |              |          | None       |
| 38 | M46A   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 39 | M39    |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 40 | M40    |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 41 | MP2A   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 42 | M42    |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 43 | LIUVE1 |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 44 | M45    |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 45 | M46B   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 46 | MP4A   |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 47 | MP3    |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 48 | M48    |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |
| 49 | M49    |           |           |              |              |          | Yes      | ** NA **    |              |          | None       |





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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 9  | MP3A         | Mz        | .039               | 2               |
| 10 | MP3A         | Y         | -66.154            | 7               |
| 11 | MP3A         | My        | -.033              | 7               |
| 12 | MP3A         | Mz        | .039               | 7               |
| 13 | MP1A         | Y         | -38.894            | 3.5             |
| 14 | MP1A         | My        | -.019              | 3.5             |
| 15 | MP1A         | Mz        | 0                  | 3.5             |
| 16 | MP1A         | Y         | -38.894            | 5.5             |
| 17 | MP1A         | My        | -.019              | 5.5             |
| 18 | MP1A         | Mz        | 0                  | 5.5             |
| 19 | MP2A         | Y         | -49.102            | 2               |
| 20 | MP2A         | My        | .025               | 2               |
| 21 | MP2A         | Mz        | 0                  | 2               |
| 22 | MP3          | Y         | -46.774            | 2.5             |
| 23 | MP3          | My        | 0                  | 2.5             |
| 24 | MP3          | Mz        | 0                  | 2.5             |
| 25 | MP4A         | Y         | -73.424            | 2               |
| 26 | MP4A         | My        | -.028              | 2               |
| 27 | MP4A         | Mz        | -.024              | 2               |
| 28 | MP4A         | Y         | -73.424            | 7               |
| 29 | MP4A         | My        | -.028              | 7               |
| 30 | MP4A         | Mz        | -.024              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 0                  | 2               |
| 2  | MP3A         | Z         | -184.581           | 2               |
| 3  | MP3A         | Mx        | .108               | 2               |
| 4  | MP3A         | X         | 0                  | 7               |
| 5  | MP3A         | Z         | -184.581           | 7               |
| 6  | MP3A         | Mx        | .108               | 7               |
| 7  | MP3A         | X         | 0                  | 2               |
| 8  | MP3A         | Z         | -184.581           | 2               |
| 9  | MP3A         | Mx        | -.108              | 2               |
| 10 | MP3A         | X         | 0                  | 7               |
| 11 | MP3A         | Z         | -184.581           | 7               |
| 12 | MP3A         | Mx        | -.108              | 7               |
| 13 | MP1A         | X         | 0                  | 3.5             |
| 14 | MP1A         | Z         | -107.267           | 3.5             |
| 15 | MP1A         | Mx        | 0                  | 3.5             |
| 16 | MP1A         | X         | 0                  | 5.5             |
| 17 | MP1A         | Z         | -107.267           | 5.5             |
| 18 | MP1A         | Mx        | 0                  | 5.5             |
| 19 | MP2A         | X         | 0                  | 2               |
| 20 | MP2A         | Z         | -85.357            | 2               |
| 21 | MP2A         | Mx        | 0                  | 2               |
| 22 | MP3          | X         | 0                  | 2.5             |
| 23 | MP3          | Z         | -84.349            | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 0                  | 2               |
| 26 | MP4A         | Z         | -181.518           | 2               |
| 27 | MP4A         | Mx        | .058               | 2               |
| 28 | MP4A         | X         | 0                  | 7               |
| 29 | MP4A         | Z         | -181.518           | 7               |
| 30 | MP4A         | Mx        | .058               | 7               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 84.471             | 2               |
| 2  | MP3A         | Z         | -146.309           | 2               |
| 3  | MP3A         | Mx        | .043               | 2               |
| 4  | MP3A         | X         | 84.471             | 7               |
| 5  | MP3A         | Z         | -146.309           | 7               |
| 6  | MP3A         | Mx        | .043               | 7               |
| 7  | MP3A         | X         | 84.471             | 2               |
| 8  | MP3A         | Z         | -146.309           | 2               |
| 9  | MP3A         | Mx        | -.128              | 2               |
| 10 | MP3A         | X         | 84.471             | 7               |
| 11 | MP3A         | Z         | -146.309           | 7               |
| 12 | MP3A         | Mx        | -.128              | 7               |
| 13 | MP1A         | X         | 45.475             | 3.5             |
| 14 | MP1A         | Z         | -78.764            | 3.5             |
| 15 | MP1A         | Mx        | -.023              | 3.5             |
| 16 | MP1A         | X         | 45.475             | 5.5             |
| 17 | MP1A         | Z         | -78.764            | 5.5             |
| 18 | MP1A         | Mx        | -.023              | 5.5             |
| 19 | MP2A         | X         | 39.141             | 2               |
| 20 | MP2A         | Z         | -67.794            | 2               |
| 21 | MP2A         | Mx        | .02                | 2               |
| 22 | MP3          | X         | 40.723             | 2.5             |
| 23 | MP3          | Z         | -70.534            | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 104.264            | 2               |
| 26 | MP4A         | Z         | -180.591           | 2               |
| 27 | MP4A         | Mx        | .018               | 2               |
| 28 | MP4A         | X         | 104.264            | 7               |
| 29 | MP4A         | Z         | -180.591           | 7               |
| 30 | MP4A         | Mx        | .018               | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 119.221            | 2               |
| 2  | MP3A         | Z         | -68.833            | 2               |
| 3  | MP3A         | Mx        | -.019              | 2               |
| 4  | MP3A         | X         | 119.221            | 7               |
| 5  | MP3A         | Z         | -68.833            | 7               |
| 6  | MP3A         | Mx        | -.019              | 7               |
| 7  | MP3A         | X         | 119.221            | 2               |
| 8  | MP3A         | Z         | -68.833            | 2               |
| 9  | MP3A         | Mx        | -.1                | 2               |
| 10 | MP3A         | X         | 119.221            | 7               |
| 11 | MP3A         | Z         | -68.833            | 7               |
| 12 | MP3A         | Mx        | -.1                | 7               |
| 13 | MP1A         | X         | 50.501             | 3.5             |
| 14 | MP1A         | Z         | -29.157            | 3.5             |
| 15 | MP1A         | Mx        | -.025              | 3.5             |
| 16 | MP1A         | X         | 50.501             | 5.5             |
| 17 | MP1A         | Z         | -29.157            | 5.5             |
| 18 | MP1A         | Mx        | -.025              | 5.5             |
| 19 | MP2A         | X         | 55.54              | 2               |
| 20 | MP2A         | Z         | -32.066            | 2               |
| 21 | MP2A         | Mx        | .028               | 2               |
| 22 | MP3          | X         | 56.93              | 2.5             |
| 23 | MP3          | Z         | -32.868            | 2.5             |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 24 | MP3          | Mx        | 0                  | 2.5            |
| 25 | MP4A         | X         | 175.288            | 2              |
| 26 | MP4A         | Z         | -101.203           | 2              |
| 27 | MP4A         | Mx        | -.035              | 2              |
| 28 | MP4A         | X         | 175.288            | 7              |
| 29 | MP4A         | Z         | -101.203           | 7              |
| 30 | MP4A         | Mx        | -.035              | 7              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP3A         | X         | 122.026            | 2              |
| 2  | MP3A         | Z         | 0                  | 2              |
| 3  | MP3A         | Mx        | -.061              | 2              |
| 4  | MP3A         | X         | 122.026            | 7              |
| 5  | MP3A         | Z         | 0                  | 7              |
| 6  | MP3A         | Mx        | -.061              | 7              |
| 7  | MP3A         | X         | 122.026            | 2              |
| 8  | MP3A         | Z         | 0                  | 2              |
| 9  | MP3A         | Mx        | -.061              | 2              |
| 10 | MP3A         | X         | 122.026            | 7              |
| 11 | MP3A         | Z         | 0                  | 7              |
| 12 | MP3A         | Mx        | -.061              | 7              |
| 13 | MP1A         | X         | 41.995             | 3.5            |
| 14 | MP1A         | Z         | 0                  | 3.5            |
| 15 | MP1A         | Mx        | -.021              | 3.5            |
| 16 | MP1A         | X         | 41.995             | 5.5            |
| 17 | MP1A         | Z         | 0                  | 5.5            |
| 18 | MP1A         | Mx        | -.021              | 5.5            |
| 19 | MP2A         | X         | 57.057             | 2              |
| 20 | MP2A         | Z         | 0                  | 2              |
| 21 | MP2A         | Mx        | .029               | 2              |
| 22 | MP3          | X         | 52.93              | 2.5            |
| 23 | MP3          | Z         | 0                  | 2.5            |
| 24 | MP3          | Mx        | 0                  | 2.5            |
| 25 | MP4A         | X         | 169.272            | 2              |
| 26 | MP4A         | Z         | 0                  | 2              |
| 27 | MP4A         | Mx        | -.065              | 2              |
| 28 | MP4A         | X         | 169.272            | 7              |
| 29 | MP4A         | Z         | 0                  | 7              |
| 30 | MP4A         | Mx        | -.065              | 7              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP3A         | X         | 119.221            | 2              |
| 2  | MP3A         | Z         | 68.833             | 2              |
| 3  | MP3A         | Mx        | -.1                | 2              |
| 4  | MP3A         | X         | 119.221            | 7              |
| 5  | MP3A         | Z         | 68.833             | 7              |
| 6  | MP3A         | Mx        | -.1                | 7              |
| 7  | MP3A         | X         | 119.221            | 2              |
| 8  | MP3A         | Z         | 68.833             | 2              |
| 9  | MP3A         | Mx        | -.019              | 2              |
| 10 | MP3A         | X         | 119.221            | 7              |
| 11 | MP3A         | Z         | 68.833             | 7              |
| 12 | MP3A         | Mx        | -.019              | 7              |
| 13 | MP1A         | X         | 50.501             | 3.5            |





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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 14 | MP1A         | Z         | 29.157             | 3.5             |
| 15 | MP1A         | Mx        | -.025              | 3.5             |
| 16 | MP1A         | X         | 50.501             | 5.5             |
| 17 | MP1A         | Z         | 29.157             | 5.5             |
| 18 | MP1A         | Mx        | -.025              | 5.5             |
| 19 | MP2A         | X         | 55.54              | 2               |
| 20 | MP2A         | Z         | 32.066             | 2               |
| 21 | MP2A         | Mx        | .028               | 2               |
| 22 | MP3          | X         | 48.353             | 2.5             |
| 23 | MP3          | Z         | 27.917             | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 123.202            | 2               |
| 26 | MP4A         | Z         | 71.131             | 2               |
| 27 | MP4A         | Mx        | -.07               | 2               |
| 28 | MP4A         | X         | 123.202            | 7               |
| 29 | MP4A         | Z         | 71.131             | 7               |
| 30 | MP4A         | Mx        | -.07               | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 84.471             | 2               |
| 2  | MP3A         | Z         | 146.309            | 2               |
| 3  | MP3A         | Mx        | -.128              | 2               |
| 4  | MP3A         | X         | 84.471             | 7               |
| 5  | MP3A         | Z         | 146.309            | 7               |
| 6  | MP3A         | Mx        | -.128              | 7               |
| 7  | MP3A         | X         | 84.471             | 2               |
| 8  | MP3A         | Z         | 146.309            | 2               |
| 9  | MP3A         | Mx        | .043               | 2               |
| 10 | MP3A         | X         | 84.471             | 7               |
| 11 | MP3A         | Z         | 146.309            | 7               |
| 12 | MP3A         | Mx        | .043               | 7               |
| 13 | MP1A         | X         | 45.475             | 3.5             |
| 14 | MP1A         | Z         | 78.764             | 3.5             |
| 15 | MP1A         | Mx        | -.023              | 3.5             |
| 16 | MP1A         | X         | 45.475             | 5.5             |
| 17 | MP1A         | Z         | 78.764             | 5.5             |
| 18 | MP1A         | Mx        | -.023              | 5.5             |
| 19 | MP2A         | X         | 39.141             | 2               |
| 20 | MP2A         | Z         | 67.794             | 2               |
| 21 | MP2A         | Mx        | .02                | 2               |
| 22 | MP3          | X         | 35.771             | 2.5             |
| 23 | MP3          | Z         | 61.958             | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 74.192             | 2               |
| 26 | MP4A         | Z         | 128.505            | 2               |
| 27 | MP4A         | Mx        | -.07               | 2               |
| 28 | MP4A         | X         | 74.192             | 7               |
| 29 | MP4A         | Z         | 128.505            | 7               |
| 30 | MP4A         | Mx        | -.07               | 7               |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | MP3A         | X         | 0                  | 2               |
| 2 | MP3A         | Z         | 184.581            | 2               |
| 3 | MP3A         | Mx        | -.108              | 2               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 4  | MP3A         | X         | 0                  | 7              |
| 5  | MP3A         | Z         | 184.581            | 7              |
| 6  | MP3A         | Mx        | -.108              | 7              |
| 7  | MP3A         | X         | 0                  | 2              |
| 8  | MP3A         | Z         | 184.581            | 2              |
| 9  | MP3A         | Mx        | .108               | 2              |
| 10 | MP3A         | X         | 0                  | 7              |
| 11 | MP3A         | Z         | 184.581            | 7              |
| 12 | MP3A         | Mx        | .108               | 7              |
| 13 | MP1A         | X         | 0                  | 3.5            |
| 14 | MP1A         | Z         | 107.267            | 3.5            |
| 15 | MP1A         | Mx        | 0                  | 3.5            |
| 16 | MP1A         | X         | 0                  | 5.5            |
| 17 | MP1A         | Z         | 107.267            | 5.5            |
| 18 | MP1A         | Mx        | 0                  | 5.5            |
| 19 | MP2A         | X         | 0                  | 2              |
| 20 | MP2A         | Z         | 85.357             | 2              |
| 21 | MP2A         | Mx        | 0                  | 2              |
| 22 | MP3          | X         | 0                  | 2.5            |
| 23 | MP3          | Z         | 84.349             | 2.5            |
| 24 | MP3          | Mx        | 0                  | 2.5            |
| 25 | MP4A         | X         | 0                  | 2              |
| 26 | MP4A         | Z         | 181.518            | 2              |
| 27 | MP4A         | Mx        | -.058              | 2              |
| 28 | MP4A         | X         | 0                  | 7              |
| 29 | MP4A         | Z         | 181.518            | 7              |
| 30 | MP4A         | Mx        | -.058              | 7              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP3A         | X         | -84.471            | 2              |
| 2  | MP3A         | Z         | 146.309            | 2              |
| 3  | MP3A         | Mx        | -.043              | 2              |
| 4  | MP3A         | X         | -84.471            | 7              |
| 5  | MP3A         | Z         | 146.309            | 7              |
| 6  | MP3A         | Mx        | -.043              | 7              |
| 7  | MP3A         | X         | -84.471            | 2              |
| 8  | MP3A         | Z         | 146.309            | 2              |
| 9  | MP3A         | Mx        | .128               | 2              |
| 10 | MP3A         | X         | -84.471            | 7              |
| 11 | MP3A         | Z         | 146.309            | 7              |
| 12 | MP3A         | Mx        | .128               | 7              |
| 13 | MP1A         | X         | -45.475            | 3.5            |
| 14 | MP1A         | Z         | 78.764             | 3.5            |
| 15 | MP1A         | Mx        | .023               | 3.5            |
| 16 | MP1A         | X         | -45.475            | 5.5            |
| 17 | MP1A         | Z         | 78.764             | 5.5            |
| 18 | MP1A         | Mx        | .023               | 5.5            |
| 19 | MP2A         | X         | -39.141            | 2              |
| 20 | MP2A         | Z         | 67.794             | 2              |
| 21 | MP2A         | Mx        | -.02               | 2              |
| 22 | MP3          | X         | -40.723            | 2.5            |
| 23 | MP3          | Z         | 70.534             | 2.5            |
| 24 | MP3          | Mx        | 0                  | 2.5            |
| 25 | MP4A         | X         | -104.264           | 2              |
| 26 | MP4A         | Z         | 180.591            | 2              |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 27 | MP4A         | Mx        | -.018              | 2              |
| 28 | MP4A         | X         | -104.264           | 7              |
| 29 | MP4A         | Z         | 180.591            | 7              |
| 30 | MP4A         | Mx        | -.018              | 7              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP3A         | X         | -119.221           | 2              |
| 2  | MP3A         | Z         | 68.833             | 2              |
| 3  | MP3A         | Mx        | .019               | 2              |
| 4  | MP3A         | X         | -119.221           | 7              |
| 5  | MP3A         | Z         | 68.833             | 7              |
| 6  | MP3A         | Mx        | .019               | 7              |
| 7  | MP3A         | X         | -119.221           | 2              |
| 8  | MP3A         | Z         | 68.833             | 2              |
| 9  | MP3A         | Mx        | .1                 | 2              |
| 10 | MP3A         | X         | -119.221           | 7              |
| 11 | MP3A         | Z         | 68.833             | 7              |
| 12 | MP3A         | Mx        | .1                 | 7              |
| 13 | MP1A         | X         | -50.501            | 3.5            |
| 14 | MP1A         | Z         | 29.157             | 3.5            |
| 15 | MP1A         | Mx        | .025               | 3.5            |
| 16 | MP1A         | X         | -50.501            | 5.5            |
| 17 | MP1A         | Z         | 29.157             | 5.5            |
| 18 | MP1A         | Mx        | .025               | 5.5            |
| 19 | MP2A         | X         | -55.54             | 2              |
| 20 | MP2A         | Z         | 32.066             | 2              |
| 21 | MP2A         | Mx        | -.028              | 2              |
| 22 | MP3          | X         | -56.93             | 2.5            |
| 23 | MP3          | Z         | 32.868             | 2.5            |
| 24 | MP3          | Mx        | 0                  | 2.5            |
| 25 | MP4A         | X         | -175.288           | 2              |
| 26 | MP4A         | Z         | 101.203            | 2              |
| 27 | MP4A         | Mx        | .035               | 2              |
| 28 | MP4A         | X         | -175.288           | 7              |
| 29 | MP4A         | Z         | 101.203            | 7              |
| 30 | MP4A         | Mx        | .035               | 7              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP3A         | X         | -122.026           | 2              |
| 2  | MP3A         | Z         | 0                  | 2              |
| 3  | MP3A         | Mx        | .061               | 2              |
| 4  | MP3A         | X         | -122.026           | 7              |
| 5  | MP3A         | Z         | 0                  | 7              |
| 6  | MP3A         | Mx        | .061               | 7              |
| 7  | MP3A         | X         | -122.026           | 2              |
| 8  | MP3A         | Z         | 0                  | 2              |
| 9  | MP3A         | Mx        | .061               | 2              |
| 10 | MP3A         | X         | -122.026           | 7              |
| 11 | MP3A         | Z         | 0                  | 7              |
| 12 | MP3A         | Mx        | .061               | 7              |
| 13 | MP1A         | X         | -41.995            | 3.5            |
| 14 | MP1A         | Z         | 0                  | 3.5            |
| 15 | MP1A         | Mx        | .021               | 3.5            |
| 16 | MP1A         | X         | -41.995            | 5.5            |





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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 7  | MP3A         | X         | -84.471            | 2               |
| 8  | MP3A         | Z         | -146.309           | 2               |
| 9  | MP3A         | Mx        | -.043              | 2               |
| 10 | MP3A         | X         | -84.471            | 7               |
| 11 | MP3A         | Z         | -146.309           | 7               |
| 12 | MP3A         | Mx        | -.043              | 7               |
| 13 | MP1A         | X         | -45.475            | 3.5             |
| 14 | MP1A         | Z         | -78.764            | 3.5             |
| 15 | MP1A         | Mx        | .023               | 3.5             |
| 16 | MP1A         | X         | -45.475            | 5.5             |
| 17 | MP1A         | Z         | -78.764            | 5.5             |
| 18 | MP1A         | Mx        | .023               | 5.5             |
| 19 | MP2A         | X         | -39.141            | 2               |
| 20 | MP2A         | Z         | -67.794            | 2               |
| 21 | MP2A         | Mx        | -.02               | 2               |
| 22 | MP3          | X         | -35.771            | 2.5             |
| 23 | MP3          | Z         | -61.958            | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -74.192            | 2               |
| 26 | MP4A         | Z         | -128.505           | 2               |
| 27 | MP4A         | Mx        | .07                | 2               |
| 28 | MP4A         | X         | -74.192            | 7               |
| 29 | MP4A         | Z         | -128.505           | 7               |
| 30 | MP4A         | Mx        | .07                | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 0                  | 2               |
| 2  | MP3A         | Z         | -32.842            | 2               |
| 3  | MP3A         | Mx        | .019               | 2               |
| 4  | MP3A         | X         | 0                  | 7               |
| 5  | MP3A         | Z         | -32.842            | 7               |
| 6  | MP3A         | Mx        | .019               | 7               |
| 7  | MP3A         | X         | 0                  | 2               |
| 8  | MP3A         | Z         | -32.842            | 2               |
| 9  | MP3A         | Mx        | -.019              | 2               |
| 10 | MP3A         | X         | 0                  | 7               |
| 11 | MP3A         | Z         | -32.842            | 7               |
| 12 | MP3A         | Mx        | -.019              | 7               |
| 13 | MP1A         | X         | 0                  | 3.5             |
| 14 | MP1A         | Z         | -19.577            | 3.5             |
| 15 | MP1A         | Mx        | 0                  | 3.5             |
| 16 | MP1A         | X         | 0                  | 5.5             |
| 17 | MP1A         | Z         | -19.577            | 5.5             |
| 18 | MP1A         | Mx        | 0                  | 5.5             |
| 19 | MP2A         | X         | 0                  | 2               |
| 20 | MP2A         | Z         | -16.575            | 2               |
| 21 | MP2A         | Mx        | 0                  | 2               |
| 22 | MP3          | X         | 0                  | 2.5             |
| 23 | MP3          | Z         | -16.397            | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 0                  | 2               |
| 26 | MP4A         | Z         | -32.632            | 2               |
| 27 | MP4A         | Mx        | .01                | 2               |
| 28 | MP4A         | X         | 0                  | 7               |
| 29 | MP4A         | Z         | -32.632            | 7               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 30 | MP4A         | Mx        | .01                | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 15.156             | 2               |
| 2  | MP3A         | Z         | -26.251            | 2               |
| 3  | MP3A         | Mx        | .008               | 2               |
| 4  | MP3A         | X         | 15.156             | 7               |
| 5  | MP3A         | Z         | -26.251            | 7               |
| 6  | MP3A         | Mx        | .008               | 7               |
| 7  | MP3A         | X         | 15.156             | 2               |
| 8  | MP3A         | Z         | -26.251            | 2               |
| 9  | MP3A         | Mx        | -.023              | 2               |
| 10 | MP3A         | X         | 15.156             | 7               |
| 11 | MP3A         | Z         | -26.251            | 7               |
| 12 | MP3A         | Mx        | -.023              | 7               |
| 13 | MP1A         | X         | 8.391              | 3.5             |
| 14 | MP1A         | Z         | -14.534            | 3.5             |
| 15 | MP1A         | Mx        | -.004              | 3.5             |
| 16 | MP1A         | X         | 8.391              | 5.5             |
| 17 | MP1A         | Z         | -14.534            | 5.5             |
| 18 | MP1A         | Mx        | -.004              | 5.5             |
| 19 | MP2A         | X         | 7.661              | 2               |
| 20 | MP2A         | Z         | -13.27             | 2               |
| 21 | MP2A         | Mx        | .004               | 2               |
| 22 | MP3          | X         | 7.942              | 2.5             |
| 23 | MP3          | Z         | -13.756            | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 18.513             | 2               |
| 26 | MP4A         | Z         | -32.066            | 2               |
| 27 | MP4A         | Mx        | .003               | 2               |
| 28 | MP4A         | X         | 18.513             | 7               |
| 29 | MP4A         | Z         | -32.066            | 7               |
| 30 | MP4A         | Mx        | .003               | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 21.869             | 2               |
| 2  | MP3A         | Z         | -12.626            | 2               |
| 3  | MP3A         | Mx        | -.004              | 2               |
| 4  | MP3A         | X         | 21.869             | 7               |
| 5  | MP3A         | Z         | -12.626            | 7               |
| 6  | MP3A         | Mx        | -.004              | 7               |
| 7  | MP3A         | X         | 21.869             | 2               |
| 8  | MP3A         | Z         | -12.626            | 2               |
| 9  | MP3A         | Mx        | -.018              | 2               |
| 10 | MP3A         | X         | 21.869             | 7               |
| 11 | MP3A         | Z         | -12.626            | 7               |
| 12 | MP3A         | Mx        | -.018              | 7               |
| 13 | MP1A         | X         | 9.693              | 3.5             |
| 14 | MP1A         | Z         | -5.596             | 3.5             |
| 15 | MP1A         | Mx        | -.005              | 3.5             |
| 16 | MP1A         | X         | 9.693              | 5.5             |
| 17 | MP1A         | Z         | -5.596             | 5.5             |
| 18 | MP1A         | Mx        | -.005              | 5.5             |
| 19 | MP2A         | X         | 11.102             | 2               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 20 | MP2A         | Z         | -6.409             | 2               |
| 21 | MP2A         | Mx        | .006               | 2               |
| 22 | MP3          | X         | 11.351             | 2.5             |
| 23 | MP3          | Z         | -6.554             | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 31.203             | 2               |
| 26 | MP4A         | Z         | -18.015            | 2               |
| 27 | MP4A         | Mx        | -.006              | 2               |
| 28 | MP4A         | X         | 31.203             | 7               |
| 29 | MP4A         | Z         | -18.015            | 7               |
| 30 | MP4A         | Mx        | -.006              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 22.722             | 2               |
| 2  | MP3A         | Z         | 0                  | 2               |
| 3  | MP3A         | Mx        | -.011              | 2               |
| 4  | MP3A         | X         | 22.722             | 7               |
| 5  | MP3A         | Z         | 0                  | 7               |
| 6  | MP3A         | Mx        | -.011              | 7               |
| 7  | MP3A         | X         | 22.722             | 2               |
| 8  | MP3A         | Z         | 0                  | 2               |
| 9  | MP3A         | Mx        | -.011              | 2               |
| 10 | MP3A         | X         | 22.722             | 7               |
| 11 | MP3A         | Z         | 0                  | 7               |
| 12 | MP3A         | Mx        | -.011              | 7               |
| 13 | MP1A         | X         | 8.398              | 3.5             |
| 14 | MP1A         | Z         | 0                  | 3.5             |
| 15 | MP1A         | Mx        | -.004              | 3.5             |
| 16 | MP1A         | X         | 8.398              | 5.5             |
| 17 | MP1A         | Z         | 0                  | 5.5             |
| 18 | MP1A         | Mx        | -.004              | 5.5             |
| 19 | MP2A         | X         | 11.567             | 2               |
| 20 | MP2A         | Z         | 0                  | 2               |
| 21 | MP2A         | Mx        | .006               | 2               |
| 22 | MP3          | X         | 10.844             | 2.5             |
| 23 | MP3          | Z         | 0                  | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 30.639             | 2               |
| 26 | MP4A         | Z         | 0                  | 2               |
| 27 | MP4A         | Mx        | -.012              | 2               |
| 28 | MP4A         | X         | 30.639             | 7               |
| 29 | MP4A         | Z         | 0                  | 7               |
| 30 | MP4A         | Mx        | -.012              | 7               |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | MP3A         | X         | 21.869             | 2               |
| 2 | MP3A         | Z         | 12.626             | 2               |
| 3 | MP3A         | Mx        | -.018              | 2               |
| 4 | MP3A         | X         | 21.869             | 7               |
| 5 | MP3A         | Z         | 12.626             | 7               |
| 6 | MP3A         | Mx        | -.018              | 7               |
| 7 | MP3A         | X         | 21.869             | 2               |
| 8 | MP3A         | Z         | 12.626             | 2               |
| 9 | MP3A         | Mx        | -.004              | 2               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 10 | MP3A         | X         | 21.869             | 7               |
| 11 | MP3A         | Z         | 12.626             | 7               |
| 12 | MP3A         | Mx        | -.004              | 7               |
| 13 | MP1A         | X         | 9.693              | 3.5             |
| 14 | MP1A         | Z         | 5.596              | 3.5             |
| 15 | MP1A         | Mx        | -.005              | 3.5             |
| 16 | MP1A         | X         | 9.693              | 5.5             |
| 17 | MP1A         | Z         | 5.596              | 5.5             |
| 18 | MP1A         | Mx        | -.005              | 5.5             |
| 19 | MP2A         | X         | 11.102             | 2               |
| 20 | MP2A         | Z         | 6.409              | 2               |
| 21 | MP2A         | Mx        | .006               | 2               |
| 22 | MP3          | X         | 9.835              | 2.5             |
| 23 | MP3          | Z         | 5.678              | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 22.729             | 2               |
| 26 | MP4A         | Z         | 13.122             | 2               |
| 27 | MP4A         | Mx        | -.013              | 2               |
| 28 | MP4A         | X         | 22.729             | 7               |
| 29 | MP4A         | Z         | 13.122             | 7               |
| 30 | MP4A         | Mx        | -.013              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 15.156             | 2               |
| 2  | MP3A         | Z         | 26.251             | 2               |
| 3  | MP3A         | Mx        | -.023              | 2               |
| 4  | MP3A         | X         | 15.156             | 7               |
| 5  | MP3A         | Z         | 26.251             | 7               |
| 6  | MP3A         | Mx        | -.023              | 7               |
| 7  | MP3A         | X         | 15.156             | 2               |
| 8  | MP3A         | Z         | 26.251             | 2               |
| 9  | MP3A         | Mx        | .008               | 2               |
| 10 | MP3A         | X         | 15.156             | 7               |
| 11 | MP3A         | Z         | 26.251             | 7               |
| 12 | MP3A         | Mx        | .008               | 7               |
| 13 | MP1A         | X         | 8.391              | 3.5             |
| 14 | MP1A         | Z         | 14.534             | 3.5             |
| 15 | MP1A         | Mx        | -.004              | 3.5             |
| 16 | MP1A         | X         | 8.391              | 5.5             |
| 17 | MP1A         | Z         | 14.534             | 5.5             |
| 18 | MP1A         | Mx        | -.004              | 5.5             |
| 19 | MP2A         | X         | 7.661              | 2               |
| 20 | MP2A         | Z         | 13.27              | 2               |
| 21 | MP2A         | Mx        | .004               | 2               |
| 22 | MP3          | X         | 7.067              | 2.5             |
| 23 | MP3          | Z         | 12.24              | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 13.62              | 2               |
| 26 | MP4A         | Z         | 23.591             | 2               |
| 27 | MP4A         | Mx        | -.013              | 2               |
| 28 | MP4A         | X         | 13.62              | 7               |
| 29 | MP4A         | Z         | 23.591             | 7               |
| 30 | MP4A         | Mx        | -.013              | 7               |





