

January 8, 2024

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
71 Moxley Hill Road, Montville (Uncasville), 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 on an existing tower and related equipment on the ground, near the base of the tower. The original tower was approved by the Town of Montville (the “Town”) in January of 1998. Cellco’s shared use of the tower was approved by the Siting Council in April of 2016 (EM-VER-086-160311). A copy of the Town’s approval and Cellco’s EM-VER-086-160311 approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing nine (9) antennas and six (6) remote radio heads (“RRHs”) with nine (9) new antennas and six (6) new RRHs on Cellco’s existing antenna mounting structure. A set of project plans showing Cellco’s proposed facility modifications and the new antenna and RRH specifications are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Montville’s Chief Elected Official and Land Use Officer. A copy of this letter is also being sent to the owner of the Property.

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 new antennas and RRHs will be installed at the same height on the tower.

28593369-v1

Melanie A. Bachman, Esq.
January 8, 2024
Page 2

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. Included in Attachment 3 is a Calculated Radio Frequency Emissions Report demonstrating that the proposed modified facility will comply with the FCC safety standards. 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 Report ("SA")¹ and Antenna Mount Analysis Report ("MA"), the existing tower, tower foundation and antenna mounts 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).

Sincerely,



Kenneth C. Baldwin

Enclosures
Copy to:

Leonard Bunnell Sr., Mayor
Meredith Badalucca, Assistant Planner
Ernest and Walter Wainwright, Property Owner
Aleksey Tyurin

¹ In addition to the new antenna described above, the SA includes three (3) BXA-70063-6CF antennas in the final loading table. These antennas are "place holders" for leasing purposes and will not be installed as a part of the modification proposal. The MA does not include these place-holder antennas.

ATTACHMENT 1

TEL: 848-254
FAX: 848-2354

**TOWN OF MONTVILLE
PLANNING & ZONING COMMISSION**

310 NORWICH-NEW LONDON TPKE.
UNCASVILLE, CONNECTICUT 06382-2599

FAXED

LEGAL NOTICE

The Montville Planning and Zoning Commission at its meeting held on January 13, 1998, took the following action:

APPROVED site plan for **Wireless Solutions, Ltd./Walter & Ernest Wainwright** to construct a 190' radio tower and antenna for wireless communication purposes with appropriate guide wires and chain link fence with four small utility sheds and driveway on property located at 71 Moxley Road, Montville, Ct. Shown on Assessor's Map 17, Lot 12.

Maps and documentation concerning the above applications are on file in the office of the Town Planner, Town Hall Annex, Montville, Ct.

Dated at Montville, Ct. this 14th day of January, 1998.

MONTVILLE PLANNING AND ZONING COMMISSION

Gregory Majewski, Chairman

PUBLISH IN THE NEW LONDON DAY, January 16, 1998

PLEASE REFERENCE PURCHASE ORDER 6100 G 1 ON INVOICE.

TOWN OF MONTVILLE
PLANNING DEPARTMENT
STAFF REPORT

DATE: 01/13/98

APPLICANT: WIRELESS SOLUTIONS LLC.

OWNER: ERNEST & WALTER JR., WAINWRIGHT

ADDRESS: 71 MOXLEY ROAD MONTVILLE, CT..

ASSESSOR'S MAP # 17 LOT #2

TYPE: SITE PLAN

| | REQUIRED | PROVIDED |
|-----------------------|-------------|--------------------------|
| LIGHT INDUSTRIAL ZONE | 80,000 SF | 623,000SF/LEASEHOLD AREA |
| FRONTAGE | 200 FEET | 558.64 FEET |
| SETBACKS FRONT/REAR | 50 FT/50 FT | 50 FT/50 FT |
| SETBACKS SIDE | 30 FT | 30 FT |
| WATER & SEWER | | WELL & SEPTIC |

COMMENTS
ASSISTANT PLANNER

APPLICATION IS TO CONSTRUCT A 190' RADIO TRANSMISSION AND RECEIVING TOWER IN A LIGHT INDUSTRIAL ZONE. USE IS PERMITTED UNDER SECTION 13.2.6 OF THE REGULATIONS. THE APPLICATION AND SITE PLAN MAP MEET THE REQUIREMENTS OF THE REGULATIONS.

THE TELECOMMUNICATIONS ACT OF 1996 HAS EMPOWERED THE LOCAL AUTHORITY TO DETERMINE THE LOCATION OF TOWERS PROVIDED THEY DO NOT RESTRICT COMPETITION OR INTERFERE WITH THE SEAMLESS WEB NEEDED TO PROVIDE SERVICE.

A NEW TOWER PERMIT HAS BEEN ISSUED TO WIRELESS COMMUNICATION ON PROPERTY AT 57 COOK DR. OWNED BY ROBERT KINGSBOROUGH. THIS LOCATION IS IN CLOSE PROXIMITY TO TWO OTHER TOWERS, OWNED BY SNET AND WICH. THE LOCATION NEXT TO THESE TOWERS WAS A CONSIDERATION IN GRANTING THE PERMIT. WIRELESS SOLUTIONS IS NOT A LICENSED PROVIDER. WIRELESS SOLUTIONS OWNS TOWERS AND LEASES SPACE ON THE TOWERS FOR EQUIPMENT. APPLICANT WILL SHOW HIS PROPOSED COVERAGE AREA AND HIS LEASE AGREEMENT. THIS WAS REQUESTED BY THE COMMISSION AT THE 12/9/97 MEETING.

TWO PERMITS HAVE BEEN ISSUED BY THIS OFFICE IN THE PAST YEAR FOR EQUIPMENT TO BE INSTALLED ON EXISTING STRUCTURES. THE PERMITS TO TECHSTAR COMMUNICATIONS WERE ISSUED FOR PROPERTY LOCATED AT RICHARD BROWN DR. AND GAY HILL RD.. THE RICHARD BROWN DR. PROPERTY IS OWNED BY HE CITY OF NORWICH DEPARTMENT OF PUBLIC UTILITIES. THE EQUIPMENT IS MOUNTED ON TOP OF THE WATER TOWER. AT THE GAY HILL ROAD SITE THE EQUIPMENT IS MOUNTED ON AN EXISTING 190' TOWER OWNED BY HALL COMMUNICATIONS (WNLC). SEE MAPS OF COVERAGE AREA AND LETTER ATTACHED.

RECOMMENDATIONS:

THE MAP AND LETTER PROVIDED BY TECHSTAR INDICATES THAT THE COVERAGE AREA PROPOSED BY WIRELESS SOLUTIONS IS ALREADY PROVIDED BY THE PIE HILL SITE. HALL COMMUNICATIONS HAS INDICATED BY PROVIDING SPACE THAT THE TOWER IS AVAILABLE FOR OTHER PROVIDERS. THERE DOES NOT APPEAR TO BE ANY NEED AT PRESENT TO ERECT AN ADDITIONAL TOWER IN THIS AREA OF THE TOWN OF MONTVILLE.

UNDER THE TELECOMMUNICATIONS ACT OF 1996 THE TWO MOST IMPORTANT PARTS NOT TO RESTRICT COMPETITION OR INTERFERE WITH THE SEAMLESS WEB NEEDED TO PROVIDE SERVICE, ARE ALREADY PROVIDE FOR IN THIS AREA OF THE TOWN.



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
www.ct.gov/csc

April 4, 2016

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

RE: **EM-VER-086-160311** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 71 Moxley Road, Montville, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. The proposed feed lines and diplexers shall be installed in accordance with the structural analysis report prepared by Velocitel, Inc. dated April 22, 2015 and stamped by Dennis D. Abel;
2. Reinforcements shall be made in accordance and consistent with the structural analysis report and modification drawings prepared by Velocitel, Inc. dated April 22, 2015 and stamped by Dennis D. Abel;
3. Within 45 days following completion of the equipment installation, Verizon shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the structural analysis;
4. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
5. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
6. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
7. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by Cellco shall be removed within 60 days of the date the antenna ceased to function;
8. The validity of this action shall expire one year from the date of this letter; and
9. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated March 10, 2016. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six



decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,



Melanie A. Bachman
Acting Executive Director

MAB/CH/lm

- c: The Honorable Ronald K. McDaniel, Mayor, Town of Montville
- Marcia Vlaun, Town Planner, Town of Montville
- SBA Communications Corporation
- Ernest C. & Walter N. Wainwright, Property Owners

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

UNCASVILLE CT

71 MOXLEY ROAD
UNCASVILLE, CT 06382
NEW LONDON COUNTY

PROJECT TYPE: UPGRADE TO EXISTING WIRELESS TELECOMMUNICATIONS
INSTALLATION ON EXISTING 192 ± GUYED TOWER

FUZE PROJECT NUMBER: 16272079
MDG LOCATION ID: 5000243394

SUPPORTING DOCUMENTS

- RADIO FREQUENCY (RF) DESIGN DATE: 08/11/09
- ANTENNA MOUNT STRUCTURAL ANALYSIS DATE: 11/27/09 (BY COLLEEN ENGINEERING & DESIGN)
- ANTENNA SUPPORT STRUCTURE (GUYED TOWER) STRUCTURAL ANALYSIS DATE: 10/29/03 (BY UPD CONSTRUCTION AND ARCHITECTURING)



20 ALDENBURY AVE, 3RD FLOOR
WILMINGTON, MA 01897
(508) 717-7328



SBA COMMUNICATIONS CORP.
134 E. HANOVER ROAD, SUITE 125
WILMINGTON, MA 01897
(508) 25-0720



CHAPPELL ENGINEERING ASSOCIATES, LLC
P.O. BOX 100
134 E. HANOVER ROAD, SUITE 125
WILMINGTON, MA 01897
(508) 48-7400
www.chappell-engineering.com



DATE: 11/27/09
BY: JTF
CHECKED BY: JTF
APPROVED BY: JTF

| REV | DATE | DESCRIPTION | BY |
|-----|----------|-------------------------|-----|
| 1 | 11/27/09 | ISSUED FOR CONSTRUCTION | JTF |
| 2 | 11/27/09 | ISSUED FOR PERMIT | JTF |

PROJECT NAME & NUMBER
UNCASVILLE CT
71 MOXLEY ROAD
UNCASVILLE, CT 06382

1928 LOCATION CODE: 490808
1928 LOCATION ID: 5000243394
1928 PROJECT ID: 16272079

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T01

SITE INFORMATION

VERIZON MDG LOCATION ID: 5000243394
 VERIZON SITE NAME: UNCASVILLE CT
 FUZE PROJECT ID: 16272079
 SBA SITE NUMBER: CT100161A
 SBA SITE NAME: MONTVILLE, CT
 SBA C/OLO / P/F NUMBER: 241548_V1
 SITE ADDRESS: 71 MOXLEY ROAD
 UNCASVILLE, CT 06382
 PROPERTY OWNER: ERNEST WAINWRIGHT & WALTER WAINWRIGHT, JR.
 149 GREAT NECK ROAD
 WATERBURY, CT 06895
 TOWER OWNER: SBA TOWERS II, LLC
 1000 WASHINGTON ST, SUITE 101
 WASHINGTON, MA 01896
 PHONE: 961-228-9923
 COUNTY: NEW LONDON, CT
 ZONING DISTRICT: (R4) RESIDENTIAL
 STRUCTURE TYPE: GUYED TOWER
 STRUCTURE HEIGHT: 192 ±
 STRUCTURE HEIGHT WAIVER/TOLERANCE: 197 ±
 GROUND ELEVATION: 199 ±
 TOTAL WIRE: 399 ±

CENTER OF EXISTING GUYED TOWER
 N 41° 50' 40" W (41.8327) (NAD 83)
 W 72° 07' 23" E (72.1237) (NAD 83)
 CHAPPELL ENGINEERING ASSOCIATES, LLC
 134 E. HANOVER ROAD, SUITE 101
 WASHINGTON, MA 01896

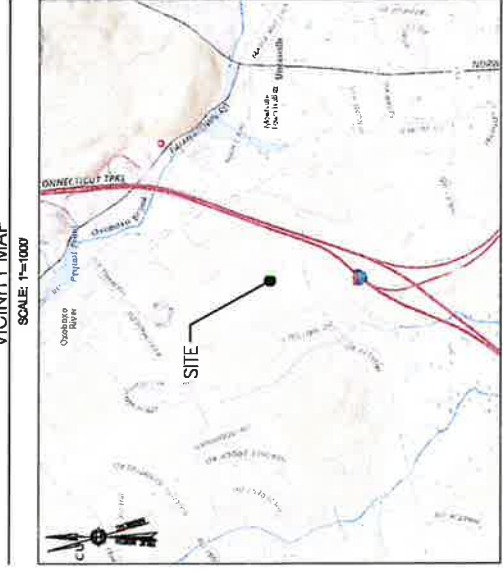
GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON OR SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- NEW CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES:
 - INTERNATIONAL BUILDING CODE
 - ELECTRICAL CODE: 2008 NATIONAL ELECTRICAL CODE
 - STRUCTURAL CODE: TIA/EIA-222-H STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS



AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIS SHEET # 811

VICINITY MAP



DRIVING DIRECTIONS

FROM WALLINGBORO TAKE CT 96 EAST, TURN LEFT ON TOWN STREET, TURN RIGHT ONTO RANDOLPH ROAD, TURN RIGHT ONTO THE CT 9 SOUTH RAMP TOWARD OLD SAYBROOK, MERGE ONTO CT 9 SOUTH, USE LEFT LANE TO MERGE ONTO US 90 NORTH/US 1 NORTH TOWARD NEW LONDON/PROVIDENCE, CONTINUE TO FOLLOW US 90 NORTH, KEEP LEFT AT CT 183 TOWARD UNCASVILLE/MONTVILLE, TURN LEFT ONTO CT 183 SOUTH, TURN RIGHT ONTO JERICHO/NEW LONDON TURNPIKE, TURN RIGHT ONTO MAPLE AVENUE, TURN LEFT ONTO JERICHO ROAD, TURN RIGHT ONTO MOXLEY ROAD, THE SITE IS LOCATED ON THE RIGHT HAND SIDE.

SHEET INDEX

| DWG. | DESCRIPTION | REV. |
|------|------------------------------|------|
| T01 | TITLE SHEET | 1 |
| GN01 | GENERAL NOTES | 1 |
| AS01 | SITE PLAN | 1 |
| AG02 | COMPOUND PLAN | 1 |
| AH04 | TOWER ELEVATIONS | 1 |
| AF01 | RF DATA | 1 |
| RF01 | ANTENNA PLANS & SITE DETAILS | 1 |
| RF02 | RF FLOORING DIMS/RM | 1 |
| RF03 | RF COLOR CODE SPECIFICATIONS | 1 |
| ED01 | GROUNDING NOTES & DETAILS | 1 |

DO NOT SCALE DRAWINGS

ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS AT THE PROPOSED PROJECT SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DISCREPANCIES THAT MAY BE NOTICED IN THE FIELD PRIOR TO PROCEEDING WITH THE PROPOSED WORK. IN THE EVENT OF SUCH DISCREPANCIES, IN THE EVENT OF LACK OF SUCH NOTIFICATION, SUCH DISCREPANCIES SHALL BECOME THE RESPONSIBILITY OF THE PREVAILING CONTRACTOR RESPONSIBLE FOR CONSTRUCTION.

PROJECT DESCRIPTION

- THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT INSTALLATION AND WILL BE USED FOR THE PURPOSE OF PROVIDING PUBLIC WIRELESS TELECOMMUNICATIONS SERVICE.
- THIS FACILITY DOES NOT, NOR WILL IT CONSUME UNRECOVERABLE ENERGY.
- NO PASTING, WATER SUPPLY IS OR WILL BE PROVIDED AT THIS LOCATION.
- NO WASTE IS TO BE GENERATED AT THIS LOCATION.
- NO SOLID WASTE IS TO BE GENERATED AT THIS LOCATION.