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

Oct 18, 2021  
 4:24 PM  
 Checked By: \_\_\_\_\_

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 0                  | 2               |
| 2  | MP3A         | Z         | 32.842             | 2               |
| 3  | MP3A         | Mx        | -.019              | 2               |
| 4  | MP3A         | X         | 0                  | 7               |
| 5  | MP3A         | Z         | 32.842             | 7               |
| 6  | MP3A         | Mx        | -.019              | 7               |
| 7  | MP3A         | X         | 0                  | 2               |
| 8  | MP3A         | Z         | 32.842             | 2               |
| 9  | MP3A         | Mx        | .019               | 2               |
| 10 | MP3A         | X         | 0                  | 7               |
| 11 | MP3A         | Z         | 32.842             | 7               |
| 12 | MP3A         | Mx        | .019               | 7               |
| 13 | MP1A         | X         | 0                  | 3.5             |
| 14 | MP1A         | Z         | 19.577             | 3.5             |
| 15 | MP1A         | Mx        | 0                  | 3.5             |
| 16 | MP1A         | X         | 0                  | 5.5             |
| 17 | MP1A         | Z         | 19.577             | 5.5             |
| 18 | MP1A         | Mx        | 0                  | 5.5             |
| 19 | MP2A         | X         | 0                  | 2               |
| 20 | MP2A         | Z         | 16.575             | 2               |
| 21 | MP2A         | Mx        | 0                  | 2               |
| 22 | MP3          | X         | 0                  | 2.5             |
| 23 | MP3          | Z         | 16.397             | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 0                  | 2               |
| 26 | MP4A         | Z         | 32.632             | 2               |
| 27 | MP4A         | Mx        | -.01               | 2               |
| 28 | MP4A         | X         | 0                  | 7               |
| 29 | MP4A         | Z         | 32.632             | 7               |
| 30 | MP4A         | Mx        | -.01               | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | -15.156            | 2               |
| 2  | MP3A         | Z         | 26.251             | 2               |
| 3  | MP3A         | Mx        | -.008              | 2               |
| 4  | MP3A         | X         | -15.156            | 7               |
| 5  | MP3A         | Z         | 26.251             | 7               |
| 6  | MP3A         | Mx        | -.008              | 7               |
| 7  | MP3A         | X         | -15.156            | 2               |
| 8  | MP3A         | Z         | 26.251             | 2               |
| 9  | MP3A         | Mx        | .023               | 2               |
| 10 | MP3A         | X         | -15.156            | 7               |
| 11 | MP3A         | Z         | 26.251             | 7               |
| 12 | MP3A         | Mx        | .023               | 7               |
| 13 | MP1A         | X         | -8.391             | 3.5             |
| 14 | MP1A         | Z         | 14.534             | 3.5             |
| 15 | MP1A         | Mx        | .004               | 3.5             |
| 16 | MP1A         | X         | -8.391             | 5.5             |
| 17 | MP1A         | Z         | 14.534             | 5.5             |
| 18 | MP1A         | Mx        | .004               | 5.5             |
| 19 | MP2A         | X         | -7.661             | 2               |
| 20 | MP2A         | Z         | 13.27              | 2               |
| 21 | MP2A         | Mx        | -.004              | 2               |
| 22 | MP3          | X         | -7.942             | 2.5             |
| 23 | MP3          | Z         | 13.756             | 2.5             |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -18.513            | 2               |
| 26 | MP4A         | Z         | 32.066             | 2               |
| 27 | MP4A         | Mx        | -.003              | 2               |
| 28 | MP4A         | X         | -18.513            | 7               |
| 29 | MP4A         | Z         | 32.066             | 7               |
| 30 | MP4A         | Mx        | -.003              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | -21.869            | 2               |
| 2  | MP3A         | Z         | 12.626             | 2               |
| 3  | MP3A         | Mx        | .004               | 2               |
| 4  | MP3A         | X         | -21.869            | 7               |
| 5  | MP3A         | Z         | 12.626             | 7               |
| 6  | MP3A         | Mx        | .004               | 7               |
| 7  | MP3A         | X         | -21.869            | 2               |
| 8  | MP3A         | Z         | 12.626             | 2               |
| 9  | MP3A         | Mx        | .018               | 2               |
| 10 | MP3A         | X         | -21.869            | 7               |
| 11 | MP3A         | Z         | 12.626             | 7               |
| 12 | MP3A         | Mx        | .018               | 7               |
| 13 | MP1A         | X         | -9.693             | 3.5             |
| 14 | MP1A         | Z         | 5.596              | 3.5             |
| 15 | MP1A         | Mx        | .005               | 3.5             |
| 16 | MP1A         | X         | -9.693             | 5.5             |
| 17 | MP1A         | Z         | 5.596              | 5.5             |
| 18 | MP1A         | Mx        | .005               | 5.5             |
| 19 | MP2A         | X         | -11.102            | 2               |
| 20 | MP2A         | Z         | 6.409              | 2               |
| 21 | MP2A         | Mx        | -.006              | 2               |
| 22 | MP3          | X         | -11.351            | 2.5             |
| 23 | MP3          | Z         | 6.554              | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -31.203            | 2               |
| 26 | MP4A         | Z         | 18.015             | 2               |
| 27 | MP4A         | Mx        | .006               | 2               |
| 28 | MP4A         | X         | -31.203            | 7               |
| 29 | MP4A         | Z         | 18.015             | 7               |
| 30 | MP4A         | Mx        | .006               | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | -22.722            | 2               |
| 2  | MP3A         | Z         | 0                  | 2               |
| 3  | MP3A         | Mx        | .011               | 2               |
| 4  | MP3A         | X         | -22.722            | 7               |
| 5  | MP3A         | Z         | 0                  | 7               |
| 6  | MP3A         | Mx        | .011               | 7               |
| 7  | MP3A         | X         | -22.722            | 2               |
| 8  | MP3A         | Z         | 0                  | 2               |
| 9  | MP3A         | Mx        | .011               | 2               |
| 10 | MP3A         | X         | -22.722            | 7               |
| 11 | MP3A         | Z         | 0                  | 7               |
| 12 | MP3A         | Mx        | .011               | 7               |
| 13 | MP1A         | X         | -8.398             | 3.5             |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 14 | MP1A         | Z         | 0                  | 3.5             |
| 15 | MP1A         | Mx        | .004               | 3.5             |
| 16 | MP1A         | X         | -8.398             | 5.5             |
| 17 | MP1A         | Z         | 0                  | 5.5             |
| 18 | MP1A         | Mx        | .004               | 5.5             |
| 19 | MP2A         | X         | -11.567            | 2               |
| 20 | MP2A         | Z         | 0                  | 2               |
| 21 | MP2A         | Mx        | -.006              | 2               |
| 22 | MP3          | X         | -10.844            | 2.5             |
| 23 | MP3          | Z         | 0                  | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -30.639            | 2               |
| 26 | MP4A         | Z         | 0                  | 2               |
| 27 | MP4A         | Mx        | .012               | 2               |
| 28 | MP4A         | X         | -30.639            | 7               |
| 29 | MP4A         | Z         | 0                  | 7               |
| 30 | MP4A         | Mx        | .012               | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | -21.869            | 2               |
| 2  | MP3A         | Z         | -12.626            | 2               |
| 3  | MP3A         | Mx        | .018               | 2               |
| 4  | MP3A         | X         | -21.869            | 7               |
| 5  | MP3A         | Z         | -12.626            | 7               |
| 6  | MP3A         | Mx        | .018               | 7               |
| 7  | MP3A         | X         | -21.869            | 2               |
| 8  | MP3A         | Z         | -12.626            | 2               |
| 9  | MP3A         | Mx        | .004               | 2               |
| 10 | MP3A         | X         | -21.869            | 7               |
| 11 | MP3A         | Z         | -12.626            | 7               |
| 12 | MP3A         | Mx        | .004               | 7               |
| 13 | MP1A         | X         | -9.693             | 3.5             |
| 14 | MP1A         | Z         | -5.596             | 3.5             |
| 15 | MP1A         | Mx        | .005               | 3.5             |
| 16 | MP1A         | X         | -9.693             | 5.5             |
| 17 | MP1A         | Z         | -5.596             | 5.5             |
| 18 | MP1A         | Mx        | .005               | 5.5             |
| 19 | MP2A         | X         | -11.102            | 2               |
| 20 | MP2A         | Z         | -6.409             | 2               |
| 21 | MP2A         | Mx        | -.006              | 2               |
| 22 | MP3          | X         | -9.835             | 2.5             |
| 23 | MP3          | Z         | -5.678             | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -22.729            | 2               |
| 26 | MP4A         | Z         | -13.122            | 2               |
| 27 | MP4A         | Mx        | .013               | 2               |
| 28 | MP4A         | X         | -22.729            | 7               |
| 29 | MP4A         | Z         | -13.122            | 7               |
| 30 | MP4A         | Mx        | .013               | 7               |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | MP3A         | X         | -15.156            | 2               |
| 2 | MP3A         | Z         | -26.251            | 2               |
| 3 | MP3A         | Mx        | .023               | 2               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 4  | MP3A         | X         | -15.156            | 7              |
| 5  | MP3A         | Z         | -26.251            | 7              |
| 6  | MP3A         | Mx        | .023               | 7              |
| 7  | MP3A         | X         | -15.156            | 2              |
| 8  | MP3A         | Z         | -26.251            | 2              |
| 9  | MP3A         | Mx        | -.008              | 2              |
| 10 | MP3A         | X         | -15.156            | 7              |
| 11 | MP3A         | Z         | -26.251            | 7              |
| 12 | MP3A         | Mx        | -.008              | 7              |
| 13 | MP1A         | X         | -8.391             | 3.5            |
| 14 | MP1A         | Z         | -14.534            | 3.5            |
| 15 | MP1A         | Mx        | .004               | 3.5            |
| 16 | MP1A         | X         | -8.391             | 5.5            |
| 17 | MP1A         | Z         | -14.534            | 5.5            |
| 18 | MP1A         | Mx        | .004               | 5.5            |
| 19 | MP2A         | X         | -7.661             | 2              |
| 20 | MP2A         | Z         | -13.27             | 2              |
| 21 | MP2A         | Mx        | -.004              | 2              |
| 22 | MP3          | X         | -7.067             | 2.5            |
| 23 | MP3          | Z         | -12.24             | 2.5            |
| 24 | MP3          | Mx        | 0                  | 2.5            |
| 25 | MP4A         | X         | -13.62             | 2              |
| 26 | MP4A         | Z         | -23.591            | 2              |
| 27 | MP4A         | Mx        | .013               | 2              |
| 28 | MP4A         | X         | -13.62             | 7              |
| 29 | MP4A         | Z         | -23.591            | 7              |
| 30 | MP4A         | Mx        | .013               | 7              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP3A         | X         | 0                  | 2              |
| 2  | MP3A         | Z         | -10.632            | 2              |
| 3  | MP3A         | Mx        | .006               | 2              |
| 4  | MP3A         | X         | 0                  | 7              |
| 5  | MP3A         | Z         | -10.632            | 7              |
| 6  | MP3A         | Mx        | .006               | 7              |
| 7  | MP3A         | X         | 0                  | 2              |
| 8  | MP3A         | Z         | -10.632            | 2              |
| 9  | MP3A         | Mx        | -.006              | 2              |
| 10 | MP3A         | X         | 0                  | 7              |
| 11 | MP3A         | Z         | -10.632            | 7              |
| 12 | MP3A         | Mx        | -.006              | 7              |
| 13 | MP1A         | X         | 0                  | 3.5            |
| 14 | MP1A         | Z         | -6.179             | 3.5            |
| 15 | MP1A         | Mx        | 0                  | 3.5            |
| 16 | MP1A         | X         | 0                  | 5.5            |
| 17 | MP1A         | Z         | -6.179             | 5.5            |
| 18 | MP1A         | Mx        | 0                  | 5.5            |
| 19 | MP2A         | X         | 0                  | 2              |
| 20 | MP2A         | Z         | -4.917             | 2              |
| 21 | MP2A         | Mx        | 0                  | 2              |
| 22 | MP3          | X         | 0                  | 2.5            |
| 23 | MP3          | Z         | -4.859             | 2.5            |
| 24 | MP3          | Mx        | 0                  | 2.5            |
| 25 | MP4A         | X         | 0                  | 2              |
| 26 | MP4A         | Z         | -10.455            | 2              |



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

Oct 18, 2021  
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 Checked By: \_\_\_\_\_

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 27 | MP4A         | Mx        | .003               | 2              |
| 28 | MP4A         | X         | 0                  | 7              |
| 29 | MP4A         | Z         | -10.455            | 7              |
| 30 | MP4A         | Mx        | .003               | 7              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP3A         | X         | 4.866              | 2              |
| 2  | MP3A         | Z         | -8.427             | 2              |
| 3  | MP3A         | Mx        | .002               | 2              |
| 4  | MP3A         | X         | 4.866              | 7              |
| 5  | MP3A         | Z         | -8.427             | 7              |
| 6  | MP3A         | Mx        | .002               | 7              |
| 7  | MP3A         | X         | 4.866              | 2              |
| 8  | MP3A         | Z         | -8.427             | 2              |
| 9  | MP3A         | Mx        | -.007              | 2              |
| 10 | MP3A         | X         | 4.866              | 7              |
| 11 | MP3A         | Z         | -8.427             | 7              |
| 12 | MP3A         | Mx        | -.007              | 7              |
| 13 | MP1A         | X         | 2.619              | 3.5            |
| 14 | MP1A         | Z         | -4.537             | 3.5            |
| 15 | MP1A         | Mx        | -.001              | 3.5            |
| 16 | MP1A         | X         | 2.619              | 5.5            |
| 17 | MP1A         | Z         | -4.537             | 5.5            |
| 18 | MP1A         | Mx        | -.001              | 5.5            |
| 19 | MP2A         | X         | 2.255              | 2              |
| 20 | MP2A         | Z         | -3.905             | 2              |
| 21 | MP2A         | Mx        | .001               | 2              |
| 22 | MP3          | X         | 2.346              | 2.5            |
| 23 | MP3          | Z         | -4.063             | 2.5            |
| 24 | MP3          | Mx        | 0                  | 2.5            |
| 25 | MP4A         | X         | 6.006              | 2              |
| 26 | MP4A         | Z         | -10.402            | 2              |
| 27 | MP4A         | Mx        | .001               | 2              |
| 28 | MP4A         | X         | 6.006              | 7              |
| 29 | MP4A         | Z         | -10.402            | 7              |
| 30 | MP4A         | Mx        | .001               | 7              |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1  | MP3A         | X         | 6.867              | 2              |
| 2  | MP3A         | Z         | -3.965             | 2              |
| 3  | MP3A         | Mx        | -.001              | 2              |
| 4  | MP3A         | X         | 6.867              | 7              |
| 5  | MP3A         | Z         | -3.965             | 7              |
| 6  | MP3A         | Mx        | -.001              | 7              |
| 7  | MP3A         | X         | 6.867              | 2              |
| 8  | MP3A         | Z         | -3.965             | 2              |
| 9  | MP3A         | Mx        | -.006              | 2              |
| 10 | MP3A         | X         | 6.867              | 7              |
| 11 | MP3A         | Z         | -3.965             | 7              |
| 12 | MP3A         | Mx        | -.006              | 7              |
| 13 | MP1A         | X         | 2.909              | 3.5            |
| 14 | MP1A         | Z         | -1.679             | 3.5            |
| 15 | MP1A         | Mx        | -.001              | 3.5            |
| 16 | MP1A         | X         | 2.909              | 5.5            |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 17 | MP1A         | Z         | -1.679             | 5.5             |
| 18 | MP1A         | Mx        | -.001              | 5.5             |
| 19 | MP2A         | X         | 3.199              | 2               |
| 20 | MP2A         | Z         | -1.847             | 2               |
| 21 | MP2A         | Mx        | .002               | 2               |
| 22 | MP3          | X         | 3.279              | 2.5             |
| 23 | MP3          | Z         | -1.893             | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 10.097             | 2               |
| 26 | MP4A         | Z         | -5.829             | 2               |
| 27 | MP4A         | Mx        | -.002              | 2               |
| 28 | MP4A         | X         | 10.097             | 7               |
| 29 | MP4A         | Z         | -5.829             | 7               |
| 30 | MP4A         | Mx        | -.002              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 7.029              | 2               |
| 2  | MP3A         | Z         | 0                  | 2               |
| 3  | MP3A         | Mx        | -.004              | 2               |
| 4  | MP3A         | X         | 7.029              | 7               |
| 5  | MP3A         | Z         | 0                  | 7               |
| 6  | MP3A         | Mx        | -.004              | 7               |
| 7  | MP3A         | X         | 7.029              | 2               |
| 8  | MP3A         | Z         | 0                  | 2               |
| 9  | MP3A         | Mx        | -.004              | 2               |
| 10 | MP3A         | X         | 7.029              | 7               |
| 11 | MP3A         | Z         | 0                  | 7               |
| 12 | MP3A         | Mx        | -.004              | 7               |
| 13 | MP1A         | X         | 2.419              | 3.5             |
| 14 | MP1A         | Z         | 0                  | 3.5             |
| 15 | MP1A         | Mx        | -.001              | 3.5             |
| 16 | MP1A         | X         | 2.419              | 5.5             |
| 17 | MP1A         | Z         | 0                  | 5.5             |
| 18 | MP1A         | Mx        | -.001              | 5.5             |
| 19 | MP2A         | X         | 3.286              | 2               |
| 20 | MP2A         | Z         | 0                  | 2               |
| 21 | MP2A         | Mx        | .002               | 2               |
| 22 | MP3          | X         | 3.049              | 2.5             |
| 23 | MP3          | Z         | 0                  | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 9.75               | 2               |
| 26 | MP4A         | Z         | 0                  | 2               |
| 27 | MP4A         | Mx        | -.004              | 2               |
| 28 | MP4A         | X         | 9.75               | 7               |
| 29 | MP4A         | Z         | 0                  | 7               |
| 30 | MP4A         | Mx        | -.004              | 7               |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | MP3A         | X         | 6.867              | 2               |
| 2 | MP3A         | Z         | 3.965              | 2               |
| 3 | MP3A         | Mx        | -.006              | 2               |
| 4 | MP3A         | X         | 6.867              | 7               |
| 5 | MP3A         | Z         | 3.965              | 7               |
| 6 | MP3A         | Mx        | -.006              | 7               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 7  | MP3A         | X         | 6.867              | 2               |
| 8  | MP3A         | Z         | 3.965              | 2               |
| 9  | MP3A         | Mx        | -.001              | 2               |
| 10 | MP3A         | X         | 6.867              | 7               |
| 11 | MP3A         | Z         | 3.965              | 7               |
| 12 | MP3A         | Mx        | -.001              | 7               |
| 13 | MP1A         | X         | 2.909              | 3.5             |
| 14 | MP1A         | Z         | 1.679              | 3.5             |
| 15 | MP1A         | Mx        | -.001              | 3.5             |
| 16 | MP1A         | X         | 2.909              | 5.5             |
| 17 | MP1A         | Z         | 1.679              | 5.5             |
| 18 | MP1A         | Mx        | -.001              | 5.5             |
| 19 | MP2A         | X         | 3.199              | 2               |
| 20 | MP2A         | Z         | 1.847              | 2               |
| 21 | MP2A         | Mx        | .002               | 2               |
| 22 | MP3          | X         | 2.785              | 2.5             |
| 23 | MP3          | Z         | 1.608              | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 7.096              | 2               |
| 26 | MP4A         | Z         | 4.097              | 2               |
| 27 | MP4A         | Mx        | -.004              | 2               |
| 28 | MP4A         | X         | 7.096              | 7               |
| 29 | MP4A         | Z         | 4.097              | 7               |
| 30 | MP4A         | Mx        | -.004              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 4.866              | 2               |
| 2  | MP3A         | Z         | 8.427              | 2               |
| 3  | MP3A         | Mx        | -.007              | 2               |
| 4  | MP3A         | X         | 4.866              | 7               |
| 5  | MP3A         | Z         | 8.427              | 7               |
| 6  | MP3A         | Mx        | -.007              | 7               |
| 7  | MP3A         | X         | 4.866              | 2               |
| 8  | MP3A         | Z         | 8.427              | 2               |
| 9  | MP3A         | Mx        | .002               | 2               |
| 10 | MP3A         | X         | 4.866              | 7               |
| 11 | MP3A         | Z         | 8.427              | 7               |
| 12 | MP3A         | Mx        | .002               | 7               |
| 13 | MP1A         | X         | 2.619              | 3.5             |
| 14 | MP1A         | Z         | 4.537              | 3.5             |
| 15 | MP1A         | Mx        | -.001              | 3.5             |
| 16 | MP1A         | X         | 2.619              | 5.5             |
| 17 | MP1A         | Z         | 4.537              | 5.5             |
| 18 | MP1A         | Mx        | -.001              | 5.5             |
| 19 | MP2A         | X         | 2.255              | 2               |
| 20 | MP2A         | Z         | 3.905              | 2               |
| 21 | MP2A         | Mx        | .001               | 2               |
| 22 | MP3          | X         | 2.06               | 2.5             |
| 23 | MP3          | Z         | 3.569              | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 4.273              | 2               |
| 26 | MP4A         | Z         | 7.402              | 2               |
| 27 | MP4A         | Mx        | -.004              | 2               |
| 28 | MP4A         | X         | 4.273              | 7               |
| 29 | MP4A         | Z         | 7.402              | 7               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 30 | MP4A         | Mx        | -.004              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | 0                  | 2               |
| 2  | MP3A         | Z         | 10.632             | 2               |
| 3  | MP3A         | Mx        | -.006              | 2               |
| 4  | MP3A         | X         | 0                  | 7               |
| 5  | MP3A         | Z         | 10.632             | 7               |
| 6  | MP3A         | Mx        | -.006              | 7               |
| 7  | MP3A         | X         | 0                  | 2               |
| 8  | MP3A         | Z         | 10.632             | 2               |
| 9  | MP3A         | Mx        | .006               | 2               |
| 10 | MP3A         | X         | 0                  | 7               |
| 11 | MP3A         | Z         | 10.632             | 7               |
| 12 | MP3A         | Mx        | .006               | 7               |
| 13 | MP1A         | X         | 0                  | 3.5             |
| 14 | MP1A         | Z         | 6.179              | 3.5             |
| 15 | MP1A         | Mx        | 0                  | 3.5             |
| 16 | MP1A         | X         | 0                  | 5.5             |
| 17 | MP1A         | Z         | 6.179              | 5.5             |
| 18 | MP1A         | Mx        | 0                  | 5.5             |
| 19 | MP2A         | X         | 0                  | 2               |
| 20 | MP2A         | Z         | 4.917              | 2               |
| 21 | MP2A         | Mx        | 0                  | 2               |
| 22 | MP3          | X         | 0                  | 2.5             |
| 23 | MP3          | Z         | 4.859              | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | 0                  | 2               |
| 26 | MP4A         | Z         | 10.455             | 2               |
| 27 | MP4A         | Mx        | -.003              | 2               |
| 28 | MP4A         | X         | 0                  | 7               |
| 29 | MP4A         | Z         | 10.455             | 7               |
| 30 | MP4A         | Mx        | -.003              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | -4.866             | 2               |
| 2  | MP3A         | Z         | 8.427              | 2               |
| 3  | MP3A         | Mx        | -.002              | 2               |
| 4  | MP3A         | X         | -4.866             | 7               |
| 5  | MP3A         | Z         | 8.427              | 7               |
| 6  | MP3A         | Mx        | -.002              | 7               |
| 7  | MP3A         | X         | -4.866             | 2               |
| 8  | MP3A         | Z         | 8.427              | 2               |
| 9  | MP3A         | Mx        | .007               | 2               |
| 10 | MP3A         | X         | -4.866             | 7               |
| 11 | MP3A         | Z         | 8.427              | 7               |
| 12 | MP3A         | Mx        | .007               | 7               |
| 13 | MP1A         | X         | -2.619             | 3.5             |
| 14 | MP1A         | Z         | 4.537              | 3.5             |
| 15 | MP1A         | Mx        | .001               | 3.5             |
| 16 | MP1A         | X         | -2.619             | 5.5             |
| 17 | MP1A         | Z         | 4.537              | 5.5             |
| 18 | MP1A         | Mx        | .001               | 5.5             |
| 19 | MP2A         | X         | -2.255             | 2               |





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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 20 | MP2A         | Z         | 3.905              | 2               |
| 21 | MP2A         | Mx        | -.001              | 2               |
| 22 | MP3          | X         | -2.346             | 2.5             |
| 23 | MP3          | Z         | 4.063              | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -6.006             | 2               |
| 26 | MP4A         | Z         | 10.402             | 2               |
| 27 | MP4A         | Mx        | -.001              | 2               |
| 28 | MP4A         | X         | -6.006             | 7               |
| 29 | MP4A         | Z         | 10.402             | 7               |
| 30 | MP4A         | Mx        | -.001              | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | -6.867             | 2               |
| 2  | MP3A         | Z         | 3.965              | 2               |
| 3  | MP3A         | Mx        | .001               | 2               |
| 4  | MP3A         | X         | -6.867             | 7               |
| 5  | MP3A         | Z         | 3.965              | 7               |
| 6  | MP3A         | Mx        | .001               | 7               |
| 7  | MP3A         | X         | -6.867             | 2               |
| 8  | MP3A         | Z         | 3.965              | 2               |
| 9  | MP3A         | Mx        | .006               | 2               |
| 10 | MP3A         | X         | -6.867             | 7               |
| 11 | MP3A         | Z         | 3.965              | 7               |
| 12 | MP3A         | Mx        | .006               | 7               |
| 13 | MP1A         | X         | -2.909             | 3.5             |
| 14 | MP1A         | Z         | 1.679              | 3.5             |
| 15 | MP1A         | Mx        | .001               | 3.5             |
| 16 | MP1A         | X         | -2.909             | 5.5             |
| 17 | MP1A         | Z         | 1.679              | 5.5             |
| 18 | MP1A         | Mx        | .001               | 5.5             |
| 19 | MP2A         | X         | -3.199             | 2               |
| 20 | MP2A         | Z         | 1.847              | 2               |
| 21 | MP2A         | Mx        | -.002              | 2               |
| 22 | MP3          | X         | -3.279             | 2.5             |
| 23 | MP3          | Z         | 1.893              | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -10.097            | 2               |
| 26 | MP4A         | Z         | 5.829              | 2               |
| 27 | MP4A         | Mx        | .002               | 2               |
| 28 | MP4A         | X         | -10.097            | 7               |
| 29 | MP4A         | Z         | 5.829              | 7               |
| 30 | MP4A         | Mx        | .002               | 7               |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | MP3A         | X         | -7.029             | 2               |
| 2 | MP3A         | Z         | 0                  | 2               |
| 3 | MP3A         | Mx        | .004               | 2               |
| 4 | MP3A         | X         | -7.029             | 7               |
| 5 | MP3A         | Z         | 0                  | 7               |
| 6 | MP3A         | Mx        | .004               | 7               |
| 7 | MP3A         | X         | -7.029             | 2               |
| 8 | MP3A         | Z         | 0                  | 2               |
| 9 | MP3A         | Mx        | .004               | 2               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 10 | MP3A         | X         | -7.029             | 7               |
| 11 | MP3A         | Z         | 0                  | 7               |
| 12 | MP3A         | Mx        | .004               | 7               |
| 13 | MP1A         | X         | -2.419             | 3.5             |
| 14 | MP1A         | Z         | 0                  | 3.5             |
| 15 | MP1A         | Mx        | .001               | 3.5             |
| 16 | MP1A         | X         | -2.419             | 5.5             |
| 17 | MP1A         | Z         | 0                  | 5.5             |
| 18 | MP1A         | Mx        | .001               | 5.5             |
| 19 | MP2A         | X         | -3.286             | 2               |
| 20 | MP2A         | Z         | 0                  | 2               |
| 21 | MP2A         | Mx        | -.002              | 2               |
| 22 | MP3          | X         | -3.049             | 2.5             |
| 23 | MP3          | Z         | 0                  | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -9.75              | 2               |
| 26 | MP4A         | Z         | 0                  | 2               |
| 27 | MP4A         | Mx        | .004               | 2               |
| 28 | MP4A         | X         | -9.75              | 7               |
| 29 | MP4A         | Z         | 0                  | 7               |
| 30 | MP4A         | Mx        | .004               | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | -6.867             | 2               |
| 2  | MP3A         | Z         | -3.965             | 2               |
| 3  | MP3A         | Mx        | .006               | 2               |
| 4  | MP3A         | X         | -6.867             | 7               |
| 5  | MP3A         | Z         | -3.965             | 7               |
| 6  | MP3A         | Mx        | .006               | 7               |
| 7  | MP3A         | X         | -6.867             | 2               |
| 8  | MP3A         | Z         | -3.965             | 2               |
| 9  | MP3A         | Mx        | .001               | 2               |
| 10 | MP3A         | X         | -6.867             | 7               |
| 11 | MP3A         | Z         | -3.965             | 7               |
| 12 | MP3A         | Mx        | .001               | 7               |
| 13 | MP1A         | X         | -2.909             | 3.5             |
| 14 | MP1A         | Z         | -1.679             | 3.5             |
| 15 | MP1A         | Mx        | .001               | 3.5             |
| 16 | MP1A         | X         | -2.909             | 5.5             |
| 17 | MP1A         | Z         | -1.679             | 5.5             |
| 18 | MP1A         | Mx        | .001               | 5.5             |
| 19 | MP2A         | X         | -3.199             | 2               |
| 20 | MP2A         | Z         | -1.847             | 2               |
| 21 | MP2A         | Mx        | -.002              | 2               |
| 22 | MP3          | X         | -2.785             | 2.5             |
| 23 | MP3          | Z         | -1.608             | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -7.096             | 2               |
| 26 | MP4A         | Z         | -4.097             | 2               |
| 27 | MP4A         | Mx        | .004               | 2               |
| 28 | MP4A         | X         | -7.096             | 7               |
| 29 | MP4A         | Z         | -4.097             | 7               |
| 30 | MP4A         | Mx        | .004               | 7               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | X         | -4.866             | 2               |
| 2  | MP3A         | Z         | -8.427             | 2               |
| 3  | MP3A         | Mx        | .007               | 2               |
| 4  | MP3A         | X         | -4.866             | 7               |
| 5  | MP3A         | Z         | -8.427             | 7               |
| 6  | MP3A         | Mx        | .007               | 7               |
| 7  | MP3A         | X         | -4.866             | 2               |
| 8  | MP3A         | Z         | -8.427             | 2               |
| 9  | MP3A         | Mx        | -.002              | 2               |
| 10 | MP3A         | X         | -4.866             | 7               |
| 11 | MP3A         | Z         | -8.427             | 7               |
| 12 | MP3A         | Mx        | -.002              | 7               |
| 13 | MP1A         | X         | -2.619             | 3.5             |
| 14 | MP1A         | Z         | -4.537             | 3.5             |
| 15 | MP1A         | Mx        | .001               | 3.5             |
| 16 | MP1A         | X         | -2.619             | 5.5             |
| 17 | MP1A         | Z         | -4.537             | 5.5             |
| 18 | MP1A         | Mx        | .001               | 5.5             |
| 19 | MP2A         | X         | -2.255             | 2               |
| 20 | MP2A         | Z         | -3.905             | 2               |
| 21 | MP2A         | Mx        | -.001              | 2               |
| 22 | MP3          | X         | -2.06              | 2.5             |
| 23 | MP3          | Z         | -3.569             | 2.5             |
| 24 | MP3          | Mx        | 0                  | 2.5             |
| 25 | MP4A         | X         | -4.273             | 2               |
| 26 | MP4A         | Z         | -7.402             | 2               |
| 27 | MP4A         | Mx        | .004               | 2               |
| 28 | MP4A         | X         | -4.273             | 7               |
| 29 | MP4A         | Z         | -7.402             | 7               |
| 30 | MP4A         | Mx        | .004               | 7               |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | LIVE2        | Y         | -500               | 0               |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | LIUVE1       | Y         | -500               | 0               |

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

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

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

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

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | MP3A         | Y         | 0                  | 2               |
| 2 | MP3A         | My        | 0                  | 2               |
| 3 | MP3A         | Mz        | 0                  | 2               |
| 4 | MP3A         | Y         | 0                  | 7               |
| 5 | MP3A         | My        | 0                  | 7               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 6  | MP3A         | Mz        | 0                  | 7               |
| 7  | MP3A         | Y         | 0                  | 2               |
| 8  | MP3A         | My        | 0                  | 2               |
| 9  | MP3A         | Mz        | 0                  | 2               |
| 10 | MP3A         | Y         | 0                  | 7               |
| 11 | MP3A         | My        | 0                  | 7               |
| 12 | MP3A         | Mz        | 0                  | 7               |
| 13 | MP1A         | Y         | 0                  | 3.5             |
| 14 | MP1A         | My        | 0                  | 3.5             |
| 15 | MP1A         | Mz        | 0                  | 3.5             |
| 16 | MP1A         | Y         | 0                  | 5.5             |
| 17 | MP1A         | My        | 0                  | 5.5             |
| 18 | MP1A         | Mz        | 0                  | 5.5             |
| 19 | MP2A         | Y         | 0                  | 2               |
| 20 | MP2A         | My        | 0                  | 2               |
| 21 | MP2A         | Mz        | 0                  | 2               |
| 22 | MP2A         | Y         | 0                  | 2.5             |
| 23 | MP2A         | My        | 0                  | 2.5             |
| 24 | MP2A         | Mz        | 0                  | 2.5             |
| 25 | MP4A         | Y         | 0                  | 2               |
| 26 | MP4A         | My        | 0                  | 2               |
| 27 | MP4A         | Mz        | 0                  | 2               |
| 28 | MP4A         | Y         | 0                  | 7               |
| 29 | MP4A         | My        | 0                  | 7               |
| 30 | MP4A         | Mz        | 0                  | 7               |

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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1  | MP3A         | Z         | -.655              | 2               |
| 2  | MP3A         | Mx        | .000382            | 2               |
| 3  | MP3A         | Z         | -.655              | 7               |
| 4  | MP3A         | Mx        | .000382            | 7               |
| 5  | MP3A         | Z         | -.655              | 2               |
| 6  | MP3A         | Mx        | -.000382           | 2               |
| 7  | MP3A         | Z         | -.655              | 7               |
| 8  | MP3A         | Mx        | -.000382           | 7               |
| 9  | MP1A         | Z         | -1.306             | 3.5             |
| 10 | MP1A         | Mx        | 0                  | 3.5             |
| 11 | MP1A         | Z         | -1.306             | 5.5             |
| 12 | MP1A         | Mx        | 0                  | 5.5             |
| 13 | MP2A         | Z         | -2.241             | 2               |
| 14 | MP2A         | Mx        | 0                  | 2               |
| 15 | MP2A         | Z         | -2.109             | 2.5             |
| 16 | MP2A         | Mx        | 0                  | 2.5             |
| 17 | MP4A         | Z         | -.689              | 2               |
| 18 | MP4A         | Mx        | .000221            | 2               |
| 19 | MP4A         | Z         | -.689              | 7               |
| 20 | MP4A         | Mx        | .000221            | 7               |

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

|   | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|---|--------------|-----------|--------------------|-----------------|
| 1 | MP3A         | X         | .655               | 2               |
| 2 | MP3A         | Mx        | -.000328           | 2               |
| 3 | MP3A         | X         | .655               | 7               |
| 4 | MP3A         | Mx        | -.000328           | 7               |
| 5 | MP3A         | X         | .655               | 2               |



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

|    | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 6  | MP3A         | Mx        | -0.00328           | 2              |
| 7  | MP3A         | X         | .655               | 7              |
| 8  | MP3A         | Mx        | -0.00328           | 7              |
| 9  | MP1A         | X         | 1.306              | 3.5            |
| 10 | MP1A         | Mx        | -0.00653           | 3.5            |
| 11 | MP1A         | X         | 1.306              | 5.5            |
| 12 | MP1A         | Mx        | -0.00653           | 5.5            |
| 13 | MP2A         | X         | 2.241              | 2              |
| 14 | MP2A         | Mx        | .001               | 2              |
| 15 | MP2A         | X         | 2.109              | 2.5            |
| 16 | MP2A         | Mx        | 0                  | 2.5            |
| 17 | MP4A         | X         | .689               | 2              |
| 18 | MP4A         | Mx        | -0.00264           | 2              |
| 19 | MP4A         | X         | .689               | 7              |
| 20 | MP4A         | Mx        | -0.00264           | 7              |

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

|    | Member Label | Direction | Start Magnitude[lb.k-ft] | End Magnitude[lb.ft.F.ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|--------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 2  | M6           | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 3  | M7           | Y         | -6.291                   | -6.291                     | 0                    | %100               |
| 4  | M8           | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 5  | M9           | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 6  | FACE         | Y         | -6.291                   | -6.291                     | 0                    | %100               |
| 7  | M11          | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 8  | M12          | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 9  | M13          | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 10 | M14          | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 11 | M15          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 12 | M16          | Y         | -4.803                   | -4.803                     | 0                    | %100               |
| 13 | M17          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 14 | M18          | Y         | -4.803                   | -4.803                     | 0                    | %100               |
| 15 | M19          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 16 | M20          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 17 | M21          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 18 | M22          | Y         | -4.803                   | -4.803                     | 0                    | %100               |
| 19 | M23          | Y         | -4.803                   | -4.803                     | 0                    | %100               |
| 20 | M24          | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 21 | M25          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 22 | M26          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 23 | M27          | Y         | -4.803                   | -4.803                     | 0                    | %100               |
| 24 | M28          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 25 | M29          | Y         | -4.803                   | -4.803                     | 0                    | %100               |
| 26 | M30          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 27 | M31          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 28 | M32          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 29 | M33          | Y         | -4.803                   | -4.803                     | 0                    | %100               |
| 30 | M34          | Y         | -4.803                   | -4.803                     | 0                    | %100               |
| 31 | M35          | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 32 | M36          | Y         | -7.275                   | -7.275                     | 0                    | %100               |
| 33 | MP1A         | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 34 | M46          | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 35 | MP2A         | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 36 | MP4A         | Y         | -5.528                   | -5.528                     | 0                    | %100               |
| 37 | MP3          | Y         | -5.528                   | -5.528                     | 0                    | %100               |



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

Oct 18, 2021  
 4:24 PM  
 Checked By: \_\_\_\_\_

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 38 | M56          | Y         | -2.858                       | -2.858                     | 0                    | %100               |
| 39 | M57          | Y         | -2.858                       | -2.858                     | 0                    | %100               |
| 40 | M58          | Y         | -2.858                       | -2.858                     | 0                    | %100               |
| 41 | M59          | Y         | -2.858                       | -2.858                     | 0                    | %100               |
| 42 | MP3A         | Y         | -6.291                       | -6.291                     | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | 0                            | 0                          | 0                    | %100               |
| 2  | M5           | Z         | -.84                         | -.84                       | 0                    | %100               |
| 3  | M6           | X         | 0                            | 0                          | 0                    | %100               |
| 4  | M6           | Z         | -.84                         | -.84                       | 0                    | %100               |
| 5  | M7           | X         | 0                            | 0                          | 0                    | %100               |
| 6  | M7           | Z         | -13.123                      | -13.123                    | 0                    | %100               |
| 7  | M8           | X         | 0                            | 0                          | 0                    | %100               |
| 8  | M8           | Z         | -.84                         | -.84                       | 0                    | %100               |
| 9  | M9           | X         | 0                            | 0                          | 0                    | %100               |
| 10 | M9           | Z         | -.84                         | -.84                       | 0                    | %100               |
| 11 | FACE         | X         | 0                            | 0                          | 0                    | %100               |
| 12 | FACE         | Z         | -13.123                      | -13.123                    | 0                    | %100               |
| 13 | M11          | X         | 0                            | 0                          | 0                    | %100               |
| 14 | M11          | Z         | -5.317                       | -5.317                     | 0                    | %100               |
| 15 | M12          | X         | 0                            | 0                          | 0                    | %100               |
| 16 | M12          | Z         | -5.317                       | -5.317                     | 0                    | %100               |
| 17 | M13          | X         | 0                            | 0                          | 0                    | %100               |
| 18 | M13          | Z         | -5.317                       | -5.317                     | 0                    | %100               |
| 19 | M14          | X         | 0                            | 0                          | 0                    | %100               |
| 20 | M14          | Z         | -5.317                       | -5.317                     | 0                    | %100               |
| 21 | M15          | X         | 0                            | 0                          | 0                    | %100               |
| 22 | M15          | Z         | -1.807                       | -1.807                     | 0                    | %100               |
| 23 | M16          | X         | 0                            | 0                          | 0                    | %100               |
| 24 | M16          | Z         | -7.199                       | -7.199                     | 0                    | %100               |
| 25 | M17          | X         | 0                            | 0                          | 0                    | %100               |
| 26 | M17          | Z         | -1.807                       | -1.807                     | 0                    | %100               |
| 27 | M18          | X         | 0                            | 0                          | 0                    | %100               |
| 28 | M18          | Z         | -7.199                       | -7.199                     | 0                    | %100               |
| 29 | M19          | X         | 0                            | 0                          | 0                    | %100               |
| 30 | M19          | Z         | -2.171                       | -2.171                     | 0                    | %100               |
| 31 | M20          | X         | 0                            | 0                          | 0                    | %100               |
| 32 | M20          | Z         | -1.807                       | -1.807                     | 0                    | %100               |
| 33 | M21          | X         | 0                            | 0                          | 0                    | %100               |
| 34 | M21          | Z         | -1.807                       | -1.807                     | 0                    | %100               |
| 35 | M22          | X         | 0                            | 0                          | 0                    | %100               |
| 36 | M22          | Z         | -7.87                        | -7.87                      | 0                    | %100               |
| 37 | M23          | X         | 0                            | 0                          | 0                    | %100               |
| 38 | M23          | Z         | -7.87                        | -7.87                      | 0                    | %100               |
| 39 | M24          | X         | 0                            | 0                          | 0                    | %100               |
| 40 | M24          | Z         | -8.611                       | -8.611                     | 0                    | %100               |
| 41 | M25          | X         | 0                            | 0                          | 0                    | %100               |
| 42 | M25          | Z         | -2.171                       | -2.171                     | 0                    | %100               |
| 43 | M26          | X         | 0                            | 0                          | 0                    | %100               |
| 44 | M26          | Z         | -1.807                       | -1.807                     | 0                    | %100               |
| 45 | M27          | X         | 0                            | 0                          | 0                    | %100               |
| 46 | M27          | Z         | -7.199                       | -7.199                     | 0                    | %100               |
| 47 | M28          | X         | 0                            | 0                          | 0                    | %100               |
| 48 | M28          | Z         | -1.807                       | -1.807                     | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 49 | M29          | X         | 0                     | 0                          | 0                     | %100                |
| 50 | M29          | Z         | -7.199                | -7.199                     | 0                     | %100                |
| 51 | M30          | X         | 0                     | 0                          | 0                     | %100                |
| 52 | M30          | Z         | -2.171                | -2.171                     | 0                     | %100                |
| 53 | M31          | X         | 0                     | 0                          | 0                     | %100                |
| 54 | M31          | Z         | -1.807                | -1.807                     | 0                     | %100                |
| 55 | M32          | X         | 0                     | 0                          | 0                     | %100                |
| 56 | M32          | Z         | -1.807                | -1.807                     | 0                     | %100                |
| 57 | M33          | X         | 0                     | 0                          | 0                     | %100                |
| 58 | M33          | Z         | -7.87                 | -7.87                      | 0                     | %100                |
| 59 | M34          | X         | 0                     | 0                          | 0                     | %100                |
| 60 | M34          | Z         | -7.87                 | -7.87                      | 0                     | %100                |
| 61 | M35          | X         | 0                     | 0                          | 0                     | %100                |
| 62 | M35          | Z         | -8.611                | -8.611                     | 0                     | %100                |
| 63 | M36          | X         | 0                     | 0                          | 0                     | %100                |
| 64 | M36          | Z         | -2.171                | -2.171                     | 0                     | %100                |
| 65 | MP1A         | X         | 0                     | 0                          | 0                     | %100                |
| 66 | MP1A         | Z         | -10.841               | -10.841                    | 0                     | %100                |
| 67 | M46          | X         | 0                     | 0                          | 0                     | %100                |
| 68 | M46          | Z         | -1.211                | -1.211                     | 0                     | %100                |
| 69 | MP2A         | X         | 0                     | 0                          | 0                     | %100                |
| 70 | MP2A         | Z         | -10.841               | -10.841                    | 0                     | %100                |
| 71 | MP4A         | X         | 0                     | 0                          | 0                     | %100                |
| 72 | MP4A         | Z         | -10.841               | -10.841                    | 0                     | %100                |
| 73 | MP3          | X         | 0                     | 0                          | 0                     | %100                |
| 74 | MP3          | Z         | -10.64                | -10.64                     | 0                     | %100                |
| 75 | M56          | X         | 0                     | 0                          | 0                     | %100                |
| 76 | M56          | Z         | 0                     | 0                          | 0                     | %100                |
| 77 | M57          | X         | 0                     | 0                          | 0                     | %100                |
| 78 | M57          | Z         | 0                     | 0                          | 0                     | %100                |
| 79 | M58          | X         | 0                     | 0                          | 0                     | %100                |
| 80 | M58          | Z         | 0                     | 0                          | 0                     | %100                |
| 81 | M59          | X         | 0                     | 0                          | 0                     | %100                |
| 82 | M59          | Z         | 0                     | 0                          | 0                     | %100                |
| 83 | MP3A         | X         | 0                     | 0                          | 0                     | %100                |
| 84 | MP3A         | Z         | -13.123               | -13.123                    | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 1  | M5           | X         | .053                  | .053                       | 0                     | %100                |
| 2  | M5           | Z         | -.092                 | -.092                      | 0                     | %100                |
| 3  | M6           | X         | .794                  | .794                       | 0                     | %100                |
| 4  | M6           | Z         | -1.376                | -1.376                     | 0                     | %100                |
| 5  | M7           | X         | 4.921                 | 4.921                      | 0                     | %100                |
| 6  | M7           | Z         | -8.524                | -8.524                     | 0                     | %100                |
| 7  | M8           | X         | .053                  | .053                       | 0                     | %100                |
| 8  | M8           | Z         | -.092                 | -.092                      | 0                     | %100                |
| 9  | M9           | X         | .794                  | .794                       | 0                     | %100                |
| 10 | M9           | Z         | -1.376                | -1.376                     | 0                     | %100                |
| 11 | FACE         | X         | 4.921                 | 4.921                      | 0                     | %100                |
| 12 | FACE         | Z         | -8.524                | -8.524                     | 0                     | %100                |
| 13 | M11          | X         | .338                  | .338                       | 0                     | %100                |
| 14 | M11          | Z         | -.585                 | -.585                      | 0                     | %100                |
| 15 | M12          | X         | 5.031                 | 5.031                      | 0                     | %100                |
| 16 | M12          | Z         | -8.714                | -8.714                     | 0                     | %100                |
| 17 | M13          | X         | .338                  | .338                       | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|---------------------|----------------------------|----------------------|--------------------|
| 18 | M13          | Z         | -585                | -585                       | 0                    | %100               |
| 19 | M14          | X         | 5.031               | 5.031                      | 0                    | %100               |
| 20 | M14          | Z         | -8.714              | -8.714                     | 0                    | %100               |
| 21 | M15          | X         | 2.675               | 2.675                      | 0                    | %100               |
| 22 | M15          | Z         | -4.632              | -4.632                     | 0                    | %100               |
| 23 | M16          | X         | 4.232               | 4.232                      | 0                    | %100               |
| 24 | M16          | Z         | -7.331              | -7.331                     | 0                    | %100               |
| 25 | M17          | X         | 2.675               | 2.675                      | 0                    | %100               |
| 26 | M17          | Z         | -4.632              | -4.632                     | 0                    | %100               |
| 27 | M18          | X         | 4.232               | 4.232                      | 0                    | %100               |
| 28 | M18          | Z         | -7.331              | -7.331                     | 0                    | %100               |
| 29 | M19          | X         | 2.811               | 2.811                      | 0                    | %100               |
| 30 | M19          | Z         | -4.869              | -4.869                     | 0                    | %100               |
| 31 | M20          | X         | 2.675               | 2.675                      | 0                    | %100               |
| 32 | M20          | Z         | -4.632              | -4.632                     | 0                    | %100               |
| 33 | M21          | X         | 2.675               | 2.675                      | 0                    | %100               |
| 34 | M21          | Z         | -4.632              | -4.632                     | 0                    | %100               |
| 35 | M22          | X         | 3.935               | 3.935                      | 0                    | %100               |
| 36 | M22          | Z         | -6.815              | -6.815                     | 0                    | %100               |
| 37 | M23          | X         | 3.935               | 3.935                      | 0                    | %100               |
| 38 | M23          | Z         | -6.815              | -6.815                     | 0                    | %100               |
| 39 | M24          | X         | 4.306               | 4.306                      | 0                    | %100               |
| 40 | M24          | Z         | -7.458              | -7.458                     | 0                    | %100               |
| 41 | M25          | X         | 2.811               | 2.811                      | 0                    | %100               |
| 42 | M25          | Z         | -4.869              | -4.869                     | 0                    | %100               |
| 43 | M26          | X         | 2.675               | 2.675                      | 0                    | %100               |
| 44 | M26          | Z         | -4.632              | -4.632                     | 0                    | %100               |
| 45 | M27          | X         | 2.98                | 2.98                       | 0                    | %100               |
| 46 | M27          | Z         | -5.162              | -5.162                     | 0                    | %100               |
| 47 | M28          | X         | 2.675               | 2.675                      | 0                    | %100               |
| 48 | M28          | Z         | -4.632              | -4.632                     | 0                    | %100               |
| 49 | M29          | X         | 2.98                | 2.98                       | 0                    | %100               |
| 50 | M29          | Z         | -5.162              | -5.162                     | 0                    | %100               |
| 51 | M30          | X         | 2.811               | 2.811                      | 0                    | %100               |
| 52 | M30          | Z         | -4.869              | -4.869                     | 0                    | %100               |
| 53 | M31          | X         | 2.675               | 2.675                      | 0                    | %100               |
| 54 | M31          | Z         | -4.632              | -4.632                     | 0                    | %100               |
| 55 | M32          | X         | 2.675               | 2.675                      | 0                    | %100               |
| 56 | M32          | Z         | -4.632              | -4.632                     | 0                    | %100               |
| 57 | M33          | X         | 3.935               | 3.935                      | 0                    | %100               |
| 58 | M33          | Z         | -6.815              | -6.815                     | 0                    | %100               |
| 59 | M34          | X         | 3.935               | 3.935                      | 0                    | %100               |
| 60 | M34          | Z         | -6.815              | -6.815                     | 0                    | %100               |
| 61 | M35          | X         | 4.306               | 4.306                      | 0                    | %100               |
| 62 | M35          | Z         | -7.458              | -7.458                     | 0                    | %100               |
| 63 | M36          | X         | 2.811               | 2.811                      | 0                    | %100               |
| 64 | M36          | Z         | -4.869              | -4.869                     | 0                    | %100               |
| 65 | MP1A         | X         | 5.42                | 5.42                       | 0                    | %100               |
| 66 | MP1A         | Z         | -9.388              | -9.388                     | 0                    | %100               |
| 67 | M46          | X         | 1.196               | 1.196                      | 0                    | %100               |
| 68 | M46          | Z         | -2.072              | -2.072                     | 0                    | %100               |
| 69 | MP2A         | X         | 5.42                | 5.42                       | 0                    | %100               |
| 70 | MP2A         | Z         | -9.388              | -9.388                     | 0                    | %100               |
| 71 | MP4A         | X         | 5.42                | 5.42                       | 0                    | %100               |
| 72 | MP4A         | Z         | -9.388              | -9.388                     | 0                    | %100               |
| 73 | MP3          | X         | 5.32                | 5.32                       | 0                    | %100               |
| 74 | MP3          | Z         | -9.215              | -9.215                     | 0                    | %100               |





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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 75 | M56          | X         | .276                  | .276                       | 0                    | %100               |
| 76 | M56          | Z         | -.478                 | -.478                      | 0                    | %100               |
| 77 | M57          | X         | .276                  | .276                       | 0                    | %100               |
| 78 | M57          | Z         | -.478                 | -.478                      | 0                    | %100               |
| 79 | M58          | X         | .276                  | .276                       | 0                    | %100               |
| 80 | M58          | Z         | -.478                 | -.478                      | 0                    | %100               |
| 81 | M59          | X         | .276                  | .276                       | 0                    | %100               |
| 82 | M59          | Z         | -.478                 | -.478                      | 0                    | %100               |
| 83 | MP3A         | X         | 6.562                 | 6.562                      | 0                    | %100               |
| 84 | MP3A         | Z         | -11.365               | -11.365                    | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | .106                  | .106                       | 0                    | %100               |
| 2  | M5           | Z         | -.061                 | -.061                      | 0                    | %100               |
| 3  | M6           | X         | 1.39                  | 1.39                       | 0                    | %100               |
| 4  | M6           | Z         | -.803                 | -.803                      | 0                    | %100               |
| 5  | M7           | X         | 2.841                 | 2.841                      | 0                    | %100               |
| 6  | M7           | Z         | -1.64                 | -1.64                      | 0                    | %100               |
| 7  | M8           | X         | .106                  | .106                       | 0                    | %100               |
| 8  | M8           | Z         | -.061                 | -.061                      | 0                    | %100               |
| 9  | M9           | X         | 1.39                  | 1.39                       | 0                    | %100               |
| 10 | M9           | Z         | -.803                 | -.803                      | 0                    | %100               |
| 11 | FACE         | X         | 2.841                 | 2.841                      | 0                    | %100               |
| 12 | FACE         | Z         | -1.64                 | -1.64                      | 0                    | %100               |
| 13 | M11          | X         | .674                  | .674                       | 0                    | %100               |
| 14 | M11          | Z         | -.389                 | -.389                      | 0                    | %100               |
| 15 | M12          | X         | 8.803                 | 8.803                      | 0                    | %100               |
| 16 | M12          | Z         | -5.083                | -5.083                     | 0                    | %100               |
| 17 | M13          | X         | .674                  | .674                       | 0                    | %100               |
| 18 | M13          | Z         | -.389                 | -.389                      | 0                    | %100               |
| 19 | M14          | X         | 8.803                 | 8.803                      | 0                    | %100               |
| 20 | M14          | Z         | -5.083                | -5.083                     | 0                    | %100               |
| 21 | M15          | X         | 10.768                | 10.768                     | 0                    | %100               |
| 22 | M15          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 23 | M16          | X         | 7.355                 | 7.355                      | 0                    | %100               |
| 24 | M16          | Z         | -4.246                | -4.246                     | 0                    | %100               |
| 25 | M17          | X         | 10.768                | 10.768                     | 0                    | %100               |
| 26 | M17          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 27 | M18          | X         | 7.355                 | 7.355                      | 0                    | %100               |
| 28 | M18          | Z         | -4.246                | -4.246                     | 0                    | %100               |
| 29 | M19          | X         | 10.847                | 10.847                     | 0                    | %100               |
| 30 | M19          | Z         | -6.262                | -6.262                     | 0                    | %100               |
| 31 | M20          | X         | 10.768                | 10.768                     | 0                    | %100               |
| 32 | M20          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 33 | M21          | X         | 10.768                | 10.768                     | 0                    | %100               |
| 34 | M21          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 35 | M22          | X         | 6.815                 | 6.815                      | 0                    | %100               |
| 36 | M22          | Z         | -3.935                | -3.935                     | 0                    | %100               |
| 37 | M23          | X         | 6.815                 | 6.815                      | 0                    | %100               |
| 38 | M23          | Z         | -3.935                | -3.935                     | 0                    | %100               |
| 39 | M24          | X         | 7.458                 | 7.458                      | 0                    | %100               |
| 40 | M24          | Z         | -4.306                | -4.306                     | 0                    | %100               |
| 41 | M25          | X         | 10.847                | 10.847                     | 0                    | %100               |
| 42 | M25          | Z         | -6.262                | -6.262                     | 0                    | %100               |
| 43 | M26          | X         | 10.768                | 10.768                     | 0                    | %100               |





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

| Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 13           | M11       | X                     | 5.524                      | 5.524                | 0 %100             |
| 14           | M11       | Z                     | 0                          | 0                    | 0 %100             |
| 15           | M12       | X                     | 5.524                      | 5.524                | 0 %100             |
| 16           | M12       | Z                     | 0                          | 0                    | 0 %100             |
| 17           | M13       | X                     | 5.524                      | 5.524                | 0 %100             |
| 18           | M13       | Z                     | 0                          | 0                    | 0 %100             |
| 19           | M14       | X                     | 5.524                      | 5.524                | 0 %100             |
| 20           | M14       | Z                     | 0                          | 0                    | 0 %100             |
| 21           | M15       | X                     | 15.976                     | 15.976               | 0 %100             |
| 22           | M15       | Z                     | 0                          | 0                    | 0 %100             |
| 23           | M16       | X                     | 7.254                      | 7.254                | 0 %100             |
| 24           | M16       | Z                     | 0                          | 0                    | 0 %100             |
| 25           | M17       | X                     | 15.976                     | 15.976               | 0 %100             |
| 26           | M17       | Z                     | 0                          | 0                    | 0 %100             |
| 27           | M18       | X                     | 7.254                      | 7.254                | 0 %100             |
| 28           | M18       | Z                     | 0                          | 0                    | 0 %100             |
| 29           | M19       | X                     | 15.976                     | 15.976               | 0 %100             |
| 30           | M19       | Z                     | 0                          | 0                    | 0 %100             |
| 31           | M20       | X                     | 15.976                     | 15.976               | 0 %100             |
| 32           | M20       | Z                     | 0                          | 0                    | 0 %100             |
| 33           | M21       | X                     | 15.976                     | 15.976               | 0 %100             |
| 34           | M21       | Z                     | 0                          | 0                    | 0 %100             |
| 35           | M22       | X                     | 7.87                       | 7.87                 | 0 %100             |
| 36           | M22       | Z                     | 0                          | 0                    | 0 %100             |
| 37           | M23       | X                     | 7.87                       | 7.87                 | 0 %100             |
| 38           | M23       | Z                     | 0                          | 0                    | 0 %100             |
| 39           | M24       | X                     | 8.611                      | 8.611                | 0 %100             |
| 40           | M24       | Z                     | 0                          | 0                    | 0 %100             |
| 41           | M25       | X                     | 15.976                     | 15.976               | 0 %100             |
| 42           | M25       | Z                     | 0                          | 0                    | 0 %100             |
| 43           | M26       | X                     | 15.976                     | 15.976               | 0 %100             |
| 44           | M26       | Z                     | 0                          | 0                    | 0 %100             |
| 45           | M27       | X                     | 7.254                      | 7.254                | 0 %100             |
| 46           | M27       | Z                     | 0                          | 0                    | 0 %100             |
| 47           | M28       | X                     | 15.976                     | 15.976               | 0 %100             |
| 48           | M28       | Z                     | 0                          | 0                    | 0 %100             |
| 49           | M29       | X                     | 7.254                      | 7.254                | 0 %100             |
| 50           | M29       | Z                     | 0                          | 0                    | 0 %100             |
| 51           | M30       | X                     | 15.976                     | 15.976               | 0 %100             |
| 52           | M30       | Z                     | 0                          | 0                    | 0 %100             |
| 53           | M31       | X                     | 15.976                     | 15.976               | 0 %100             |
| 54           | M31       | Z                     | 0                          | 0                    | 0 %100             |
| 55           | M32       | X                     | 15.976                     | 15.976               | 0 %100             |
| 56           | M32       | Z                     | 0                          | 0                    | 0 %100             |
| 57           | M33       | X                     | 7.87                       | 7.87                 | 0 %100             |
| 58           | M33       | Z                     | 0                          | 0                    | 0 %100             |
| 59           | M34       | X                     | 7.87                       | 7.87                 | 0 %100             |
| 60           | M34       | Z                     | 0                          | 0                    | 0 %100             |
| 61           | M35       | X                     | 8.611                      | 8.611                | 0 %100             |
| 62           | M35       | Z                     | 0                          | 0                    | 0 %100             |
| 63           | M36       | X                     | 15.976                     | 15.976               | 0 %100             |
| 64           | M36       | Z                     | 0                          | 0                    | 0 %100             |
| 65           | MP1A      | X                     | 10.841                     | 10.841               | 0 %100             |
| 66           | MP1A      | Z                     | 0                          | 0                    | 0 %100             |
| 67           | M46       | X                     | 10.173                     | 10.173               | 0 %100             |
| 68           | M46       | Z                     | 0                          | 0                    | 0 %100             |
| 69           | MP2A      | X                     | 10.841                     | 10.841               | 0 %100             |



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

|    | Member Label | Direction | Start Magnitude[...] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|----------------------|----------------------------|----------------------|--------------------|
| 70 | MP2A         | Z         | 0                    | 0                          | 0                    | %100               |
| 71 | MP4A         | X         | 10.841               | 10.841                     | 0                    | %100               |
| 72 | MP4A         | Z         | 0                    | 0                          | 0                    | %100               |
| 73 | MP3          | X         | 10.64                | 10.64                      | 0                    | %100               |
| 74 | MP3          | Z         | 0                    | 0                          | 0                    | %100               |
| 75 | M56          | X         | 2.208                | 2.208                      | 0                    | %100               |
| 76 | M56          | Z         | 0                    | 0                          | 0                    | %100               |
| 77 | M57          | X         | 2.208                | 2.208                      | 0                    | %100               |
| 78 | M57          | Z         | 0                    | 0                          | 0                    | %100               |
| 79 | M58          | X         | 2.208                | 2.208                      | 0                    | %100               |
| 80 | M58          | Z         | 0                    | 0                          | 0                    | %100               |
| 81 | M59          | X         | 2.208                | 2.208                      | 0                    | %100               |
| 82 | M59          | Z         | 0                    | 0                          | 0                    | %100               |
| 83 | MP3A         | X         | 13.123               | 13.123                     | 0                    | %100               |
| 84 | MP3A         | Z         | 0                    | 0                          | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[...] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|----------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | 1.39                 | 1.39                       | 0                    | %100               |
| 2  | M5           | Z         | .803                 | .803                       | 0                    | %100               |
| 3  | M6           | X         | .106                 | .106                       | 0                    | %100               |
| 4  | M6           | Z         | .061                 | .061                       | 0                    | %100               |
| 5  | M7           | X         | 2.841                | 2.841                      | 0                    | %100               |
| 6  | M7           | Z         | 1.64                 | 1.64                       | 0                    | %100               |
| 7  | M8           | X         | 1.39                 | 1.39                       | 0                    | %100               |
| 8  | M8           | Z         | .803                 | .803                       | 0                    | %100               |
| 9  | M9           | X         | .106                 | .106                       | 0                    | %100               |
| 10 | M9           | Z         | .061                 | .061                       | 0                    | %100               |
| 11 | FACE         | X         | 2.841                | 2.841                      | 0                    | %100               |
| 12 | FACE         | Z         | 1.64                 | 1.64                       | 0                    | %100               |
| 13 | M11          | X         | 8.803                | 8.803                      | 0                    | %100               |
| 14 | M11          | Z         | 5.083                | 5.083                      | 0                    | %100               |
| 15 | M12          | X         | .674                 | .674                       | 0                    | %100               |
| 16 | M12          | Z         | .389                 | .389                       | 0                    | %100               |
| 17 | M13          | X         | 8.803                | 8.803                      | 0                    | %100               |
| 18 | M13          | Z         | 5.083                | 5.083                      | 0                    | %100               |
| 19 | M14          | X         | .674                 | .674                       | 0                    | %100               |
| 20 | M14          | Z         | .389                 | .389                       | 0                    | %100               |
| 21 | M15          | X         | 10.768               | 10.768                     | 0                    | %100               |
| 22 | M15          | Z         | 6.217                | 6.217                      | 0                    | %100               |
| 23 | M16          | X         | 5.186                | 5.186                      | 0                    | %100               |
| 24 | M16          | Z         | 2.994                | 2.994                      | 0                    | %100               |
| 25 | M17          | X         | 10.768               | 10.768                     | 0                    | %100               |
| 26 | M17          | Z         | 6.217                | 6.217                      | 0                    | %100               |
| 27 | M18          | X         | 5.186                | 5.186                      | 0                    | %100               |
| 28 | M18          | Z         | 2.994                | 2.994                      | 0                    | %100               |
| 29 | M19          | X         | 10.847               | 10.847                     | 0                    | %100               |
| 30 | M19          | Z         | 6.262                | 6.262                      | 0                    | %100               |
| 31 | M20          | X         | 10.768               | 10.768                     | 0                    | %100               |
| 32 | M20          | Z         | 6.217                | 6.217                      | 0                    | %100               |
| 33 | M21          | X         | 10.768               | 10.768                     | 0                    | %100               |
| 34 | M21          | Z         | 6.217                | 6.217                      | 0                    | %100               |
| 35 | M22          | X         | 6.815                | 6.815                      | 0                    | %100               |
| 36 | M22          | Z         | 3.935                | 3.935                      | 0                    | %100               |
| 37 | M23          | X         | 6.815                | 6.815                      | 0                    | %100               |
| 38 | M23          | Z         | 3.935                | 3.935                      | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[l... | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|----------------------|----------------------------|-----------------------|---------------------|
| 39 | M24          | X         | 7.458                | 7.458                      | 0                     | %100                |
| 40 | M24          | Z         | 4.306                | 4.306                      | 0                     | %100                |
| 41 | M25          | X         | 10.847               | 10.847                     | 0                     | %100                |
| 42 | M25          | Z         | 6.262                | 6.262                      | 0                     | %100                |
| 43 | M26          | X         | 10.768               | 10.768                     | 0                     | %100                |
| 44 | M26          | Z         | 6.217                | 6.217                      | 0                     | %100                |
| 45 | M27          | X         | 7.355                | 7.355                      | 0                     | %100                |
| 46 | M27          | Z         | 4.246                | 4.246                      | 0                     | %100                |
| 47 | M28          | X         | 10.768               | 10.768                     | 0                     | %100                |
| 48 | M28          | Z         | 6.217                | 6.217                      | 0                     | %100                |
| 49 | M29          | X         | 7.355                | 7.355                      | 0                     | %100                |
| 50 | M29          | Z         | 4.246                | 4.246                      | 0                     | %100                |
| 51 | M30          | X         | 10.847               | 10.847                     | 0                     | %100                |
| 52 | M30          | Z         | 6.262                | 6.262                      | 0                     | %100                |
| 53 | M31          | X         | 10.768               | 10.768                     | 0                     | %100                |
| 54 | M31          | Z         | 6.217                | 6.217                      | 0                     | %100                |
| 55 | M32          | X         | 10.768               | 10.768                     | 0                     | %100                |
| 56 | M32          | Z         | 6.217                | 6.217                      | 0                     | %100                |
| 57 | M33          | X         | 6.815                | 6.815                      | 0                     | %100                |
| 58 | M33          | Z         | 3.935                | 3.935                      | 0                     | %100                |
| 59 | M34          | X         | 6.815                | 6.815                      | 0                     | %100                |
| 60 | M34          | Z         | 3.935                | 3.935                      | 0                     | %100                |
| 61 | M35          | X         | 7.458                | 7.458                      | 0                     | %100                |
| 62 | M35          | Z         | 4.306                | 4.306                      | 0                     | %100                |
| 63 | M36          | X         | 10.847               | 10.847                     | 0                     | %100                |
| 64 | M36          | Z         | 6.262                | 6.262                      | 0                     | %100                |
| 65 | MP1A         | X         | 9.388                | 9.388                      | 0                     | %100                |
| 66 | MP1A         | Z         | 5.42                 | 5.42                       | 0                     | %100                |
| 67 | M46          | X         | 7.787                | 7.787                      | 0                     | %100                |
| 68 | M46          | Z         | 4.496                | 4.496                      | 0                     | %100                |
| 69 | MP2A         | X         | 9.388                | 9.388                      | 0                     | %100                |
| 70 | MP2A         | Z         | 5.42                 | 5.42                       | 0                     | %100                |
| 71 | MP4A         | X         | 9.388                | 9.388                      | 0                     | %100                |
| 72 | MP4A         | Z         | 5.42                 | 5.42                       | 0                     | %100                |
| 73 | MP3          | X         | 9.215                | 9.215                      | 0                     | %100                |
| 74 | MP3          | Z         | 5.32                 | 5.32                       | 0                     | %100                |
| 75 | M56          | X         | 1.434                | 1.434                      | 0                     | %100                |
| 76 | M56          | Z         | .828                 | .828                       | 0                     | %100                |
| 77 | M57          | X         | 1.434                | 1.434                      | 0                     | %100                |
| 78 | M57          | Z         | .828                 | .828                       | 0                     | %100                |
| 79 | M58          | X         | 1.434                | 1.434                      | 0                     | %100                |
| 80 | M58          | Z         | .828                 | .828                       | 0                     | %100                |
| 81 | M59          | X         | 1.434                | 1.434                      | 0                     | %100                |
| 82 | M59          | Z         | .828                 | .828                       | 0                     | %100                |
| 83 | MP3A         | X         | 11.365               | 11.365                     | 0                     | %100                |
| 84 | MP3A         | Z         | 6.562                | 6.562                      | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[l... | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|----------------------|----------------------------|-----------------------|---------------------|
| 1 | M5           | X         | .794                 | .794                       | 0                     | %100                |
| 2 | M5           | Z         | 1.376                | 1.376                      | 0                     | %100                |
| 3 | M6           | X         | .053                 | .053                       | 0                     | %100                |
| 4 | M6           | Z         | .092                 | .092                       | 0                     | %100                |
| 5 | M7           | X         | 4.921                | 4.921                      | 0                     | %100                |
| 6 | M7           | Z         | 8.524                | 8.524                      | 0                     | %100                |
| 7 | M8           | X         | .794                 | .794                       | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 8  | M8           | Z         | 1.376                        | 1.376                      | 0                    | %100               |
| 9  | M9           | X         | .053                         | .053                       | 0                    | %100               |
| 10 | M9           | Z         | .092                         | .092                       | 0                    | %100               |
| 11 | FACE         | X         | 4.921                        | 4.921                      | 0                    | %100               |
| 12 | FACE         | Z         | 8.524                        | 8.524                      | 0                    | %100               |
| 13 | M11          | X         | 5.031                        | 5.031                      | 0                    | %100               |
| 14 | M11          | Z         | 8.714                        | 8.714                      | 0                    | %100               |
| 15 | M12          | X         | .338                         | .338                       | 0                    | %100               |
| 16 | M12          | Z         | .585                         | .585                       | 0                    | %100               |
| 17 | M13          | X         | 5.031                        | 5.031                      | 0                    | %100               |
| 18 | M13          | Z         | 8.714                        | 8.714                      | 0                    | %100               |
| 19 | M14          | X         | .338                         | .338                       | 0                    | %100               |
| 20 | M14          | Z         | .585                         | .585                       | 0                    | %100               |
| 21 | M15          | X         | 2.675                        | 2.675                      | 0                    | %100               |
| 22 | M15          | Z         | 4.632                        | 4.632                      | 0                    | %100               |
| 23 | M16          | X         | 2.98                         | 2.98                       | 0                    | %100               |
| 24 | M16          | Z         | 5.162                        | 5.162                      | 0                    | %100               |
| 25 | M17          | X         | 2.675                        | 2.675                      | 0                    | %100               |
| 26 | M17          | Z         | 4.632                        | 4.632                      | 0                    | %100               |
| 27 | M18          | X         | 2.98                         | 2.98                       | 0                    | %100               |
| 28 | M18          | Z         | 5.162                        | 5.162                      | 0                    | %100               |
| 29 | M19          | X         | 2.811                        | 2.811                      | 0                    | %100               |
| 30 | M19          | Z         | 4.869                        | 4.869                      | 0                    | %100               |
| 31 | M20          | X         | 2.675                        | 2.675                      | 0                    | %100               |
| 32 | M20          | Z         | 4.632                        | 4.632                      | 0                    | %100               |
| 33 | M21          | X         | 2.675                        | 2.675                      | 0                    | %100               |
| 34 | M21          | Z         | 4.632                        | 4.632                      | 0                    | %100               |
| 35 | M22          | X         | 3.935                        | 3.935                      | 0                    | %100               |
| 36 | M22          | Z         | 6.815                        | 6.815                      | 0                    | %100               |
| 37 | M23          | X         | 3.935                        | 3.935                      | 0                    | %100               |
| 38 | M23          | Z         | 6.815                        | 6.815                      | 0                    | %100               |
| 39 | M24          | X         | 4.306                        | 4.306                      | 0                    | %100               |
| 40 | M24          | Z         | 7.458                        | 7.458                      | 0                    | %100               |
| 41 | M25          | X         | 2.811                        | 2.811                      | 0                    | %100               |
| 42 | M25          | Z         | 4.869                        | 4.869                      | 0                    | %100               |
| 43 | M26          | X         | 2.675                        | 2.675                      | 0                    | %100               |
| 44 | M26          | Z         | 4.632                        | 4.632                      | 0                    | %100               |
| 45 | M27          | X         | 4.232                        | 4.232                      | 0                    | %100               |
| 46 | M27          | Z         | 7.331                        | 7.331                      | 0                    | %100               |
| 47 | M28          | X         | 2.675                        | 2.675                      | 0                    | %100               |
| 48 | M28          | Z         | 4.632                        | 4.632                      | 0                    | %100               |
| 49 | M29          | X         | 4.232                        | 4.232                      | 0                    | %100               |
| 50 | M29          | Z         | 7.331                        | 7.331                      | 0                    | %100               |
| 51 | M30          | X         | 2.811                        | 2.811                      | 0                    | %100               |
| 52 | M30          | Z         | 4.869                        | 4.869                      | 0                    | %100               |
| 53 | M31          | X         | 2.675                        | 2.675                      | 0                    | %100               |
| 54 | M31          | Z         | 4.632                        | 4.632                      | 0                    | %100               |
| 55 | M32          | X         | 2.675                        | 2.675                      | 0                    | %100               |
| 56 | M32          | Z         | 4.632                        | 4.632                      | 0                    | %100               |
| 57 | M33          | X         | 3.935                        | 3.935                      | 0                    | %100               |
| 58 | M33          | Z         | 6.815                        | 6.815                      | 0                    | %100               |
| 59 | M34          | X         | 3.935                        | 3.935                      | 0                    | %100               |
| 60 | M34          | Z         | 6.815                        | 6.815                      | 0                    | %100               |
| 61 | M35          | X         | 4.306                        | 4.306                      | 0                    | %100               |
| 62 | M35          | Z         | 7.458                        | 7.458                      | 0                    | %100               |
| 63 | M36          | X         | 2.811                        | 2.811                      | 0                    | %100               |
| 64 | M36          | Z         | 4.869                        | 4.869                      | 0                    | %100               |