SCOPE OF WORK

- REMARKS:
- 12 ANTENNAS
 - 6 RADIOS
 - 1 JACK BOX (OVF)
 - 1 COAXIAL CABLE
- INSTALL:
- 6 ANTENNAS
 - 6 RADIOS
 - 1 JUNCTION BOX (OVF)
 - 1 TRIPLEX CABLE



24 HOURS OF SERVICE
800-999-9999
(800) 711-7320



SM COMMUNICATIONS CORP.
134 FARMERS ROAD, SUITE 123
UNIONVILLE, CT 06081
(860) 251-0720



CAMPBELL
ENGINEERING
ASSOCIATES, LLC
P.O. EXECUTIVE CENTER
HARTFORD, CT 06103
(860) 487-2400
www.campbell-engineering.com



| | |
|--------------|----------|
| DESIGNED BY: | AMT |
| APPROVED BY: | AMT |
| DATE: | 12/14/10 |

| SUBMITTALS | |
|------------|-------------------------------------|
| NO. | DESCRIPTION |
| 1 | 1. 12/14/10 ROAD AND CONNECTION LOG |
| 2 | 2. 12/14/10 ROAD AND CONNECTION LOG |

PROJECT NAME & NUMBER
UNCASVILLE CT
71 MOXLEY ROAD
UNCASVILLE, CT 06082

VIN LOCATION CODE: 400000
VMS LOCATION ID: 0000000000
FILE PROJECT ID: 1000000000

SHEET TITLE
SITE PLAN

SHEET NUMBER
A01





20 HAVENWOOD DR., 2ND FLOOR
MILFORD, CT 06455
(203) 744-7338



SBA COMMUNICATIONS CORP.
134 PLUMMER ROAD, SUITE 110
MILFORD, CT 06455
(203) 252-2122



CAMPBELL ENGINEERING, LLC
A.E. DICKINS CENTER
WALLINGTON, MA 01724
(508) 89-7240
www.campbellengineering.com



CHECKED BY: [Signature]
APPROVED BY: [Signature]

| REV | DATE | DESCRIPTION |
|-----|----------|-------------------------|
| 1 | 12/27/20 | ISSUED FOR CONSTRUCTION |
| 2 | 12/17/20 | ISSUED FOR PERMITS |

PROJECT NAME & NUMBER
UNCASVILLE CT
71 MOXLEY ROAD
UNCASVILLE, CT 06032

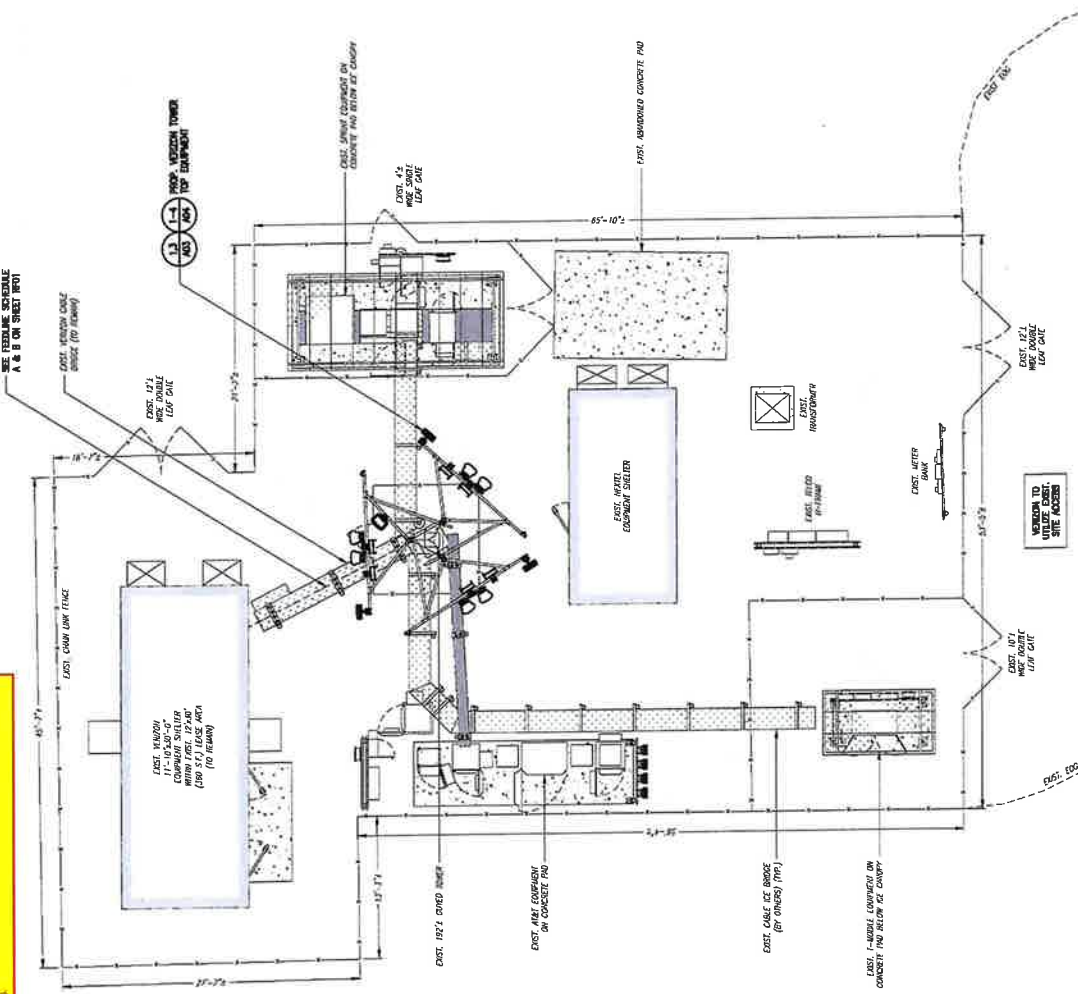
VEP LOCATION CODE: 000000
SBO LOCATION ID: 00000000
PZE PROJECT ID: 10000000

COMPUND PLAN
SHEET TITLE

SHEET NUMBER
A02

SPECIAL PRE-CONSTRUCTION WORK NOTE: ASB-PROVIDED TOWER STRUCTURAL ANALYSIS, SPECIAL EQUIPMENT INSTALLATION RECOMMENDATIONS FROM GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANTENNA MOUNT STRUCTURAL ADJUSTMENTS (STRUCTURAL MODIFICATIONS) AT THE VERIZON WOODBRIDGE BUILDING. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL TOWER-MOUNTED EQUIPMENT FOR RECOMMENDATIONS BY ASB-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BANDING OR REDUCTION.

SPECIAL CONSTRUCTION NOTE: ASB-PROVIDED ANTENNA MOUNT STRUCTURAL MOD SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS; GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANTENNA MOUNT STRUCTURAL ADJUSTMENTS (STRUCTURAL MODIFICATIONS) AT THE VERIZON WOODBRIDGE BUILDING. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL TOWER-MOUNTED EQUIPMENT FOR RECOMMENDATIONS BY ASB-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BANDING OR REDUCTION.



COMPOUND PLAN
SCALE 3/16" = 1'-0"
1
0 5'-0" 10'-0" 15'-0"





26 ALEXANDER DRIVE, 2ND FLOOR
 SUITE 200
 WESTFIELD, MA 01096
 (401) 741-7336



SBA COMMUNICATIONS CORP.
 136 PARKWAY DRIVE, SUITE 125
 WESTFIELD, MA 01096
 (401) 251-0703



CASPERBELL
 ASSOCIATES, LLC
 816 DEERING CORNER
 WESTFIELD, MA 01096
 (401) 447-7400
 westfield@casperbell.com



DESIGNED BY: JMT
 APPROVED BY: JMT

| REV | DATE | DESCRIPTION |
|-----|----------|-------------------------|
| 1 | 12/20/15 | ISSUED FOR CONSTRUCTION |
| 2 | 1/14/16 | ISSUED FOR PERMIT |

PROJECT NAME & ADDRESS
UNCASVILLE CT
 71 MOBILEY ROAD
 UNCASVILLE, CT 06022

VOL. LOCATION CODE: 480408
 100 LOCATION ID: 480408000
 RISE PROJECT ID: 14870000

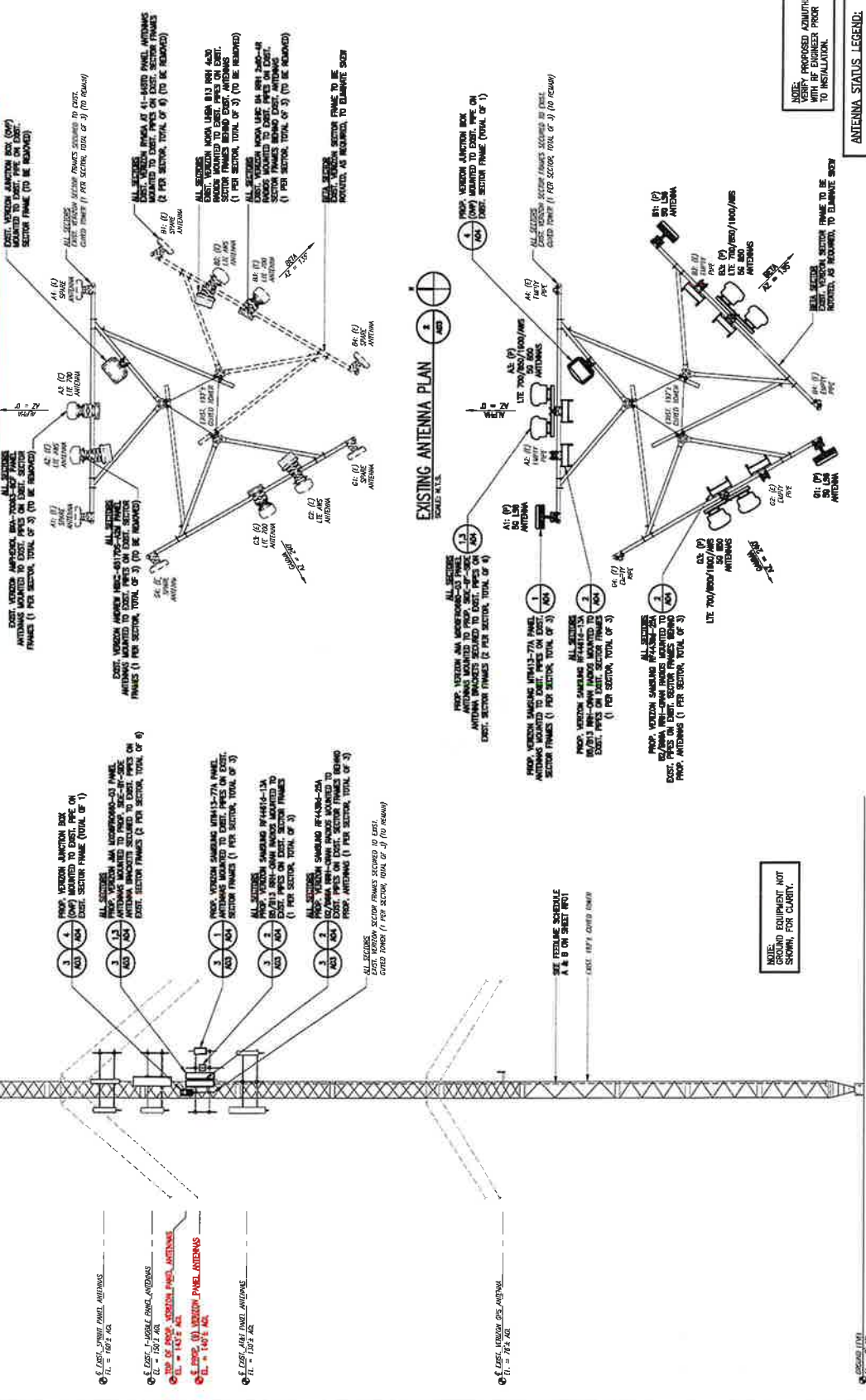
SHEET FILE
TOWER ELEVATION & ANTENNA PLANS

SHEET NUMBER
A03

ADDITIONAL CONSTRUCTION NOTE: PERMITTING AGENCY, LOCAL STRUCTURAL, MOD SPECIAL, EQUIPMENT INSTALLATION REQUIREMENTS: THE VERIZON RADIOTELEPHONE EQUIPMENT SPACE PER RECOMMENDATIONS FROM SBA-PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).

SPECIAL DIS-CONSTRUCTION WORK NOTE: (SBA-PROVIDED) TOWER STRUCTURAL ANALYSIS, SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS: GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ANTENNA MOUNT STRUCTURAL ANALYSIS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BUNDLING OR RELOCATION.

SBA CENTER NOTE: VERIZON ANTENNA AND MOUNT BAO CENTER SHOWN IN ELEVATION ARE ACCORDING TO STRUCTURAL ANALYSIS DONE BY OTHERS AND MAY DIFFER FROM BAO CENTER ON PDS PROVIDED BY VERIZON.



NOTE: VERIFY PROPOSED ANTENNAS WITH RF ENGINEER PRIOR TO INSTALLATION.

ANTENNA STATUS LEGEND:
 EMPTY - EMPTY PFE
 (E) - EXISTING
 (P) - INSTALL
 (F) - FUTURE

PROPOSED ANTENNA PLAN
 SCALE 1" = 10'-0"

TOWER ELEVATION
 SCALE 1" = 10'-0"

GROUND LINE
 EL. = 8'-0"



20 FLOORSYRONE FLOOR
WALLINGFORD, CT 06492
(203) 79-1338



SBA COMMUNICATIONS CORP.
134 FLAMERS ROAD, SUITE 125
WALLINGFORD, CT 06492
(203) 25-8775



U.S. ENGINEERING CENTER
2000 WASHINGTON BLVD., SUITE 101
WALLINGFORD, CT 06492
(203) 48-7400
www.chappelleng.com



DATE: 12/18/23
APPROVED BY: [Signature]
CHECKED BY: JMT

| REV. | DATE | DESCRIPTION | BY |
|------|----------|-------------------------|-----|
| 1 | 12/18/23 | ISSUES FOR CONSTRUCTION | JMT |
| 2 | 12/18/23 | ISSUES FOR CONSTRUCTION | JMT |

PROJECT NAME & ADDRESS
LINCASVILLE CT
71 MOXLEY ROAD
LINCASVILLE, CT 06812

| | | |
|--------------|---------------|--------------|
| TYPE | LOCATION CODE | ISSUES |
| ISSUE NUMBER | ISSUE DATE | ISSUE STATUS |
| ISSUE NUMBER | ISSUE DATE | ISSUE STATUS |

SHEET TITLE
SITE DETAILS

SCALE: N.E.L.E.
A04



JVA 01900314-03 ANTENNA
DIMENSIONS: 11.91" x 14.94" x 10.77"
WEIGHT: 6.01 lbs
QUANTITY: 2 PER SECTION, TOTAL OF 6
SECTION: ALPHA, BETA, GAMMA

ANTENNA DETAILS

SCALE: N.E.L.E.



SAMSUNG UN9431-Z7A ANTENNA
DIMENSIONS: 9.87" x 14.94" x 4.57"
WEIGHT: 0.73 lbs
QUANTITY: 1 PER SECTION, TOTAL OF 3
SECTION: ALPHA, BETA, GAMMA



SAMSUNG RF2430B-25A, B2/2568A RADIO
DIMENSIONS: 18.07" x 14.07" x 10.07"
WEIGHT: 7.13 lbs
QUANTITY: 1 PER SECTION, TOTAL OF 3
SECTION: ALPHA, BETA, GAMMA

RADIO DETAIL

SCALE: N.E.L.E.



SAMSUNG RF4481D-13A, B2/813, RADIO
DIMENSIONS: 15.07" x 14.07" x 10.07"
WEIGHT: 7.13 lbs
QUANTITY: 1 PER SECTION, TOTAL OF 3
SECTION: ALPHA, BETA, GAMMA

Procedure
Mounting Procedure

- 4.1 A mounting base is delivered with the antenna. The antenna is mounted to the plate provided. The plate is attached to the tower by using the method.
- 4.2 Guide 1: Side Mount
Using a supplied screws, mount base to 1/2" x 2" aluminum pole.
4.3 Guide 2: In-line
4.4 Guide 3: In-line
Use supplied mounting screws to attach antenna to tower.



• Pole Mount
• In-line
• In-line

Quantities Distribution

See plans to verify quantities for each Assembly Division.

| City | Quantity | Unit | Notes |
|------|----------|----------|---------|
| A | 120 | ASSEMBLY | SECTION |
| B | 120 | ASSEMBLY | SECTION |
| C | 120 | ASSEMBLY | SECTION |

| City | Quantity | Unit | Notes |
|------|----------|----------|---------|
| A | 120 | ASSEMBLY | SECTION |
| B | 120 | ASSEMBLY | SECTION |
| C | 120 | ASSEMBLY | SECTION |

FIBER JUNCTION BOX

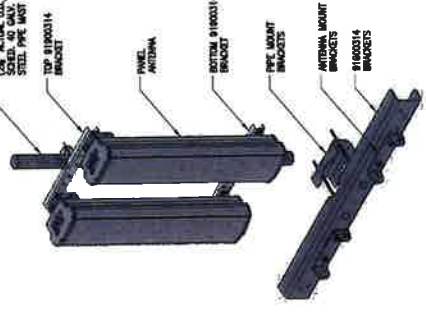
DIMENSIONS: 28.07" x 14.07" x 12.87"
WEIGHT: 2.81 lbs
QUANTITY: 1 PER SECTION, TOTAL OF 3
SECTION: ALPHA, BETA, GAMMA



| City | Quantity | Unit | Notes |
|------|----------|----------|---------|
| A | 120 | ASSEMBLY | SECTION |
| B | 120 | ASSEMBLY | SECTION |
| C | 120 | ASSEMBLY | SECTION |

TYPICAL FIBER JUNCTION BOX (FIBER) DETAILS

SCALE: N.E.L.E.