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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 34 | M21          | Z         | 1.807                 | 1.807                      | 0                    | %100               |
| 35 | M22          | X         | 0                     | 0                          | 0                    | %100               |
| 36 | M22          | Z         | 7.87                  | 7.87                       | 0                    | %100               |
| 37 | M23          | X         | 0                     | 0                          | 0                    | %100               |
| 38 | M23          | Z         | 7.87                  | 7.87                       | 0                    | %100               |
| 39 | M24          | X         | 0                     | 0                          | 0                    | %100               |
| 40 | M24          | Z         | 8.611                 | 8.611                      | 0                    | %100               |
| 41 | M25          | X         | 0                     | 0                          | 0                    | %100               |
| 42 | M25          | Z         | 2.171                 | 2.171                      | 0                    | %100               |
| 43 | M26          | X         | 0                     | 0                          | 0                    | %100               |
| 44 | M26          | Z         | 1.807                 | 1.807                      | 0                    | %100               |
| 45 | M27          | X         | 0                     | 0                          | 0                    | %100               |
| 46 | M27          | Z         | 7.199                 | 7.199                      | 0                    | %100               |
| 47 | M28          | X         | 0                     | 0                          | 0                    | %100               |
| 48 | M28          | Z         | 1.807                 | 1.807                      | 0                    | %100               |
| 49 | M29          | X         | 0                     | 0                          | 0                    | %100               |
| 50 | M29          | Z         | 7.199                 | 7.199                      | 0                    | %100               |
| 51 | M30          | X         | 0                     | 0                          | 0                    | %100               |
| 52 | M30          | Z         | 2.171                 | 2.171                      | 0                    | %100               |
| 53 | M31          | X         | 0                     | 0                          | 0                    | %100               |
| 54 | M31          | Z         | 1.807                 | 1.807                      | 0                    | %100               |
| 55 | M32          | X         | 0                     | 0                          | 0                    | %100               |
| 56 | M32          | Z         | 1.807                 | 1.807                      | 0                    | %100               |
| 57 | M33          | X         | 0                     | 0                          | 0                    | %100               |
| 58 | M33          | Z         | 7.87                  | 7.87                       | 0                    | %100               |
| 59 | M34          | X         | 0                     | 0                          | 0                    | %100               |
| 60 | M34          | Z         | 7.87                  | 7.87                       | 0                    | %100               |
| 61 | M35          | X         | 0                     | 0                          | 0                    | %100               |
| 62 | M35          | Z         | 8.611                 | 8.611                      | 0                    | %100               |
| 63 | M36          | X         | 0                     | 0                          | 0                    | %100               |
| 64 | M36          | Z         | 2.171                 | 2.171                      | 0                    | %100               |
| 65 | MP1A         | X         | 0                     | 0                          | 0                    | %100               |
| 66 | MP1A         | Z         | 10.841                | 10.841                     | 0                    | %100               |
| 67 | M46          | X         | 0                     | 0                          | 0                    | %100               |
| 68 | M46          | Z         | 1.211                 | 1.211                      | 0                    | %100               |
| 69 | MP2A         | X         | 0                     | 0                          | 0                    | %100               |
| 70 | MP2A         | Z         | 10.841                | 10.841                     | 0                    | %100               |
| 71 | MP4A         | X         | 0                     | 0                          | 0                    | %100               |
| 72 | MP4A         | Z         | 10.841                | 10.841                     | 0                    | %100               |
| 73 | MP3          | X         | 0                     | 0                          | 0                    | %100               |
| 74 | MP3          | Z         | 10.64                 | 10.64                      | 0                    | %100               |
| 75 | M56          | X         | 0                     | 0                          | 0                    | %100               |
| 76 | M56          | Z         | 0                     | 0                          | 0                    | %100               |
| 77 | M57          | X         | 0                     | 0                          | 0                    | %100               |
| 78 | M57          | Z         | 0                     | 0                          | 0                    | %100               |
| 79 | M58          | X         | 0                     | 0                          | 0                    | %100               |
| 80 | M58          | Z         | 0                     | 0                          | 0                    | %100               |
| 81 | M59          | X         | 0                     | 0                          | 0                    | %100               |
| 82 | M59          | Z         | 0                     | 0                          | 0                    | %100               |
| 83 | MP3A         | X         | 0                     | 0                          | 0                    | %100               |
| 84 | MP3A         | Z         | 13.123                | 13.123                     | 0                    | %100               |

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

|   | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|---|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 1 | M5           | X         | -.053                 | -.053                      | 0                    | %100               |
| 2 | M5           | Z         | .092                  | .092                       | 0                    | %100               |





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

| Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 3            | M6        | X                     | - .794                     | - .794               | 0 %100             |
| 4            | M6        | Z                     | 1.376                      | 1.376                | 0 %100             |
| 5            | M7        | X                     | -4.921                     | -4.921               | 0 %100             |
| 6            | M7        | Z                     | 8.524                      | 8.524                | 0 %100             |
| 7            | M8        | X                     | - .053                     | - .053               | 0 %100             |
| 8            | M8        | Z                     | .092                       | .092                 | 0 %100             |
| 9            | M9        | X                     | - .794                     | - .794               | 0 %100             |
| 10           | M9        | Z                     | 1.376                      | 1.376                | 0 %100             |
| 11           | FACE      | X                     | -4.921                     | -4.921               | 0 %100             |
| 12           | FACE      | Z                     | 8.524                      | 8.524                | 0 %100             |
| 13           | M11       | X                     | - .338                     | - .338               | 0 %100             |
| 14           | M11       | Z                     | .585                       | .585                 | 0 %100             |
| 15           | M12       | X                     | -5.031                     | -5.031               | 0 %100             |
| 16           | M12       | Z                     | 8.714                      | 8.714                | 0 %100             |
| 17           | M13       | X                     | - .338                     | - .338               | 0 %100             |
| 18           | M13       | Z                     | .585                       | .585                 | 0 %100             |
| 19           | M14       | X                     | -5.031                     | -5.031               | 0 %100             |
| 20           | M14       | Z                     | 8.714                      | 8.714                | 0 %100             |
| 21           | M15       | X                     | -2.675                     | -2.675               | 0 %100             |
| 22           | M15       | Z                     | 4.632                      | 4.632                | 0 %100             |
| 23           | M16       | X                     | -4.232                     | -4.232               | 0 %100             |
| 24           | M16       | Z                     | 7.331                      | 7.331                | 0 %100             |
| 25           | M17       | X                     | -2.675                     | -2.675               | 0 %100             |
| 26           | M17       | Z                     | 4.632                      | 4.632                | 0 %100             |
| 27           | M18       | X                     | -4.232                     | -4.232               | 0 %100             |
| 28           | M18       | Z                     | 7.331                      | 7.331                | 0 %100             |
| 29           | M19       | X                     | -2.811                     | -2.811               | 0 %100             |
| 30           | M19       | Z                     | 4.869                      | 4.869                | 0 %100             |
| 31           | M20       | X                     | -2.675                     | -2.675               | 0 %100             |
| 32           | M20       | Z                     | 4.632                      | 4.632                | 0 %100             |
| 33           | M21       | X                     | -2.675                     | -2.675               | 0 %100             |
| 34           | M21       | Z                     | 4.632                      | 4.632                | 0 %100             |
| 35           | M22       | X                     | -3.935                     | -3.935               | 0 %100             |
| 36           | M22       | Z                     | 6.815                      | 6.815                | 0 %100             |
| 37           | M23       | X                     | -3.935                     | -3.935               | 0 %100             |
| 38           | M23       | Z                     | 6.815                      | 6.815                | 0 %100             |
| 39           | M24       | X                     | -4.306                     | -4.306               | 0 %100             |
| 40           | M24       | Z                     | 7.458                      | 7.458                | 0 %100             |
| 41           | M25       | X                     | -2.811                     | -2.811               | 0 %100             |
| 42           | M25       | Z                     | 4.869                      | 4.869                | 0 %100             |
| 43           | M26       | X                     | -2.675                     | -2.675               | 0 %100             |
| 44           | M26       | Z                     | 4.632                      | 4.632                | 0 %100             |
| 45           | M27       | X                     | -2.98                      | -2.98                | 0 %100             |
| 46           | M27       | Z                     | 5.162                      | 5.162                | 0 %100             |
| 47           | M28       | X                     | -2.675                     | -2.675               | 0 %100             |
| 48           | M28       | Z                     | 4.632                      | 4.632                | 0 %100             |
| 49           | M29       | X                     | -2.98                      | -2.98                | 0 %100             |
| 50           | M29       | Z                     | 5.162                      | 5.162                | 0 %100             |
| 51           | M30       | X                     | -2.811                     | -2.811               | 0 %100             |
| 52           | M30       | Z                     | 4.869                      | 4.869                | 0 %100             |
| 53           | M31       | X                     | -2.675                     | -2.675               | 0 %100             |
| 54           | M31       | Z                     | 4.632                      | 4.632                | 0 %100             |
| 55           | M32       | X                     | -2.675                     | -2.675               | 0 %100             |
| 56           | M32       | Z                     | 4.632                      | 4.632                | 0 %100             |
| 57           | M33       | X                     | -3.935                     | -3.935               | 0 %100             |
| 58           | M33       | Z                     | 6.815                      | 6.815                | 0 %100             |
| 59           | M34       | X                     | -3.935                     | -3.935               | 0 %100             |



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 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

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

|    | Member Label | Direction | Start Magnitude[...] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|----------------------|----------------------------|----------------------|--------------------|
| 60 | M34          | Z         | 6.815                | 6.815                      | 0                    | %100               |
| 61 | M35          | X         | -4.306               | -4.306                     | 0                    | %100               |
| 62 | M35          | Z         | 7.458                | 7.458                      | 0                    | %100               |
| 63 | M36          | X         | -2.811               | -2.811                     | 0                    | %100               |
| 64 | M36          | Z         | 4.869                | 4.869                      | 0                    | %100               |
| 65 | MP1A         | X         | -5.42                | -5.42                      | 0                    | %100               |
| 66 | MP1A         | Z         | 9.388                | 9.388                      | 0                    | %100               |
| 67 | M46          | X         | -1.196               | -1.196                     | 0                    | %100               |
| 68 | M46          | Z         | 2.072                | 2.072                      | 0                    | %100               |
| 69 | MP2A         | X         | -5.42                | -5.42                      | 0                    | %100               |
| 70 | MP2A         | Z         | 9.388                | 9.388                      | 0                    | %100               |
| 71 | MP4A         | X         | -5.42                | -5.42                      | 0                    | %100               |
| 72 | MP4A         | Z         | 9.388                | 9.388                      | 0                    | %100               |
| 73 | MP3          | X         | -5.32                | -5.32                      | 0                    | %100               |
| 74 | MP3          | Z         | 9.215                | 9.215                      | 0                    | %100               |
| 75 | M56          | X         | -.276                | -.276                      | 0                    | %100               |
| 76 | M56          | Z         | .478                 | .478                       | 0                    | %100               |
| 77 | M57          | X         | -.276                | -.276                      | 0                    | %100               |
| 78 | M57          | Z         | .478                 | .478                       | 0                    | %100               |
| 79 | M58          | X         | -.276                | -.276                      | 0                    | %100               |
| 80 | M58          | Z         | .478                 | .478                       | 0                    | %100               |
| 81 | M59          | X         | -.276                | -.276                      | 0                    | %100               |
| 82 | M59          | Z         | .478                 | .478                       | 0                    | %100               |
| 83 | MP3A         | X         | -6.562               | -6.562                     | 0                    | %100               |
| 84 | MP3A         | Z         | 11.365               | 11.365                     | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[...] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|----------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | -.106                | -.106                      | 0                    | %100               |
| 2  | M5           | Z         | .061                 | .061                       | 0                    | %100               |
| 3  | M6           | X         | -1.39                | -1.39                      | 0                    | %100               |
| 4  | M6           | Z         | .803                 | .803                       | 0                    | %100               |
| 5  | M7           | X         | -2.841               | -2.841                     | 0                    | %100               |
| 6  | M7           | Z         | 1.64                 | 1.64                       | 0                    | %100               |
| 7  | M8           | X         | -.106                | -.106                      | 0                    | %100               |
| 8  | M8           | Z         | .061                 | .061                       | 0                    | %100               |
| 9  | M9           | X         | -1.39                | -1.39                      | 0                    | %100               |
| 10 | M9           | Z         | .803                 | .803                       | 0                    | %100               |
| 11 | FACE         | X         | -2.841               | -2.841                     | 0                    | %100               |
| 12 | FACE         | Z         | 1.64                 | 1.64                       | 0                    | %100               |
| 13 | M11          | X         | -.674                | -.674                      | 0                    | %100               |
| 14 | M11          | Z         | .389                 | .389                       | 0                    | %100               |
| 15 | M12          | X         | -8.803               | -8.803                     | 0                    | %100               |
| 16 | M12          | Z         | 5.083                | 5.083                      | 0                    | %100               |
| 17 | M13          | X         | -.674                | -.674                      | 0                    | %100               |
| 18 | M13          | Z         | .389                 | .389                       | 0                    | %100               |
| 19 | M14          | X         | -8.803               | -8.803                     | 0                    | %100               |
| 20 | M14          | Z         | 5.083                | 5.083                      | 0                    | %100               |
| 21 | M15          | X         | -10.768              | -10.768                    | 0                    | %100               |
| 22 | M15          | Z         | 6.217                | 6.217                      | 0                    | %100               |
| 23 | M16          | X         | -7.355               | -7.355                     | 0                    | %100               |
| 24 | M16          | Z         | 4.246                | 4.246                      | 0                    | %100               |
| 25 | M17          | X         | -10.768              | -10.768                    | 0                    | %100               |
| 26 | M17          | Z         | 6.217                | 6.217                      | 0                    | %100               |
| 27 | M18          | X         | -7.355               | -7.355                     | 0                    | %100               |
| 28 | M18          | Z         | 4.246                | 4.246                      | 0                    | %100               |



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 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

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

| Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 29           | M19       | X                            | -10.847                    | -10.847              | 0 %100             |
| 30           | M19       | Z                            | 6.262                      | 6.262                | 0 %100             |
| 31           | M20       | X                            | -10.768                    | -10.768              | 0 %100             |
| 32           | M20       | Z                            | 6.217                      | 6.217                | 0 %100             |
| 33           | M21       | X                            | -10.768                    | -10.768              | 0 %100             |
| 34           | M21       | Z                            | 6.217                      | 6.217                | 0 %100             |
| 35           | M22       | X                            | -6.815                     | -6.815               | 0 %100             |
| 36           | M22       | Z                            | 3.935                      | 3.935                | 0 %100             |
| 37           | M23       | X                            | -6.815                     | -6.815               | 0 %100             |
| 38           | M23       | Z                            | 3.935                      | 3.935                | 0 %100             |
| 39           | M24       | X                            | -7.458                     | -7.458               | 0 %100             |
| 40           | M24       | Z                            | 4.306                      | 4.306                | 0 %100             |
| 41           | M25       | X                            | -10.847                    | -10.847              | 0 %100             |
| 42           | M25       | Z                            | 6.262                      | 6.262                | 0 %100             |
| 43           | M26       | X                            | -10.768                    | -10.768              | 0 %100             |
| 44           | M26       | Z                            | 6.217                      | 6.217                | 0 %100             |
| 45           | M27       | X                            | -5.186                     | -5.186               | 0 %100             |
| 46           | M27       | Z                            | 2.994                      | 2.994                | 0 %100             |
| 47           | M28       | X                            | -10.768                    | -10.768              | 0 %100             |
| 48           | M28       | Z                            | 6.217                      | 6.217                | 0 %100             |
| 49           | M29       | X                            | -5.186                     | -5.186               | 0 %100             |
| 50           | M29       | Z                            | 2.994                      | 2.994                | 0 %100             |
| 51           | M30       | X                            | -10.847                    | -10.847              | 0 %100             |
| 52           | M30       | Z                            | 6.262                      | 6.262                | 0 %100             |
| 53           | M31       | X                            | -10.768                    | -10.768              | 0 %100             |
| 54           | M31       | Z                            | 6.217                      | 6.217                | 0 %100             |
| 55           | M32       | X                            | -10.768                    | -10.768              | 0 %100             |
| 56           | M32       | Z                            | 6.217                      | 6.217                | 0 %100             |
| 57           | M33       | X                            | -6.815                     | -6.815               | 0 %100             |
| 58           | M33       | Z                            | 3.935                      | 3.935                | 0 %100             |
| 59           | M34       | X                            | -6.815                     | -6.815               | 0 %100             |
| 60           | M34       | Z                            | 3.935                      | 3.935                | 0 %100             |
| 61           | M35       | X                            | -7.458                     | -7.458               | 0 %100             |
| 62           | M35       | Z                            | 4.306                      | 4.306                | 0 %100             |
| 63           | M36       | X                            | -10.847                    | -10.847              | 0 %100             |
| 64           | M36       | Z                            | 6.262                      | 6.262                | 0 %100             |
| 65           | MP1A      | X                            | -9.388                     | -9.388               | 0 %100             |
| 66           | MP1A      | Z                            | 5.42                       | 5.42                 | 0 %100             |
| 67           | M46       | X                            | -5.952                     | -5.952               | 0 %100             |
| 68           | M46       | Z                            | 3.436                      | 3.436                | 0 %100             |
| 69           | MP2A      | X                            | -9.388                     | -9.388               | 0 %100             |
| 70           | MP2A      | Z                            | 5.42                       | 5.42                 | 0 %100             |
| 71           | MP4A      | X                            | -9.388                     | -9.388               | 0 %100             |
| 72           | MP4A      | Z                            | 5.42                       | 5.42                 | 0 %100             |
| 73           | MP3       | X                            | -9.215                     | -9.215               | 0 %100             |
| 74           | MP3       | Z                            | 5.32                       | 5.32                 | 0 %100             |
| 75           | M56       | X                            | -1.434                     | -1.434               | 0 %100             |
| 76           | M56       | Z                            | .828                       | .828                 | 0 %100             |
| 77           | M57       | X                            | -1.434                     | -1.434               | 0 %100             |
| 78           | M57       | Z                            | .828                       | .828                 | 0 %100             |
| 79           | M58       | X                            | -1.434                     | -1.434               | 0 %100             |
| 80           | M58       | Z                            | .828                       | .828                 | 0 %100             |
| 81           | M59       | X                            | -1.434                     | -1.434               | 0 %100             |
| 82           | M59       | Z                            | .828                       | .828                 | 0 %100             |
| 83           | MP3A      | X                            | -11.365                    | -11.365              | 0 %100             |
| 84           | MP3A      | Z                            | 6.562                      | 6.562                | 0 %100             |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | -0.872                       | -0.872                     | 0                    | %100               |
| 2  | M5           | Z         | 0                            | 0                          | 0                    | %100               |
| 3  | M6           | X         | -0.872                       | -0.872                     | 0                    | %100               |
| 4  | M6           | Z         | 0                            | 0                          | 0                    | %100               |
| 5  | M7           | X         | 0                            | 0                          | 0                    | %100               |
| 6  | M7           | Z         | 0                            | 0                          | 0                    | %100               |
| 7  | M8           | X         | -0.872                       | -0.872                     | 0                    | %100               |
| 8  | M8           | Z         | 0                            | 0                          | 0                    | %100               |
| 9  | M9           | X         | -0.872                       | -0.872                     | 0                    | %100               |
| 10 | M9           | Z         | 0                            | 0                          | 0                    | %100               |
| 11 | FACE         | X         | 0                            | 0                          | 0                    | %100               |
| 12 | FACE         | Z         | 0                            | 0                          | 0                    | %100               |
| 13 | M11          | X         | -5.524                       | -5.524                     | 0                    | %100               |
| 14 | M11          | Z         | 0                            | 0                          | 0                    | %100               |
| 15 | M12          | X         | -5.524                       | -5.524                     | 0                    | %100               |
| 16 | M12          | Z         | 0                            | 0                          | 0                    | %100               |
| 17 | M13          | X         | -5.524                       | -5.524                     | 0                    | %100               |
| 18 | M13          | Z         | 0                            | 0                          | 0                    | %100               |
| 19 | M14          | X         | -5.524                       | -5.524                     | 0                    | %100               |
| 20 | M14          | Z         | 0                            | 0                          | 0                    | %100               |
| 21 | M15          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 22 | M15          | Z         | 0                            | 0                          | 0                    | %100               |
| 23 | M16          | X         | -7.254                       | -7.254                     | 0                    | %100               |
| 24 | M16          | Z         | 0                            | 0                          | 0                    | %100               |
| 25 | M17          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 26 | M17          | Z         | 0                            | 0                          | 0                    | %100               |
| 27 | M18          | X         | -7.254                       | -7.254                     | 0                    | %100               |
| 28 | M18          | Z         | 0                            | 0                          | 0                    | %100               |
| 29 | M19          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 30 | M19          | Z         | 0                            | 0                          | 0                    | %100               |
| 31 | M20          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 32 | M20          | Z         | 0                            | 0                          | 0                    | %100               |
| 33 | M21          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 34 | M21          | Z         | 0                            | 0                          | 0                    | %100               |
| 35 | M22          | X         | -7.87                        | -7.87                      | 0                    | %100               |
| 36 | M22          | Z         | 0                            | 0                          | 0                    | %100               |
| 37 | M23          | X         | -7.87                        | -7.87                      | 0                    | %100               |
| 38 | M23          | Z         | 0                            | 0                          | 0                    | %100               |
| 39 | M24          | X         | -8.611                       | -8.611                     | 0                    | %100               |
| 40 | M24          | Z         | 0                            | 0                          | 0                    | %100               |
| 41 | M25          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 42 | M25          | Z         | 0                            | 0                          | 0                    | %100               |
| 43 | M26          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 44 | M26          | Z         | 0                            | 0                          | 0                    | %100               |
| 45 | M27          | X         | -7.254                       | -7.254                     | 0                    | %100               |
| 46 | M27          | Z         | 0                            | 0                          | 0                    | %100               |
| 47 | M28          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 48 | M28          | Z         | 0                            | 0                          | 0                    | %100               |
| 49 | M29          | X         | -7.254                       | -7.254                     | 0                    | %100               |
| 50 | M29          | Z         | 0                            | 0                          | 0                    | %100               |
| 51 | M30          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 52 | M30          | Z         | 0                            | 0                          | 0                    | %100               |
| 53 | M31          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 54 | M31          | Z         | 0                            | 0                          | 0                    | %100               |
| 55 | M32          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 56 | M32          | Z         | 0                            | 0                          | 0                    | %100               |
| 57 | M33          | X         | -7.87                        | -7.87                      | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 58 | M33          | Z         | 0                            | 0                          | 0                    | %100               |
| 59 | M34          | X         | -7.87                        | -7.87                      | 0                    | %100               |
| 60 | M34          | Z         | 0                            | 0                          | 0                    | %100               |
| 61 | M35          | X         | -8.611                       | -8.611                     | 0                    | %100               |
| 62 | M35          | Z         | 0                            | 0                          | 0                    | %100               |
| 63 | M36          | X         | -15.976                      | -15.976                    | 0                    | %100               |
| 64 | M36          | Z         | 0                            | 0                          | 0                    | %100               |
| 65 | MP1A         | X         | -10.841                      | -10.841                    | 0                    | %100               |
| 66 | MP1A         | Z         | 0                            | 0                          | 0                    | %100               |
| 67 | M46          | X         | -10.173                      | -10.173                    | 0                    | %100               |
| 68 | M46          | Z         | 0                            | 0                          | 0                    | %100               |
| 69 | MP2A         | X         | -10.841                      | -10.841                    | 0                    | %100               |
| 70 | MP2A         | Z         | 0                            | 0                          | 0                    | %100               |
| 71 | MP4A         | X         | -10.841                      | -10.841                    | 0                    | %100               |
| 72 | MP4A         | Z         | 0                            | 0                          | 0                    | %100               |
| 73 | MP3          | X         | -10.64                       | -10.64                     | 0                    | %100               |
| 74 | MP3          | Z         | 0                            | 0                          | 0                    | %100               |
| 75 | M56          | X         | -2.208                       | -2.208                     | 0                    | %100               |
| 76 | M56          | Z         | 0                            | 0                          | 0                    | %100               |
| 77 | M57          | X         | -2.208                       | -2.208                     | 0                    | %100               |
| 78 | M57          | Z         | 0                            | 0                          | 0                    | %100               |
| 79 | M58          | X         | -2.208                       | -2.208                     | 0                    | %100               |
| 80 | M58          | Z         | 0                            | 0                          | 0                    | %100               |
| 81 | M59          | X         | -2.208                       | -2.208                     | 0                    | %100               |
| 82 | M59          | Z         | 0                            | 0                          | 0                    | %100               |
| 83 | MP3A         | X         | -13.123                      | -13.123                    | 0                    | %100               |
| 84 | MP3A         | Z         | 0                            | 0                          | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | -1.39                        | -1.39                      | 0                    | %100               |
| 2  | M5           | Z         | -803                         | -803                       | 0                    | %100               |
| 3  | M6           | X         | -106                         | -106                       | 0                    | %100               |
| 4  | M6           | Z         | -061                         | -061                       | 0                    | %100               |
| 5  | M7           | X         | -2.841                       | -2.841                     | 0                    | %100               |
| 6  | M7           | Z         | -1.64                        | -1.64                      | 0                    | %100               |
| 7  | M8           | X         | -1.39                        | -1.39                      | 0                    | %100               |
| 8  | M8           | Z         | -803                         | -803                       | 0                    | %100               |
| 9  | M9           | X         | -106                         | -106                       | 0                    | %100               |
| 10 | M9           | Z         | -061                         | -061                       | 0                    | %100               |
| 11 | FACE         | X         | -2.841                       | -2.841                     | 0                    | %100               |
| 12 | FACE         | Z         | -1.64                        | -1.64                      | 0                    | %100               |
| 13 | M11          | X         | -8.803                       | -8.803                     | 0                    | %100               |
| 14 | M11          | Z         | -5.083                       | -5.083                     | 0                    | %100               |
| 15 | M12          | X         | -674                         | -674                       | 0                    | %100               |
| 16 | M12          | Z         | -389                         | -389                       | 0                    | %100               |
| 17 | M13          | X         | -8.803                       | -8.803                     | 0                    | %100               |
| 18 | M13          | Z         | -5.083                       | -5.083                     | 0                    | %100               |
| 19 | M14          | X         | -674                         | -674                       | 0                    | %100               |
| 20 | M14          | Z         | -389                         | -389                       | 0                    | %100               |
| 21 | M15          | X         | -10.768                      | -10.768                    | 0                    | %100               |
| 22 | M15          | Z         | -6.217                       | -6.217                     | 0                    | %100               |
| 23 | M16          | X         | -5.186                       | -5.186                     | 0                    | %100               |
| 24 | M16          | Z         | -2.994                       | -2.994                     | 0                    | %100               |
| 25 | M17          | X         | -10.768                      | -10.768                    | 0                    | %100               |
| 26 | M17          | Z         | -6.217                       | -6.217                     | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 27 | M18          | X         | -5.186                | -5.186                     | 0                    | %100               |
| 28 | M18          | Z         | -2.994                | -2.994                     | 0                    | %100               |
| 29 | M19          | X         | -10.847               | -10.847                    | 0                    | %100               |
| 30 | M19          | Z         | -6.262                | -6.262                     | 0                    | %100               |
| 31 | M20          | X         | -10.768               | -10.768                    | 0                    | %100               |
| 32 | M20          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 33 | M21          | X         | -10.768               | -10.768                    | 0                    | %100               |
| 34 | M21          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 35 | M22          | X         | -6.815                | -6.815                     | 0                    | %100               |
| 36 | M22          | Z         | -3.935                | -3.935                     | 0                    | %100               |
| 37 | M23          | X         | -6.815                | -6.815                     | 0                    | %100               |
| 38 | M23          | Z         | -3.935                | -3.935                     | 0                    | %100               |
| 39 | M24          | X         | -7.458                | -7.458                     | 0                    | %100               |
| 40 | M24          | Z         | -4.306                | -4.306                     | 0                    | %100               |
| 41 | M25          | X         | -10.847               | -10.847                    | 0                    | %100               |
| 42 | M25          | Z         | -6.262                | -6.262                     | 0                    | %100               |
| 43 | M26          | X         | -10.768               | -10.768                    | 0                    | %100               |
| 44 | M26          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 45 | M27          | X         | -7.355                | -7.355                     | 0                    | %100               |
| 46 | M27          | Z         | -4.246                | -4.246                     | 0                    | %100               |
| 47 | M28          | X         | -10.768               | -10.768                    | 0                    | %100               |
| 48 | M28          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 49 | M29          | X         | -7.355                | -7.355                     | 0                    | %100               |
| 50 | M29          | Z         | -4.246                | -4.246                     | 0                    | %100               |
| 51 | M30          | X         | -10.847               | -10.847                    | 0                    | %100               |
| 52 | M30          | Z         | -6.262                | -6.262                     | 0                    | %100               |
| 53 | M31          | X         | -10.768               | -10.768                    | 0                    | %100               |
| 54 | M31          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 55 | M32          | X         | -10.768               | -10.768                    | 0                    | %100               |
| 56 | M32          | Z         | -6.217                | -6.217                     | 0                    | %100               |
| 57 | M33          | X         | -6.815                | -6.815                     | 0                    | %100               |
| 58 | M33          | Z         | -3.935                | -3.935                     | 0                    | %100               |
| 59 | M34          | X         | -6.815                | -6.815                     | 0                    | %100               |
| 60 | M34          | Z         | -3.935                | -3.935                     | 0                    | %100               |
| 61 | M35          | X         | -7.458                | -7.458                     | 0                    | %100               |
| 62 | M35          | Z         | -4.306                | -4.306                     | 0                    | %100               |
| 63 | M36          | X         | -10.847               | -10.847                    | 0                    | %100               |
| 64 | M36          | Z         | -6.262                | -6.262                     | 0                    | %100               |
| 65 | MP1A         | X         | -9.388                | -9.388                     | 0                    | %100               |
| 66 | MP1A         | Z         | -5.42                 | -5.42                      | 0                    | %100               |
| 67 | M46          | X         | -7.787                | -7.787                     | 0                    | %100               |
| 68 | M46          | Z         | -4.496                | -4.496                     | 0                    | %100               |
| 69 | MP2A         | X         | -9.388                | -9.388                     | 0                    | %100               |
| 70 | MP2A         | Z         | -5.42                 | -5.42                      | 0                    | %100               |
| 71 | MP4A         | X         | -9.388                | -9.388                     | 0                    | %100               |
| 72 | MP4A         | Z         | -5.42                 | -5.42                      | 0                    | %100               |
| 73 | MP3          | X         | -9.215                | -9.215                     | 0                    | %100               |
| 74 | MP3          | Z         | -5.32                 | -5.32                      | 0                    | %100               |
| 75 | M56          | X         | -1.434                | -1.434                     | 0                    | %100               |
| 76 | M56          | Z         | -.828                 | -.828                      | 0                    | %100               |
| 77 | M57          | X         | -1.434                | -1.434                     | 0                    | %100               |
| 78 | M57          | Z         | -.828                 | -.828                      | 0                    | %100               |
| 79 | M58          | X         | -1.434                | -1.434                     | 0                    | %100               |
| 80 | M58          | Z         | -.828                 | -.828                      | 0                    | %100               |
| 81 | M59          | X         | -1.434                | -1.434                     | 0                    | %100               |
| 82 | M59          | Z         | -.828                 | -.828                      | 0                    | %100               |
| 83 | MP3A         | X         | -11.365               | -11.365                    | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 84 | MP3A         | Z         | -6.562                       | -6.562                     | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | -0.794                       | -0.794                     | 0                    | %100               |
| 2  | M5           | Z         | -1.376                       | -1.376                     | 0                    | %100               |
| 3  | M6           | X         | -0.053                       | -0.053                     | 0                    | %100               |
| 4  | M6           | Z         | -0.092                       | -0.092                     | 0                    | %100               |
| 5  | M7           | X         | -4.921                       | -4.921                     | 0                    | %100               |
| 6  | M7           | Z         | -8.524                       | -8.524                     | 0                    | %100               |
| 7  | M8           | X         | -0.794                       | -0.794                     | 0                    | %100               |
| 8  | M8           | Z         | -1.376                       | -1.376                     | 0                    | %100               |
| 9  | M9           | X         | -0.053                       | -0.053                     | 0                    | %100               |
| 10 | M9           | Z         | -0.092                       | -0.092                     | 0                    | %100               |
| 11 | FACE         | X         | -4.921                       | -4.921                     | 0                    | %100               |
| 12 | FACE         | Z         | -8.524                       | -8.524                     | 0                    | %100               |
| 13 | M11          | X         | -5.031                       | -5.031                     | 0                    | %100               |
| 14 | M11          | Z         | -8.714                       | -8.714                     | 0                    | %100               |
| 15 | M12          | X         | -0.338                       | -0.338                     | 0                    | %100               |
| 16 | M12          | Z         | -0.585                       | -0.585                     | 0                    | %100               |
| 17 | M13          | X         | -5.031                       | -5.031                     | 0                    | %100               |
| 18 | M13          | Z         | -8.714                       | -8.714                     | 0                    | %100               |
| 19 | M14          | X         | -0.338                       | -0.338                     | 0                    | %100               |
| 20 | M14          | Z         | -0.585                       | -0.585                     | 0                    | %100               |
| 21 | M15          | X         | -2.675                       | -2.675                     | 0                    | %100               |
| 22 | M15          | Z         | -4.632                       | -4.632                     | 0                    | %100               |
| 23 | M16          | X         | -2.98                        | -2.98                      | 0                    | %100               |
| 24 | M16          | Z         | -5.162                       | -5.162                     | 0                    | %100               |
| 25 | M17          | X         | -2.675                       | -2.675                     | 0                    | %100               |
| 26 | M17          | Z         | -4.632                       | -4.632                     | 0                    | %100               |
| 27 | M18          | X         | -2.98                        | -2.98                      | 0                    | %100               |
| 28 | M18          | Z         | -5.162                       | -5.162                     | 0                    | %100               |
| 29 | M19          | X         | -2.811                       | -2.811                     | 0                    | %100               |
| 30 | M19          | Z         | -4.869                       | -4.869                     | 0                    | %100               |
| 31 | M20          | X         | -2.675                       | -2.675                     | 0                    | %100               |
| 32 | M20          | Z         | -4.632                       | -4.632                     | 0                    | %100               |
| 33 | M21          | X         | -2.675                       | -2.675                     | 0                    | %100               |
| 34 | M21          | Z         | -4.632                       | -4.632                     | 0                    | %100               |
| 35 | M22          | X         | -3.935                       | -3.935                     | 0                    | %100               |
| 36 | M22          | Z         | -6.815                       | -6.815                     | 0                    | %100               |
| 37 | M23          | X         | -3.935                       | -3.935                     | 0                    | %100               |
| 38 | M23          | Z         | -6.815                       | -6.815                     | 0                    | %100               |
| 39 | M24          | X         | -4.306                       | -4.306                     | 0                    | %100               |
| 40 | M24          | Z         | -7.458                       | -7.458                     | 0                    | %100               |
| 41 | M25          | X         | -2.811                       | -2.811                     | 0                    | %100               |
| 42 | M25          | Z         | -4.869                       | -4.869                     | 0                    | %100               |
| 43 | M26          | X         | -2.675                       | -2.675                     | 0                    | %100               |
| 44 | M26          | Z         | -4.632                       | -4.632                     | 0                    | %100               |
| 45 | M27          | X         | -4.232                       | -4.232                     | 0                    | %100               |
| 46 | M27          | Z         | -7.331                       | -7.331                     | 0                    | %100               |
| 47 | M28          | X         | -2.675                       | -2.675                     | 0                    | %100               |
| 48 | M28          | Z         | -4.632                       | -4.632                     | 0                    | %100               |
| 49 | M29          | X         | -4.232                       | -4.232                     | 0                    | %100               |
| 50 | M29          | Z         | -7.331                       | -7.331                     | 0                    | %100               |
| 51 | M30          | X         | -2.811                       | -2.811                     | 0                    | %100               |
| 52 | M30          | Z         | -4.869                       | -4.869                     | 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,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|------------------------|----------------------------|----------------------|--------------------|
| 22           | M15       | Z                      | -1.353                     | -1.353               | 0 %100             |
| 23           | M16       | X                      | 0                          | 0                    | 0 %100             |
| 24           | M16       | Z                      | -2.529                     | -2.529               | 0 %100             |
| 25           | M17       | X                      | 0                          | 0                    | 0 %100             |
| 26           | M17       | Z                      | -1.353                     | -1.353               | 0 %100             |
| 27           | M18       | X                      | 0                          | 0                    | 0 %100             |
| 28           | M18       | Z                      | -2.529                     | -2.529               | 0 %100             |
| 29           | M19       | X                      | 0                          | 0                    | 0 %100             |
| 30           | M19       | Z                      | -1.411                     | -1.411               | 0 %100             |
| 31           | M20       | X                      | 0                          | 0                    | 0 %100             |
| 32           | M20       | Z                      | -1.353                     | -1.353               | 0 %100             |
| 33           | M21       | X                      | 0                          | 0                    | 0 %100             |
| 34           | M21       | Z                      | -1.353                     | -1.353               | 0 %100             |
| 35           | M22       | X                      | 0                          | 0                    | 0 %100             |
| 36           | M22       | Z                      | -2.753                     | -2.753               | 0 %100             |
| 37           | M23       | X                      | 0                          | 0                    | 0 %100             |
| 38           | M23       | Z                      | -2.753                     | -2.753               | 0 %100             |
| 39           | M24       | X                      | 0                          | 0                    | 0 %100             |
| 40           | M24       | Z                      | -2.804                     | -2.804               | 0 %100             |
| 41           | M25       | X                      | 0                          | 0                    | 0 %100             |
| 42           | M25       | Z                      | -1.411                     | -1.411               | 0 %100             |
| 43           | M26       | X                      | 0                          | 0                    | 0 %100             |
| 44           | M26       | Z                      | -1.353                     | -1.353               | 0 %100             |
| 45           | M27       | X                      | 0                          | 0                    | 0 %100             |
| 46           | M27       | Z                      | -2.529                     | -2.529               | 0 %100             |
| 47           | M28       | X                      | 0                          | 0                    | 0 %100             |
| 48           | M28       | Z                      | -1.353                     | -1.353               | 0 %100             |
| 49           | M29       | X                      | 0                          | 0                    | 0 %100             |
| 50           | M29       | Z                      | -2.529                     | -2.529               | 0 %100             |
| 51           | M30       | X                      | 0                          | 0                    | 0 %100             |
| 52           | M30       | Z                      | -1.411                     | -1.411               | 0 %100             |
| 53           | M31       | X                      | 0                          | 0                    | 0 %100             |
| 54           | M31       | Z                      | -1.353                     | -1.353               | 0 %100             |
| 55           | M32       | X                      | 0                          | 0                    | 0 %100             |
| 56           | M32       | Z                      | -1.353                     | -1.353               | 0 %100             |
| 57           | M33       | X                      | 0                          | 0                    | 0 %100             |
| 58           | M33       | Z                      | -2.753                     | -2.753               | 0 %100             |
| 59           | M34       | X                      | 0                          | 0                    | 0 %100             |
| 60           | M34       | Z                      | -2.753                     | -2.753               | 0 %100             |
| 61           | M35       | X                      | 0                          | 0                    | 0 %100             |
| 62           | M35       | Z                      | -2.804                     | -2.804               | 0 %100             |
| 63           | M36       | X                      | 0                          | 0                    | 0 %100             |
| 64           | M36       | Z                      | -1.411                     | -1.411               | 0 %100             |
| 65           | MP1A      | X                      | 0                          | 0                    | 0 %100             |
| 66           | MP1A      | Z                      | -3.558                     | -3.558               | 0 %100             |
| 67           | M46       | X                      | 0                          | 0                    | 0 %100             |
| 68           | M46       | Z                      | -.393                      | -.393                | 0 %100             |
| 69           | MP2A      | X                      | 0                          | 0                    | 0 %100             |
| 70           | MP2A      | Z                      | -3.525                     | -3.525               | 0 %100             |
| 71           | MP4A      | X                      | 0                          | 0                    | 0 %100             |
| 72           | MP4A      | Z                      | -3.558                     | -3.558               | 0 %100             |
| 73           | MP3       | X                      | 0                          | 0                    | 0 %100             |
| 74           | MP3       | Z                      | -3.453                     | -3.453               | 0 %100             |
| 75           | M56       | X                      | 0                          | 0                    | 0 %100             |
| 76           | M56       | Z                      | 0                          | 0                    | 0 %100             |
| 77           | M57       | X                      | 0                          | 0                    | 0 %100             |
| 78           | M57       | 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,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 48 | M28          | Z         | -1.663                       | -1.663                     | 0                    | %100               |
| 49 | M29          | X         | 1.047                        | 1.047                      | 0                    | %100               |
| 50 | M29          | Z         | -1.813                       | -1.813                     | 0                    | %100               |
| 51 | M30          | X         | .982                         | .982                       | 0                    | %100               |
| 52 | M30          | Z         | -1.7                         | -1.7                       | 0                    | %100               |
| 53 | M31          | X         | .96                          | .96                        | 0                    | %100               |
| 54 | M31          | Z         | -1.663                       | -1.663                     | 0                    | %100               |
| 55 | M32          | X         | .96                          | .96                        | 0                    | %100               |
| 56 | M32          | Z         | -1.663                       | -1.663                     | 0                    | %100               |
| 57 | M33          | X         | 1.376                        | 1.376                      | 0                    | %100               |
| 58 | M33          | Z         | -2.384                       | -2.384                     | 0                    | %100               |
| 59 | M34          | X         | 1.376                        | 1.376                      | 0                    | %100               |
| 60 | M34          | Z         | -2.384                       | -2.384                     | 0                    | %100               |
| 61 | M35          | X         | 1.402                        | 1.402                      | 0                    | %100               |
| 62 | M35          | Z         | -2.428                       | -2.428                     | 0                    | %100               |
| 63 | M36          | X         | .982                         | .982                       | 0                    | %100               |
| 64 | M36          | Z         | -1.7                         | -1.7                       | 0                    | %100               |
| 65 | MP1A         | X         | 1.779                        | 1.779                      | 0                    | %100               |
| 66 | MP1A         | Z         | -3.082                       | -3.082                     | 0                    | %100               |
| 67 | M46          | X         | .388                         | .388                       | 0                    | %100               |
| 68 | M46          | Z         | -.673                        | -.673                      | 0                    | %100               |
| 69 | MP2A         | X         | 1.763                        | 1.763                      | 0                    | %100               |
| 70 | MP2A         | Z         | -3.053                       | -3.053                     | 0                    | %100               |
| 71 | MP4A         | X         | 1.779                        | 1.779                      | 0                    | %100               |
| 72 | MP4A         | Z         | -3.082                       | -3.082                     | 0                    | %100               |
| 73 | MP3          | X         | 1.726                        | 1.726                      | 0                    | %100               |
| 74 | MP3          | Z         | -2.99                        | -2.99                      | 0                    | %100               |
| 75 | M56          | X         | .18                          | .18                        | 0                    | %100               |
| 76 | M56          | Z         | -.312                        | -.312                      | 0                    | %100               |
| 77 | M57          | X         | .18                          | .18                        | 0                    | %100               |
| 78 | M57          | Z         | -.312                        | -.312                      | 0                    | %100               |
| 79 | M58          | X         | .18                          | .18                        | 0                    | %100               |
| 80 | M58          | Z         | -.312                        | -.312                      | 0                    | %100               |
| 81 | M59          | X         | .18                          | .18                        | 0                    | %100               |
| 82 | M59          | Z         | -.312                        | -.312                      | 0                    | %100               |
| 83 | MP3A         | X         | 1.962                        | 1.962                      | 0                    | %100               |
| 84 | MP3A         | Z         | -3.398                       | -3.398                     | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | .083                         | .083                       | 0                    | %100               |
| 2  | M5           | Z         | -.048                        | -.048                      | 0                    | %100               |
| 3  | M6           | X         | 1.086                        | 1.086                      | 0                    | %100               |
| 4  | M6           | Z         | -.627                        | -.627                      | 0                    | %100               |
| 5  | M7           | X         | .849                         | .849                       | 0                    | %100               |
| 6  | M7           | Z         | -.49                         | -.49                       | 0                    | %100               |
| 7  | M8           | X         | .083                         | .083                       | 0                    | %100               |
| 8  | M8           | Z         | -.048                        | -.048                      | 0                    | %100               |
| 9  | M9           | X         | 1.086                        | 1.086                      | 0                    | %100               |
| 10 | M9           | Z         | -.627                        | -.627                      | 0                    | %100               |
| 11 | FACE         | X         | .849                         | .849                       | 0                    | %100               |
| 12 | FACE         | Z         | -.49                         | -.49                       | 0                    | %100               |
| 13 | M11          | X         | .221                         | .221                       | 0                    | %100               |
| 14 | M11          | Z         | -.128                        | -.128                      | 0                    | %100               |
| 15 | M12          | X         | 2.89                         | 2.89                       | 0                    | %100               |
| 16 | M12          | Z         | -1.668                       | -1.668                     | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|----------------------|----------------------------|----------------------|--------------------|
| 17 | M13          | X         | .221                 | .221                       | 0                    | %100               |
| 18 | M13          | Z         | -.128                | -.128                      | 0                    | %100               |
| 19 | M14          | X         | 2.89                 | 2.89                       | 0                    | %100               |
| 20 | M14          | Z         | -1.668               | -1.668                     | 0                    | %100               |
| 21 | M15          | X         | 2.644                | 2.644                      | 0                    | %100               |
| 22 | M15          | Z         | -1.527               | -1.527                     | 0                    | %100               |
| 23 | M16          | X         | 2.583                | 2.583                      | 0                    | %100               |
| 24 | M16          | Z         | -1.492               | -1.492                     | 0                    | %100               |
| 25 | M17          | X         | 2.644                | 2.644                      | 0                    | %100               |
| 26 | M17          | Z         | -1.527               | -1.527                     | 0                    | %100               |
| 27 | M18          | X         | 2.583                | 2.583                      | 0                    | %100               |
| 28 | M18          | Z         | -1.492               | -1.492                     | 0                    | %100               |
| 29 | M19          | X         | 2.657                | 2.657                      | 0                    | %100               |
| 30 | M19          | Z         | -1.534               | -1.534                     | 0                    | %100               |
| 31 | M20          | X         | 2.644                | 2.644                      | 0                    | %100               |
| 32 | M20          | Z         | -1.527               | -1.527                     | 0                    | %100               |
| 33 | M21          | X         | 2.644                | 2.644                      | 0                    | %100               |
| 34 | M21          | Z         | -1.527               | -1.527                     | 0                    | %100               |
| 35 | M22          | X         | 2.384                | 2.384                      | 0                    | %100               |
| 36 | M22          | Z         | -1.376               | -1.376                     | 0                    | %100               |
| 37 | M23          | X         | 2.384                | 2.384                      | 0                    | %100               |
| 38 | M23          | Z         | -1.376               | -1.376                     | 0                    | %100               |
| 39 | M24          | X         | 2.428                | 2.428                      | 0                    | %100               |
| 40 | M24          | Z         | -1.402               | -1.402                     | 0                    | %100               |
| 41 | M25          | X         | 2.657                | 2.657                      | 0                    | %100               |
| 42 | M25          | Z         | -1.534               | -1.534                     | 0                    | %100               |
| 43 | M26          | X         | 2.644                | 2.644                      | 0                    | %100               |
| 44 | M26          | Z         | -1.527               | -1.527                     | 0                    | %100               |
| 45 | M27          | X         | 1.822                | 1.822                      | 0                    | %100               |
| 46 | M27          | Z         | -1.052               | -1.052                     | 0                    | %100               |
| 47 | M28          | X         | 2.644                | 2.644                      | 0                    | %100               |
| 48 | M28          | Z         | -1.527               | -1.527                     | 0                    | %100               |
| 49 | M29          | X         | 1.822                | 1.822                      | 0                    | %100               |
| 50 | M29          | Z         | -1.052               | -1.052                     | 0                    | %100               |
| 51 | M30          | X         | 2.657                | 2.657                      | 0                    | %100               |
| 52 | M30          | Z         | -1.534               | -1.534                     | 0                    | %100               |
| 53 | M31          | X         | 2.644                | 2.644                      | 0                    | %100               |
| 54 | M31          | Z         | -1.527               | -1.527                     | 0                    | %100               |
| 55 | M32          | X         | 2.644                | 2.644                      | 0                    | %100               |
| 56 | M32          | Z         | -1.527               | -1.527                     | 0                    | %100               |
| 57 | M33          | X         | 2.384                | 2.384                      | 0                    | %100               |
| 58 | M33          | Z         | -1.376               | -1.376                     | 0                    | %100               |
| 59 | M34          | X         | 2.384                | 2.384                      | 0                    | %100               |
| 60 | M34          | Z         | -1.376               | -1.376                     | 0                    | %100               |
| 61 | M35          | X         | 2.428                | 2.428                      | 0                    | %100               |
| 62 | M35          | Z         | -1.402               | -1.402                     | 0                    | %100               |
| 63 | M36          | X         | 2.657                | 2.657                      | 0                    | %100               |
| 64 | M36          | Z         | -1.534               | -1.534                     | 0                    | %100               |
| 65 | MP1A         | X         | 3.082                | 3.082                      | 0                    | %100               |
| 66 | MP1A         | Z         | -1.779               | -1.779                     | 0                    | %100               |
| 67 | M46          | X         | 1.932                | 1.932                      | 0                    | %100               |
| 68 | M46          | Z         | -1.116               | -1.116                     | 0                    | %100               |
| 69 | MP2A         | X         | 3.053                | 3.053                      | 0                    | %100               |
| 70 | MP2A         | Z         | -1.763               | -1.763                     | 0                    | %100               |
| 71 | MP4A         | X         | 3.082                | 3.082                      | 0                    | %100               |
| 72 | MP4A         | Z         | -1.779               | -1.779                     | 0                    | %100               |
| 73 | MP3          | X         | 2.99                 | 2.99                       | 0                    | %100               |





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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 43 | M26          | X         | 3.62                  | 3.62                       | 0                     | %100                |
| 44 | M26          | Z         | 0                     | 0                          | 0                     | %100                |
| 45 | M27          | X         | 2.548                 | 2.548                      | 0                     | %100                |
| 46 | M27          | Z         | 0                     | 0                          | 0                     | %100                |
| 47 | M28          | X         | 3.62                  | 3.62                       | 0                     | %100                |
| 48 | M28          | Z         | 0                     | 0                          | 0                     | %100                |
| 49 | M29          | X         | 2.548                 | 2.548                      | 0                     | %100                |
| 50 | M29          | Z         | 0                     | 0                          | 0                     | %100                |
| 51 | M30          | X         | 3.62                  | 3.62                       | 0                     | %100                |
| 52 | M30          | Z         | 0                     | 0                          | 0                     | %100                |
| 53 | M31          | X         | 3.62                  | 3.62                       | 0                     | %100                |
| 54 | M31          | Z         | 0                     | 0                          | 0                     | %100                |
| 55 | M32          | X         | 3.62                  | 3.62                       | 0                     | %100                |
| 56 | M32          | Z         | 0                     | 0                          | 0                     | %100                |
| 57 | M33          | X         | 2.753                 | 2.753                      | 0                     | %100                |
| 58 | M33          | Z         | 0                     | 0                          | 0                     | %100                |
| 59 | M34          | X         | 2.753                 | 2.753                      | 0                     | %100                |
| 60 | M34          | Z         | 0                     | 0                          | 0                     | %100                |
| 61 | M35          | X         | 2.804                 | 2.804                      | 0                     | %100                |
| 62 | M35          | Z         | 0                     | 0                          | 0                     | %100                |
| 63 | M36          | X         | 3.62                  | 3.62                       | 0                     | %100                |
| 64 | M36          | Z         | 0                     | 0                          | 0                     | %100                |
| 65 | MP1A         | X         | 3.558                 | 3.558                      | 0                     | %100                |
| 66 | MP1A         | Z         | 0                     | 0                          | 0                     | %100                |
| 67 | M46          | X         | 3.302                 | 3.302                      | 0                     | %100                |
| 68 | M46          | Z         | 0                     | 0                          | 0                     | %100                |
| 69 | MP2A         | X         | 3.525                 | 3.525                      | 0                     | %100                |
| 70 | MP2A         | Z         | 0                     | 0                          | 0                     | %100                |
| 71 | MP4A         | X         | 3.558                 | 3.558                      | 0                     | %100                |
| 72 | MP4A         | Z         | 0                     | 0                          | 0                     | %100                |
| 73 | MP3          | X         | 3.453                 | 3.453                      | 0                     | %100                |
| 74 | MP3          | Z         | 0                     | 0                          | 0                     | %100                |
| 75 | M56          | X         | 1.441                 | 1.441                      | 0                     | %100                |
| 76 | M56          | Z         | 0                     | 0                          | 0                     | %100                |
| 77 | M57          | X         | 1.441                 | 1.441                      | 0                     | %100                |
| 78 | M57          | Z         | 0                     | 0                          | 0                     | %100                |
| 79 | M58          | X         | 1.441                 | 1.441                      | 0                     | %100                |
| 80 | M58          | Z         | 0                     | 0                          | 0                     | %100                |
| 81 | M59          | X         | 1.441                 | 1.441                      | 0                     | %100                |
| 82 | M59          | Z         | 0                     | 0                          | 0                     | %100                |
| 83 | MP3A         | X         | 3.924                 | 3.924                      | 0                     | %100                |
| 84 | MP3A         | Z         | 0                     | 0                          | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 1  | M5           | X         | 1.086                 | 1.086                      | 0                     | %100                |
| 2  | M5           | Z         | .627                  | .627                       | 0                     | %100                |
| 3  | M6           | X         | .083                  | .083                       | 0                     | %100                |
| 4  | M6           | Z         | .048                  | .048                       | 0                     | %100                |
| 5  | M7           | X         | .849                  | .849                       | 0                     | %100                |
| 6  | M7           | Z         | .49                   | .49                        | 0                     | %100                |
| 7  | M8           | X         | 1.086                 | 1.086                      | 0                     | %100                |
| 8  | M8           | Z         | .627                  | .627                       | 0                     | %100                |
| 9  | M9           | X         | .083                  | .083                       | 0                     | %100                |
| 10 | M9           | Z         | .048                  | .048                       | 0                     | %100                |
| 11 | FACE         | X         | .849                  | .849                       | 0                     | %100                |



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

| Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 12           | FACE      | .49                          | .49                        | 0                    | %100               |
| 13           | M11       | 2.89                         | 2.89                       | 0                    | %100               |
| 14           | M11       | 1.668                        | 1.668                      | 0                    | %100               |
| 15           | M12       | .221                         | .221                       | 0                    | %100               |
| 16           | M12       | .128                         | .128                       | 0                    | %100               |
| 17           | M13       | 2.89                         | 2.89                       | 0                    | %100               |
| 18           | M13       | 1.668                        | 1.668                      | 0                    | %100               |
| 19           | M14       | .221                         | .221                       | 0                    | %100               |
| 20           | M14       | .128                         | .128                       | 0                    | %100               |
| 21           | M15       | 2.644                        | 2.644                      | 0                    | %100               |
| 22           | M15       | 1.527                        | 1.527                      | 0                    | %100               |
| 23           | M16       | 1.822                        | 1.822                      | 0                    | %100               |
| 24           | M16       | 1.052                        | 1.052                      | 0                    | %100               |
| 25           | M17       | 2.644                        | 2.644                      | 0                    | %100               |
| 26           | M17       | 1.527                        | 1.527                      | 0                    | %100               |
| 27           | M18       | 1.822                        | 1.822                      | 0                    | %100               |
| 28           | M18       | 1.052                        | 1.052                      | 0                    | %100               |
| 29           | M19       | 2.657                        | 2.657                      | 0                    | %100               |
| 30           | M19       | 1.534                        | 1.534                      | 0                    | %100               |
| 31           | M20       | 2.644                        | 2.644                      | 0                    | %100               |
| 32           | M20       | 1.527                        | 1.527                      | 0                    | %100               |
| 33           | M21       | 2.644                        | 2.644                      | 0                    | %100               |
| 34           | M21       | 1.527                        | 1.527                      | 0                    | %100               |
| 35           | M22       | 2.384                        | 2.384                      | 0                    | %100               |
| 36           | M22       | 1.376                        | 1.376                      | 0                    | %100               |
| 37           | M23       | 2.384                        | 2.384                      | 0                    | %100               |
| 38           | M23       | 1.376                        | 1.376                      | 0                    | %100               |
| 39           | M24       | 2.428                        | 2.428                      | 0                    | %100               |
| 40           | M24       | 1.402                        | 1.402                      | 0                    | %100               |
| 41           | M25       | 2.657                        | 2.657                      | 0                    | %100               |
| 42           | M25       | 1.534                        | 1.534                      | 0                    | %100               |
| 43           | M26       | 2.644                        | 2.644                      | 0                    | %100               |
| 44           | M26       | 1.527                        | 1.527                      | 0                    | %100               |
| 45           | M27       | 2.583                        | 2.583                      | 0                    | %100               |
| 46           | M27       | 1.492                        | 1.492                      | 0                    | %100               |
| 47           | M28       | 2.644                        | 2.644                      | 0                    | %100               |
| 48           | M28       | 1.527                        | 1.527                      | 0                    | %100               |
| 49           | M29       | 2.583                        | 2.583                      | 0                    | %100               |
| 50           | M29       | 1.492                        | 1.492                      | 0                    | %100               |
| 51           | M30       | 2.657                        | 2.657                      | 0                    | %100               |
| 52           | M30       | 1.534                        | 1.534                      | 0                    | %100               |
| 53           | M31       | 2.644                        | 2.644                      | 0                    | %100               |
| 54           | M31       | 1.527                        | 1.527                      | 0                    | %100               |
| 55           | M32       | 2.644                        | 2.644                      | 0                    | %100               |
| 56           | M32       | 1.527                        | 1.527                      | 0                    | %100               |
| 57           | M33       | 2.384                        | 2.384                      | 0                    | %100               |
| 58           | M33       | 1.376                        | 1.376                      | 0                    | %100               |
| 59           | M34       | 2.384                        | 2.384                      | 0                    | %100               |
| 60           | M34       | 1.376                        | 1.376                      | 0                    | %100               |
| 61           | M35       | 2.428                        | 2.428                      | 0                    | %100               |
| 62           | M35       | 1.402                        | 1.402                      | 0                    | %100               |
| 63           | M36       | 2.657                        | 2.657                      | 0                    | %100               |
| 64           | M36       | 1.534                        | 1.534                      | 0                    | %100               |
| 65           | MP1A      | 3.082                        | 3.082                      | 0                    | %100               |
| 66           | MP1A      | 1.779                        | 1.779                      | 0                    | %100               |
| 67           | M46       | 2.528                        | 2.528                      | 0                    | %100               |
| 68           | M46       | 1.46                         | 1.46                       | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 69 | MP2A         | X         | 3.053                 | 3.053                      | 0                     | %100                |
| 70 | MP2A         | Z         | 1.763                 | 1.763                      | 0                     | %100                |
| 71 | MP4A         | X         | 3.082                 | 3.082                      | 0                     | %100                |
| 72 | MP4A         | Z         | 1.779                 | 1.779                      | 0                     | %100                |
| 73 | MP3          | X         | 2.99                  | 2.99                       | 0                     | %100                |
| 74 | MP3          | Z         | 1.726                 | 1.726                      | 0                     | %100                |
| 75 | M56          | X         | .936                  | .936                       | 0                     | %100                |
| 76 | M56          | Z         | .54                   | .54                        | 0                     | %100                |
| 77 | M57          | X         | .936                  | .936                       | 0                     | %100                |
| 78 | M57          | Z         | .54                   | .54                        | 0                     | %100                |
| 79 | M58          | X         | .936                  | .936                       | 0                     | %100                |
| 80 | M58          | Z         | .54                   | .54                        | 0                     | %100                |
| 81 | M59          | X         | .936                  | .936                       | 0                     | %100                |
| 82 | M59          | Z         | .54                   | .54                        | 0                     | %100                |
| 83 | MP3A         | X         | 3.398                 | 3.398                      | 0                     | %100                |
| 84 | MP3A         | Z         | 1.962                 | 1.962                      | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 1  | M5           | X         | .621                  | .621                       | 0                     | %100                |
| 2  | M5           | Z         | 1.075                 | 1.075                      | 0                     | %100                |
| 3  | M6           | X         | .042                  | .042                       | 0                     | %100                |
| 4  | M6           | Z         | .072                  | .072                       | 0                     | %100                |
| 5  | M7           | X         | 1.471                 | 1.471                      | 0                     | %100                |
| 6  | M7           | Z         | 2.548                 | 2.548                      | 0                     | %100                |
| 7  | M8           | X         | .621                  | .621                       | 0                     | %100                |
| 8  | M8           | Z         | 1.075                 | 1.075                      | 0                     | %100                |
| 9  | M9           | X         | .042                  | .042                       | 0                     | %100                |
| 10 | M9           | Z         | .072                  | .072                       | 0                     | %100                |
| 11 | FACE         | X         | 1.471                 | 1.471                      | 0                     | %100                |
| 12 | FACE         | Z         | 2.548                 | 2.548                      | 0                     | %100                |
| 13 | M11          | X         | 1.651                 | 1.651                      | 0                     | %100                |
| 14 | M11          | Z         | 2.86                  | 2.86                       | 0                     | %100                |
| 15 | M12          | X         | .111                  | .111                       | 0                     | %100                |
| 16 | M12          | Z         | .192                  | .192                       | 0                     | %100                |
| 17 | M13          | X         | 1.651                 | 1.651                      | 0                     | %100                |
| 18 | M13          | Z         | 2.86                  | 2.86                       | 0                     | %100                |
| 19 | M14          | X         | .111                  | .111                       | 0                     | %100                |
| 20 | M14          | Z         | .192                  | .192                       | 0                     | %100                |
| 21 | M15          | X         | .96                   | .96                        | 0                     | %100                |
| 22 | M15          | Z         | 1.663                 | 1.663                      | 0                     | %100                |
| 23 | M16          | X         | 1.047                 | 1.047                      | 0                     | %100                |
| 24 | M16          | Z         | 1.813                 | 1.813                      | 0                     | %100                |
| 25 | M17          | X         | .96                   | .96                        | 0                     | %100                |
| 26 | M17          | Z         | 1.663                 | 1.663                      | 0                     | %100                |
| 27 | M18          | X         | 1.047                 | 1.047                      | 0                     | %100                |
| 28 | M18          | Z         | 1.813                 | 1.813                      | 0                     | %100                |
| 29 | M19          | X         | .982                  | .982                       | 0                     | %100                |
| 30 | M19          | Z         | 1.7                   | 1.7                        | 0                     | %100                |
| 31 | M20          | X         | .96                   | .96                        | 0                     | %100                |
| 32 | M20          | Z         | 1.663                 | 1.663                      | 0                     | %100                |
| 33 | M21          | X         | .96                   | .96                        | 0                     | %100                |
| 34 | M21          | Z         | 1.663                 | 1.663                      | 0                     | %100                |
| 35 | M22          | X         | 1.376                 | 1.376                      | 0                     | %100                |
| 36 | M22          | Z         | 2.384                 | 2.384                      | 0                     | %100                |
| 37 | M23          | X         | 1.376                 | 1.376                      | 0                     | %100                |





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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 38 | M23          | Z         | 2.384                 | 2.384                      | 0                    | %100               |
| 39 | M24          | X         | 1.402                 | 1.402                      | 0                    | %100               |
| 40 | M24          | Z         | 2.428                 | 2.428                      | 0                    | %100               |
| 41 | M25          | X         | .982                  | .982                       | 0                    | %100               |
| 42 | M25          | Z         | 1.7                   | 1.7                        | 0                    | %100               |
| 43 | M26          | X         | .96                   | .96                        | 0                    | %100               |
| 44 | M26          | Z         | 1.663                 | 1.663                      | 0                    | %100               |
| 45 | M27          | X         | 1.487                 | 1.487                      | 0                    | %100               |
| 46 | M27          | Z         | 2.575                 | 2.575                      | 0                    | %100               |
| 47 | M28          | X         | .96                   | .96                        | 0                    | %100               |
| 48 | M28          | Z         | 1.663                 | 1.663                      | 0                    | %100               |
| 49 | M29          | X         | 1.487                 | 1.487                      | 0                    | %100               |
| 50 | M29          | Z         | 2.575                 | 2.575                      | 0                    | %100               |
| 51 | M30          | X         | .982                  | .982                       | 0                    | %100               |
| 52 | M30          | Z         | 1.7                   | 1.7                        | 0                    | %100               |
| 53 | M31          | X         | .96                   | .96                        | 0                    | %100               |
| 54 | M31          | Z         | 1.663                 | 1.663                      | 0                    | %100               |
| 55 | M32          | X         | .96                   | .96                        | 0                    | %100               |
| 56 | M32          | Z         | 1.663                 | 1.663                      | 0                    | %100               |
| 57 | M33          | X         | 1.376                 | 1.376                      | 0                    | %100               |
| 58 | M33          | Z         | 2.384                 | 2.384                      | 0                    | %100               |
| 59 | M34          | X         | 1.376                 | 1.376                      | 0                    | %100               |
| 60 | M34          | Z         | 2.384                 | 2.384                      | 0                    | %100               |
| 61 | M35          | X         | 1.402                 | 1.402                      | 0                    | %100               |
| 62 | M35          | Z         | 2.428                 | 2.428                      | 0                    | %100               |
| 63 | M36          | X         | .982                  | .982                       | 0                    | %100               |
| 64 | M36          | Z         | 1.7                   | 1.7                        | 0                    | %100               |
| 65 | MP1A         | X         | 1.779                 | 1.779                      | 0                    | %100               |
| 66 | MP1A         | Z         | 3.082                 | 3.082                      | 0                    | %100               |
| 67 | M46          | X         | .732                  | .732                       | 0                    | %100               |
| 68 | M46          | Z         | 1.268                 | 1.268                      | 0                    | %100               |
| 69 | MP2A         | X         | 1.763                 | 1.763                      | 0                    | %100               |
| 70 | MP2A         | Z         | 3.053                 | 3.053                      | 0                    | %100               |
| 71 | MP4A         | X         | 1.779                 | 1.779                      | 0                    | %100               |
| 72 | MP4A         | Z         | 3.082                 | 3.082                      | 0                    | %100               |
| 73 | MP3          | X         | 1.726                 | 1.726                      | 0                    | %100               |
| 74 | MP3          | Z         | 2.99                  | 2.99                       | 0                    | %100               |
| 75 | M56          | X         | .18                   | .18                        | 0                    | %100               |
| 76 | M56          | Z         | .312                  | .312                       | 0                    | %100               |
| 77 | M57          | X         | .18                   | .18                        | 0                    | %100               |
| 78 | M57          | Z         | .312                  | .312                       | 0                    | %100               |
| 79 | M58          | X         | .18                   | .18                        | 0                    | %100               |
| 80 | M58          | Z         | .312                  | .312                       | 0                    | %100               |
| 81 | M59          | X         | .18                   | .18                        | 0                    | %100               |
| 82 | M59          | Z         | .312                  | .312                       | 0                    | %100               |
| 83 | MP3A         | X         | 1.962                 | 1.962                      | 0                    | %100               |
| 84 | MP3A         | Z         | 3.398                 | 3.398                      | 0                    | %100               |

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

|   | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|---|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 1 | M5           | X         | 0                     | 0                          | 0                    | %100               |
| 2 | M5           | Z         | .656                  | .656                       | 0                    | %100               |
| 3 | M6           | X         | 0                     | 0                          | 0                    | %100               |
| 4 | M6           | Z         | .656                  | .656                       | 0                    | %100               |
| 5 | M7           | X         | 0                     | 0                          | 0                    | %100               |
| 6 | M7           | Z         | 3.924                 | 3.924                      | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|----------------------|----------------------------|----------------------|--------------------|
| 7  | M8           | X         | 0                    | 0                          | 0                    | %100               |
| 8  | M8           | Z         | .656                 | .656                       | 0                    | %100               |
| 9  | M9           | X         | 0                    | 0                          | 0                    | %100               |
| 10 | M9           | Z         | .656                 | .656                       | 0                    | %100               |
| 11 | FACE         | X         | 0                    | 0                          | 0                    | %100               |
| 12 | FACE         | Z         | 3.924                | 3.924                      | 0                    | %100               |
| 13 | M11          | X         | 0                    | 0                          | 0                    | %100               |
| 14 | M11          | Z         | 1.745                | 1.745                      | 0                    | %100               |
| 15 | M12          | X         | 0                    | 0                          | 0                    | %100               |
| 16 | M12          | Z         | 1.745                | 1.745                      | 0                    | %100               |
| 17 | M13          | X         | 0                    | 0                          | 0                    | %100               |
| 18 | M13          | Z         | 1.745                | 1.745                      | 0                    | %100               |
| 19 | M14          | X         | 0                    | 0                          | 0                    | %100               |
| 20 | M14          | Z         | 1.745                | 1.745                      | 0                    | %100               |
| 21 | M15          | X         | 0                    | 0                          | 0                    | %100               |
| 22 | M15          | Z         | 1.353                | 1.353                      | 0                    | %100               |
| 23 | M16          | X         | 0                    | 0                          | 0                    | %100               |
| 24 | M16          | Z         | 2.529                | 2.529                      | 0                    | %100               |
| 25 | M17          | X         | 0                    | 0                          | 0                    | %100               |
| 26 | M17          | Z         | 1.353                | 1.353                      | 0                    | %100               |
| 27 | M18          | X         | 0                    | 0                          | 0                    | %100               |
| 28 | M18          | Z         | 2.529                | 2.529                      | 0                    | %100               |
| 29 | M19          | X         | 0                    | 0                          | 0                    | %100               |
| 30 | M19          | Z         | 1.411                | 1.411                      | 0                    | %100               |
| 31 | M20          | X         | 0                    | 0                          | 0                    | %100               |
| 32 | M20          | Z         | 1.353                | 1.353                      | 0                    | %100               |
| 33 | M21          | X         | 0                    | 0                          | 0                    | %100               |
| 34 | M21          | Z         | 1.353                | 1.353                      | 0                    | %100               |
| 35 | M22          | X         | 0                    | 0                          | 0                    | %100               |
| 36 | M22          | Z         | 2.753                | 2.753                      | 0                    | %100               |
| 37 | M23          | X         | 0                    | 0                          | 0                    | %100               |
| 38 | M23          | Z         | 2.753                | 2.753                      | 0                    | %100               |
| 39 | M24          | X         | 0                    | 0                          | 0                    | %100               |
| 40 | M24          | Z         | 2.804                | 2.804                      | 0                    | %100               |
| 41 | M25          | X         | 0                    | 0                          | 0                    | %100               |
| 42 | M25          | Z         | 1.411                | 1.411                      | 0                    | %100               |
| 43 | M26          | X         | 0                    | 0                          | 0                    | %100               |
| 44 | M26          | Z         | 1.353                | 1.353                      | 0                    | %100               |
| 45 | M27          | X         | 0                    | 0                          | 0                    | %100               |
| 46 | M27          | Z         | 2.529                | 2.529                      | 0                    | %100               |
| 47 | M28          | X         | 0                    | 0                          | 0                    | %100               |
| 48 | M28          | Z         | 1.353                | 1.353                      | 0                    | %100               |
| 49 | M29          | X         | 0                    | 0                          | 0                    | %100               |
| 50 | M29          | Z         | 2.529                | 2.529                      | 0                    | %100               |
| 51 | M30          | X         | 0                    | 0                          | 0                    | %100               |
| 52 | M30          | Z         | 1.411                | 1.411                      | 0                    | %100               |
| 53 | M31          | X         | 0                    | 0                          | 0                    | %100               |
| 54 | M31          | Z         | 1.353                | 1.353                      | 0                    | %100               |
| 55 | M32          | X         | 0                    | 0                          | 0                    | %100               |
| 56 | M32          | Z         | 1.353                | 1.353                      | 0                    | %100               |
| 57 | M33          | X         | 0                    | 0                          | 0                    | %100               |
| 58 | M33          | Z         | 2.753                | 2.753                      | 0                    | %100               |
| 59 | M34          | X         | 0                    | 0                          | 0                    | %100               |
| 60 | M34          | Z         | 2.753                | 2.753                      | 0                    | %100               |
| 61 | M35          | X         | 0                    | 0                          | 0                    | %100               |
| 62 | M35          | Z         | 2.804                | 2.804                      | 0                    | %100               |
| 63 | M36          | X         | 0                    | 0                          | 0                    | %100               |