JVA 01900314, SIDE-BY-SIDE ANTENNA MOUNT BRACKET
DIMENSIONS: 28.07" x 14.07" x 12.87"
WEIGHT: 2.81 lbs
QUANTITY: 1 PER SECTION, TOTAL OF 3
SECTION: ALPHA, BETA, GAMMA

TYPICAL SIDE-BY-SIDE ANTENNA MOUNT KIT

SCALE: N.E.L.E.



33 WINDY HILL RD
MIDDLEBURY, CT 06750
(800) 747-7438



SBA COMMUNICATIONS CORP.
136 WINDY HILL RD, SUITE 125
MIDDLEBURY, CT 06750
(800) 25-4723



CARPELLI ENGINEERING
ASSOCIATES, LLC
315 WINDY HILL RD, SUITE 101
MIDDLEBURY, VT 05753
(800) 66-7900
www.carpelliengineering.com



CREATED BY: JMT

APPROVED BY: JMT

SUBMITTALS

| REV | DATE | DESCRIPTION | BY |
|-----|----------|------------------------|-----|
| 1 | 10/10/10 | ISSUE FOR CONSTRUCTION | JMT |
| 2 | 10/10/10 | ISSUE FOR PERMIT | JMT |

UNCASVILLE CT

71 MOXLEY ROAD
UNCASVILLE, CT 06252

VPR LOCATION CODE: 06250

VPR LOCATION ID: 06250004

VPR PROJECT ID: 1007500

SHEET TITLE

RF DATA

SHEET NUMBER

RF01

EXISTING EQUIPMENT CONFIGURATION

| SECTOR | EQUIPMENT MAKE & MODEL | QTY | AZIMUTH (TRUE NORTH) | ANTENNA RAD | BAND | MECHANICAL DOWNTILT | ELECTRICAL DOWNTILT | EQUIPMENT STATUS | H (IN) | W (IN) | D (IN) | WEIGHT (LBS) | HYBRID CABLE SIZE & QTY |
|--------|---------------------------|-----|----------------------|-------------|----------------------------|---------------------|---------------------|------------------|--------|--------|--------|--------------|-------------------------|
| ALPHA | SMARTEC M9113-77A ANTENNA | 1 | 0° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 1 | 0° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 135° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 1 | 135° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 240° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 2 | 240° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| BETA | SMARTEC M9113-77A ANTENNA | 1 | 135° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 1 | 135° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 240° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| GAMMA | SMARTEC M9113-77A ANTENNA | 1 | 240° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 1 | 240° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 0° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| ALL | SMARTEC M9113-77A ANTENNA | 1 | 0° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 1 | 0° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 135° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |

- NOTES:
1. 'NEW' INDICATES EQUIPMENT TO BE INSTALLED.
2. 'EXISTING' INDICATES EQUIPMENT TO REMAIN.
3. 'REMOVED' INDICATES EQUIPMENT TO BE REMOVED.
4. INFORMATION IS BASED ON RFDS DATED 09/17/22.

FINAL EQUIPMENT CONFIGURATION

| SECTOR | EQUIPMENT MAKE & MODEL | QTY | AZIMUTH (TRUE NORTH) | ANTENNA RAD | BAND | MECHANICAL DOWNTILT | ELECTRICAL DOWNTILT | EQUIPMENT STATUS | H (IN) | W (IN) | D (IN) | WEIGHT (LBS) | HYBRID CABLE SIZE & QTY |
|--------|---------------------------|-----|----------------------|-------------|----------------------------|---------------------|---------------------|------------------|--------|--------|--------|--------------|-------------------------|
| ALPHA | SMARTEC M9113-77A ANTENNA | 1 | 0° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 2 | 0° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 135° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 2 | 135° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 240° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 2 | 240° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| BETA | SMARTEC M9113-77A ANTENNA | 1 | 135° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 1 | 135° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 240° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| GAMMA | SMARTEC M9113-77A ANTENNA | 1 | 240° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |
| | JMA IOWAFROND-03 ANTENNA | 1 | 240° | 140.5 AL | IE 700/850/1900/M85 56 M80 | 0° | 2/2/2/2 | NEW | 71.3 | 18.4 | 10.7 | 80.0 | |
| | SMARTEC M9113-77A ANTENNA | 1 | 0° | 140.5 AL | 50 L5B | 0° | 0° | NEW | 28.8 | 15.8 | 5.5 | 87.3 | |

- NOTES:
1. 'NEW' INDICATES EQUIPMENT TO BE INSTALLED.
2. 'EXISTING' INDICATES EQUIPMENT TO REMAIN.
3. 'REMOVED' INDICATES EQUIPMENT TO BE REMOVED.
4. INFORMATION IS BASED ON RFDS DATED 09/17/22.

FEEDLINE SCHEDULE

| SCHEDULE | FEEDLINES | LOCATION |
|----------|---|--------------------------------|
| A | EXISTING TO REMAIN: (1) 1" COAX CABLE FOR GPS ANTENNA (2) 1/2" HYBRID CABLE | |
| B | EXISTING TO BE REMOVED: (1) 1/2" COAX CABLE PROPOSED: (1) 1/2" HYBRID CABLE | ROUTED PER STRUCTURAL ANALYSIS |

NOTE: VERIFY MOUNTING EQUIPMENT PERMANENT MOUNTING BASED ON OBSERVED FIELD CONDITIONS. PDS AND FEEDLINE LAYOUTS MAY DIFFER.



25 ALDRIDGE AVE, 2ND FLOOR
MILWAUKEE, CT 06452
(860) 741-7339



SBA COMMUNICATIONS CORP.
125 PLUNKERS ROAD, SUITE 125
MILWAUKEE, CT 06452
(860) 281-0702



CHAPWELL
ENGINEERING
ASSOCIATES, LLC
62, EXECUTIVE CENTER
WEST, SUITE 101
MILWAUKEE, CT 06452
(860) 481-7100
www.chapwellengineering.com



CHECKED BY: JMT
DATE: 10/16/13

APPROVED BY: JMT
DATE: 10/16/13

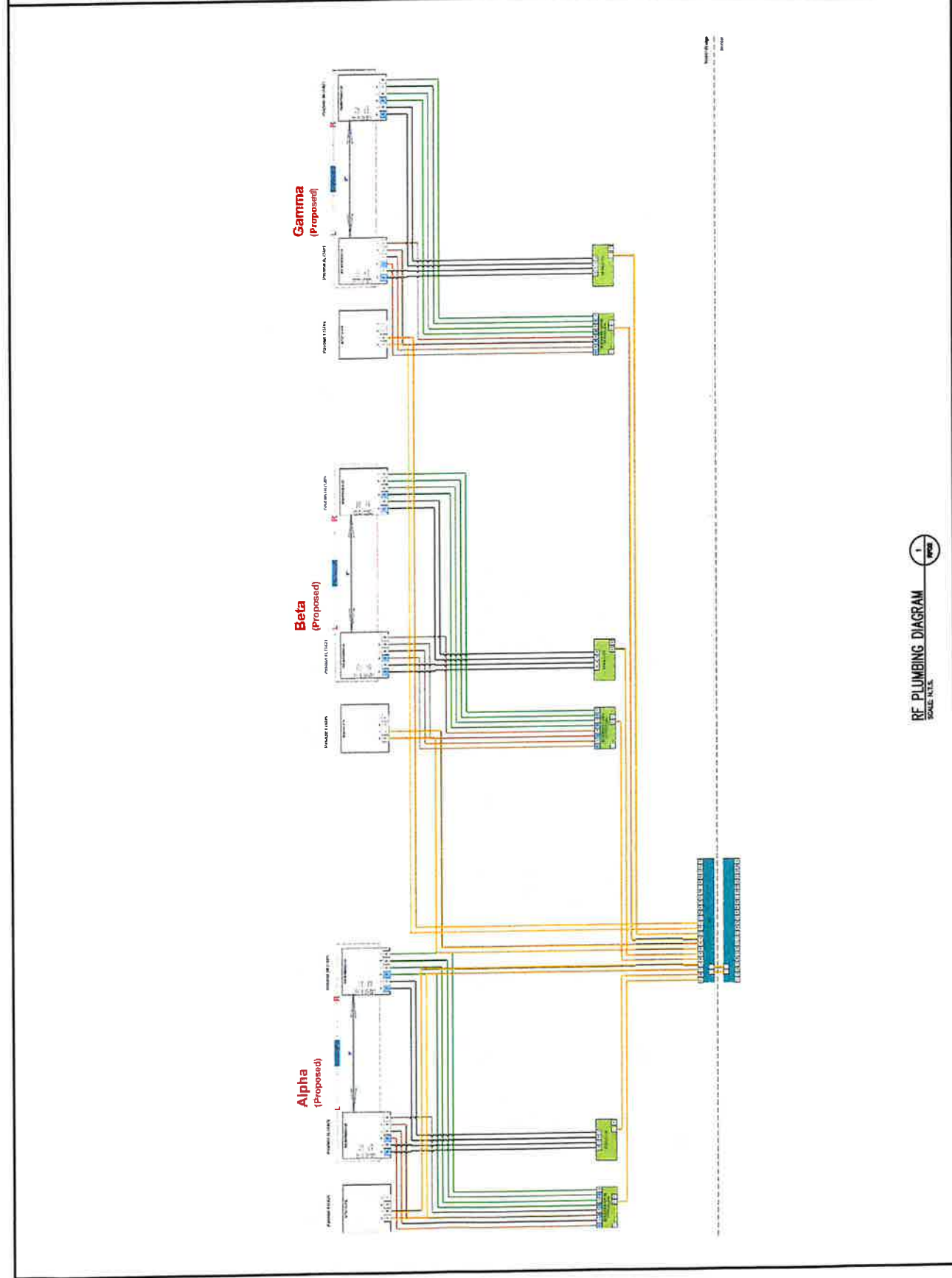
| SUBMITTALS | |
|------------|--------------------------------------|
| NO. | DESCRIPTION |
| 1 | 10/17/13 REVISION FOR COMMUNICATIONS |
| 2 | 10/16/13 REVISION FOR RERUN |

PROJECT NAME & ADDRESS
UNCASVILLE CT
71 MOXLEY ROAD
UNCASVILLE, CT 06312

1576 LOCUST CODE: 484848
160 LOCUST IS: 0000000000
1742 PROJECT IS: 10000000

SHEET TITLE
RF PLUMBING DIAGRAM

SHEET NUMBER
RF02





20 ALDEN STREET, 2ND FLOOR
WARRICK
(303) 743-7328



SM COMMUNICATIONS CORP.
136 RAINIER PARKWAY, SUITE 125
DENVER, CO 80202
(303) 251-0723



M.E. DECINE, OWNER
1430 W. WASHINGTON, SUITE 101
DENVER, CO 80202
(303) 497-7402
www.cablecolor.com



DATE: 12/18/13
CHECKED BY: JMT
APPROVED BY: JMT

SUBMITTALS

| REV | DATE | DESCRIPTION | BY |
|-----|----------|-------------------------|-----|
| 1 | 12/23/13 | ISSUED FOR CONSTRUCTION | JMT |
| 2 | 1/24/14 | ISSUED FOR BIDDING | JMT |

PROJECT NAME & NUMBER

UNCASVILLE CT

71 MOXLEY ROAD
UNCASVILLE, CT 06202

VEN LOCATION CODE: 060438
VEN LOCATION ID: 060438003
PROJECT NUMBER ID: 1027090

RF COLOR CODE SPECIFICATIONS

RF03

Hybrid Cable on Towers

Hybrid Cable 1

| Sector | Identification Color | -49V | -RTN |
|-----------|----------------------|--------|--------|
| 700 Alpha | Blue | Blue | Blue |
| AWS Alpha | Yellow | Yellow | Yellow |
| PCS Alpha | Green | Green | Green |
| 850 Alpha | Orange | Orange | Orange |
| Spare | White | White | White |
| Spare | White | White | White |

Hybrid Cable 2

| Sector | Identification Color | -49V | -RTN |
|----------|----------------------|--------|--------|
| 700 Beta | Blue | Blue | Blue |
| AWS Beta | Yellow | Yellow | Yellow |
| PCS Beta | Green | Green | Green |
| 850 Beta | Orange | Orange | Orange |
| Spare | White | White | White |
| Spare | White | White | White |

| Line | Color | Quantity | Notes |
|------|--------|----------|-----------|
| 1 | Blue | 100 | 700 Alpha |
| 2 | Yellow | 100 | AWS Alpha |
| 3 | Green | 100 | PCS Alpha |
| 4 | Orange | 100 | 850 Alpha |
| 5 | White | 200 | Spare |
| 6 | White | 200 | Spare |

CABLE NOTE:
SEE FEEDLINE SCHEDULE A & B ON SHEET RF01
FOR EXISTING & PROPOSED CABLE QUANTITIES.

LINE COLOR CODE SPECIFICATIONS
SCALE: N.T.S.

HYBRID CABLE COLOR CODE SPECIFICATIONS
SCALE: N.T.S.

GROUNDING GENERAL NOTES

- 1. ALL EXTERIOR CONDUCTORS SHALL BE #2 AWG. SIZED W/NO. W/NO COPPER, UNLESS OTHERWISE NOTED. MINIMUM BOND POINTS SHALL BE ONE (1) INCH.
- 2. ALL WIRE-TO-WIRE CONNECTIONS SHALL BE THREE-WIRE, C OP. CONNECTIONS (SEE #2400 DRAWING FOR CONNECTIONS AND CONNECTIONS). ALL WIRE-TO-WIRE CONNECTIONS TO STEEL SURFACES SHALL USE LIST-TYPE CONNECTIONS.
- 3. MECHANICALLY BOND ANTENNA MOUNTS WITH #2 AWG. SIZED, SPINNING CONDUCTORS.
- 4. CONDUCTOR WIRE SHALL COMPLY WITH VARIOUS STANDARDS.
- 5. CONNECT GROUND CONDUCTOR TO EXISTING GROUNDING SYSTEM, ATTACH TO WALLS, PARTIAL, CABLE BOX OR TO WALL GROUND CONDUIT. REMOVE PART, PRESERVE WALL, ETC. TO AVOID DAMAGE TO CONDUIT.
- 6. CONNECT TO FIELD WOUND LINE (C-10) (#14/12).
- 7. CONDUCTOR GROUND CONNECTIONS MAY BE REPLACED BY CONNECTIONS (CONVEYED) CONNECTIONS.
- 8. ALL GROUND CONNECTIONS BELOW GROUND SHALL BE EXTENSIVE (CONVEYED).
- 9. ALL GROUND CONNECTIONS ABOVE GROUND (INTERIOR & EXTERIOR) SHALL BE FORMED USING VEH PRESS OVER.
- 10. ALL EXTERIOR CONNECTIONS TO THE GROUND ROD SHALL STAY AT THE TOP & MAKE A VERTICAL, SEPARATION OF 1" FOR EACH ADDITIONAL CONNECTION.
- 11. THE USE OF SEPARATE WIRE CONNECTIONS GROUNDING CONDUCTORS SHALL BE AVOIDED W/NO OF BOND ONE OR MORE ADDITIONAL CONNECTIONS.
- 12. W/NO SIZES OF THE COMPLETE GROUND SYSTEM SHALL BE EXCEED A GROUND SYSTEM SHALL BE PERMITTED TO ACCOMMODATE W/NO SEPARATION FOR MECHANICAL INSTALLATION, WITH TELL OF FUTURE INSTALL.
- 13. ANTENNA GROUND RISE SHALL BE FORMED BY VISOR & INSTALLED BY CONTRACTOR.

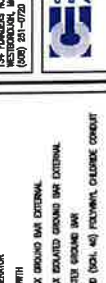
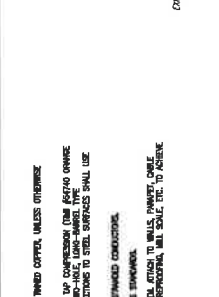
LEGEND

GROUNDING SYMBOLS

- ⊠ GROUND ROD/TEST (OBSERVATION) WELL
- ⊙ GROUND ROD
- ⊙ GROUNDING TYPE CONNECTION
- ⊙ GROUNDING WIRE
- ⊙ REPRESENTS DETAIL NUMBER

ABBREVIATIONS

- AMS AMERICAN WIRE GAUGE
- BWf BONE CLIPPER WIRE
- CPS GLOBAL POSITIONING SYSTEM
- FCS PERSONAL COMMUNICATION SYSTEM
- RACKNY RACKWAY
- TYP TYPICAL
- BOS BOND ENHANCED STEEL
- DRT ELECTRICAL METALWORKING
- DRW DRAWING
- INTR INTERIOR GROUND (N/A)
- GEN GENERATOR
- OR GROUNDING
- COSE COAX GROUND BARE EXTERNAL
- COSE COAX ISOLATED GROUND BARE EXTERNAL
- MGB MOUNTING BRACKET
- PVC PIPING (SCHED. 40) POLYVINYL CHLORIDE CONDUIT
- ZBH ZINC RICH GALV. STEEL

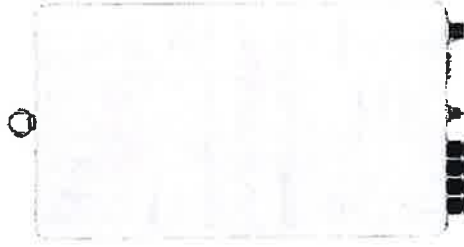


C-band 64T64R

Gen 2

SAMSUNG

Gen 2 : Higher conducted power radio with reduced size/volume/weight vs Gen 1 and also SOC embedded for flexibility to support new features



※ Preliminary Design. External appearance and mechanical design can be subject to change

| Gen 2. 64T64R C-band MMU Dimensions | |
|-------------------------------------|--|
| Size (WxHxD) | 400 x 734 x 140 mm (15.75 x 28.90 x 5.51 inch) |
| Weight | 26kg (57.3 lb) |

| Item | Gen 2. 64T64R (MT6413-77A) |
|-----------------------|--|
| Air Technology | NR n77/TDD |
| Frequency | 3700 - 3980 MHz |
| IBW | 200 MHz |
| OBW | 200 MHz |
| Carrier Bandwidth | 200MHz (ready)/400/600/800/1000 MHz |
| # of Carriers | 2 carriers |
| Layer | DL : 16L, UL : 16RX (8L) |
| RF Chain | 64T64R |
| Antenna Configuration | 4V16H with 192 AE |
| EIRP | 80.5 dBm @320W (55 dBm + 25.5 dB) |
| Conductive Power | 320W |
| Spectrum Analyzer | TX/RX support |
| RX Sensitivity | Typical -97.8dBm @(1Rx, 18.36MHz with 30MHz, 51RBG) |
| Modulation | DL 256QAM support, (DL 1024QAM with 1-2dB power back-off) |
| Function Split | DL/UL option 7-2x |
| Input Power | -48 VDC (-38 VDC to -57 VDC) |
| Power Consumption | 1,287W (100% load, room temp.) |
| Size (WHD) | 400 x 734 x 140 mm (15.75 x 28.90 x 5.51 inch) |
| Volume | 41.1L |
| Weight | 26kg (57.3 lb) |
| Operating Temperature | -40°C - 55°C (w/o solar load) |
| Cooling | Natural convection 3GPP 38.104 |
| Unwanted Emission | FCC 47 CFR 27.53 : < -13dBm/MHz < -40 dBm/MHz @ above 4 GHz < -50 dBm /MHz @ 4,040 ~ 4,050 MHz < -60 dBm /MHz @ above 4,050 MHz |
| Optic Interface | 15km, 4 ports (25Gbps x 4), SFP28, single mode, Bi-di (Option: Duplex) |
| Mounting Options | Pole, wall |
| NB-IoT | Not support |
| External Alarm | 4RX |
| Fronthaul Interface | eCPRI |

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

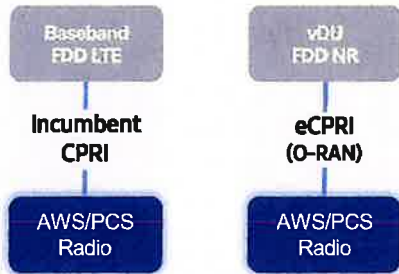


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

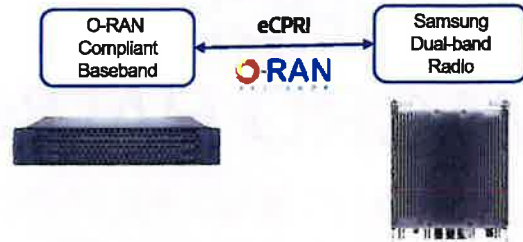
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



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.

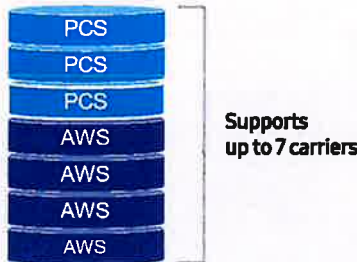
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



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 DL: 2110 – 2200MHz, UL: 1710 – 1780MHz |
| RF Power | (B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W |
| IBW/OBW | (B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz |
| Installation | Pole, Wall |
| Size/Weight | 14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb |

700/850 4T4R Macro 320W ORU - New Filter (RF4461d-13A)

SAMSUNG

Specifications



| Item | Specification |
|--|---|
| Air Interface | LTE, NR(HW resource ready) |
| Band | Band13 (700MHz) DL: 869-894MHz UL: 824-849MHz |
| Frequency | DL: 746-756MHz UL: 777-787MHz |
| IBW | 10MHz |
| OBW | 10MHz |
| Carrier Bandwidth | LTE/NR 5*10MHz |
| # of carriers | 2C* |
| RF Chain | 4C + B13 (SDU) 1C 4T4R/2T4R/2T2R/1T2R 2T2R+2T2R bi-sector Total : 320W |
| RF Output Power | 4 x 40W or 2 x 60W |
| Spectrum Analyzer | TX/RX Support |
| RX Sensitivity | Typ. -104.5dBm @1Rx (25RBs 5MHz) |
| Modulation | 256QAM support, (1024QAM with 1-2dB power back-off) |
| Input Power | -48VDC (-38VDC to -57VDC) |
| Power Consumption | 1,165 Watt @ 100% RF load, room temperature |
| Size (VHD) | 380 x 380 x 260 mm (14.96 x 14.96 x 10.23 inch) |
| Volume | 37.5 L |
| Weight (w/o Solar Shield & finger guard) | 35.9 kg (79.1 lb) |
| Operating Temperature | -40°C (-40°F) ~ 55°C (131°F) (Without solar load) |
| Cooling | Natural convection |
| Unwanted Emission | 3GPP 36.104 FCC 47 CFR 27.53 (c), f) |
| CPRI Cascade | -69 dBm/100 kHz per path @ 896 ~901MHz |
| Optic Interface | Not supported |
| RET & TMA Interface | Not supported |
| Bias-T | ATSG 3.0 |
| Mounting Options | 4 ports (2 ports per band) |
| NB-IOT | Pole, wall |
| PIM Cancellation | Support |
| # of antenna port | 4 |
| External Alarm | 4 |
| Fronthaul Interface | Opt. 8 CPRI / Opt. 7.2x selectable (not simultaneous support) |
| CPRI compression | Not Support |

* 5MHz supporting in B13(700MHz) depends on 3Gpp std. and UE capability.
External filters in interferer and victim sides for Mexican boarder to support 5MHz service need to be considered
** Finger guard is not needed.

ATTACHMENT 3



C Squared Systems, LLC
65 Dartmouth Drive
Auburn, NH 03032
(603) 644-2800

support@csquaredsystems.com

Calculated Radio Frequency Emissions Report



Uncasville CT

71 Moxley Hill Road, Montville, CT 06382

January 4, 2024

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modification of Verizon's antenna arrays to be mounted at 140' on an existing guyed lattice tower located at 71 Moxley Hill Road in Montville, CT. The coordinates of the tower are 41° 26' 6.61" N, 72° 7' 23.9" W.

Verizon is proposing the following:

- 1) Install six (6) multi-band antennas, one (1) per sector to support its commercial LTE network.
- 2) Install three (3) C-Band antenna, one (1) per sector.

This report considers the planned antenna configuration for Verizon¹ as well as existing² antenna configuration for AT&T, and T-Mobile to derive the resulting % MPE of its proposed modification.

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm²). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment C of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment C contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

¹ As referenced to Verizon's Radio Frequency Design Sheet updated 08/11/2023.

² As referenced to T-Mobile's Connecticut Siting Council Notice of Exempt Modification – 71 Moxley Hill Road, Montville, Connecticut, dated 3/07/2019

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{\text{GRF}^2 \times 1.64 \times \text{ERP}}{4\pi \times R^2} \right) \times \text{Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{(H^2 + V^2)}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Off Beam Loss is determined by the selected antenna patterns

Ground reflection factor (GRF) of 1.6

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the final installations.

4. Antenna Inventory

Table 1 below outlines Verizon’s proposed antenna configuration for the site. The associated data sheets and antenna patterns for these specific antenna models are included in Attachments C.

| Operator | Sector / Call Sign | TX Freq (MHz) | Power at Antenna (Watts) | Ant Gain (dBi) | Power EIRP (Watts) | Antenna Model | Beam Width | Mech. Tilt | Length (ft) | Antenna Centerline Height (ft) |
|----------|--------------------|---------------|--------------------------|----------------|--------------------|---------------|------------|------------|-------------|--------------------------------|
| Verizon | Alpha / 0° | 700 | 160 | 14.4 | 4407 | MX06FRO660-03 | 60.5 | 0 | 5.94 | 140 |
| | | 850 | 160 | 14.0 | 4019 | | 53.0 | | | |
| | | 1900 | 160 | 18.0 | 10095 | | 55.0 | | | |
| | | 2100 | 240 | 18.2 | 15857 | | 55.5 | | | |
| | | 3700 | 320 | 25.5 | 113540 | MT6413-77A | - | 0 | 2.46 | 140 |
| | Beta / 135° | 700 | 160 | 14.4 | 4407 | MX06FRO660-03 | 62.5 | 0 | 5.94 | 140 |
| | | 850 | 160 | 14.0 | 4019 | | 53.5 | | | |
| | | 1900 | 160 | 18.0 | 10095 | | 55 | | | |
| | | 2100 | 240 | 18.2 | 15857 | | 55 | | | |
| | | 3700 | 320 | 25.5 | 113540 | MT6413-77A | - | 0 | 2.46 | 140 |
| | Gamma / 240° | 700 | 160 | 14.4 | 4407 | MX06FRO660-03 | 62.5 | 0 | 5.94 | 140 |
| | | 850 | 160 | 14.0 | 4019 | | 53.5 | | | |
| | | 1900 | 160 | 18.0 | 10095 | | 55 | | | |
| | | 2100 | 240 | 18.2 | 15857 | | 55 | | | |
| | | 3700 | 320 | 25.5 | 113540 | MT6413-77A | - | 0 | 2.46 | 140 |

Table 1: Proposed Antenna Inventory³⁴

³ Antenna heights are in reference to Verizon’s Radio Frequency Design Sheet updated 08/11/2023.

⁴ Transmit power assumes 0 dB of cable loss.

5. Calculation Results

The calculated power density results are shown in Figure 1 below. For completeness, the calculations for this analysis range from 0 feet horizontal distance (directly below the antennas) to a value of 3,000 feet horizontal distance from the site. In addition to the other worst-case scenario considerations that were previously mentioned, the power density calculations to each horizontal distance point away from the antennas was completed using a local maximum off beam antenna gain (within ± 5 degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.

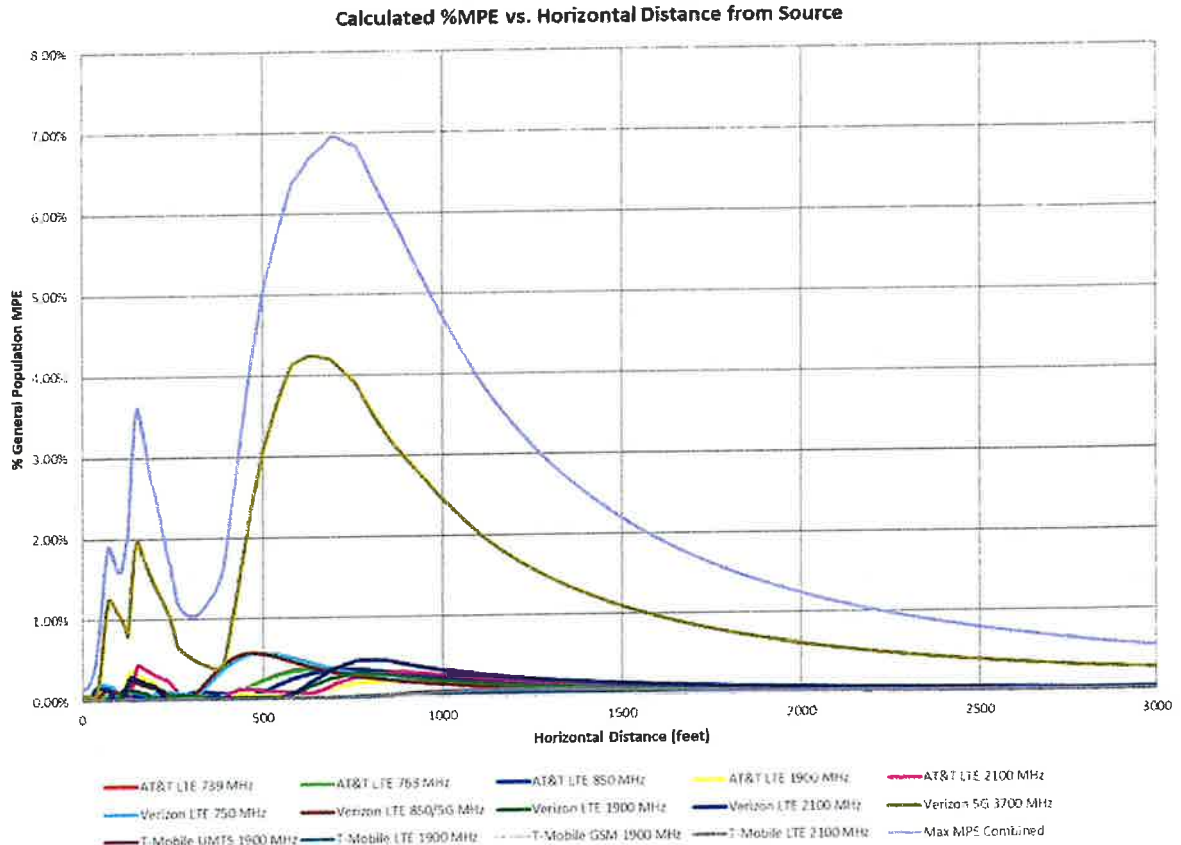


Figure 1: Graph of General Population % MPE vs. Distance

The highest percent of MPE (6.96% of the General Population limit) is calculated to occur at a horizontal distance of 703 feet from antennas. Please note that the percent of MPE calculations close to the site take into account off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1000 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, RF levels become calculated solely on distance from the site and the percent of MPE decreases significantly as distance from the site increases.

Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. The highest percent of MPE value was calculated to occur at a horizontal distance of 703 feet from the site (reference Figure 1).

As stated in Section 3, all calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. In addition, a six foot height offset was considered in this analysis to account for average human height. As a result, the predicted signal levels are significantly higher than the actual signal levels will be from the final configuration. The results presented in Figure 1 and Table 2 assume level ground elevation from the base of the tower out to the horizontal distances calculated.

| Carrier | Number of Transmitters | Power out of Base Station Per Transmitter (Watts) | Antenna Height (Feet) | Distance to the Base of Antennas (Feet) | Power Density (mW/cm ²) | Limit (mW/cm ²) | % MPE |
|------------------------|------------------------|---|-----------------------|---|-------------------------------------|-----------------------------|--------------|
| AT&T LTE 1900 MHz | 1 | 160.0 | 130.0 | 703 | 0.001478 | 1.000 | 0.15% |
| AT&T LTE 2100 MHz | 1 | 240.0 | 130.0 | 703 | 0.001916 | 1.000 | 0.19% |
| AT&T LTE 739 MHz | 1 | 160.0 | 130.0 | 703 | 0.001869 | 0.493 | 0.38% |
| AT&T LTE 763 MHz | 1 | 160.0 | 130.0 | 703 | 0.001869 | 0.509 | 0.37% |
| AT&T LTE 850 MHz | 1 | 160.0 | 130.0 | 703 | 0.002021 | 0.567 | 0.36% |
| T-Mobile GSM 1900 MHz | 1 | 15.0 | 150.0 | 703 | 0.000031 | 1.000 | 0.00% |
| T-Mobile LTE 1900 MHz | 2 | 40.0 | 150.0 | 703 | 0.000163 | 1.000 | 0.02% |
| T-Mobile LTE 2100 MHz | 2 | 60.0 | 150.0 | 703 | 0.000091 | 1.000 | 0.01% |
| T-Mobile UMTS 1900 MHz | 1 | 40.0 | 150.0 | 703 | 0.000082 | 1.000 | 0.01% |
| Verizon 5G 3700 MHz | 1 | 320.0 | 140.0 | 703 | 0.041414 | 1.000 | 4.14% |
| Verizon LTE 1900 MHz | 1 | 160.0 | 140.0 | 703 | 0.002637 | 1.000 | 0.26% |
| Verizon LTE 2100 MHz | 1 | 240.0 | 140.0 | 703 | 0.003788 | 1.000 | 0.38% |
| Verizon LTE 750 MHz | 1 | 160.0 | 140.0 | 703 | 0.001844 | 0.500 | 0.37% |
| Verizon LTE 850/5G MHz | 1 | 160.0 | 140.0 | 703 | 0.001844 | 0.567 | 0.33% |
| | | | | | | Total | 6.96% |

Table 2: Maximum Percent of General Population Exposure Values⁵

⁵ In the case where antenna pattern data was unavailable from the manufacturer, generic antenna pattern was used based on the frequency, bandwidth and gain of the antenna

6. Conclusion

The above analysis verifies that RF exposure levels from the site with Verizon’s proposed antenna configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all transmitters is calculated to be 6.96% of the FCC limit (General Population/Uncontrolled). This maximum cumulative percent of MPE value is calculated to occur 703 feet away from the site.

7. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.



Report Prepared By: Ram Acharya
RF Engineer
C Squared Systems, LLC

January 3, 2024
Date



Reviewed/Approved By: Martin Lavin
Senior RF Engineer
C Squared Systems, LLC

January 4, 2024
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

IEEE C95.1-2005, IEEE Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2002 (R2008), IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz-300 GHz IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure⁶

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (E) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|---|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f ²)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | - | - | f/300 | 6 |
| 1500-100,000 | - | - | 5 | 6 |

(B) Limits for General Population/Uncontrolled Exposure⁷

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (E) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|---|---|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f ²)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | - | - | f/1500 | 30 |
| 1500-100,000 | - | - | 1.0 | 30 |

f = frequency in MHz * Plane-wave equivalent power density

Table 3: FCC Limits for Maximum Permissible Exposure

⁶ Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

⁷ General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

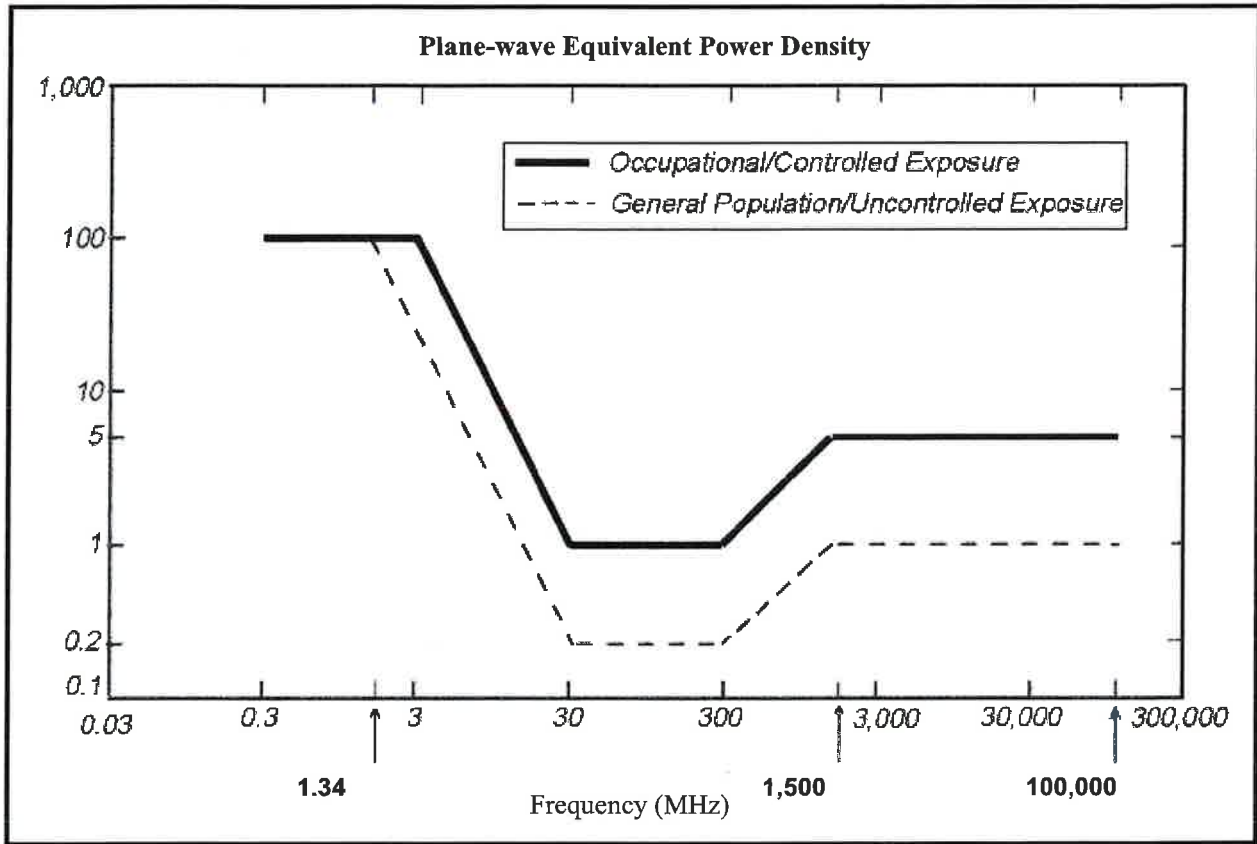
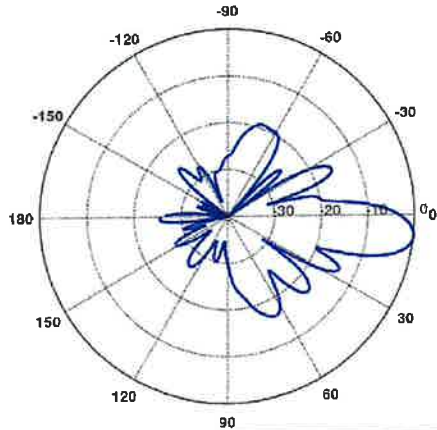
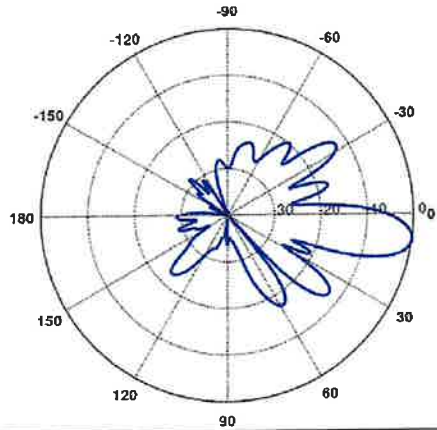
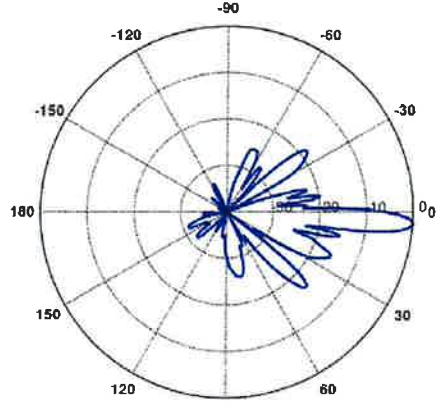
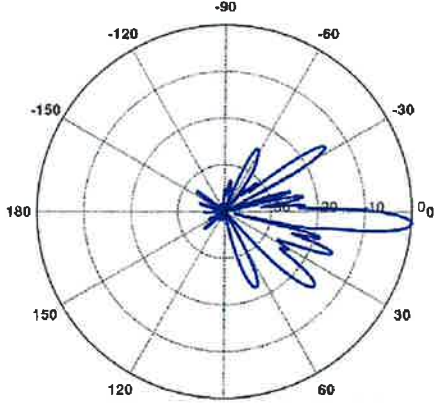


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: Verizon Antenna Model Data Sheets and Electrical Patterns

| | |
|--|--|
| <p>750 MHz</p> <p>Manufacturer: JMA Model #: MX06FRO660-03 Frequency Band: 698-798 MHz Gain: 14.4 dBi Vertical Beamwidth: 13.1° Horizontal Beamwidth: 60.5° Polarization: ±45° Dimensions (L x W x D): 71.3" x 15.4" x 10.7"</p> |  <p>A polar plot radiation pattern for 750 MHz. The plot shows a main lobe centered at 0 degrees with a peak gain of approximately 14.4 dBi. The horizontal beamwidth is 60.5 degrees, and the vertical beamwidth is 13.1 degrees. The plot includes concentric circles representing gain levels and radial lines for angles from 0 to 180 degrees.</p> |
| <p>885 MHz</p> <p>Manufacturer: JMA Model #: MX06FRO660-03 Frequency Band: 824-894 MHz Gain: 14.0 dBi Vertical Beamwidth: 11.8° Horizontal Beamwidth: 53.0° Polarization: ±45° Dimensions (L x W x D): 71.3" x 15.4" x 10.7"</p> |  <p>A polar plot radiation pattern for 885 MHz. The plot shows a main lobe centered at 0 degrees with a peak gain of approximately 14.0 dBi. The horizontal beamwidth is 53.0 degrees, and the vertical beamwidth is 11.8 degrees. The plot includes concentric circles representing gain levels and radial lines for angles from 0 to 180 degrees.</p> |

| | |
|--|---|
| <p>1900 MHz</p> <p>Manufacturer: JMA Model #: MX06FRO660-03 Frequency Band: 1850-1990 MHz Gain: 18.0 dBi Vertical Beamwidth: 5.5° Horizontal Beamwidth: 55.0° Polarization: ±45° Dimensions (L x W x D): 71.3" x 15.4" x 10.7"</p> |  |
| <p>2100 MHz</p> <p>Manufacturer: JMA Model #: MX06FRO660-03 Frequency Band: 1920-2200 MHz Gain: 18.2 dBi Vertical Beamwidth: 5.5° Horizontal Beamwidth: 55.5° Polarization: ±45° Dimensions (L x W x D): 71.3" x 15.4" x 10.7"</p> |  |

ATTACHMENT 4

STRUCTURAL ANALYSIS REPORT

190' Modified Guyed Tower

71 Moxley Road
Ucansville, CT 06382
41.4352 N, 72.1233 W

SBA Site Name: CT10016-A
SBA Site ID: Montville 3 CT

Verizon Site Name: Uncasville CT
Verizon Site ID: 5000243394
Application ID: 241546, v1

GPD Project Number: 2024778.10016.03

Analysis Results

| | | |
|----------------------------------|--------|--|
| Tower Components | 66.9% | Sufficient |
| Foundation | 70.9% | Sufficient |
| Net Change in Tower Stress Ratio | + 5.0% | As compared to the Previous Structural Analysis detailed on Page 3 |

Verizon Mount Replacement/Reinforcement

| | |
|---|-----|
| Net Change in Tower Stress Ratio due to Mount Replacement/Reinforcement | N/A |
|---|-----|

December 20, 2023

Respectfully submitted by:



Christopher J. Scheks

12/20/2023
Christopher J. Scheks, P.E.
Connecticut P.E. #: 0030026

Analysis Criteria

The purpose of this analysis is to verify the existing modified guyed tower is structurally capable of carrying the proposed antenna and feedline loads as specified by Verizon to SBA. This report was commissioned by Sheba Samuel of SBA.

The existing modified structure and its foundations have been analyzed per the following requirements:

| | |
|-----------------------------|--|
| Governing Code(s) | TIA-222-H & 2022 Connecticut State Building Code |
| Wind Speed | 126 MPH 3-Second Gust |
| Wind Speed w/ Ice | 50 MPH 3-Second Gust |
| Radial Ice Thickness | 1.00" |
| Risk Category | II |
| Exposure Category | B |
| Topographic Category | 1 |

Analysis Method

tnxTower (Version 8.2.2.0), a commercially available software program, was used to create a three-dimensional model of the tower and calculate member stresses for various dead, live, wind and ice load cases. Selected output from the analysis is included in the appendices of this report.

Tower Description

The existing 190' modified self-support tower is located in Uncasville, CT. The tower was originally designed for SBA Network Services, Inc. by ROHN in April 1998. The tower was originally designed in accordance with TIA-222-F for a 90-mph 3-second gust wind speed with 1/2" of radial ice (w/ a 25% wind load reduction) in accordance with EIA/TIA-222-F.

Documents Provided

| Document Type | Remarks | Source |
|--------------------------------------|--|--------|
| Original Tower & Foundation Drawings | ROHN Eng. File #: 37183AE001 Dated: 4/21/1998 | SBA |
| Geotechnical Report | FDH Project #: 1102193EG1 Dated: 8/10/2011 | SBA |
| Modification Drawings | FDH: Project #: 1465RU1400 Dated, 5/29/2014 | SBA |
| Modification Drawings | FDH: Project #: 15BJIT1400 Dated 4/22/2015 | SBA |
| AT&T Mount Analysis | TEP Project #: 323466.754398 Rev.2 Dated: 5/8/2023 | SBA |
| Previous Structural Analysis | GPD Project #: 2023778.10016.02 Dated: 8/31/2023 | SBA |
| Verizon Mount Analysis | Colliers Project #: 21777086 (Rev 2) Dated 11/27/2023 | SBA |
| Collocation Application | SBA Application #: 241546, v1 Dated: 12/4/2023 | SBA |

Tower Modification Summary

| Modification Type | Description | Designer |
|-------------------|--|--------------------|
| Diagonals | Replace existing pipe diagonals from 87.6' to 90' with L2x2x1/4 members. | FDH (5/29/2014) |
| Legs | Bolt on split P3 STD members to existing legs from 130' to 150' | FDH (5/29/2014) |
| Legs | Bolt on split P3 STD members to existing legs from 110' to 130' | FDH (4/22/2015) |

Tower Materials

| Structural Components | Material Strength |
|-----------------------|--------------------------------------|
| Legs | ASTM A572 (50 KSI Yield Strength) |
| Bracing Members | ASTM A500-42 (42 KSI Yield Strength) |
| Member Bolts | A325X |
| Guy Wires | EHS |

Tower Loading

The following data shows the major loading that the modified tower supports. All existing, leased, and proposed loading information was provided by SBA, or taken from the previous structural analysis.

Existing/Leased Loading

| Carrier | Mounting Level (ft) | Center Line Elevation (ft) | # of Antennas | Antenna Manufacturer | Antenna/Mount Model | # of Coax | Coax Size (in) | Note |
|---------------|---------------------|----------------------------|---------------|----------------------|----------------------------|--------------|------------------------------|------|
| Dish Wireless | 180.0 | 180.0 | 3 | Commscope | FFVV-65B-R2 | 1 | 1-3/4 Hybrid | |
| | | | 3 | Samsung | RF4450t-71A | | | |
| | | | 3 | Samsung | RF4451d-70A | | | |
| | | | 1 | Raycap | RDIDC-9181-PF-48 | | | |
| | | | 3 | Commscope | MTC3975083 Sector Mount | | | |
| Sprint Nextel | 160.0 | 160.0 | 3 | RFS | APXVSP18-C-A20 | 4 | 1-1/4 Hybrid | |
| | | | 3 | RFS | APXVTM14-C-I20 | | | |
| | | | 4 | RFS | ACU-A20-N RET | | | |
| | | | 3 | Alcatel Lucent | 1900 MHz RRH | | | |
| | | | 3 | Alcatel Lucent | 800 MHz RRH | | | |
| | | | 3 | Alcatel Lucent | TD-RRH8x20-25 | | | |
| | | | 3 | Alcatel Lucent | 800 MHz Filter | | | |
| | | | 3 | | Sector Mount | | | |
| T-Mobile | 150.0 | 150.0 | 3 | Andrew | RR65-18-VDPL2 | 10 3 | 1-5/8 1-5/8 Hybrid | |
| | | | 3 | RFS | APXVAARR24 43-U-NA20 | | | |
| | | | 3 | Ericsson | Air32 KRD901146-1 B66A B2A | | | |
| | | | 6 | Ericsson | KRY 112 144/1 | | | |
| | | | 3 | Ericsson | 4449 B71+B12 | | | |
| | | | 3 | Unknown | Sector Mount | | | |
| Verizon | 139.5 | 141.0 | 6 | Commscope | HBXX-6517DS-A2M | 12 1 | 1-5/8 1-5/8 Hybrid | |
| | | | 3 | Commscope | LNx-8513DS-VTM | | | |
| | | | 3 | Antel | BXA-70063-6CF-EDIN-6 | | | |
| | | | 6 | RFS | FD9R6004/2CL-3CL | | | |
| | | | 3 | Alcatel Lucent | RH 2x60-AWS | | | |
| | | | 1 | RFS | DB-T1-6Z-8AB-0Z | | | |
| | | 3 | | Sector Mount | | | | |
| | 139.5 | 3 | | | | | | |
| AT&T | 130.0 | 130.0 | 3 | Ericsson | Air 6419 B77G | 12 2 4 | 1-1/4 1/2 Fiber 3/4 DC | |
| | | | 1 | CCI | TPA65R-BU8DA-K | | | |
| | | | 1 | CCI | DMP65R-BU8DA | | | |
| | | | 1 | CCI | TPA65R-BU6DA-K | | | |
| | | | 1 | CCI | OPA65R-BU8DA | | | |
| | | | 1 | CCI | TPA65R-BU4D | | | |
| | | | 1 | CCI | OPA65R-BU4DA | | | |
| | | | 3 | Ericsson | 4449 B5/B12 | | | |
| | | | 3 | Ericsson | 8843 B2/B66A | | | |
| | | | 1 | Raycap | DC6-48-60-18-8F | | | |
| | | | 1 | Raycap | DC9-48-60-24-8C-EV | | | |
| | | | 3 | | Sector Mount | | | |
| | | | 128.0 | 3 | Ericsson | | | |
| Verizon | 76.0 | 76.0 | 1 | | GPS | 1 | 1/2 | |
| | | | 1 | | Standoff | | | |