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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft.F.ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 64 | M36          | Z         | 1.411                 | 1.411                      | 0                    | %100               |
| 65 | MP1A         | X         | 0                     | 0                          | 0                    | %100               |
| 66 | MP1A         | Z         | 3.558                 | 3.558                      | 0                    | %100               |
| 67 | M46          | X         | 0                     | 0                          | 0                    | %100               |
| 68 | M46          | Z         | .393                  | .393                       | 0                    | %100               |
| 69 | MP2A         | X         | 0                     | 0                          | 0                    | %100               |
| 70 | MP2A         | Z         | 3.525                 | 3.525                      | 0                    | %100               |
| 71 | MP4A         | X         | 0                     | 0                          | 0                    | %100               |
| 72 | MP4A         | Z         | 3.558                 | 3.558                      | 0                    | %100               |
| 73 | MP3          | X         | 0                     | 0                          | 0                    | %100               |
| 74 | MP3          | Z         | 3.453                 | 3.453                      | 0                    | %100               |
| 75 | M56          | X         | 0                     | 0                          | 0                    | %100               |
| 76 | M56          | Z         | 0                     | 0                          | 0                    | %100               |
| 77 | M57          | X         | 0                     | 0                          | 0                    | %100               |
| 78 | M57          | Z         | 0                     | 0                          | 0                    | %100               |
| 79 | M58          | X         | 0                     | 0                          | 0                    | %100               |
| 80 | M58          | Z         | 0                     | 0                          | 0                    | %100               |
| 81 | M59          | X         | 0                     | 0                          | 0                    | %100               |
| 82 | M59          | Z         | 0                     | 0                          | 0                    | %100               |
| 83 | MP3A         | X         | 0                     | 0                          | 0                    | %100               |
| 84 | MP3A         | Z         | 3.924                 | 3.924                      | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft.F.ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | -.042                 | -.042                      | 0                    | %100               |
| 2  | M5           | Z         | .072                  | .072                       | 0                    | %100               |
| 3  | M6           | X         | -.621                 | -.621                      | 0                    | %100               |
| 4  | M6           | Z         | 1.075                 | 1.075                      | 0                    | %100               |
| 5  | M7           | X         | -1.471                | -1.471                     | 0                    | %100               |
| 6  | M7           | Z         | 2.548                 | 2.548                      | 0                    | %100               |
| 7  | M8           | X         | -.042                 | -.042                      | 0                    | %100               |
| 8  | M8           | Z         | .072                  | .072                       | 0                    | %100               |
| 9  | M9           | X         | -.621                 | -.621                      | 0                    | %100               |
| 10 | M9           | Z         | 1.075                 | 1.075                      | 0                    | %100               |
| 11 | FACE         | X         | -1.471                | -1.471                     | 0                    | %100               |
| 12 | FACE         | Z         | 2.548                 | 2.548                      | 0                    | %100               |
| 13 | M11          | X         | -.111                 | -.111                      | 0                    | %100               |
| 14 | M11          | Z         | .192                  | .192                       | 0                    | %100               |
| 15 | M12          | X         | -1.651                | -1.651                     | 0                    | %100               |
| 16 | M12          | Z         | 2.86                  | 2.86                       | 0                    | %100               |
| 17 | M13          | X         | -.111                 | -.111                      | 0                    | %100               |
| 18 | M13          | Z         | .192                  | .192                       | 0                    | %100               |
| 19 | M14          | X         | -1.651                | -1.651                     | 0                    | %100               |
| 20 | M14          | Z         | 2.86                  | 2.86                       | 0                    | %100               |
| 21 | M15          | X         | -.96                  | -.96                       | 0                    | %100               |
| 22 | M15          | Z         | 1.663                 | 1.663                      | 0                    | %100               |
| 23 | M16          | X         | -1.487                | -1.487                     | 0                    | %100               |
| 24 | M16          | Z         | 2.575                 | 2.575                      | 0                    | %100               |
| 25 | M17          | X         | -.96                  | -.96                       | 0                    | %100               |
| 26 | M17          | Z         | 1.663                 | 1.663                      | 0                    | %100               |
| 27 | M18          | X         | -1.487                | -1.487                     | 0                    | %100               |
| 28 | M18          | Z         | 2.575                 | 2.575                      | 0                    | %100               |
| 29 | M19          | X         | -.982                 | -.982                      | 0                    | %100               |
| 30 | M19          | Z         | 1.7                   | 1.7                        | 0                    | %100               |
| 31 | M20          | X         | -.96                  | -.96                       | 0                    | %100               |
| 32 | M20          | Z         | 1.663                 | 1.663                      | 0                    | %100               |





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

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 2  | M5           | Z         | .048                         | .048                       | 0                    | %100               |
| 3  | M6           | X         | -1.086                       | -1.086                     | 0                    | %100               |
| 4  | M6           | Z         | .627                         | .627                       | 0                    | %100               |
| 5  | M7           | X         | -.849                        | -.849                      | 0                    | %100               |
| 6  | M7           | Z         | .49                          | .49                        | 0                    | %100               |
| 7  | M8           | X         | -.083                        | -.083                      | 0                    | %100               |
| 8  | M8           | Z         | .048                         | .048                       | 0                    | %100               |
| 9  | M9           | X         | -1.086                       | -1.086                     | 0                    | %100               |
| 10 | M9           | Z         | .627                         | .627                       | 0                    | %100               |
| 11 | FACE         | X         | -.849                        | -.849                      | 0                    | %100               |
| 12 | FACE         | Z         | .49                          | .49                        | 0                    | %100               |
| 13 | M11          | X         | -.221                        | -.221                      | 0                    | %100               |
| 14 | M11          | Z         | .128                         | .128                       | 0                    | %100               |
| 15 | M12          | X         | -2.89                        | -2.89                      | 0                    | %100               |
| 16 | M12          | Z         | 1.668                        | 1.668                      | 0                    | %100               |
| 17 | M13          | X         | -.221                        | -.221                      | 0                    | %100               |
| 18 | M13          | Z         | .128                         | .128                       | 0                    | %100               |
| 19 | M14          | X         | -2.89                        | -2.89                      | 0                    | %100               |
| 20 | M14          | Z         | 1.668                        | 1.668                      | 0                    | %100               |
| 21 | M15          | X         | -2.644                       | -2.644                     | 0                    | %100               |
| 22 | M15          | Z         | 1.527                        | 1.527                      | 0                    | %100               |
| 23 | M16          | X         | -2.583                       | -2.583                     | 0                    | %100               |
| 24 | M16          | Z         | 1.492                        | 1.492                      | 0                    | %100               |
| 25 | M17          | X         | -2.644                       | -2.644                     | 0                    | %100               |
| 26 | M17          | Z         | 1.527                        | 1.527                      | 0                    | %100               |
| 27 | M18          | X         | -2.583                       | -2.583                     | 0                    | %100               |
| 28 | M18          | Z         | 1.492                        | 1.492                      | 0                    | %100               |
| 29 | M19          | X         | -2.657                       | -2.657                     | 0                    | %100               |
| 30 | M19          | Z         | 1.534                        | 1.534                      | 0                    | %100               |
| 31 | M20          | X         | -2.644                       | -2.644                     | 0                    | %100               |
| 32 | M20          | Z         | 1.527                        | 1.527                      | 0                    | %100               |
| 33 | M21          | X         | -2.644                       | -2.644                     | 0                    | %100               |
| 34 | M21          | Z         | 1.527                        | 1.527                      | 0                    | %100               |
| 35 | M22          | X         | -2.384                       | -2.384                     | 0                    | %100               |
| 36 | M22          | Z         | 1.376                        | 1.376                      | 0                    | %100               |
| 37 | M23          | X         | -2.384                       | -2.384                     | 0                    | %100               |
| 38 | M23          | Z         | 1.376                        | 1.376                      | 0                    | %100               |
| 39 | M24          | X         | -2.428                       | -2.428                     | 0                    | %100               |
| 40 | M24          | Z         | 1.402                        | 1.402                      | 0                    | %100               |
| 41 | M25          | X         | -2.657                       | -2.657                     | 0                    | %100               |
| 42 | M25          | Z         | 1.534                        | 1.534                      | 0                    | %100               |
| 43 | M26          | X         | -2.644                       | -2.644                     | 0                    | %100               |
| 44 | M26          | Z         | 1.527                        | 1.527                      | 0                    | %100               |
| 45 | M27          | X         | -1.822                       | -1.822                     | 0                    | %100               |
| 46 | M27          | Z         | 1.052                        | 1.052                      | 0                    | %100               |
| 47 | M28          | X         | -2.644                       | -2.644                     | 0                    | %100               |
| 48 | M28          | Z         | 1.527                        | 1.527                      | 0                    | %100               |
| 49 | M29          | X         | -1.822                       | -1.822                     | 0                    | %100               |
| 50 | M29          | Z         | 1.052                        | 1.052                      | 0                    | %100               |
| 51 | M30          | X         | -2.657                       | -2.657                     | 0                    | %100               |
| 52 | M30          | Z         | 1.534                        | 1.534                      | 0                    | %100               |
| 53 | M31          | X         | -2.644                       | -2.644                     | 0                    | %100               |
| 54 | M31          | Z         | 1.527                        | 1.527                      | 0                    | %100               |
| 55 | M32          | X         | -2.644                       | -2.644                     | 0                    | %100               |
| 56 | M32          | Z         | 1.527                        | 1.527                      | 0                    | %100               |
| 57 | M33          | X         | -2.384                       | -2.384                     | 0                    | %100               |
| 58 | M33          | Z         | 1.376                        | 1.376                      | 0                    | %100               |





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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 28 | M18          | Z         | 0                            | 0                          | 0                    | %100               |
| 29 | M19          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 30 | M19          | Z         | 0                            | 0                          | 0                    | %100               |
| 31 | M20          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 32 | M20          | Z         | 0                            | 0                          | 0                    | %100               |
| 33 | M21          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 34 | M21          | Z         | 0                            | 0                          | 0                    | %100               |
| 35 | M22          | X         | -2.753                       | -2.753                     | 0                    | %100               |
| 36 | M22          | Z         | 0                            | 0                          | 0                    | %100               |
| 37 | M23          | X         | -2.753                       | -2.753                     | 0                    | %100               |
| 38 | M23          | Z         | 0                            | 0                          | 0                    | %100               |
| 39 | M24          | X         | -2.804                       | -2.804                     | 0                    | %100               |
| 40 | M24          | Z         | 0                            | 0                          | 0                    | %100               |
| 41 | M25          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 42 | M25          | Z         | 0                            | 0                          | 0                    | %100               |
| 43 | M26          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 44 | M26          | Z         | 0                            | 0                          | 0                    | %100               |
| 45 | M27          | X         | -2.548                       | -2.548                     | 0                    | %100               |
| 46 | M27          | Z         | 0                            | 0                          | 0                    | %100               |
| 47 | M28          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 48 | M28          | Z         | 0                            | 0                          | 0                    | %100               |
| 49 | M29          | X         | -2.548                       | -2.548                     | 0                    | %100               |
| 50 | M29          | Z         | 0                            | 0                          | 0                    | %100               |
| 51 | M30          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 52 | M30          | Z         | 0                            | 0                          | 0                    | %100               |
| 53 | M31          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 54 | M31          | Z         | 0                            | 0                          | 0                    | %100               |
| 55 | M32          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 56 | M32          | Z         | 0                            | 0                          | 0                    | %100               |
| 57 | M33          | X         | -2.753                       | -2.753                     | 0                    | %100               |
| 58 | M33          | Z         | 0                            | 0                          | 0                    | %100               |
| 59 | M34          | X         | -2.753                       | -2.753                     | 0                    | %100               |
| 60 | M34          | Z         | 0                            | 0                          | 0                    | %100               |
| 61 | M35          | X         | -2.804                       | -2.804                     | 0                    | %100               |
| 62 | M35          | Z         | 0                            | 0                          | 0                    | %100               |
| 63 | M36          | X         | -3.62                        | -3.62                      | 0                    | %100               |
| 64 | M36          | Z         | 0                            | 0                          | 0                    | %100               |
| 65 | MP1A         | X         | -3.558                       | -3.558                     | 0                    | %100               |
| 66 | MP1A         | Z         | 0                            | 0                          | 0                    | %100               |
| 67 | M46          | X         | -3.302                       | -3.302                     | 0                    | %100               |
| 68 | M46          | Z         | 0                            | 0                          | 0                    | %100               |
| 69 | MP2A         | X         | -3.525                       | -3.525                     | 0                    | %100               |
| 70 | MP2A         | Z         | 0                            | 0                          | 0                    | %100               |
| 71 | MP4A         | X         | -3.558                       | -3.558                     | 0                    | %100               |
| 72 | MP4A         | Z         | 0                            | 0                          | 0                    | %100               |
| 73 | MP3          | X         | -3.453                       | -3.453                     | 0                    | %100               |
| 74 | MP3          | Z         | 0                            | 0                          | 0                    | %100               |
| 75 | M56          | X         | -1.441                       | -1.441                     | 0                    | %100               |
| 76 | M56          | Z         | 0                            | 0                          | 0                    | %100               |
| 77 | M57          | X         | -1.441                       | -1.441                     | 0                    | %100               |
| 78 | M57          | Z         | 0                            | 0                          | 0                    | %100               |
| 79 | M58          | X         | -1.441                       | -1.441                     | 0                    | %100               |
| 80 | M58          | Z         | 0                            | 0                          | 0                    | %100               |
| 81 | M59          | X         | -1.441                       | -1.441                     | 0                    | %100               |
| 82 | M59          | Z         | 0                            | 0                          | 0                    | %100               |
| 83 | MP3A         | X         | -3.924                       | -3.924                     | 0                    | %100               |
| 84 | MP3A         | Z         | 0                            | 0                          | 0                    | %100               |







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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 58 | M33          | Z         | -1.376                | -1.376                     | 0                    | %100               |
| 59 | M34          | X         | -2.384                | -2.384                     | 0                    | %100               |
| 60 | M34          | Z         | -1.376                | -1.376                     | 0                    | %100               |
| 61 | M35          | X         | -2.428                | -2.428                     | 0                    | %100               |
| 62 | M35          | Z         | -1.402                | -1.402                     | 0                    | %100               |
| 63 | M36          | X         | -2.657                | -2.657                     | 0                    | %100               |
| 64 | M36          | Z         | -1.534                | -1.534                     | 0                    | %100               |
| 65 | MP1A         | X         | -3.082                | -3.082                     | 0                    | %100               |
| 66 | MP1A         | Z         | -1.779                | -1.779                     | 0                    | %100               |
| 67 | M46          | X         | -2.528                | -2.528                     | 0                    | %100               |
| 68 | M46          | Z         | -1.46                 | -1.46                      | 0                    | %100               |
| 69 | MP2A         | X         | -3.053                | -3.053                     | 0                    | %100               |
| 70 | MP2A         | Z         | -1.763                | -1.763                     | 0                    | %100               |
| 71 | MP4A         | X         | -3.082                | -3.082                     | 0                    | %100               |
| 72 | MP4A         | Z         | -1.779                | -1.779                     | 0                    | %100               |
| 73 | MP3          | X         | -2.99                 | -2.99                      | 0                    | %100               |
| 74 | MP3          | Z         | -1.726                | -1.726                     | 0                    | %100               |
| 75 | M56          | X         | -.936                 | -.936                      | 0                    | %100               |
| 76 | M56          | Z         | -.54                  | -.54                       | 0                    | %100               |
| 77 | M57          | X         | -.936                 | -.936                      | 0                    | %100               |
| 78 | M57          | Z         | -.54                  | -.54                       | 0                    | %100               |
| 79 | M58          | X         | -.936                 | -.936                      | 0                    | %100               |
| 80 | M58          | Z         | -.54                  | -.54                       | 0                    | %100               |
| 81 | M59          | X         | -.936                 | -.936                      | 0                    | %100               |
| 82 | M59          | Z         | -.54                  | -.54                       | 0                    | %100               |
| 83 | MP3A         | X         | -3.398                | -3.398                     | 0                    | %100               |
| 84 | MP3A         | Z         | -1.962                | -1.962                     | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | -.621                 | -.621                      | 0                    | %100               |
| 2  | M5           | Z         | -1.075                | -1.075                     | 0                    | %100               |
| 3  | M6           | X         | -.042                 | -.042                      | 0                    | %100               |
| 4  | M6           | Z         | -.072                 | -.072                      | 0                    | %100               |
| 5  | M7           | X         | -1.471                | -1.471                     | 0                    | %100               |
| 6  | M7           | Z         | -2.548                | -2.548                     | 0                    | %100               |
| 7  | M8           | X         | -.621                 | -.621                      | 0                    | %100               |
| 8  | M8           | Z         | -1.075                | -1.075                     | 0                    | %100               |
| 9  | M9           | X         | -.042                 | -.042                      | 0                    | %100               |
| 10 | M9           | Z         | -.072                 | -.072                      | 0                    | %100               |
| 11 | FACE         | X         | -1.471                | -1.471                     | 0                    | %100               |
| 12 | FACE         | Z         | -2.548                | -2.548                     | 0                    | %100               |
| 13 | M11          | X         | -1.651                | -1.651                     | 0                    | %100               |
| 14 | M11          | Z         | -2.86                 | -2.86                      | 0                    | %100               |
| 15 | M12          | X         | -.111                 | -.111                      | 0                    | %100               |
| 16 | M12          | Z         | -.192                 | -.192                      | 0                    | %100               |
| 17 | M13          | X         | -1.651                | -1.651                     | 0                    | %100               |
| 18 | M13          | Z         | -2.86                 | -2.86                      | 0                    | %100               |
| 19 | M14          | X         | -.111                 | -.111                      | 0                    | %100               |
| 20 | M14          | Z         | -.192                 | -.192                      | 0                    | %100               |
| 21 | M15          | X         | -.96                  | -.96                       | 0                    | %100               |
| 22 | M15          | Z         | -1.663                | -1.663                     | 0                    | %100               |
| 23 | M16          | X         | -1.047                | -1.047                     | 0                    | %100               |
| 24 | M16          | Z         | -1.813                | -1.813                     | 0                    | %100               |
| 25 | M17          | X         | -.96                  | -.96                       | 0                    | %100               |
| 26 | M17          | Z         | -1.663                | -1.663                     | 0                    | %100               |



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

| Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 27           | M18       | X                            | -1.047                     | -1.047               | 0 %100             |
| 28           | M18       | Z                            | -1.813                     | -1.813               | 0 %100             |
| 29           | M19       | X                            | -.982                      | -.982                | 0 %100             |
| 30           | M19       | Z                            | -1.7                       | -1.7                 | 0 %100             |
| 31           | M20       | X                            | -.96                       | -.96                 | 0 %100             |
| 32           | M20       | Z                            | -1.663                     | -1.663               | 0 %100             |
| 33           | M21       | X                            | -.96                       | -.96                 | 0 %100             |
| 34           | M21       | Z                            | -1.663                     | -1.663               | 0 %100             |
| 35           | M22       | X                            | -1.376                     | -1.376               | 0 %100             |
| 36           | M22       | Z                            | -2.384                     | -2.384               | 0 %100             |
| 37           | M23       | X                            | -1.376                     | -1.376               | 0 %100             |
| 38           | M23       | Z                            | -2.384                     | -2.384               | 0 %100             |
| 39           | M24       | X                            | -1.402                     | -1.402               | 0 %100             |
| 40           | M24       | Z                            | -2.428                     | -2.428               | 0 %100             |
| 41           | M25       | X                            | -.982                      | -.982                | 0 %100             |
| 42           | M25       | Z                            | -1.7                       | -1.7                 | 0 %100             |
| 43           | M26       | X                            | -.96                       | -.96                 | 0 %100             |
| 44           | M26       | Z                            | -1.663                     | -1.663               | 0 %100             |
| 45           | M27       | X                            | -1.487                     | -1.487               | 0 %100             |
| 46           | M27       | Z                            | -2.575                     | -2.575               | 0 %100             |
| 47           | M28       | X                            | -.96                       | -.96                 | 0 %100             |
| 48           | M28       | Z                            | -1.663                     | -1.663               | 0 %100             |
| 49           | M29       | X                            | -1.487                     | -1.487               | 0 %100             |
| 50           | M29       | Z                            | -2.575                     | -2.575               | 0 %100             |
| 51           | M30       | X                            | -.982                      | -.982                | 0 %100             |
| 52           | M30       | Z                            | -1.7                       | -1.7                 | 0 %100             |
| 53           | M31       | X                            | -.96                       | -.96                 | 0 %100             |
| 54           | M31       | Z                            | -1.663                     | -1.663               | 0 %100             |
| 55           | M32       | X                            | -.96                       | -.96                 | 0 %100             |
| 56           | M32       | Z                            | -1.663                     | -1.663               | 0 %100             |
| 57           | M33       | X                            | -1.376                     | -1.376               | 0 %100             |
| 58           | M33       | Z                            | -2.384                     | -2.384               | 0 %100             |
| 59           | M34       | X                            | -1.376                     | -1.376               | 0 %100             |
| 60           | M34       | Z                            | -2.384                     | -2.384               | 0 %100             |
| 61           | M35       | X                            | -1.402                     | -1.402               | 0 %100             |
| 62           | M35       | Z                            | -2.428                     | -2.428               | 0 %100             |
| 63           | M36       | X                            | -.982                      | -.982                | 0 %100             |
| 64           | M36       | Z                            | -1.7                       | -1.7                 | 0 %100             |
| 65           | MP1A      | X                            | -1.779                     | -1.779               | 0 %100             |
| 66           | MP1A      | Z                            | -3.082                     | -3.082               | 0 %100             |
| 67           | M46       | X                            | -.732                      | -.732                | 0 %100             |
| 68           | M46       | Z                            | -1.268                     | -1.268               | 0 %100             |
| 69           | MP2A      | X                            | -1.763                     | -1.763               | 0 %100             |
| 70           | MP2A      | Z                            | -3.053                     | -3.053               | 0 %100             |
| 71           | MP4A      | X                            | -1.779                     | -1.779               | 0 %100             |
| 72           | MP4A      | Z                            | -3.082                     | -3.082               | 0 %100             |
| 73           | MP3       | X                            | -1.726                     | -1.726               | 0 %100             |
| 74           | MP3       | Z                            | -2.99                      | -2.99                | 0 %100             |
| 75           | M56       | X                            | -.18                       | -.18                 | 0 %100             |
| 76           | M56       | Z                            | -.312                      | -.312                | 0 %100             |
| 77           | M57       | X                            | -.18                       | -.18                 | 0 %100             |
| 78           | M57       | Z                            | -.312                      | -.312                | 0 %100             |
| 79           | M58       | X                            | -.18                       | -.18                 | 0 %100             |
| 80           | M58       | Z                            | -.312                      | -.312                | 0 %100             |
| 81           | M59       | X                            | -.18                       | -.18                 | 0 %100             |
| 82           | M59       | Z                            | -.312                      | -.312                | 0 %100             |
| 83           | MP3A      | X                            | -1.962                     | -1.962               | 0 %100             |



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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 84 | MP3A         | Z         | -3.398                       | -3.398                     | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | 0                            | 0                          | 0                    | %100               |
| 2  | M5           | Z         | -.048                        | -.048                      | 0                    | %100               |
| 3  | M6           | X         | 0                            | 0                          | 0                    | %100               |
| 4  | M6           | Z         | -.048                        | -.048                      | 0                    | %100               |
| 5  | M7           | X         | 0                            | 0                          | 0                    | %100               |
| 6  | M7           | Z         | -.756                        | -.756                      | 0                    | %100               |
| 7  | M8           | X         | 0                            | 0                          | 0                    | %100               |
| 8  | M8           | Z         | -.048                        | -.048                      | 0                    | %100               |
| 9  | M9           | X         | 0                            | 0                          | 0                    | %100               |
| 10 | M9           | Z         | -.048                        | -.048                      | 0                    | %100               |
| 11 | FACE         | X         | 0                            | 0                          | 0                    | %100               |
| 12 | FACE         | Z         | -.756                        | -.756                      | 0                    | %100               |
| 13 | M11          | X         | 0                            | 0                          | 0                    | %100               |
| 14 | M11          | Z         | -.306                        | -.306                      | 0                    | %100               |
| 15 | M12          | X         | 0                            | 0                          | 0                    | %100               |
| 16 | M12          | Z         | -.306                        | -.306                      | 0                    | %100               |
| 17 | M13          | X         | 0                            | 0                          | 0                    | %100               |
| 18 | M13          | Z         | -.306                        | -.306                      | 0                    | %100               |
| 19 | M14          | X         | 0                            | 0                          | 0                    | %100               |
| 20 | M14          | Z         | -.306                        | -.306                      | 0                    | %100               |
| 21 | M15          | X         | 0                            | 0                          | 0                    | %100               |
| 22 | M15          | Z         | -.104                        | -.104                      | 0                    | %100               |
| 23 | M16          | X         | 0                            | 0                          | 0                    | %100               |
| 24 | M16          | Z         | -.415                        | -.415                      | 0                    | %100               |
| 25 | M17          | X         | 0                            | 0                          | 0                    | %100               |
| 26 | M17          | Z         | -.104                        | -.104                      | 0                    | %100               |
| 27 | M18          | X         | 0                            | 0                          | 0                    | %100               |
| 28 | M18          | Z         | -.415                        | -.415                      | 0                    | %100               |
| 29 | M19          | X         | 0                            | 0                          | 0                    | %100               |
| 30 | M19          | Z         | -.125                        | -.125                      | 0                    | %100               |
| 31 | M20          | X         | 0                            | 0                          | 0                    | %100               |
| 32 | M20          | Z         | -.104                        | -.104                      | 0                    | %100               |
| 33 | M21          | X         | 0                            | 0                          | 0                    | %100               |
| 34 | M21          | Z         | -.104                        | -.104                      | 0                    | %100               |
| 35 | M22          | X         | 0                            | 0                          | 0                    | %100               |
| 36 | M22          | Z         | -.453                        | -.453                      | 0                    | %100               |
| 37 | M23          | X         | 0                            | 0                          | 0                    | %100               |
| 38 | M23          | Z         | -.453                        | -.453                      | 0                    | %100               |
| 39 | M24          | X         | 0                            | 0                          | 0                    | %100               |
| 40 | M24          | Z         | -.496                        | -.496                      | 0                    | %100               |
| 41 | M25          | X         | 0                            | 0                          | 0                    | %100               |
| 42 | M25          | Z         | -.125                        | -.125                      | 0                    | %100               |
| 43 | M26          | X         | 0                            | 0                          | 0                    | %100               |
| 44 | M26          | Z         | -.104                        | -.104                      | 0                    | %100               |
| 45 | M27          | X         | 0                            | 0                          | 0                    | %100               |
| 46 | M27          | Z         | -.415                        | -.415                      | 0                    | %100               |
| 47 | M28          | X         | 0                            | 0                          | 0                    | %100               |
| 48 | M28          | Z         | -.104                        | -.104                      | 0                    | %100               |
| 49 | M29          | X         | 0                            | 0                          | 0                    | %100               |
| 50 | M29          | Z         | -.415                        | -.415                      | 0                    | %100               |
| 51 | M30          | X         | 0                            | 0                          | 0                    | %100               |
| 52 | M30          | Z         | -.125                        | -.125                      | 0                    | %100               |





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

| Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 22           | M15       | Z                            | -.267                      | 0                    | %100               |
| 23           | M16       | X                            | .244                       | 0                    | %100               |
| 24           | M16       | Z                            | -.422                      | 0                    | %100               |
| 25           | M17       | X                            | .154                       | 0                    | %100               |
| 26           | M17       | Z                            | -.267                      | 0                    | %100               |
| 27           | M18       | X                            | .244                       | 0                    | %100               |
| 28           | M18       | Z                            | -.422                      | 0                    | %100               |
| 29           | M19       | X                            | .162                       | 0                    | %100               |
| 30           | M19       | Z                            | -.28                       | 0                    | %100               |
| 31           | M20       | X                            | .154                       | 0                    | %100               |
| 32           | M20       | Z                            | -.267                      | 0                    | %100               |
| 33           | M21       | X                            | .154                       | 0                    | %100               |
| 34           | M21       | Z                            | -.267                      | 0                    | %100               |
| 35           | M22       | X                            | .227                       | 0                    | %100               |
| 36           | M22       | Z                            | -.393                      | 0                    | %100               |
| 37           | M23       | X                            | .227                       | 0                    | %100               |
| 38           | M23       | Z                            | -.393                      | 0                    | %100               |
| 39           | M24       | X                            | .248                       | 0                    | %100               |
| 40           | M24       | Z                            | -.43                       | 0                    | %100               |
| 41           | M25       | X                            | .162                       | 0                    | %100               |
| 42           | M25       | Z                            | -.28                       | 0                    | %100               |
| 43           | M26       | X                            | .154                       | 0                    | %100               |
| 44           | M26       | Z                            | -.267                      | 0                    | %100               |
| 45           | M27       | X                            | .172                       | 0                    | %100               |
| 46           | M27       | Z                            | -.297                      | 0                    | %100               |
| 47           | M28       | X                            | .154                       | 0                    | %100               |
| 48           | M28       | Z                            | -.267                      | 0                    | %100               |
| 49           | M29       | X                            | .172                       | 0                    | %100               |
| 50           | M29       | Z                            | -.297                      | 0                    | %100               |
| 51           | M30       | X                            | .162                       | 0                    | %100               |
| 52           | M30       | Z                            | -.28                       | 0                    | %100               |
| 53           | M31       | X                            | .154                       | 0                    | %100               |
| 54           | M31       | Z                            | -.267                      | 0                    | %100               |
| 55           | M32       | X                            | .154                       | 0                    | %100               |
| 56           | M32       | Z                            | -.267                      | 0                    | %100               |
| 57           | M33       | X                            | .227                       | 0                    | %100               |
| 58           | M33       | Z                            | -.393                      | 0                    | %100               |
| 59           | M34       | X                            | .227                       | 0                    | %100               |
| 60           | M34       | Z                            | -.393                      | 0                    | %100               |
| 61           | M35       | X                            | .248                       | 0                    | %100               |
| 62           | M35       | Z                            | -.43                       | 0                    | %100               |
| 63           | M36       | X                            | .162                       | 0                    | %100               |
| 64           | M36       | Z                            | -.28                       | 0                    | %100               |
| 65           | MP1A      | X                            | .312                       | 0                    | %100               |
| 66           | MP1A      | Z                            | -.541                      | 0                    | %100               |
| 67           | M46       | X                            | .069                       | 0                    | %100               |
| 68           | M46       | Z                            | -.119                      | 0                    | %100               |
| 69           | MP2A      | X                            | .312                       | 0                    | %100               |
| 70           | MP2A      | Z                            | -.541                      | 0                    | %100               |
| 71           | MP4A      | X                            | .312                       | 0                    | %100               |
| 72           | MP4A      | Z                            | -.541                      | 0                    | %100               |
| 73           | MP3       | X                            | .306                       | 0                    | %100               |
| 74           | MP3       | Z                            | -.531                      | 0                    | %100               |
| 75           | M56       | X                            | .016                       | 0                    | %100               |
| 76           | M56       | Z                            | -.028                      | 0                    | %100               |
| 77           | M57       | X                            | .016                       | 0                    | %100               |
| 78           | M57       | Z                            | -.028                      | 0                    | %100               |







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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft.F,ksf] | Start Location[ft.%] | End Location[ft.%] |
|----|--------------|-----------|-----------------------|----------------------------|----------------------|--------------------|
| 17 | M13          | X         | .318                  | .318                       | 0                    | %100               |
| 18 | M13          | Z         | 0                     | 0                          | 0                    | %100               |
| 19 | M14          | X         | .318                  | .318                       | 0                    | %100               |
| 20 | M14          | Z         | 0                     | 0                          | 0                    | %100               |
| 21 | M15          | X         | .92                   | .92                        | 0                    | %100               |
| 22 | M15          | Z         | 0                     | 0                          | 0                    | %100               |
| 23 | M16          | X         | .418                  | .418                       | 0                    | %100               |
| 24 | M16          | Z         | 0                     | 0                          | 0                    | %100               |
| 25 | M17          | X         | .92                   | .92                        | 0                    | %100               |
| 26 | M17          | Z         | 0                     | 0                          | 0                    | %100               |
| 27 | M18          | X         | .418                  | .418                       | 0                    | %100               |
| 28 | M18          | Z         | 0                     | 0                          | 0                    | %100               |
| 29 | M19          | X         | .92                   | .92                        | 0                    | %100               |
| 30 | M19          | Z         | 0                     | 0                          | 0                    | %100               |
| 31 | M20          | X         | .92                   | .92                        | 0                    | %100               |
| 32 | M20          | Z         | 0                     | 0                          | 0                    | %100               |
| 33 | M21          | X         | .92                   | .92                        | 0                    | %100               |
| 34 | M21          | Z         | 0                     | 0                          | 0                    | %100               |
| 35 | M22          | X         | .453                  | .453                       | 0                    | %100               |
| 36 | M22          | Z         | 0                     | 0                          | 0                    | %100               |
| 37 | M23          | X         | .453                  | .453                       | 0                    | %100               |
| 38 | M23          | Z         | 0                     | 0                          | 0                    | %100               |
| 39 | M24          | X         | .496                  | .496                       | 0                    | %100               |
| 40 | M24          | Z         | 0                     | 0                          | 0                    | %100               |
| 41 | M25          | X         | .92                   | .92                        | 0                    | %100               |
| 42 | M25          | Z         | 0                     | 0                          | 0                    | %100               |
| 43 | M26          | X         | .92                   | .92                        | 0                    | %100               |
| 44 | M26          | Z         | 0                     | 0                          | 0                    | %100               |
| 45 | M27          | X         | .418                  | .418                       | 0                    | %100               |
| 46 | M27          | Z         | 0                     | 0                          | 0                    | %100               |
| 47 | M28          | X         | .92                   | .92                        | 0                    | %100               |
| 48 | M28          | Z         | 0                     | 0                          | 0                    | %100               |
| 49 | M29          | X         | .418                  | .418                       | 0                    | %100               |
| 50 | M29          | Z         | 0                     | 0                          | 0                    | %100               |
| 51 | M30          | X         | .92                   | .92                        | 0                    | %100               |
| 52 | M30          | Z         | 0                     | 0                          | 0                    | %100               |
| 53 | M31          | X         | .92                   | .92                        | 0                    | %100               |
| 54 | M31          | Z         | 0                     | 0                          | 0                    | %100               |
| 55 | M32          | X         | .92                   | .92                        | 0                    | %100               |
| 56 | M32          | Z         | 0                     | 0                          | 0                    | %100               |
| 57 | M33          | X         | .453                  | .453                       | 0                    | %100               |
| 58 | M33          | Z         | 0                     | 0                          | 0                    | %100               |
| 59 | M34          | X         | .453                  | .453                       | 0                    | %100               |
| 60 | M34          | Z         | 0                     | 0                          | 0                    | %100               |
| 61 | M35          | X         | .496                  | .496                       | 0                    | %100               |
| 62 | M35          | Z         | 0                     | 0                          | 0                    | %100               |
| 63 | M36          | X         | .92                   | .92                        | 0                    | %100               |
| 64 | M36          | Z         | 0                     | 0                          | 0                    | %100               |
| 65 | MP1A         | X         | .624                  | .624                       | 0                    | %100               |
| 66 | MP1A         | Z         | 0                     | 0                          | 0                    | %100               |
| 67 | M46          | X         | .586                  | .586                       | 0                    | %100               |
| 68 | M46          | Z         | 0                     | 0                          | 0                    | %100               |
| 69 | MP2A         | X         | .624                  | .624                       | 0                    | %100               |
| 70 | MP2A         | Z         | 0                     | 0                          | 0                    | %100               |
| 71 | MP4A         | X         | .624                  | .624                       | 0                    | %100               |
| 72 | MP4A         | Z         | 0                     | 0                          | 0                    | %100               |
| 73 | MP3          | X         | .613                  | .613                       | 0                    | %100               |









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

| Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 12           | FACE      | Z                            | .491                       | .491                 | 0 %100             |
| 13           | M11       | X                            | .29                        | .29                  | 0 %100             |
| 14           | M11       | Z                            | .502                       | .502                 | 0 %100             |
| 15           | M12       | X                            | .019                       | .019                 | 0 %100             |
| 16           | M12       | Z                            | .034                       | .034                 | 0 %100             |
| 17           | M13       | X                            | .29                        | .29                  | 0 %100             |
| 18           | M13       | Z                            | .502                       | .502                 | 0 %100             |
| 19           | M14       | X                            | .019                       | .019                 | 0 %100             |
| 20           | M14       | Z                            | .034                       | .034                 | 0 %100             |
| 21           | M15       | X                            | .154                       | .154                 | 0 %100             |
| 22           | M15       | Z                            | .267                       | .267                 | 0 %100             |
| 23           | M16       | X                            | .172                       | .172                 | 0 %100             |
| 24           | M16       | Z                            | .297                       | .297                 | 0 %100             |
| 25           | M17       | X                            | .154                       | .154                 | 0 %100             |
| 26           | M17       | Z                            | .267                       | .267                 | 0 %100             |
| 27           | M18       | X                            | .172                       | .172                 | 0 %100             |
| 28           | M18       | Z                            | .297                       | .297                 | 0 %100             |
| 29           | M19       | X                            | .162                       | .162                 | 0 %100             |
| 30           | M19       | Z                            | .28                        | .28                  | 0 %100             |
| 31           | M20       | X                            | .154                       | .154                 | 0 %100             |
| 32           | M20       | Z                            | .267                       | .267                 | 0 %100             |
| 33           | M21       | X                            | .154                       | .154                 | 0 %100             |
| 34           | M21       | Z                            | .267                       | .267                 | 0 %100             |
| 35           | M22       | X                            | .227                       | .227                 | 0 %100             |
| 36           | M22       | Z                            | .393                       | .393                 | 0 %100             |
| 37           | M23       | X                            | .227                       | .227                 | 0 %100             |
| 38           | M23       | Z                            | .393                       | .393                 | 0 %100             |
| 39           | M24       | X                            | .248                       | .248                 | 0 %100             |
| 40           | M24       | Z                            | .43                        | .43                  | 0 %100             |
| 41           | M25       | X                            | .162                       | .162                 | 0 %100             |
| 42           | M25       | Z                            | .28                        | .28                  | 0 %100             |
| 43           | M26       | X                            | .154                       | .154                 | 0 %100             |
| 44           | M26       | Z                            | .267                       | .267                 | 0 %100             |
| 45           | M27       | X                            | .244                       | .244                 | 0 %100             |
| 46           | M27       | Z                            | .422                       | .422                 | 0 %100             |
| 47           | M28       | X                            | .154                       | .154                 | 0 %100             |
| 48           | M28       | Z                            | .267                       | .267                 | 0 %100             |
| 49           | M29       | X                            | .244                       | .244                 | 0 %100             |
| 50           | M29       | Z                            | .422                       | .422                 | 0 %100             |
| 51           | M30       | X                            | .162                       | .162                 | 0 %100             |
| 52           | M30       | Z                            | .28                        | .28                  | 0 %100             |
| 53           | M31       | X                            | .154                       | .154                 | 0 %100             |
| 54           | M31       | Z                            | .267                       | .267                 | 0 %100             |
| 55           | M32       | X                            | .154                       | .154                 | 0 %100             |
| 56           | M32       | Z                            | .267                       | .267                 | 0 %100             |
| 57           | M33       | X                            | .227                       | .227                 | 0 %100             |
| 58           | M33       | Z                            | .393                       | .393                 | 0 %100             |
| 59           | M34       | X                            | .227                       | .227                 | 0 %100             |
| 60           | M34       | Z                            | .393                       | .393                 | 0 %100             |
| 61           | M35       | X                            | .248                       | .248                 | 0 %100             |
| 62           | M35       | Z                            | .43                        | .43                  | 0 %100             |
| 63           | M36       | X                            | .162                       | .162                 | 0 %100             |
| 64           | M36       | Z                            | .28                        | .28                  | 0 %100             |
| 65           | MP1A      | X                            | .312                       | .312                 | 0 %100             |
| 66           | MP1A      | Z                            | .541                       | .541                 | 0 %100             |
| 67           | M46       | X                            | .13                        | .13                  | 0 %100             |
| 68           | M46       | Z                            | .225                       | .225                 | 0 %100             |



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 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 69 | MP2A         | X         | .312                  | .312                       | 0                     | %100                |
| 70 | MP2A         | Z         | .541                  | .541                       | 0                     | %100                |
| 71 | MP4A         | X         | .312                  | .312                       | 0                     | %100                |
| 72 | MP4A         | Z         | .541                  | .541                       | 0                     | %100                |
| 73 | MP3          | X         | .306                  | .306                       | 0                     | %100                |
| 74 | MP3          | Z         | .531                  | .531                       | 0                     | %100                |
| 75 | M56          | X         | .016                  | .016                       | 0                     | %100                |
| 76 | M56          | Z         | .028                  | .028                       | 0                     | %100                |
| 77 | M57          | X         | .016                  | .016                       | 0                     | %100                |
| 78 | M57          | Z         | .028                  | .028                       | 0                     | %100                |
| 79 | M58          | X         | .016                  | .016                       | 0                     | %100                |
| 80 | M58          | Z         | .028                  | .028                       | 0                     | %100                |
| 81 | M59          | X         | .016                  | .016                       | 0                     | %100                |
| 82 | M59          | Z         | .028                  | .028                       | 0                     | %100                |
| 83 | MP3A         | X         | .378                  | .378                       | 0                     | %100                |
| 84 | MP3A         | Z         | .655                  | .655                       | 0                     | %100                |

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

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 1  | M5           | X         | 0                     | 0                          | 0                     | %100                |
| 2  | M5           | Z         | .048                  | .048                       | 0                     | %100                |
| 3  | M6           | X         | 0                     | 0                          | 0                     | %100                |
| 4  | M6           | Z         | .048                  | .048                       | 0                     | %100                |
| 5  | M7           | X         | 0                     | 0                          | 0                     | %100                |
| 6  | M7           | Z         | .756                  | .756                       | 0                     | %100                |
| 7  | M8           | X         | 0                     | 0                          | 0                     | %100                |
| 8  | M8           | Z         | .048                  | .048                       | 0                     | %100                |
| 9  | M9           | X         | 0                     | 0                          | 0                     | %100                |
| 10 | M9           | Z         | .048                  | .048                       | 0                     | %100                |
| 11 | FACE         | X         | 0                     | 0                          | 0                     | %100                |
| 12 | FACE         | Z         | .756                  | .756                       | 0                     | %100                |
| 13 | M11          | X         | 0                     | 0                          | 0                     | %100                |
| 14 | M11          | Z         | .306                  | .306                       | 0                     | %100                |
| 15 | M12          | X         | 0                     | 0                          | 0                     | %100                |
| 16 | M12          | Z         | .306                  | .306                       | 0                     | %100                |
| 17 | M13          | X         | 0                     | 0                          | 0                     | %100                |
| 18 | M13          | Z         | .306                  | .306                       | 0                     | %100                |
| 19 | M14          | X         | 0                     | 0                          | 0                     | %100                |
| 20 | M14          | Z         | .306                  | .306                       | 0                     | %100                |
| 21 | M15          | X         | 0                     | 0                          | 0                     | %100                |
| 22 | M15          | Z         | .104                  | .104                       | 0                     | %100                |
| 23 | M16          | X         | 0                     | 0                          | 0                     | %100                |
| 24 | M16          | Z         | .415                  | .415                       | 0                     | %100                |
| 25 | M17          | X         | 0                     | 0                          | 0                     | %100                |
| 26 | M17          | Z         | .104                  | .104                       | 0                     | %100                |
| 27 | M18          | X         | 0                     | 0                          | 0                     | %100                |
| 28 | M18          | Z         | .415                  | .415                       | 0                     | %100                |
| 29 | M19          | X         | 0                     | 0                          | 0                     | %100                |
| 30 | M19          | Z         | .125                  | .125                       | 0                     | %100                |
| 31 | M20          | X         | 0                     | 0                          | 0                     | %100                |
| 32 | M20          | Z         | .104                  | .104                       | 0                     | %100                |
| 33 | M21          | X         | 0                     | 0                          | 0                     | %100                |
| 34 | M21          | Z         | .104                  | .104                       | 0                     | %100                |
| 35 | M22          | X         | 0                     | 0                          | 0                     | %100                |
| 36 | M22          | Z         | .453                  | .453                       | 0                     | %100                |
| 37 | M23          | X         | 0                     | 0                          | 0                     | %100                |



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

|    | Member Label | Direction | Start Magnitude[...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|----------------------|----------------------------|-----------------------|---------------------|
| 38 | M23          | Z         | .453                 | .453                       | 0                     | %100                |
| 39 | M24          | X         | 0                    | 0                          | 0                     | %100                |
| 40 | M24          | Z         | .496                 | .496                       | 0                     | %100                |
| 41 | M25          | X         | 0                    | 0                          | 0                     | %100                |
| 42 | M25          | Z         | .125                 | .125                       | 0                     | %100                |
| 43 | M26          | X         | 0                    | 0                          | 0                     | %100                |
| 44 | M26          | Z         | .104                 | .104                       | 0                     | %100                |
| 45 | M27          | X         | 0                    | 0                          | 0                     | %100                |
| 46 | M27          | Z         | .415                 | .415                       | 0                     | %100                |
| 47 | M28          | X         | 0                    | 0                          | 0                     | %100                |
| 48 | M28          | Z         | .104                 | .104                       | 0                     | %100                |
| 49 | M29          | X         | 0                    | 0                          | 0                     | %100                |
| 50 | M29          | Z         | .415                 | .415                       | 0                     | %100                |
| 51 | M30          | X         | 0                    | 0                          | 0                     | %100                |
| 52 | M30          | Z         | .125                 | .125                       | 0                     | %100                |
| 53 | M31          | X         | 0                    | 0                          | 0                     | %100                |
| 54 | M31          | Z         | .104                 | .104                       | 0                     | %100                |
| 55 | M32          | X         | 0                    | 0                          | 0                     | %100                |
| 56 | M32          | Z         | .104                 | .104                       | 0                     | %100                |
| 57 | M33          | X         | 0                    | 0                          | 0                     | %100                |
| 58 | M33          | Z         | .453                 | .453                       | 0                     | %100                |
| 59 | M34          | X         | 0                    | 0                          | 0                     | %100                |
| 60 | M34          | Z         | .453                 | .453                       | 0                     | %100                |
| 61 | M35          | X         | 0                    | 0                          | 0                     | %100                |
| 62 | M35          | Z         | .496                 | .496                       | 0                     | %100                |
| 63 | M36          | X         | 0                    | 0                          | 0                     | %100                |
| 64 | M36          | Z         | .125                 | .125                       | 0                     | %100                |
| 65 | MP1A         | X         | 0                    | 0                          | 0                     | %100                |
| 66 | MP1A         | Z         | .624                 | .624                       | 0                     | %100                |
| 67 | M46          | X         | 0                    | 0                          | 0                     | %100                |
| 68 | M46          | Z         | .07                  | .07                        | 0                     | %100                |
| 69 | MP2A         | X         | 0                    | 0                          | 0                     | %100                |
| 70 | MP2A         | Z         | .624                 | .624                       | 0                     | %100                |
| 71 | MP4A         | X         | 0                    | 0                          | 0                     | %100                |
| 72 | MP4A         | Z         | .624                 | .624                       | 0                     | %100                |
| 73 | MP3          | X         | 0                    | 0                          | 0                     | %100                |
| 74 | MP3          | Z         | .613                 | .613                       | 0                     | %100                |
| 75 | M56          | X         | 0                    | 0                          | 0                     | %100                |
| 76 | M56          | Z         | 0                    | 0                          | 0                     | %100                |
| 77 | M57          | X         | 0                    | 0                          | 0                     | %100                |
| 78 | M57          | Z         | 0                    | 0                          | 0                     | %100                |
| 79 | M58          | X         | 0                    | 0                          | 0                     | %100                |
| 80 | M58          | Z         | 0                    | 0                          | 0                     | %100                |
| 81 | M59          | X         | 0                    | 0                          | 0                     | %100                |
| 82 | M59          | Z         | 0                    | 0                          | 0                     | %100                |
| 83 | MP3A         | X         | 0                    | 0                          | 0                     | %100                |
| 84 | MP3A         | Z         | .756                 | .756                       | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|----------------------|----------------------------|-----------------------|---------------------|
| 1 | M5           | X         | -.003                | -.003                      | 0                     | %100                |
| 2 | M5           | Z         | .005                 | .005                       | 0                     | %100                |
| 3 | M6           | X         | -.046                | -.046                      | 0                     | %100                |
| 4 | M6           | Z         | .079                 | .079                       | 0                     | %100                |
| 5 | M7           | X         | -.283                | -.283                      | 0                     | %100                |
| 6 | M7           | Z         | .491                 | .491                       | 0                     | %100                |





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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 64 | M36          | Z         | .28                          | .28                        | 0                    | %100               |
| 65 | MP1A         | X         | -.312                        | -.312                      | 0                    | %100               |
| 66 | MP1A         | Z         | .541                         | .541                       | 0                    | %100               |
| 67 | M46          | X         | -.069                        | -.069                      | 0                    | %100               |
| 68 | M46          | Z         | .119                         | .119                       | 0                    | %100               |
| 69 | MP2A         | X         | -.312                        | -.312                      | 0                    | %100               |
| 70 | MP2A         | Z         | .541                         | .541                       | 0                    | %100               |
| 71 | MP4A         | X         | -.312                        | -.312                      | 0                    | %100               |
| 72 | MP4A         | Z         | .541                         | .541                       | 0                    | %100               |
| 73 | MP3          | X         | -.306                        | -.306                      | 0                    | %100               |
| 74 | MP3          | Z         | .531                         | .531                       | 0                    | %100               |
| 75 | M56          | X         | -.016                        | -.016                      | 0                    | %100               |
| 76 | M56          | Z         | .028                         | .028                       | 0                    | %100               |
| 77 | M57          | X         | -.016                        | -.016                      | 0                    | %100               |
| 78 | M57          | Z         | .028                         | .028                       | 0                    | %100               |
| 79 | M58          | X         | -.016                        | -.016                      | 0                    | %100               |
| 80 | M58          | Z         | .028                         | .028                       | 0                    | %100               |
| 81 | M59          | X         | -.016                        | -.016                      | 0                    | %100               |
| 82 | M59          | Z         | .028                         | .028                       | 0                    | %100               |
| 83 | MP3A         | X         | -.378                        | -.378                      | 0                    | %100               |
| 84 | MP3A         | Z         | .655                         | .655                       | 0                    | %100               |

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

|    | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | -.006                        | -.006                      | 0                    | %100               |
| 2  | M5           | Z         | .004                         | .004                       | 0                    | %100               |
| 3  | M6           | X         | -.08                         | -.08                       | 0                    | %100               |
| 4  | M6           | Z         | .046                         | .046                       | 0                    | %100               |
| 5  | M7           | X         | -.164                        | -.164                      | 0                    | %100               |
| 6  | M7           | Z         | .094                         | .094                       | 0                    | %100               |
| 7  | M8           | X         | -.006                        | -.006                      | 0                    | %100               |
| 8  | M8           | Z         | .004                         | .004                       | 0                    | %100               |
| 9  | M9           | X         | -.08                         | -.08                       | 0                    | %100               |
| 10 | M9           | Z         | .046                         | .046                       | 0                    | %100               |
| 11 | FACE         | X         | -.164                        | -.164                      | 0                    | %100               |
| 12 | FACE         | Z         | .094                         | .094                       | 0                    | %100               |
| 13 | M11          | X         | -.039                        | -.039                      | 0                    | %100               |
| 14 | M11          | Z         | .022                         | .022                       | 0                    | %100               |
| 15 | M12          | X         | -.507                        | -.507                      | 0                    | %100               |
| 16 | M12          | Z         | .293                         | .293                       | 0                    | %100               |
| 17 | M13          | X         | -.039                        | -.039                      | 0                    | %100               |
| 18 | M13          | Z         | .022                         | .022                       | 0                    | %100               |
| 19 | M14          | X         | -.507                        | -.507                      | 0                    | %100               |
| 20 | M14          | Z         | .293                         | .293                       | 0                    | %100               |
| 21 | M15          | X         | -.62                         | -.62                       | 0                    | %100               |
| 22 | M15          | Z         | .358                         | .358                       | 0                    | %100               |
| 23 | M16          | X         | -.424                        | -.424                      | 0                    | %100               |
| 24 | M16          | Z         | .245                         | .245                       | 0                    | %100               |
| 25 | M17          | X         | -.62                         | -.62                       | 0                    | %100               |
| 26 | M17          | Z         | .358                         | .358                       | 0                    | %100               |
| 27 | M18          | X         | -.424                        | -.424                      | 0                    | %100               |
| 28 | M18          | Z         | .245                         | .245                       | 0                    | %100               |
| 29 | M19          | X         | -.625                        | -.625                      | 0                    | %100               |
| 30 | M19          | Z         | .361                         | .361                       | 0                    | %100               |
| 31 | M20          | X         | -.62                         | -.62                       | 0                    | %100               |
| 32 | M20          | Z         | .358                         | .358                       | 0                    | %100               |



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 Designer :  
 Job Number :  
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**Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)**

|    | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|----|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 33 | M21          | X         | -.62                  | -.62                       | 0                     | %100                |
| 34 | M21          | Z         | .358                  | .358                       | 0                     | %100                |
| 35 | M22          | X         | -.393                 | -.393                      | 0                     | %100                |
| 36 | M22          | Z         | .227                  | .227                       | 0                     | %100                |
| 37 | M23          | X         | -.393                 | -.393                      | 0                     | %100                |
| 38 | M23          | Z         | .227                  | .227                       | 0                     | %100                |
| 39 | M24          | X         | -.43                  | -.43                       | 0                     | %100                |
| 40 | M24          | Z         | .248                  | .248                       | 0                     | %100                |
| 41 | M25          | X         | -.625                 | -.625                      | 0                     | %100                |
| 42 | M25          | Z         | .361                  | .361                       | 0                     | %100                |
| 43 | M26          | X         | -.62                  | -.62                       | 0                     | %100                |
| 44 | M26          | Z         | .358                  | .358                       | 0                     | %100                |
| 45 | M27          | X         | -.299                 | -.299                      | 0                     | %100                |
| 46 | M27          | Z         | .172                  | .172                       | 0                     | %100                |
| 47 | M28          | X         | -.62                  | -.62                       | 0                     | %100                |
| 48 | M28          | Z         | .358                  | .358                       | 0                     | %100                |
| 49 | M29          | X         | -.299                 | -.299                      | 0                     | %100                |
| 50 | M29          | Z         | .172                  | .172                       | 0                     | %100                |
| 51 | M30          | X         | -.625                 | -.625                      | 0                     | %100                |
| 52 | M30          | Z         | .361                  | .361                       | 0                     | %100                |
| 53 | M31          | X         | -.62                  | -.62                       | 0                     | %100                |
| 54 | M31          | Z         | .358                  | .358                       | 0                     | %100                |
| 55 | M32          | X         | -.62                  | -.62                       | 0                     | %100                |
| 56 | M32          | Z         | .358                  | .358                       | 0                     | %100                |
| 57 | M33          | X         | -.393                 | -.393                      | 0                     | %100                |
| 58 | M33          | Z         | .227                  | .227                       | 0                     | %100                |
| 59 | M34          | X         | -.393                 | -.393                      | 0                     | %100                |
| 60 | M34          | Z         | .227                  | .227                       | 0                     | %100                |
| 61 | M35          | X         | -.43                  | -.43                       | 0                     | %100                |
| 62 | M35          | Z         | .248                  | .248                       | 0                     | %100                |
| 63 | M36          | X         | -.625                 | -.625                      | 0                     | %100                |
| 64 | M36          | Z         | .361                  | .361                       | 0                     | %100                |
| 65 | MP1A         | X         | -.541                 | -.541                      | 0                     | %100                |
| 66 | MP1A         | Z         | .312                  | .312                       | 0                     | %100                |
| 67 | M46          | X         | -.343                 | -.343                      | 0                     | %100                |
| 68 | M46          | Z         | .198                  | .198                       | 0                     | %100                |
| 69 | MP2A         | X         | -.541                 | -.541                      | 0                     | %100                |
| 70 | MP2A         | Z         | .312                  | .312                       | 0                     | %100                |
| 71 | MP4A         | X         | -.541                 | -.541                      | 0                     | %100                |
| 72 | MP4A         | Z         | .312                  | .312                       | 0                     | %100                |
| 73 | MP3          | X         | -.531                 | -.531                      | 0                     | %100                |
| 74 | MP3          | Z         | .306                  | .306                       | 0                     | %100                |
| 75 | M56          | X         | -.083                 | -.083                      | 0                     | %100                |
| 76 | M56          | Z         | .048                  | .048                       | 0                     | %100                |
| 77 | M57          | X         | -.083                 | -.083                      | 0                     | %100                |
| 78 | M57          | Z         | .048                  | .048                       | 0                     | %100                |
| 79 | M58          | X         | -.083                 | -.083                      | 0                     | %100                |
| 80 | M58          | Z         | .048                  | .048                       | 0                     | %100                |
| 81 | M59          | X         | -.083                 | -.083                      | 0                     | %100                |
| 82 | M59          | Z         | .048                  | .048                       | 0                     | %100                |
| 83 | MP3A         | X         | -.655                 | -.655                      | 0                     | %100                |
| 84 | MP3A         | Z         | .378                  | .378                       | 0                     | %100                |

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

|   | Member Label | Direction | Start Magnitude[l...] | End Magnitude[lb/ft,F,ksf] | Start Location[ft, %] | End Location[ft, %] |
|---|--------------|-----------|-----------------------|----------------------------|-----------------------|---------------------|
| 1 | M5           | X         | -.05                  | -.05                       | 0                     | %100                |









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 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

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

| Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 28           | M18       | Z                            | -.172                      | -.172                | 0 %100             |
| 29           | M19       | X                            | -.625                      | -.625                | 0 %100             |
| 30           | M19       | Z                            | -.361                      | -.361                | 0 %100             |
| 31           | M20       | X                            | -.62                       | -.62                 | 0 %100             |
| 32           | M20       | Z                            | -.358                      | -.358                | 0 %100             |
| 33           | M21       | X                            | -.62                       | -.62                 | 0 %100             |
| 34           | M21       | Z                            | -.358                      | -.358                | 0 %100             |
| 35           | M22       | X                            | -.393                      | -.393                | 0 %100             |
| 36           | M22       | Z                            | -.227                      | -.227                | 0 %100             |
| 37           | M23       | X                            | -.393                      | -.393                | 0 %100             |
| 38           | M23       | Z                            | -.227                      | -.227                | 0 %100             |
| 39           | M24       | X                            | -.43                       | -.43                 | 0 %100             |
| 40           | M24       | Z                            | -.248                      | -.248                | 0 %100             |
| 41           | M25       | X                            | -.625                      | -.625                | 0 %100             |
| 42           | M25       | Z                            | -.361                      | -.361                | 0 %100             |
| 43           | M26       | X                            | -.62                       | -.62                 | 0 %100             |
| 44           | M26       | Z                            | -.358                      | -.358                | 0 %100             |
| 45           | M27       | X                            | -.424                      | -.424                | 0 %100             |
| 46           | M27       | Z                            | -.245                      | -.245                | 0 %100             |
| 47           | M28       | X                            | -.62                       | -.62                 | 0 %100             |
| 48           | M28       | Z                            | -.358                      | -.358                | 0 %100             |
| 49           | M29       | X                            | -.424                      | -.424                | 0 %100             |
| 50           | M29       | Z                            | -.245                      | -.245                | 0 %100             |
| 51           | M30       | X                            | -.625                      | -.625                | 0 %100             |
| 52           | M30       | Z                            | -.361                      | -.361                | 0 %100             |
| 53           | M31       | X                            | -.62                       | -.62                 | 0 %100             |
| 54           | M31       | Z                            | -.358                      | -.358                | 0 %100             |
| 55           | M32       | X                            | -.62                       | -.62                 | 0 %100             |
| 56           | M32       | Z                            | -.358                      | -.358                | 0 %100             |
| 57           | M33       | X                            | -.393                      | -.393                | 0 %100             |
| 58           | M33       | Z                            | -.227                      | -.227                | 0 %100             |
| 59           | M34       | X                            | -.393                      | -.393                | 0 %100             |
| 60           | M34       | Z                            | -.227                      | -.227                | 0 %100             |
| 61           | M35       | X                            | -.43                       | -.43                 | 0 %100             |
| 62           | M35       | Z                            | -.248                      | -.248                | 0 %100             |
| 63           | M36       | X                            | -.625                      | -.625                | 0 %100             |
| 64           | M36       | Z                            | -.361                      | -.361                | 0 %100             |
| 65           | MP1A      | X                            | -.541                      | -.541                | 0 %100             |
| 66           | MP1A      | Z                            | -.312                      | -.312                | 0 %100             |
| 67           | M46       | X                            | -.449                      | -.449                | 0 %100             |
| 68           | M46       | Z                            | -.259                      | -.259                | 0 %100             |
| 69           | MP2A      | X                            | -.541                      | -.541                | 0 %100             |
| 70           | MP2A      | Z                            | -.312                      | -.312                | 0 %100             |
| 71           | MP4A      | X                            | -.541                      | -.541                | 0 %100             |
| 72           | MP4A      | Z                            | -.312                      | -.312                | 0 %100             |
| 73           | MP3       | X                            | -.531                      | -.531                | 0 %100             |
| 74           | MP3       | Z                            | -.306                      | -.306                | 0 %100             |
| 75           | M56       | X                            | -.083                      | -.083                | 0 %100             |
| 76           | M56       | Z                            | -.048                      | -.048                | 0 %100             |
| 77           | M57       | X                            | -.083                      | -.083                | 0 %100             |
| 78           | M57       | Z                            | -.048                      | -.048                | 0 %100             |
| 79           | M58       | X                            | -.083                      | -.083                | 0 %100             |
| 80           | M58       | Z                            | -.048                      | -.048                | 0 %100             |
| 81           | M59       | X                            | -.083                      | -.083                | 0 %100             |
| 82           | M59       | Z                            | -.048                      | -.048                | 0 %100             |
| 83           | MP3A      | X                            | -.655                      | -.655                | 0 %100             |
| 84           | MP3A      | Z                            | -.378                      | -.378                | 0 %100             |



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

Oct 18, 2021  
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**Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))**

|    | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|--------------------|
| 1  | M5           | X         | -.046                        | -.046                      | 0                    | %100               |
| 2  | M5           | Z         | -.079                        | -.079                      | 0                    | %100               |
| 3  | M6           | X         | -.003                        | -.003                      | 0                    | %100               |
| 4  | M6           | Z         | -.005                        | -.005                      | 0                    | %100               |
| 5  | M7           | X         | -.283                        | -.283                      | 0                    | %100               |
| 6  | M7           | Z         | -.491                        | -.491                      | 0                    | %100               |
| 7  | M8           | X         | -.046                        | -.046                      | 0                    | %100               |
| 8  | M8           | Z         | -.079                        | -.079                      | 0                    | %100               |
| 9  | M9           | X         | -.003                        | -.003                      | 0                    | %100               |
| 10 | M9           | Z         | -.005                        | -.005                      | 0                    | %100               |
| 11 | FACE         | X         | -.283                        | -.283                      | 0                    | %100               |
| 12 | FACE         | Z         | -.491                        | -.491                      | 0                    | %100               |
| 13 | M11          | X         | -.29                         | -.29                       | 0                    | %100               |
| 14 | M11          | Z         | -.502                        | -.502                      | 0                    | %100               |
| 15 | M12          | X         | -.019                        | -.019                      | 0                    | %100               |
| 16 | M12          | Z         | -.034                        | -.034                      | 0                    | %100               |
| 17 | M13          | X         | -.29                         | -.29                       | 0                    | %100               |
| 18 | M13          | Z         | -.502                        | -.502                      | 0                    | %100               |
| 19 | M14          | X         | -.019                        | -.019                      | 0                    | %100               |
| 20 | M14          | Z         | -.034                        | -.034                      | 0                    | %100               |
| 21 | M15          | X         | -.154                        | -.154                      | 0                    | %100               |
| 22 | M15          | Z         | -.267                        | -.267                      | 0                    | %100               |
| 23 | M16          | X         | -.172                        | -.172                      | 0                    | %100               |
| 24 | M16          | Z         | -.297                        | -.297                      | 0                    | %100               |
| 25 | M17          | X         | -.154                        | -.154                      | 0                    | %100               |
| 26 | M17          | Z         | -.267                        | -.267                      | 0                    | %100               |
| 27 | M18          | X         | -.172                        | -.172                      | 0                    | %100               |
| 28 | M18          | Z         | -.297                        | -.297                      | 0                    | %100               |
| 29 | M19          | X         | -.162                        | -.162                      | 0                    | %100               |
| 30 | M19          | Z         | -.28                         | -.28                       | 0                    | %100               |
| 31 | M20          | X         | -.154                        | -.154                      | 0                    | %100               |
| 32 | M20          | Z         | -.267                        | -.267                      | 0                    | %100               |
| 33 | M21          | X         | -.154                        | -.154                      | 0                    | %100               |
| 34 | M21          | Z         | -.267                        | -.267                      | 0                    | %100               |
| 35 | M22          | X         | -.227                        | -.227                      | 0                    | %100               |
| 36 | M22          | Z         | -.393                        | -.393                      | 0                    | %100               |
| 37 | M23          | X         | -.227                        | -.227                      | 0                    | %100               |
| 38 | M23          | Z         | -.393                        | -.393                      | 0                    | %100               |
| 39 | M24          | X         | -.248                        | -.248                      | 0                    | %100               |
| 40 | M24          | Z         | -.43                         | -.43                       | 0                    | %100               |
| 41 | M25          | X         | -.162                        | -.162                      | 0                    | %100               |
| 42 | M25          | Z         | -.28                         | -.28                       | 0                    | %100               |
| 43 | M26          | X         | -.154                        | -.154                      | 0                    | %100               |
| 44 | M26          | Z         | -.267                        | -.267                      | 0                    | %100               |
| 45 | M27          | X         | -.244                        | -.244                      | 0                    | %100               |
| 46 | M27          | Z         | -.422                        | -.422                      | 0                    | %100               |
| 47 | M28          | X         | -.154                        | -.154                      | 0                    | %100               |
| 48 | M28          | Z         | -.267                        | -.267                      | 0                    | %100               |
| 49 | M29          | X         | -.244                        | -.244                      | 0                    | %100               |
| 50 | M29          | Z         | -.422                        | -.422                      | 0                    | %100               |
| 51 | M30          | X         | -.162                        | -.162                      | 0                    | %100               |
| 52 | M30          | Z         | -.28                         | -.28                       | 0                    | %100               |
| 53 | M31          | X         | -.154                        | -.154                      | 0                    | %100               |
| 54 | M31          | Z         | -.267                        | -.267                      | 0                    | %100               |
| 55 | M32          | X         | -.154                        | -.154                      | 0                    | %100               |
| 56 | M32          | Z         | -.267                        | -.267                      | 0                    | %100               |
| 57 | M33          | X         | -.227                        | -.227                      | 0                    | %100               |



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

| Member Label | Direction | Start Magnitude[lb/ft] | End Magnitude[lb/ft,F,ksf] | Start Location[ft,%] | End Location[ft,%] |
|--------------|-----------|------------------------|----------------------------|----------------------|--------------------|
| 58           | M33       | Z                      | -.393                      | -.393                | 0 %100             |
| 59           | M34       | X                      | -.227                      | -.227                | 0 %100             |
| 60           | M34       | Z                      | -.393                      | -.393                | 0 %100             |
| 61           | M35       | X                      | -.248                      | -.248                | 0 %100             |
| 62           | M35       | Z                      | -.43                       | -.43                 | 0 %100             |
| 63           | M36       | X                      | -.162                      | -.162                | 0 %100             |
| 64           | M36       | Z                      | -.28                       | -.28                 | 0 %100             |
| 65           | MP1A      | X                      | -.312                      | -.312                | 0 %100             |
| 66           | MP1A      | Z                      | -.541                      | -.541                | 0 %100             |
| 67           | M46       | X                      | -.13                       | -.13                 | 0 %100             |
| 68           | M46       | Z                      | -.225                      | -.225                | 0 %100             |
| 69           | MP2A      | X                      | -.312                      | -.312                | 0 %100             |
| 70           | MP2A      | Z                      | -.541                      | -.541                | 0 %100             |
| 71           | MP4A      | X                      | -.312                      | -.312                | 0 %100             |
| 72           | MP4A      | Z                      | -.541                      | -.541                | 0 %100             |
| 73           | MP3       | X                      | -.306                      | -.306                | 0 %100             |
| 74           | MP3       | Z                      | -.531                      | -.531                | 0 %100             |
| 75           | M56       | X                      | -.016                      | -.016                | 0 %100             |
| 76           | M56       | Z                      | -.028                      | -.028                | 0 %100             |
| 77           | M57       | X                      | -.016                      | -.016                | 0 %100             |
| 78           | M57       | Z                      | -.028                      | -.028                | 0 %100             |
| 79           | M58       | X                      | -.016                      | -.016                | 0 %100             |
| 80           | M58       | Z                      | -.028                      | -.028                | 0 %100             |
| 81           | M59       | X                      | -.016                      | -.016                | 0 %100             |
| 82           | M59       | Z                      | -.028                      | -.028                | 0 %100             |
| 83           | MP3A      | X                      | -.378                      | -.378                | 0 %100             |
| 84           | MP3A      | Z                      | -.655                      | -.655                | 0 %100             |