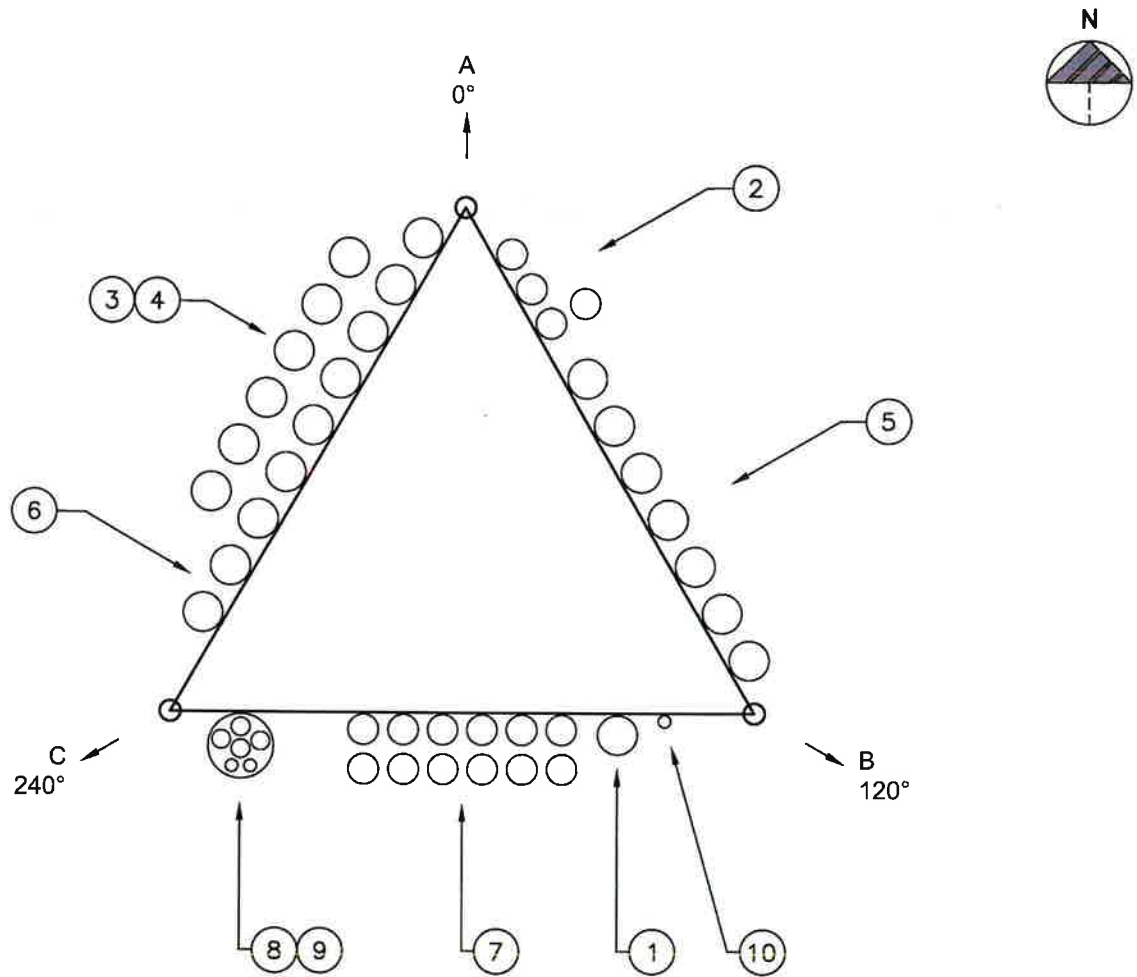
Final Proposed Loading Configuration

| Carrier | Mounting Level (ft) | Center Line Elevation (ft) | # of Antennas | Antenna Manufacturer | Antenna/Mount Model | # of Coax | Coax Size (in) | Note |
|---------|---------------------|----------------------------|---------------|----------------------|--------------------------------|-----------|-----------------------|------|
| Verizon | 139.5 | 141.0 | 3 | Antel | BXA-70063-6CF-EDIN-6 | 7 2 | 1-5/8 1-5/8 Hybrid | 1 |
| | | | 6 | RFS | FD9R6004/2CL-3CL | | | |
| | | | 6 | JMA | MX06FRO660-03 | | | |
| | | 140.0 | 3 | Samsung | MT6413 77A | | | |
| | | | 3 | Samsung | B2/B66A RRH ORAN (RF4439d-25A) | | | |
| | | | 3 | Samsung | B5/B13 RRH ORAN (RF4461d-13A) | | | |
| | | | 1 | Raycap | RVZDC-6627-PF-48 | | | |
| | | | 3 | JMA | 91900314 | | | |
| | | | 3 | | Sector Mount | | | |
| | 76.0 | 76.0 | 1 | | GPS | 1 | 1/2 | |
| | | | 1 | | Standoff | | | |
| | | | 1 | | | | | |

Notes:

- 1) This loading represents Verizon's final configuration on the tower. See the next page for the proposed feedline layout.

Proposed Feedline Configuration



| # | CARRIER | SIZE | QTY. | ELEVATION | NOTES |
|----|---------------|--------|------|-----------|--------------------------|
| 1 | Dish Wireless | 1-3/4" | 1 | 180' | Hybrid |
| 2 | Sprint | 1-1/4" | 4 | 160' | Hybrid |
| 3 | T-Mobile | 1-5/8" | 10 | 150' | |
| 4 | T-Mobile | 1-5/8" | 3 | 150' | Hybrid |
| 5 | Verizon | 1-5/8" | 7 | 139.5' | |
| 6 | Verizon | 1-5/8" | 2 | 139.5' | Hybrid ((1) Proposed) |
| 7 | AT&T | 1-1/4" | 12 | 130' | |
| 8 | AT&T | 1/2" | 2 | 130' | Fiber. Within Conduit |
| 9 | AT&T | 3/4" | 4 | 130' | DC Power. Within Conduit |
| 10 | Verizon | 1/2" | 1 | 76' | |

Tower Section Results

Capacity Summary of Structural Components

| Notes | Component | % Capacity | Pass / Fail |
|-------|-----------------------|------------|-------------|
| | Legs | 64.2 | Pass |
| | Diagonals | 66.9 | Pass |
| | Horizontals | 25.4 | Pass |
| | Member Bolts | 66.9 | Pass |
| | Guy Wires | 53.6 | Pass |
| | Torque Arms | 35.6 | Pass |
| | Tower Base Foundation | 22.6 | Pass |
| | Guy Anchor Foundation | 70.9 | Pass |

Conclusions & Recommendations

The designs of the modified tower and its foundations are sufficient to support the proposed loading configuration and will not require further modification.

Assumptions

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in the Existing/Reserved Loading and Proposed Loading Tables, and the specified documents.
- 4) All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
- 5) Mount sizes, weights, and manufacturers are best estimates based on photos provided and determined without the benefit of a site visit by GPD.
- 6) All member connections and foundation steel reinforcing are assumed designed to meet or exceed the load carrying capacity of the connected member and surrounding soils respectively unless otherwise specified in this report.
- 7) Tower leg azimuths have been estimated based on the use of satellite imagery software.
- 8) The existing feedline layout has been modeled based on the previous structural analysis and site photos.
- 9) The proposed feedlines shall be installed as illustrated in order for the results of this analysis to be valid.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD should be allowed to review any new information to determine its effect on the structural integrity of the tower.

Disclaimer of Warranties

GPD has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

This analysis is limited to the designated maximum wind and seismic conditions per the governing tower standards and code. Wind forces resulting in tower vibrations near the structure's resonant frequencies were not considered in this analysis and are outside the scope of this analysis. Lateral loading from any dynamic response was not evaluated under a time-domain based fatigue analysis.

GPD does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the capability of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

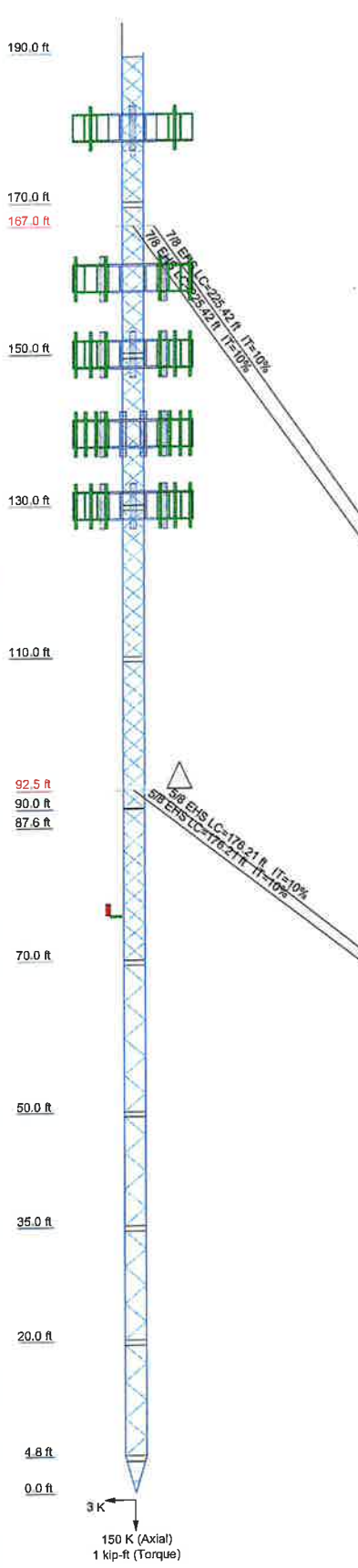
Towers are designed to carry gravity, wind, and ice loads. All members, legs, diagonals, struts, and redundant members provide structural stability to the tower with little redundancy. Absence or removal of a member can trigger catastrophic failure unless a substitute is provided before any removal. Legs carry axial loads and derive their strength from shorter unbraced lengths by the presence of redundant members and their connection to the diagonals with bolts or welds. If the bolts or welds are removed without providing any substitute to the frame, the leg is subjected to a higher unbraced length that immediately reduces its load carrying capacity. If a diagonal is also removed in addition to the connection, the unbraced length of the leg is greatly increased, jeopardizing its load carrying capacity. Failure of one leg can result in a tower collapse because there is no redundancy. Redundant members and diagonals are critical to the stability of the tower.

GPD makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD pursuant to this report will be limited to the total fee received for preparation for this report.

SBA Site ID: CT10016-A
December 20, 2023

TNX TOWER OUTPUT

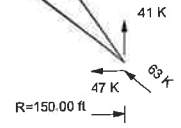
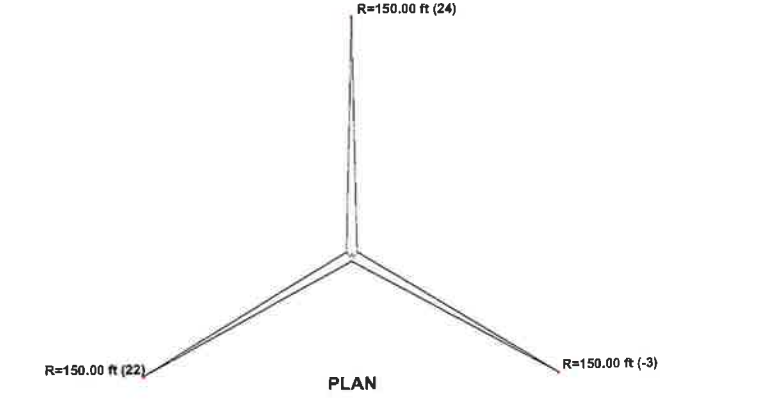
| Section | 1+0 | 1+1 | 1+10 | 1+9 | 1+8 | 1+7 | 1+6 | 1+5 | 1+4 | 1+3 | 1+2 | 1+1 | 11 |
|-------------------|------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------------------|-----------------|-----------------|-----|-----|-----|-----------|
| Legs | | | | | ROHN 3 EH | | P 2-1/2 X-STR w Spill P 3 STD (GPD) | | | | | | |
| Leg Grade | | | | | A572-50 | | A500-46 | | | | | | ROHN 3 EH |
| Diagonals | N.A. | ROHN 1.5 x 11GA | ROHN 1.5 x 16GA | ROHN 1.5 x 11GA | ROHN 1.5 x 11GA | ROHN 1.5 x 16GA | ROHN 1.5 x 11GA | ROHN 1.5 x 16GA | A572-50 | | | | |
| Diagonal Grade | N.A. | A500-42 | A53-B-42 | A500-42 | A500-42 | A53-B-42 | A500-42 | A53-B-42 | A572-50 | | | | L2x2x1/4 |
| Top Girts | D | ROHN 1.5 x 11GA | ROHN 1.5 x 16GA | ROHN 1.5 x 11GA | ROHN 1.5 x 11GA | N.A. | ROHN 1.5 x 16GA | ROHN 1.5 x 16GA | A36 | | | | A36 |
| Bottom Girts | N.A. | ROHN 1.5 x 11GA | ROHN 1.5 x 16GA | ROHN 1.5 x 11GA | ROHN 1.5 x 11GA | ROHN 1.5 x 16GA | ROHN 1.5 x 16GA | ROHN 1.5 x 16GA | ROHN 1.5 x 16GA | | | | L2x2x1/4 |
| Horizontals | D | | | | | | | | | | | | L2x2x1/4 |
| Top Guy Pull-Offs | | | | | | | | | | | | | 2L2x2x1/4 |
| Face Width (ft) | | | | | N.A. | | | | | | | | N.A. |
| # Panels @ (ft) | G | 6 @ 2.40972 | 12 @ 2.37847 | 8 @ 2.40885 | 7 @ 2.41012 | | | | | | | | 3.41867 |
| Weight (K) | 11.5 | 0.6 | 0.5 | 0.5 | 0.8 | 0.7 | 0.9 | 1.5 | 1.1 | 0.6 | 0.4 | 0.3 | 0.3 |



| MARK | SIZE | MARK | SIZE |
|------|-----------------|------|-------------|
| A | L2x2x1/4 | E | N.A. |
| B | A36 | F | 1 @ 2.4 |
| C | ROHN 1.5 x 16GA | G | 4 @ 1.36111 |
| D | L8x8x3/4 | | |

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|----------|--------|--------|---------|--------|--------|
| A572-50 | 50 ksi | 65 ksi | A500-46 | 46 ksi | 62 ksi |
| A36 | 36 ksi | 58 ksi | A500-42 | 42 ksi | 58 ksi |
| A53-B-42 | 42 ksi | 63 ksi | | | |

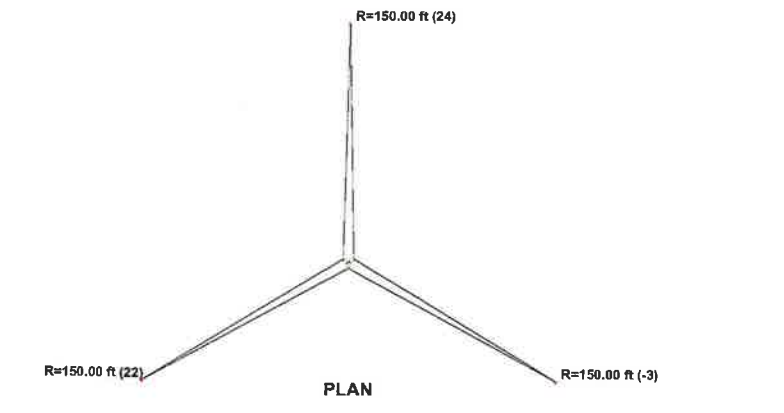
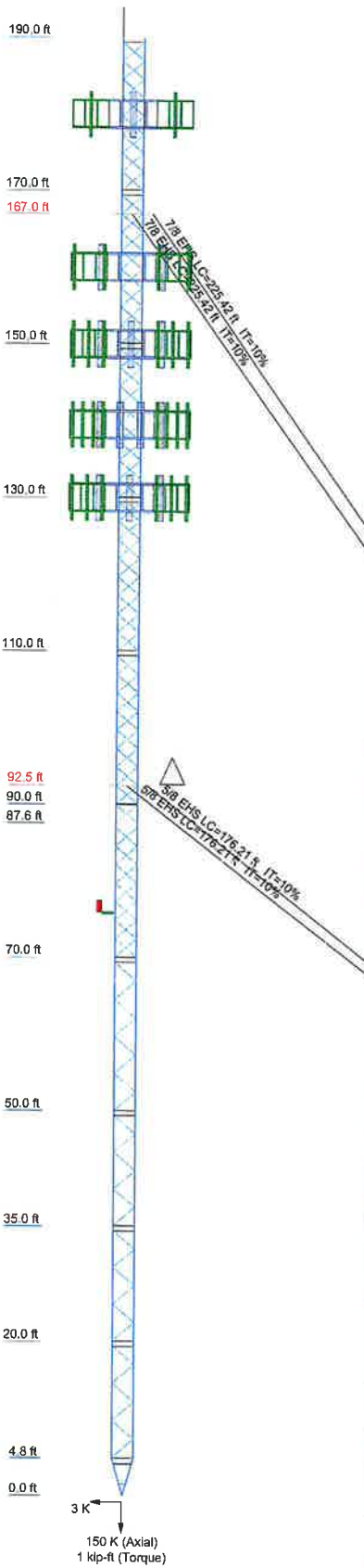
- TOWER DESIGN NOTES**
1. Tower is located in New London County, Connecticut.
 2. Tower designed for Exposure B to the TIA-222-H Standard.
 3. Tower designed for a 126 mph basic wind in accordance with the TIA-222-H Standard.
 4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is 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: 66.9%