**Member Area Loads**

| Joint A              | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|----------------------|---------|---------|---------|-----------|--------------|----------------|
| No Data to Print ... |         |         |         |           |              |                |

**Envelope Joint Reactions**

| Joint | X [lb]  | LC  | Y [lb]    | LC | Z [lb]   | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |       |    |
|-------|---------|-----|-----------|----|----------|----|-----------|----|-----------|----|-----------|----|-------|----|
| 1     | N4      | max | 1804.055  | 10 | 1234.361 | 17 | 1969.476  | 12 | -.064     | 11 | 0         | 51 | .076  | 29 |
| 2     |         | min | -1570.749 | 4  | 182.652  | 11 | -4369.127 | 6  | -.371     | 17 | 0         | 1  | -.064 | 11 |
| 3     | N65     | max | 1102.625  | 30 | 1158.941 | 17 | 3019.727  | 13 | -.049     | 11 | 0         | 51 | .078  | 29 |
| 4     |         | min | -778.554  | 49 | 177.071  | 11 | 241.63    | 7  | -.355     | 17 | 0         | 1  | -.052 | 11 |
| 5     | N68     | max | 319.348   | 11 | 658.487  | 11 | 2184.774  | 5  | .138      | 11 | 0         | 51 | .014  | 10 |
| 6     |         | min | -302.17   | 5  | -591.24  | 5  | -2186.711 | 11 | -.26      | 5  | 0         | 1  | -.025 | 4  |
| 7     | Totals: | max | 1893.035  | 10 | 2318.984 | 17 | 2614.775  | 1  |           |    |           |    |       |    |
| 8     |         | min | -1893.049 | 4  | 1018.21  | 11 | -2614.779 | 7  |           |    |           |    |       |    |

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

| Member | Shape | Code Check | Loc[ft] | LC   | Shear Ch... | Loc[ft] | Dir  | LC | phi*Pnc ... | phi*Pnt [...] | phi*Mn y... | phi*Mn z... | Cb    | Eqn   |       |
|--------|-------|------------|---------|------|-------------|---------|------|----|-------------|---------------|-------------|-------------|-------|-------|-------|
| 1      | M24   | PIPE 2.0   | .974    | 1.69 | 5           | .152    | 2.75 | 5  | 29344.85    | 32130         | 1.872       | 1.872       | 1...  | H1-1b |       |
| 2      | M57   | SR 0.625   | .888    | 0    | 10          | .169    | 0    | 10 | 8658.855    | 9940.196      | .104        | .104        | 2...  | H1-1b |       |
| 3      | M56   | SR 0.625   | .886    | 0    | 4           | .165    | 0    | 10 | 8658.855    | 9940.196      | .104        | .104        | 2...  | H1-1b |       |
| 4      | M25   | PL3/8X3.5  | .832    | .333 | 5           | .083    | .333 | y  | 5           | 33887.6       | 36450       | .284        | 2.083 | 1...  | H1-1b |
| 5      | M19   | PL3/8X3.5  | .544    | 0    | 11          | .046    | 0    | y  | 11          | 33887.6       | 36450       | .284        | 2.083 | 1...  | H1-1b |
| 6      | M5    | PL3/8X3.5  | .525    | 0    | 21          | .047    | 0    | z  | 41          | 34985.7...    | 36450       | .284        | 2.014 | 1...  | H1-1b |
| 7      | M6    | PL3/8X3.5  | .523    | 0    | 5           | .067    | .25  | y  | 11          | 34985.7...    | 36450       | .284        | 2.016 | 1...  | H1-1b |



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468399-VZW\_MT\_LOT\_SectorA\_H

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

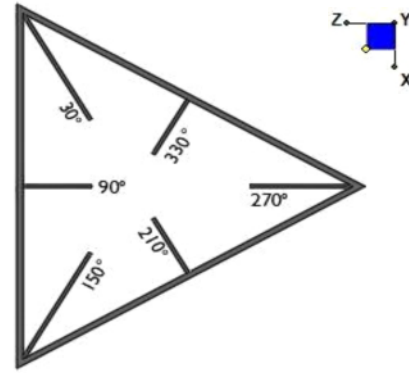
| Member | Shape | Code Check | Loc[ft] | LC     | Shear Ch... | Loc[ft] | Dir   | LC | phi*Pnc    | phi*Pnt    | phi*Mn y | phi*Mn z | Cb         | Eqn       |
|--------|-------|------------|---------|--------|-------------|---------|-------|----|------------|------------|----------|----------|------------|-----------|
| 8      | M8    | PL3/8X3.5  | .509    | 0      | 24          | .054    | 0     | y  | 6          | 34985.7... | 36450    | .284     | 2.043      | 1...H1-1b |
| 9      | M9    | PL3/8X3.5  | .496    | 0      | 28          | .072    | 0     | z  | 27         | 34985.7... | 36450    | .284     | 1.974      | 1...H1-1b |
| 10     | M59   | SR 0.625   | .424    | .667   | 20          | .037    | 0     | 22 | 8658.855   | 9940.196   | .104     | .104     | 2...H1-1b  |           |
| 11     | M58   | SR 0.625   | .393    | .667   | 18          | .035    | 0     | 22 | 8658.855   | 9940.196   | .104     | .104     | 2...H1-1b  |           |
| 12     | M13   | PIPE 2.0   | .274    | .557   | 13          | .088    | 5.381 | 48 | 21054.34   | 32130      | 1.872    | 1.872    | 2...H1-1b  |           |
| 13     | M7    | PIPE 2.5   | .265    | 2.167  | 7           | .114    | 2.167 | 7  | 13460.4... | 50715      | 3.596    | 3.596    | 2...H1-1b  |           |
| 14     | M14   | PIPE 2.0   | .261    | .557   | 29          | .146    | 5.381 | 11 | 21054.34   | 32130      | 1.872    | 1.872    | 2...H1-1b  |           |
| 15     | MP3A  | PIPE 2.5   | .253    | 4.083  | 7           | .059    | 4.083 | 5  | 30038.4... | 50715      | 3.596    | 3.596    | 4...H1-1b  |           |
| 16     | M12   | PIPE 2.0   | .248    | .495   | 5           | .231    | 5.381 | 5  | 21054.34   | 32130      | 1.872    | 1.872    | 2...H1-1b  |           |
| 17     | M11   | PIPE 2.0   | .246    | .495   | 20          | .076    | 5.381 | 42 | 21054.34   | 32130      | 1.872    | 1.872    | 2...H1-1b  |           |
| 18     | MP1A  | PIPE 2.0   | .239    | 3.583  | 29          | .037    | 7     | 8  | 14916.0... | 32130      | 1.872    | 1.872    | 1...H1-1b  |           |
| 19     | M46   | PIPE 2.0   | .234    | 0      | 5           | .023    | 4.451 | 6  | 25337.4... | 32130      | 1.872    | 1.872    | 2...H1-1b  |           |
| 20     | MP4A  | PIPE 2.0   | .222    | 3.583  | 8           | .061    | 3.583 | 6  | 14916.0... | 32130      | 1.872    | 1.872    | 2...H1-1b  |           |
| 21     | FACE  | PIPE 2.5   | .154    | 10.833 | 36          | .079    | 2.167 | 37 | 13460.4... | 50715      | 3.596    | 3.596    | 2...H1-1b  |           |
| 22     | MP3   | PIPE 2.0   | .132    | .346   | 6           | .273    | .346  | 5  | 24514.6... | 32130      | 1.872    | 1.872    | 3...H1-1b  |           |
| 23     | MP2A  | PIPE 2.0   | .109    | 3.75   | 40          | .026    | .365  | 7  | 23808.54   | 32130      | 1.872    | 1.872    | 1...H1-1b  |           |
| 24     | M23   | PIPE 1.5   | .076    | 3.167  | 29          | .007    | 0     | 9  | 19531.7... | 23593.5    | 1.105    | 1.105    | 1...H1-1b* |           |
| 25     | M34   | PIPE 1.5   | .073    | 3.167  | 22          | .008    | 3.167 | 23 | 19531.7... | 23593.5    | 1.105    | 1.105    | 1...H1-1b* |           |
| 26     | M28   | PL3/8X3.5  | .073    | 0      | 44          | .026    | 0     | y  | 20         | 36078.2... | 36450    | .284     | 2.083      | 1...H1-1b |
| 27     | M32   | PL3/8X3.5  | .070    | .125   | 47          | .026    | .125  | y  | 20         | 36078.2... | 36450    | .284     | 2.083      | 1...H1-1b |
| 28     | M17   | PL3/8X3.5  | .069    | 0      | 11          | .020    | 0     | y  | 11         | 36078.2... | 36450    | .284     | 2.083      | 1...H1-1b |
| 29     | M21   | PL3/8X3.5  | .061    | 0      | 6           | .020    | .125  | y  | 11         | 36078.2... | 36450    | .284     | 2.083      | 1...H1-1b |
| 30     | M27   | PIPE 1.5   | .055    | 2.092  | 13          | .013    | 4.185 | 5  | 16962.3... | 23593.5    | 1.105    | 1.105    | 1...H1-1b  |           |
| 31     | M26   | PL3/8X3.5  | .052    | 0      | 44          | .067    | 0     | y  | 29         | 36078.2... | 36450    | .284     | 2.083      | 1...H1-1b |
| 32     | M31   | PL3/8X3.5  | .049    | .125   | 47          | .067    | .125  | y  | 29         | 36078.2... | 36450    | .284     | 2.083      | 1...H1-1b |
| 33     | M16   | PIPE 1.5   | .046    | 2.092  | 3           | .018    | 0     | 11 | 16962.3... | 23593.5    | 1.105    | 1.105    | 1...H1-1b  |           |
| 34     | M36   | PL3/8X3.5  | .045    | .333   | 41          | .007    | .333  | y  | 37         | 33887.6    | 36450    | .284     | 2.083      | 1...H1-1b |
| 35     | M29   | PIPE 1.5   | .043    | 2.092  | 13          | .013    | 4.185 | 1  | 16962.3... | 23593.5    | 1.105    | 1.105    | 1...H1-1b  |           |
| 36     | M33   | PIPE 1.5   | .042    | 3.167  | 14          | .017    | 0     | 29 | 19531.7... | 23593.5    | 1.105    | 1.105    | 1...H1-1b* |           |
| 37     | M30   | PL3/8X3.5  | .042    | 0      | 47          | .007    | 0     | y  | 37         | 33887.6    | 36450    | .284     | 2.083      | 1.6 H1-1b |
| 38     | M22   | PIPE 1.5   | .041    | 3.167  | 29          | .016    | 0     | 28 | 19531.7... | 23593.5    | 1.105    | 1.105    | 1...H1-1b* |           |
| 39     | M20   | PL3/8X3.5  | .040    | .125   | 5           | .063    | .125  | y  | 29         | 36078.2... | 36450    | .284     | 2.083      | 1...H1-1b |
| 40     | M18   | PIPE 1.5   | .039    | 2.049  | 26          | .011    | 0     | 12 | 16962.3... | 23593.5    | 1.105    | 1.105    | 1...H1-1b  |           |
| 41     | M15   | PL3/8X3.5  | .030    | 0      | 11          | .063    | 0     | y  | 29         | 36078.2... | 36450    | .284     | 2.083      | 1...H1-1b |
| 42     | M35   | PIPE 2.0   | .021    | 0      | 17          | .002    | 0     | 12 | 29344.85   | 32130      | 1.872    | 1.872    | 1...H1-1b* |           |



### I. Mount-to-Tower Connection Check

RISA Model Data

| Nodes<br>(labeled per RISA) | Orientation<br>(per graphic of typical platform) |
|-----------------------------|--|
|                             |  |
|                             |  |
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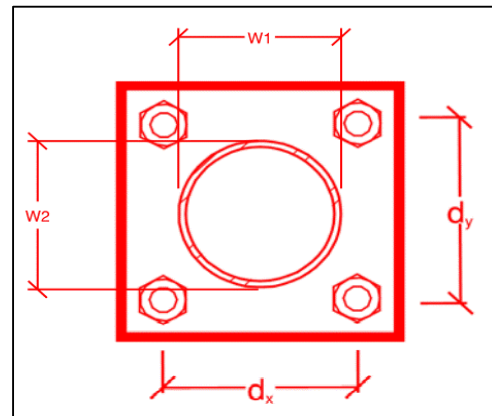


TYPICAL PLATFORM

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    |
|        |
|        |
|        |
| U-Bolt |
|        |
|        |
|        |
|        |
|        |
|        |



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

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

### Documents & Photos Required from Contractor Passing Mount Analysis

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to [pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

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

Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.

Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

### **Base Requirements:**

If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.

Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown.

NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.

Each photo should be time and date stamped

Photos should be high resolution.

Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.

The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

### **Photo Requirements:**

#### **Photos taken at ground level**

- Photo of Gate Signs showing the tower owner, site name, and number.
- Overall tower structure after installation.
- Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.

#### **Photos taken at Mount Elevation**

- Photos showing the safety climb wire rope above and below the mount prior to installation.
- Photos showing the climbing facility and safety climb if present.



- Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.
  - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

**Antenna & equipment placement and Geometry Confirmation:**

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

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

**Issue:**

Contractor to install new 96" Long P2 1/2 STD Pipe connected existing position 3 pipe using back-to-back clamp (Site Pro 1: DCP12K). Pipe to be installed to same elevation as existing position 4 pipe. Brackets to be installed 10" from the top of the existing mount pipe and 17" from the bottom of the existing pipe.

Proposed RF4440d-13A to be installed on existing 5' pipe in position 3 in each sector.

**Response:**

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

Yes     

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

Yes     

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

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

**Comments:**

|  |
|--|
|  |
|--|

- All hardware has been properly installed, and the existing hardware was inspected.
  - The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.
  - The material utilized was approved by a SMART Tool as an “equivalent” and this approval is included as part of the contractor submission.

**Antenna & equipment placement and Geometry Confirmation:**

- The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.
- The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

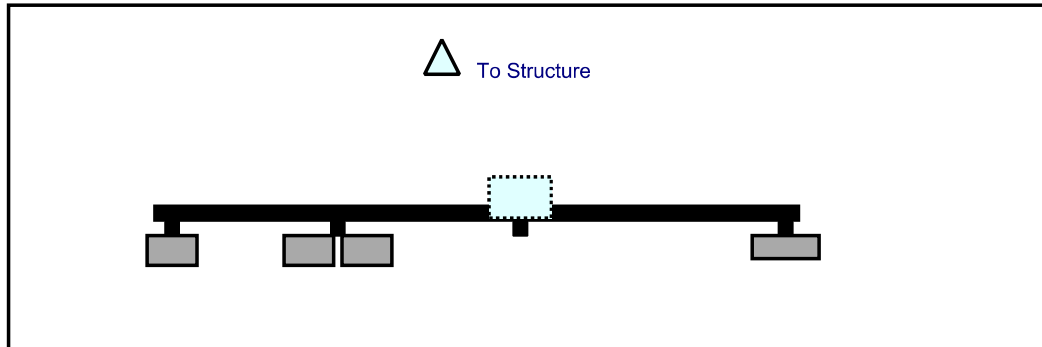
**Special Instruction Confirmation:**

- The contractor has read and acknowledges the above special instructions.

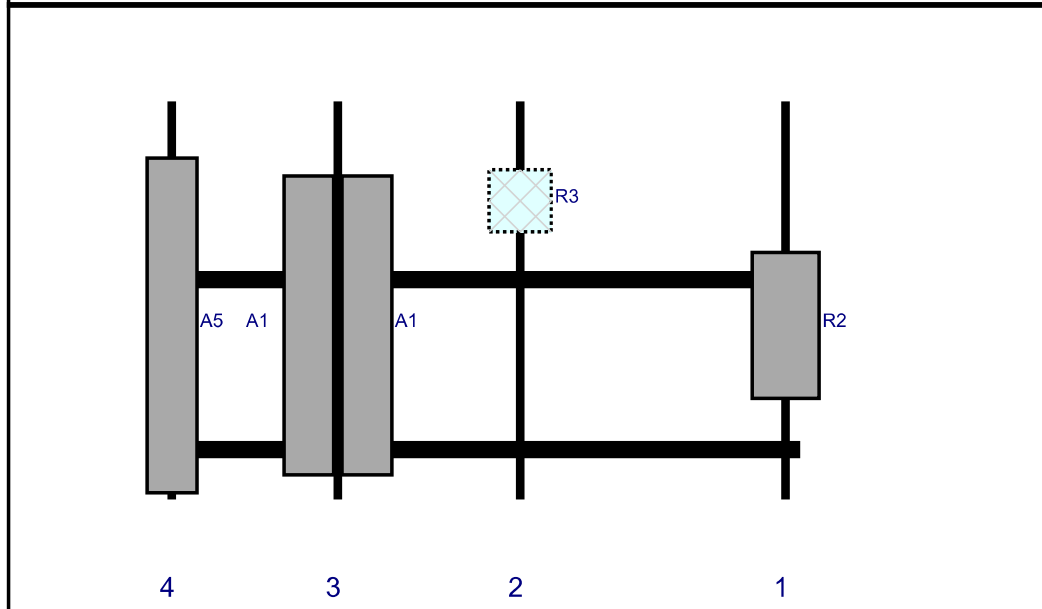
**Certifying Individual:**

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

Plan View

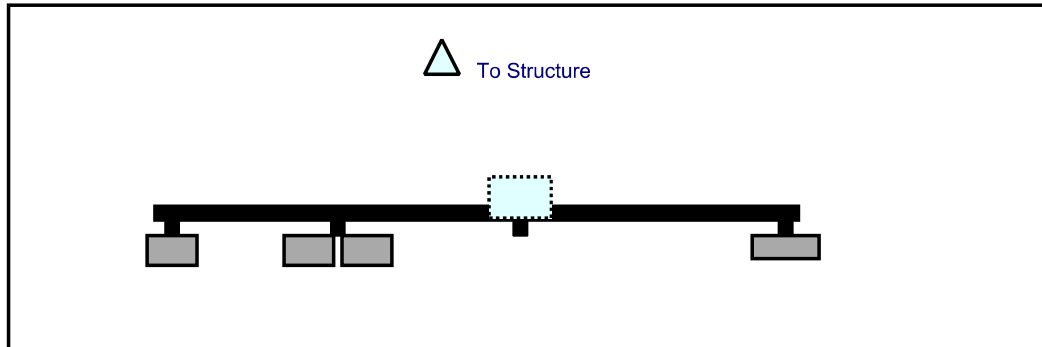


Front View  
Looking at Structure

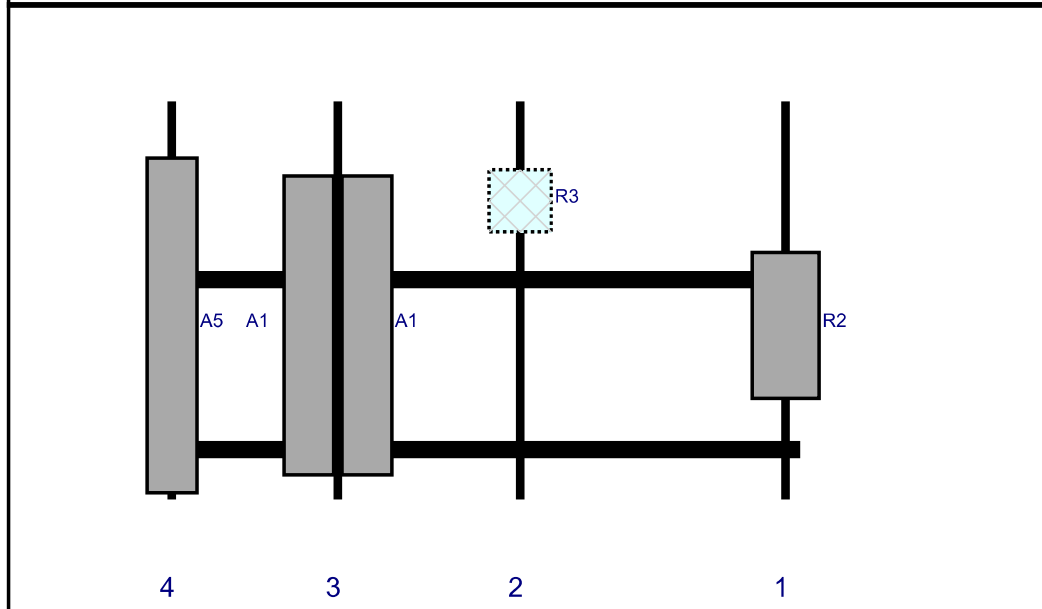


| Ref# | Model          | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status   | Validation |
|------|----------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| R2   | MT6407-77A     | 35.1        | 16.1       | 152.5         | 1      | a          | Front   | 54            | 0         | Added    |            |
| R3   | RF4439d-25A    | 15          | 15         | 88.5          | 2      | a          | Behind  | 24            | 0         | Added    |            |
| A1   | NHH-65B-R2B    | 72          | 11.9       | 44.5          | 3      | a          | Front   | 54            | -7        | Added    |            |
| A1   | NHH-65B-R2B    | 72          | 11.9       | 44.5          | 3      | b          | Front   | 54            | 7         | Added    |            |
| A5   | LNx-6514DS-A1M | 80.6        | 11.9       | 4.5           | 4      | a          | Front   | 54            | 0         | Retained | 06/08/2021 |

Plan View

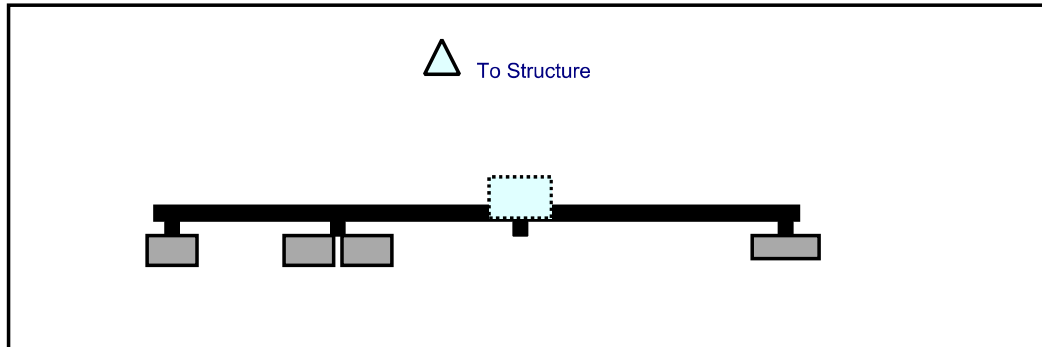


Front View  
Looking at Structure

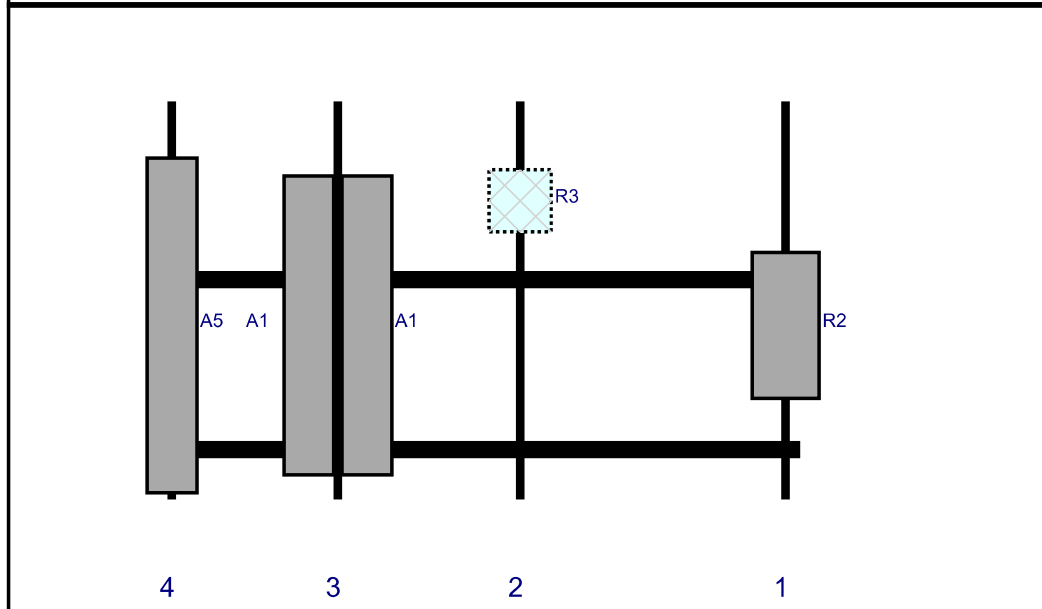


| Ref# | Model          | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status   | Validation |
|------|----------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| R2   | MT6407-77A     | 35.1        | 16.1       | 152.5         | 1      | a          | Front   | 54            | 0         | Added    |            |
| R3   | RF4439d-25A    | 15          | 15         | 88.5          | 2      | a          | Behind  | 24            | 0         | Added    |            |
| A1   | NHH-65B-R2B    | 72          | 11.9       | 44.5          | 3      | a          | Front   | 54            | -7        | Added    |            |
| A1   | NHH-65B-R2B    | 72          | 11.9       | 44.5          | 3      | b          | Front   | 54            | 7         | Added    |            |
| A5   | LNx-6514DS-A1M | 80.6        | 11.9       | 4.5           | 4      | a          | Front   | 54            | 0         | Retained | 06/08/2021 |

Plan View



Front View  
Looking at Structure



| Ref# | Model          | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status   | Validation |
|------|----------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|----------|------------|
| R2   | MT6407-77A     | 35.1        | 16.1       | 152.5         | 1      | a          | Front   | 54            | 0         | Added    |            |
| R3   | RF4439d-25A    | 15          | 15         | 88.5          | 2      | a          | Behind  | 24            | 0         | Added    |            |
| A1   | NHH-65B-R2B    | 72          | 11.9       | 44.5          | 3      | a          | Front   | 54            | -7        | Added    |            |
| A1   | NHH-65B-R2B    | 72          | 11.9       | 44.5          | 3      | b          | Front   | 54            | 7         | Added    |            |
| A5   | LNx-6514DS-A1M | 80.6        | 11.9       | 4.5           | 4      | a          | Front   | 54            | 0         | Retained | 06/08/2021 |

# Maser Consulting Connecticut

**Subject***TIA-222-H Adoption and Wind Speed Usage***Site Information**

*Site ID: 468399-VZW / MONTVILLE CT  
Site Name: MONTVILLE CT  
Carrier Name: Verizon Wireless  
Address: 695 Old Colchester Rd.  
Uncasville, Connecticut 06382  
New London County  
Latitude: 41.453111111°  
Longitude: -72.15402778°*

**Structure Information**

*Tower Type: 350-Ft Guyed  
Mount Type: 13.00-Ft Sector Frame*

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. The 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.

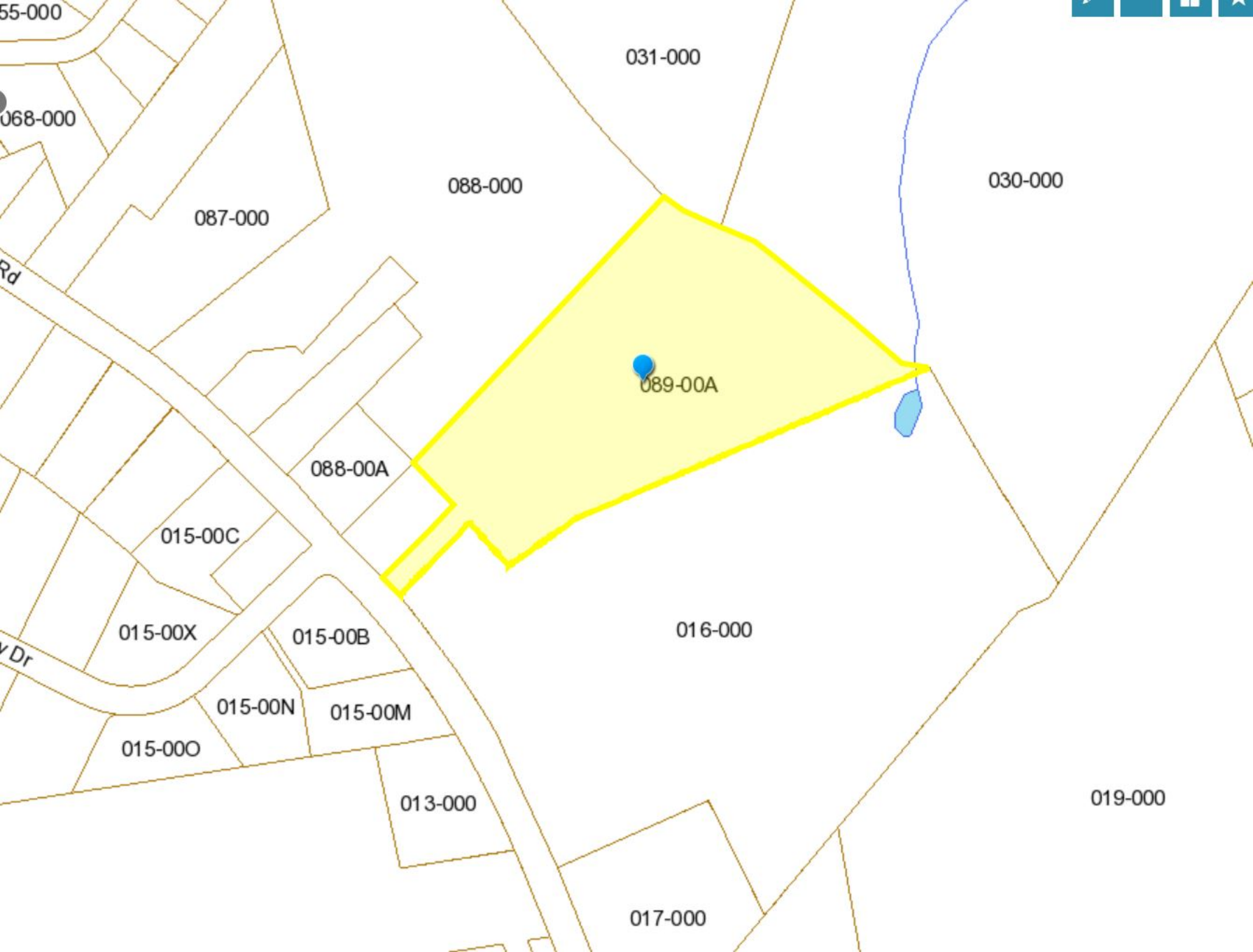
The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural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

Sincerely,



Eric Anderson, PE  
Technical Specialist

# **ATTACHMENT 5**



55-000

068-000

031-000

088-000

030-000

087-000

Rd

089-00A

088-00A

015-00C

015-00X

015-00B

016-000

vDr

015-00N

015-00M

015-000

013-000

019-000

017-000





**Property Card: 689 OLD COLCHESTER RD**  
Town of Montville, CT

**Parcel Information**

|            |                       |                |             |                |                  |
|------------|-----------------------|----------------|-------------|----------------|------------------|
| Location:  | 689 OLD COLCHESTER RD | Property Use:  | Industrial  | Primary Use:   | Utility Building |
| Unique ID: | Z0252300              | Map Block Lot: | 030-089-00A | Acres:         | 8.3              |
|            |                       | Zone:          | R40         | Volume / Page: | 0608/0350        |
|            |                       | Sale Date:     | 08/24/2015  | Sale Price:    | \$777,060        |

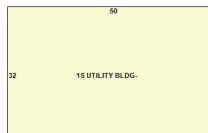
**Value Information**

|                       | Appraised Value | Assessed Value |
|-----------------------|-----------------|----------------|
| Land                  | 117570          | 82300          |
| Buildings             | 271183          | 189830         |
| Detached Outbuildings | 390750          | 273520         |
| <b>Total</b>          | <b>779503</b>   | <b>545650</b>  |

**Owner's Information**

| Owner's Data   |
|--|
| ATLANTIC BROADBAND (CT) LLC<br>TWO BATTERYMARCH PARK STE 205<br>QUINCY, MA 02169 |

**Building 1**





|                     |                     |                  |                   |                    |   |
|---------------------|---------------------|------------------|-------------------|--------------------|---|
| Category:           | Commercial          | Siding:          | Pre-Cast Concrete | Total Rooms:       | 0 |
| Stories:            | 1.00                | Fuel:            | Electric          | Beds/Units:        | 0 |
| GLA:                | 1600                | Heating:         | Forced Hot Air    | Baths:             | 0 |
| Year Built:         | 2008                | Fireplace:       | 0                 |                    |   |
| Class:              | Reinforced Concrete | Cooling Percent: | Central           | Half Baths:        | 0 |
| Use:                | Utility Building    | Floors:          | Concrete          | Basement Garage:   | 0 |
| Construction Style: | Utility Building    | Roof Material:   |                   | Finished Basement: | 0 |

# **ATTACHMENT 6**



**MONTVILLE**  
**Certificate of Mailing — Firm**

|  |   |   |  |
|--|---|---|--|
| Name and Address of Sender<br><br>Kenneth C. Baldwin, Esq.<br>Robinson & Cole LLP<br>280 Trumbull Street<br>Hartford, CT 06103 | TOTAL NO.<br>of Pieces Listed by Sender<br><br><div style="text-align: center; font-size: 2em;">3</div>   | TOTAL NO.<br>of Pieces Received at Post Office™<br><br><div style="text-align: center; font-size: 2em;">3</div> | Affix Stamp Here<br><i>Postmark with Date of Receipt.</i><br><br><div style="text-align: right;"> <p>neopost<sup>3</sup><br/>           12/16/2021<br/> <b>US POSTAGE \$002.99<sup>0</sup></b></p>  <p>ZIP 06103<br/>           041L12203937</p> </div> |
|  | Postmaster, per (name of receiving employee)<br><br><div style="text-align: center;">  </div> |   |  |

| USPS® Tracking Number<br>Firm-specific Identifier | Address<br>(Name, Street, City, State, and ZIP Code™)  | Postage | Fee | Special Handling | Parcel Airlift |
|---|--|---------|-----|------------------|----------------|
| 1.  | Ronald K. McDaniel, Mayor<br>Town of Montville<br>310 Norwich-New London Turnpike<br>Montville, CT 06382 |         |     |                  |                |
| 2.  | Liz Burdick, Town Planner<br>Town of Montville<br>310 Norwich-New London Turnpike<br>Montville, CT 06382 |         |     |                  |                |
| 3.  | Atlantic Broadband (CT) LLC<br>Two Batterymarch Park, Suite 205<br>Quincy, MA 02169                      |         |     |                  |                |
| 4.  |  |         |     |                  |                |
| 5.  |  |         |     |                  |                |
| 6.  |  |         |     |                  |                |