ALL REACTIONS ARE FACTORED

| | | | |
|--|--------------------------------------|--------------------------------|-------------------|
| <p>GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101</p> | Job: CT10016-A Montville 3 CT | | |
| | Project: 2024778.10016.03 | | |
| | Client: SBA | Drawn by: bfranczkowski | App'd: |
| | Code: TIA-222-H | Date: 12/20/23 | Scale: NTS |
| | Path: | Dwg No: E-1 | |

| Section | 111 | 110 | 109 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 | 92 | 91 | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|--|
| Legs | | | | | | | | | | | | | | | | | | | | | | |
| Leg Grade | | | | | | | | | | | | | | | | | | | | | | |
| Diagonals | | | | | | | | | | | | | | | | | | | | | | |
| Top Girts | | | | | | | | | | | | | | | | | | | | | | |
| Bottom Girts | | | | | | | | | | | | | | | | | | | | | | |
| Horizontals | | | | | | | | | | | | | | | | | | | | | | |
| Top Guy Pull-Offs | | | | | | | | | | | | | | | | | | | | | | |
| Face Width (ft) | | | | | | | | | | | | | | | | | | | | | | |
| # Panels @ (ft) | | | | | | | | | | | | | | | | | | | | | | |
| Weight (K) | | | | | | | | | | | | | | | | | | | | | | |



DESIGNED APPURTENANCE LOADING

| TYPE | ELEVATION | TYPE | ELEVATION |
|---|-----------|---|-----------|
| Lightning Rod 4x5/8" | 190 | AIR 32 KRD901146-1 B66A/B2A w/ Mount Pipe | 150 |
| MTC3975083 Sector Mount (3) | 180 | (2) KRY 112 144/1 | 150 |
| (2) Pipe Mount 8x2.875" | 180 | (2) KRY 112 144/1 | 150 |
| (2) Pipe Mount 8x2.875" | 180 | (2) KRY 112 144/1 | 150 |
| (2) Pipe Mount 8x2.875" | 180 | (2) KRY 112 144/1 | 150 |
| FFVV-658-R2 w/ Mount Pipe | 180 | 4449 B71 + B12 | 150 |
| FFVV-658-R2 w/ Mount Pipe | 180 | 4449 B71 + B12 | 150 |
| FFVV-658-R2 w/ Mount Pipe | 180 | 4449 B71 + B12 | 150 |
| RF4450t-71A | 180 | Sector Mount (3) | 139.5 |
| RF4450t-71A | 180 | BXA-700636CF-EDIN w/ Mount Pipe | 139.5 |
| RF4450t-71A | 180 | BXA-700636CF-EDIN w/ Mount Pipe | 139.5 |
| RF4451d-70A | 180 | BXA-700636CF-EDIN w/ Mount Pipe | 139.5 |
| RF4451d-70A | 180 | (2) FD9R6004/2C-3L | 139.5 |
| RF4451d-70A | 180 | (2) FD9R6004/2C-3L | 139.5 |
| RDIDC-9181-PF-48 | 180 | (2) FD9R6004/2C-3L | 139.5 |
| Sector Mount (3) | 160 | MX06FRO660-03 w/ Mount Pipe | 139.5 |
| (2) Pipe Mount 5x2.375" | 160 | MX06FRO660-03 w/ Mount Pipe | 139.5 |
| (2) Pipe Mount 5x2.375" | 160 | MX06FRO660-03 w/ Mount Pipe | 139.5 |
| (2) Pipe Mount 5x2.375" | 160 | MX06FRO660-03 w/ 91900314 | 139.5 |
| Pipe Mount 6x2.375" | 160 | MX06FRO660-03 w/ 91900314 | 139.5 |
| Pipe Mount 6x2.375" | 160 | MX06FRO660-03 w/ 91900314 | 139.5 |
| Pipe Mount 6x2.375" | 160 | MT6413 77A w/ Mount Pipe | 139.5 |
| APXVSP18-C-A20 w/ Mount Pipe | 160 | MT6413 77A w/ Mount Pipe | 139.5 |
| APXVSP18-C-A20 w/ Mount Pipe | 160 | B2/B66A RRH ORAN (RF4439d-25A) | 139.5 |
| APXVSP18-C-A20 w/ Mount Pipe | 160 | B2/B66A RRH ORAN (RF4439d-25A) | 139.5 |
| APXVTM14-C-120 w/ Mount Pipe | 160 | B2/B66A RRH ORAN (RF4439d-25A) | 139.5 |
| APXVTM14-C-120 w/ Mount Pipe | 160 | B5/B13 RRH ORAN (RF4461d-13A) | 139.5 |
| APXVTM14-C-120 w/ Mount Pipe | 160 | B5/B13 RRH ORAN (RF4461d-13A) | 139.5 |
| (2) ACU-A20-N RET | 160 | B5/B13 RRH ORAN (RF4461d-13A) | 139.5 |
| ACU-A20-N RET | 160 | RVZDC-6627-PF-48 | 139.5 |
| ACU-A20-N RET | 160 | Sector Mount (3) | 130 |
| 1900 MHz RRH | 160 | AIR 6419 B77G w/ Mount Pipe | 130 |
| 1900 MHz RRH | 160 | AIR 6419 B77G w/ Mount Pipe | 130 |
| 1900 MHz RRH | 160 | AIR 6419 B77G w/ Mount Pipe | 130 |
| 800 MHz RRH | 160 | AIR 6449 B77D | 130 |
| 800 MHz RRH | 160 | AIR 6449 B77D | 130 |
| 800 MHz RRH | 160 | AIR 6449 B77D | 130 |
| TD-RRH8x20-25 | 160 | TPA65R-BU8DA-K w/ Mount pipe | 130 |
| TD-RRH8x20-25 | 160 | TPA65R-BU8DA-K w/ Mount Pipe | 130 |
| TD-RRH8x20-25 | 160 | OPA65R-BU8DA w/ Mount Pipe | 130 |
| 800 MHz External Notch Filters | 160 | OPA65R-BU4D w/ Mount Pipe | 130 |
| 800 MHz External Notch Filters | 160 | OPA65R-BU4DA w/ Mount Pipe | 130 |
| 800 MHz External Notch Filters | 160 | 4449 B5/B12 | 130 |
| Sector Mount (3) | 150 | 4449 B5/B12 | 130 |
| RR65-18-VDPL2 w/ Mount Pipe | 150 | 4449 B5/B12 | 130 |
| RR65-18-VDPL2 w/ Mount Pipe | 150 | 8843 B2/B66A | 130 |
| RR65-18-VDPL2 w/ Mount Pipe | 150 | 8843 B2/B66A | 130 |
| APXVAARR24_43-U-NA20 w/ 96" Mount Pipe | 150 | 8843 B2/B66A | 130 |
| APXVAARR24_43-U-NA20 w/ 96" Mount Pipe | 150 | DC6-48-60-18-8F | 130 |
| APXVAARR24_43-U-NA20 w/ 96" Mount Pipe | 150 | DC9-48-60-24-8C-EV | 130 |
| AIR 32 KRD901146-1 B66A/B2A w/ Mount Pipe | 150 | Side Arm Mount [SO 701-1] | 76 |
| AIR 32 KRD901146-1 B66A/B2A w/ Mount Pipe | 150 | GPS | 76 |

SYMBOL LIST

| MARK | SIZE | MARK | SIZE |
|------|-----------------|------|-------------|
| A | L2x2x1/4 | E | N.A. |
| B | A36 | F | 1 @ 2.4 |
| C | ROHN 1.5 x 16GA | G | 4 @ 1.36111 |
| D | L8x8x3/4 | | |

GPD MATERIAL STRENGTH
 520 South Main Street Suite 2531
 Akron, Ohio 44311
 Phone: (330) 572-2100
 FAX: (330) 572-2101

Project: 2024778.10016.03
 Client: SBA
 Code: TIA-222-H
 Path:
 Drawn by: bfranczkowski
 Date: 12/20/23
 App'd:
 Scale: NTS
 Dwg No. E-1

| | | |
|--|--|-------------------------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job CT10016-A Montville 3 CT | Page 1 of 36 |
| | Project 2024778.10016.03 | Date 14:37:44 12/20/23 |
| | Client SBA | Designed by bfranczkowski |

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 190.00 ft above the ground line.
The base of the tower is set at an elevation of 0.00 ft above the ground line.
The face width of the tower is 3.42 ft at the top and tapered at the base.
This tower is designed using the TIA-222-H standard.

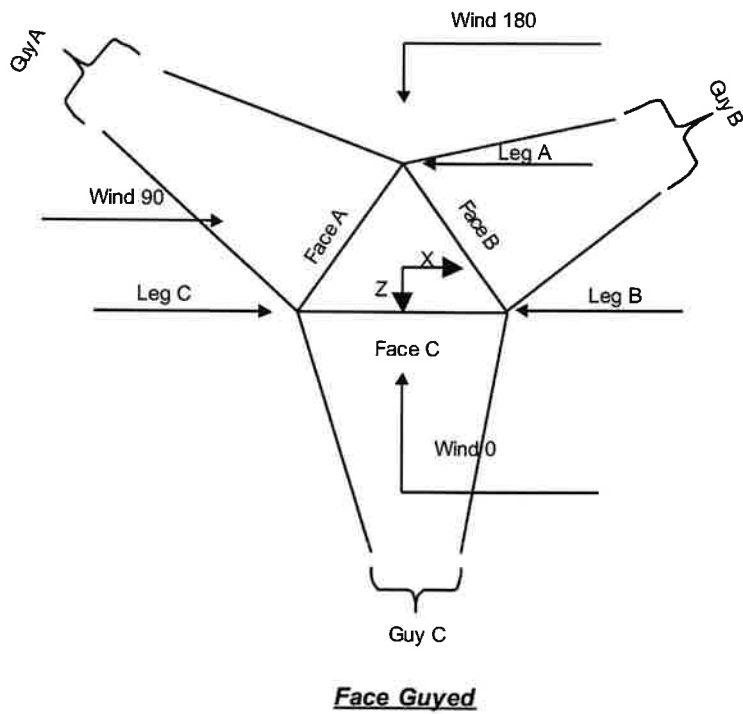
The following design criteria apply:

- Tower is located in New London County, Connecticut.
- Tower base elevation above sea level: 196.00 ft.
- Basic wind speed of 126 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 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.
- 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.

Options

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile √ Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric Distribute Leg Loads As Uniform | <ul style="list-style-type: none"> Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r √ Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurtenances Alternative Appurt. EPA Calculation √ Autocalc Torque Arm Areas Add IBC .6D+W Combination √ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs Use ASCE 10 X-Brace Ly Rules | <ul style="list-style-type: none"> √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|---|---|--|

| | | |
|--|--|-------------------------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job CT10016-A Montville 3 CT | Page 2 of 36 |
| | Project 2024778.10016.03 | Date 14:37:44 12/20/23 |
| | Client SBA | Designed by bfranczkowski |
| | | |



Tower Section Geometry

| <i>Tower Section</i> | <i>Tower Elevation</i> | <i>Assembly Database</i> | <i>Description</i> | <i>Section Width</i> | <i>Number of Sections</i> | <i>Section Length</i> |
|----------------------|------------------------|--------------------------|--------------------|----------------------|---------------------------|-----------------------|
| | <i>ft</i> | | | <i>ft</i> | | <i>ft</i> |
| T1 | 190.00-170.00 | | | 3.42 | 1 | 20.00 |
| T2 | 170.00-150.00 | | | 3.42 | 1 | 20.00 |
| T3 | 150.00-130.00 | | | 3.42 | 1 | 20.00 |
| T4 | 130.00-110.00 | | | 3.42 | 1 | 20.00 |
| T5 | 110.00-90.00 | | | 3.42 | 1 | 20.00 |
| T6 | 90.00-87.60 | | | 3.42 | 1 | 2.40 |
| T7 | 87.60-70.00 | | | 3.42 | 1 | 17.60 |
| T8 | 70.00-50.00 | | | 3.42 | 1 | 20.00 |
| T9 | 50.00-35.00 | | | 3.42 | 1 | 15.00 |
| T10 | 35.00-20.00 | | | 3.42 | 1 | 15.00 |
| T11 | 20.00-4.81 | | | 3.42 | 1 | 15.19 |
| T12 | 4.81-0.00 | | | 3.42 | 1 | 4.81 |

| | | |
|--|--|-------------------------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job CT10016-A Montville 3 CT | Page 3 of 36 |
| | Project 2024778.10016.03 | Date 14:37:44 12/20/23 |
| | Client SBA | Designed by bfranczkowski |

Tower Section Geometry (cont'd)

| Tower Section | Tower Elevation ft | Diagonal Spacing ft | Bracing Type | Has K Brace End Panels | Has Horizontals | Top Girt Offset in | Bottom Girt Offset in |
|---------------|-----------------------|------------------------|--------------|------------------------|-----------------|-----------------------|--------------------------|
| T1 | 190.00-170.00 | 2.41 | CX Brace | No | Yes | 7.3750 | 1.3750 |
| T2 | 170.00-150.00 | 2.41 | CX Brace | No | Yes | 7.3750 | 1.3750 |
| T3 | 150.00-130.00 | 2.41 | CX Brace | No | Yes | 7.3750 | 1.3750 |
| T4 | 130.00-110.00 | 2.41 | CX Brace | No | Yes | 7.3750 | 1.3750 |
| T5 | 110.00-90.00 | 2.41 | CX Brace | No | Yes | 7.3750 | 1.3750 |
| T6 | 90.00-87.60 | 2.40 | CX Brace | No | Yes | 0.0000 | 0.0000 |
| T7 | 87.60-70.00 | 2.41 | CX Brace | No | Yes | 7.3750 | 1.3750 |
| T8 | 70.00-50.00 | 2.41 | K Brace Left | No | Yes | 7.3750 | 1.3750 |
| T9 | 50.00-35.00 | 2.38 | K Brace Left | No | Yes | 7.3750 | 1.3750 |
| T10 | 35.00-20.00 | 2.38 | K Brace Left | No | Yes | 7.3750 | 1.3750 |
| T11 | 20.00-4.81 | 2.41 | K Brace Left | No | Yes | 7.3750 | 1.3750 |
| T12 | 4.81-0.00 | 1.36 | K Brace Left | No | Yes | 7.3750 | 1.3750 |

Tower Section Geometry (cont'd)

| Tower Elevation ft | Leg Type | Leg Size | Leg Grade | Diagonal Type | Diagonal Size | Diagonal Grade |
|-----------------------|-----------------|--------------------------------------|------------------|---------------|-----------------|-------------------|
| T1 190.00-170.00 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Equal Angle | L2x2x1/4 | A36 (36 ksi) |
| T2 170.00-150.00 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Equal Angle | L2x2x1/4 | A36 (36 ksi) |
| T3 150.00-130.00 | Arbitrary Shape | P 2-1/2 X-STR w/ Split P 3 STD (GPD) | A572-50 (50 ksi) | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) |
| T4 130.00-110.00 | Arbitrary Shape | P 2-1/2 X-STR w/ Split P 3 STD (GPD) | A500-46 (46 ksi) | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) |
| T5 110.00-90.00 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) |
| T6 90.00-87.60 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Equal Angle | L2x2x1/4 | A36 (36 ksi) |
| T7 87.60-70.00 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) |
| T8 70.00-50.00 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) |
| T9 50.00-35.00 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) |
| T10 35.00-20.00 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) |
| T11 20.00-4.81 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) |
| T12 4.81-0.00 | Pipe | ROHN 3 EH | A572-50 (50 ksi) | Equal Angle | | A36 (36 ksi) |

| | | |
|--|--|-------------------------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job CT10016-A Montville 3 CT | Page 4 of 36 |
| | Project 2024778.10016.03 | Date 14:37:44 12/20/23 |
| | Client SBA | Designed by bfranczkowski |

Tower Section Geometry (cont'd)

| Tower Elevation ft | Top Girt Type | Top Girt Size | Top Girt Grade | Bottom Girt Type | Bottom Girt Size | Bottom Girt Grade |
|-----------------------|---------------|-----------------|----------------------|------------------|------------------|----------------------|
| T1 190.00-170.00 | Equal Angle | L2x2x1/4 | A36 (36 ksi) | Equal Angle | L2x2x1/4 | A36 (36 ksi) |
| T2 170.00-150.00 | Single Angle | L2x2x1/4 | A36 (36 ksi) | Equal Angle | L2x2x1/4 | A53-B-42 (42 ksi) |
| T3 150.00-130.00 | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) |
| T4 130.00-110.00 | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) |
| T5 110.00-90.00 | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) |
| T6 90.00-87.60 | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) | Pipe | | A36 (36 ksi) |
| T7 87.60-70.00 | Pipe | | A36 (36 ksi) | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) |
| T8 70.00-50.00 | Pipe | ROHN 1.5 x 11GA | A53-B-42 (42 ksi) | Pipe | ROHN 1.5 x 11GA | A53-B-42 (42 ksi) |
| T9 50.00-35.00 | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) |
| T10 35.00-20.00 | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) | Pipe | ROHN 1.5 x 16GA | A53-B-42 (42 ksi) |
| T11 20.00-4.81 | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) | Pipe | ROHN 1.5 x 11GA | A500-42 (42 ksi) |
| T12 4.81-0.00 | Equal Angle | L8x8x3/4 | A36 (36 ksi) | Equal Angle | L8x8x3/4 | A36 (36 ksi) |

Tower Section Geometry (cont'd)

| Tower Elevation ft | No. of Mid Girts | Mid Girt Type | Mid Girt Size | Mid Girt Grade | Horizontal Type | Horizontal Size | Horizontal Grade |
|-----------------------|------------------|---------------|---------------|-----------------|-----------------|-----------------|------------------|
| T12 4.81-0.00 | None | Flat Bar | | A36 (36 ksi) | Equal Angle | L8x8x3/4 | A36 (36 ksi) |

Tower Section Geometry (cont'd)

| Tower Elevation ft | Gusset Area (per face) ft ² | Gusset Thickness in | Gusset Grade | Adjust. Factor A _f | Adjust. Factor A _r | Weight Mult. | Double Angle Stitch Bolt Spacing Diagonals in | Double Angle Stitch Bolt Spacing Horizontal in | Double Angle Stitch Bolt Spacing Redundants in |
|-----------------------|--|------------------------|-----------------|----------------------------------|----------------------------------|--------------|---|--|--|
| T1 190.00-170.00 | 0.00 | 0.3750 | A36 (36 ksi) | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| T2 170.00-150.00 | 0.00 | 0.3750 | A36 (36 ksi) | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| T3 150.00-130.00 | 0.00 | 0.3750 | A36 (36 ksi) | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| T4 | 0.00 | 0.1757 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |

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| Tower Elevation | Gusset Area (per face) | Gusset Thickness | Gusset Grade | Adjust. Factor A_r | Adjust. Factor A_s | Weight Mult. | Double Angle Stitch Bolt Spacing Diagonals | Double Angle Stitch Bolt Spacing Horizontals | Double Angle Stitch Bolt Spacing Redundants |
|-----------------|------------------------|------------------|--------------|----------------------|----------------------|--------------|--|--|---|
| ft | ft ² | in | | | | | in | in | in |
| 130.00-110.00 | | | (36 ksi) | | | | | | |
| T5 | 0.00 | 0.3750 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 110.00-90.00 | | | (36 ksi) | | | | | | |
| T6 90.00-87.60 | 0.00 | 0.3750 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| T7 87.60-70.00 | 0.00 | 0.3750 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| T8 70.00-50.00 | 0.00 | 0.3750 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| T9 50.00-35.00 | 0.00 | 0.3750 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| T10 | 0.00 | 0.3750 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| 35.00-20.00 | | | (36 ksi) | | | | | | |
| T11 20.00-4.81 | 0.00 | 0.3750 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |
| T12 4.81-0.00 | 0.00 | 0.3750 | A36 | 1 | 1 | 1 | 36.0000 | 36.0000 | 36.0000 |

Tower Section Geometry (cont'd)

| Tower Elevation | Calc K Single Angles | Calc K Solid Rounds | K Factors ¹ | | | | | | | | | |
|-----------------|----------------------|---------------------|------------------------|---------------|---------------|--------------|-------|--------|-------------|-------------|---|---|
| | | | Legs | X Brace Diags | K Brace Diags | Single Diags | Girts | Horiz. | Sec. Horiz. | Inner Brace | | |
| | | | | | | | | | | | X | Y |
| ft | | | | | | | | | | | | |
| T1 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 190.00-170.00 | | | | | | | | | | | | |
| T2 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 170.00-150.00 | | | | | | | | | | | | |
| T3 | Yes | No | 1.1819 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 150.00-130.00 | | | | | | | | | | | | |
| T4 | Yes | No | 1.1819 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 130.00-110.00 | | | | | | | | | | | | |
| T5 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 110.00-90.00 | | | | | | | | | | | | |
| T6 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 90.00-87.60 | | | | | | | | | | | | |
| T7 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 87.60-70.00 | | | | | | | | | | | | |
| T8 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70.00-50.00 | | | | | | | | | | | | |
| T9 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 50.00-35.00 | | | | | | | | | | | | |
| T10 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 35.00-20.00 | | | | | | | | | | | | |
| T11 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20.00-4.81 | | | | | | | | | | | | |
| T12 4.81-0.00 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

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

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Tower Section Geometry (cont'd)

| Tower Elevation ft | Leg | | Diagonal | | Top Girt | | Bottom Girt | | Mid Girt | | Long Horizontal | | Short Horizontal | |
|-----------------------|---------------------------|---|---------------------------|------|---------------------------|------|------------------------------|------|------------------------------|------|------------------------------|------|------------------------------|------|
| | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| T1 190.00-170.00 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T2 170.00-150.00 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T3 150.00-130.00 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T4 130.00-110.00 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T5 110.00-90.00 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T6 90.00-87.60 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T7 87.60-70.00 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T8 70.00-50.00 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T9 50.00-35.00 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T10 35.00-20.00 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T11 20.00-4.81 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| T12 4.81-0.00 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 1 | 0.0000 | 0.75 |

| Tower Elevation ft | Redundant Horizontal | | Redundant Diagonal | | Redundant Sub-Diagonal | | Redundant Sub-Horizontal | | Redundant Vertical | | Redundant Hip | | Redundant Hip Diagonal | |
|-----------------------|---------------------------|----------|---------------------------|----------|---------------------------|------|------------------------------|------|------------------------------|------|------------------------------|----------|------------------------------|----------|
| | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| T1 190.00-170.00 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| T2 170.00-150.00 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| T3 150.00-130.00 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| T4 130.00-110.00 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |

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| Tower Elevation ft | Redundant Horizontal | | Redundant Diagonal | | Redundant Sub-Diagonal | | Redundant Sub-Horizontal | | Redundant Vertical | | Redundant Hip | | Redundant Hip Diagonal | |
|--------------------------|---------------------------|----------|---------------------------|----------|---------------------------|------|------------------------------|------|------------------------------|------|------------------------------|----------|------------------------------|----------|
| | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| T5 110.00-90.00 | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| T6 90.00-87.60 | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| T7 87.60-70.00 | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| T8 70.00-50.00 | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| T9 50.00-35.00 | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| T10 35.00-20.00 | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| T11 20.00-4.81 | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |

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| Tower Elevation ft | Redundant Horizontal | | Redundant Diagonal | | Redundant Sub-Diagonal | | Redundant Sub-Horizontal | | Redundant Vertical | | Redundant Hip | | Redundant Hip Diagonal | |
|-----------------------|---------------------------|----------|---------------------------|----------|---------------------------|------|------------------------------|------|------------------------------|------|------------------------------|----------|------------------------------|----------|
| | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| T12 4.81-0.00 | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |
| | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 (1) | 0.0000 | 0.75 (1) |
| | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) | | | | | | | 0.0000 | 0.75 (2) | 0.0000 | 0.75 (2) |
| | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) | | | | | | | 0.0000 | 0.75 (3) | 0.0000 | 0.75 (3) |
| | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) | | | | | | | 0.0000 | 0.75 (4) | 0.0000 | 0.75 (4) |

Tower Section Geometry (cont'd)

| Tower Elevation ft | Leg Connection Type | Leg | | Diagonal | | Top Girt | | Bottom Girt | | Mid Girt | | Long Horizontal | | Short Horizontal | |
|-----------------------|------------------------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|
| | | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. |
| T1 190.00-170.00 | Flange | 0.7500 | 4 | 0.6250 | 1 | 0.6250 | 1 | 0.6250 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T2 170.00-150.00 | Flange | 0.7500 | 4 | 0.6250 | 1 | 0.6250 | 1 | 0.6250 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T3 150.00-130.00 | Flange | 0.7500 | 4 | 0.5000 | 1 | 0.5000 | 1 | 0.5000 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T4 130.00-110.00 | Flange | 0.7500 | 4 | 0.5000 | 1 | 0.5000 | 1 | 0.5000 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T5 110.00-90.00 | Flange | 0.7500 | 4 | 0.5000 | 1 | 0.5000 | 1 | 0.5000 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T6 90.00-87.60 | Flange | 0.7500 | 0 | 0.6250 | 1 | 0.5000 | 1 | 0.5000 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T7 87.60-70.00 | Flange | 0.7500 | 4 | 0.5000 | 1 | 0.5000 | 0 | 0.6250 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T8 70.00-50.00 | Flange | 0.7500 | 4 | 0.5000 | 1 | 0.5000 | 1 | 0.5000 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T9 50.00-35.00 | Flange | 0.7500 | 4 | 0.5000 | 1 | 0.5000 | 1 | 0.5000 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T10 35.00-20.00 | Flange | 0.7500 | 4 | 0.5000 | 1 | 0.5000 | 1 | 0.5000 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| T11 20.00-4.81 | Flange | 0.7500 | 4 | 0.5000 | 1 | 0.5000 | 1 | 0.5000 | 1 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |

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| | Project | 2024778.10016.03 | Date | 14:37:44 12/20/23 |
| | Client | SBA | Designed by | bfranczkowski |

| Tower Elevation ft | Leg Connection Type | Leg | | Diagonal | | Top Girt | | Bottom Girt | | Mid Girt | | Long Horizontal | | Short Horizontal | |
|-----------------------|---------------------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|
| | | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. |
| T12 4.81-0.00 | Flange | 0.7500 A325X | 0 | 0.5000 A325X | 1 | 0.6250 A325X | 0 | 0.5000 A325X | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 |

Guy Data

| Guy Elevation ft | Guy Grade | Guy Size | Initial Tension K | % | Guy Modulus ksi | Guy Weight plf | L _w ft | Anchor Radius ft | Anchor Azimuth Adj. ° | Anchor Elevation ft | End Fitting Efficiency % |
|---------------------|-----------|----------|----------------------|-----|--------------------|-------------------|----------------------|---------------------|--------------------------|------------------------|-----------------------------|
| 166.977 | EHS | A 7/8 | 7.97 | 10% | 24000 | 1.581 | 205.69 | 150.00 | 0.0000 | 24.00 | 100% |
| | | B 7/8 | 7.97 | 10% | 24000 | 1.581 | 225.27 | 150.00 | 0.0000 | -3.00 | 100% |
| | | C 7/8 | 7.97 | 10% | 24000 | 1.581 | 207.08 | 150.00 | 0.0000 | 22.00 | 100% |
| 92.5234 | EHS | A 5/8 | 4.24 | 10% | 23000 | 0.813 | 163.03 | 150.00 | 0.0000 | 24.00 | 100% |
| | | B 5/8 | 4.24 | 10% | 23000 | 0.813 | 176.07 | 150.00 | 0.0000 | -3.00 | 100% |
| | | C 5/8 | 4.24 | 10% | 23000 | 0.813 | 163.88 | 150.00 | 0.0000 | 22.00 | 100% |

Guy Data(cont'd)

| Guy Elevation ft | Mount Type | Torque-Arm Spread ft | Torque-Arm Leg Angle ° | Torque-Arm Style | Torque-Arm Grade | Torque-Arm Type | Torque-Arm Size |
|---------------------|------------|-------------------------|---------------------------|------------------|------------------|-----------------|-----------------|
| 166.977 | Torque Arm | 6.83 | 0.0000 | Channel | A36 (36 ksi) | Channel | MC18x42.7 |
| 92.5234 | Torque Arm | 6.83 | 0.0000 | Channel | A36 (36 ksi) | Channel | C12x20.7 |

Guy Data (cont'd)

| Guy Elevation ft | Diagonal Grade | Diagonal Type | Upper Diagonal Size | Lower Diagonal Size | Is Strap. | Pull-Off Grade | Pull-Off Type | Pull-Off Size |
|---------------------|---------------------|---------------|---------------------|---------------------|-----------|-----------------|--------------------|---------------|
| 166.98 | A572-50 (50 ksi) | Solid Round | | | No | A36 (36 ksi) | Double Equal Angle | 2L2x2x1/4 |
| 92.52 | A572-50 (50 ksi) | Solid Round | | | No | A36 (36 ksi) | Double Equal Angle | 2L2x2x1/4 |

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Guy Data (cont'd)

| Guy Elevation ft | Cable Weight A K | Cable Weight B K | Cable Weight C K | Cable Weight D K | Tower Intercept | | Tower Intercept | |
|---------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|---------|
| | | | | | A ft | B ft | C ft | D ft |
| 166.977 | 0.33 | 0.36 | 0.33 | | 4.14 | 4.95 | 4.20 | |
| 92.5234 | 0.13 | 0.14 | 0.13 | | 3.5 sec/pulse 2.53 | 3.8 sec/pulse 2.95 | 3.5 sec/pulse 2.56 | |
| | | | | | 2.7 sec/pulse | 3.0 sec/pulse | 2.8 sec/pulse | |

Guy Data (cont'd)

| Guy Elevation ft | Calc K Single Angles | Calc K Solid Rounds | Torque Arm | | Pull Off | | Diagonal | |
|---------------------|-------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | K _x | K _y | K _x | K _y | K _x | K _y |
| 166.977 | No | No | 1 | 1 | 1 | 1 | 1 | 1 |
| 92.5234 | No | No | 1 | 1 | 1 | 1 | 1 | 1 |

Guy Data (cont'd)

| Guy Elevation ft | Torque-Arm | | | | Pull Off | | | | Diagonal | | | |
|---------------------|-----------------|--------|---------------------------|------|-----------------|--------|---------------------------|------|-----------------|--------|---------------------------|------|
| | Bolt Size in | Number | Net Width Deduct in | U | Bolt Size in | Number | Net Width Deduct in | U | Bolt Size in | Number | Net Width Deduct in | U |
| 166.977 | 0.8750 A325N | 2 | 0.0000 | 0.75 | 0.6250 A325N | 0 | 0.0000 | 0.75 | 0.6250 A325N | 0 | 0.0000 | 0.75 |
| 92.5234 | 0.8750 A325N | 2 | 0.0000 | 0.75 | 0.6250 A325N | 0 | 0.0000 | 0.75 | 0.6250 A325N | 0 | 0.0000 | 0.75 |

Guy Pressures

| Guy Elevation ft | Guy Location | z ft | q _z psf | q _z Ice psf | Ice Thickness in |
|---------------------|--------------|---------|-----------------------|------------------------------|------------------------|
| 166.977 | A | 95.49 | 33 | 5 | 1.1121 |
| | B | 81.99 | 32 | 5 | 1.0953 |
| | C | 94.49 | 33 | 5 | 1.1109 |
| 92.5234 | A | 58.26 | 29 | 5 | 1.0585 |
| | B | 44.76 | 27 | 4 | 1.0310 |
| | C | 57.26 | 29 | 5 | 1.0567 |

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Feed Line/Linear Appurtenances - Entered As Round Or Flat

| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft | Face Offset in | Lateral Offset (Frac FW) | # | # Per Row | Clear Spacing in | Width or Diameter in | Perimeter in | Weight plf |
|---------------------------------|-------------|--------------|---------------------------------|----------------|---------------|----------------|--------------------------|----|-----------|------------------|----------------------|--------------|------------|
| Climbing Pegs | A | No | No | Ar (CaAa) | 190.00 - 8.00 | 0.0000 | 0.5 | 1 | 1 | 0.2500 | 0.1500 | | 0.31 |
| Safety Line (3/8") *** | A | No | No | Ar (CaAa) | 190.00 - 8.00 | 0.0000 | 0.5 | 1 | 1 | 0.3750 | 0.3750 | | 0.22 |
| Guyed Tower Coax Bracket | A | No | No | Af (CaAa) | 190.00 - 8.00 | 0.0000 | 0 | 1 | 1 | 1.7599 | 1.7599 | | 0.75 |
| Guyed Tower Coax Bracket | B | No | No | Af (CaAa) | 190.00 - 8.00 | 0.0000 | 0 | 1 | 1 | 1.7599 | 1.7599 | | 0.75 |
| Guyed Tower Coax Bracket *** | C | No | No | Af (CaAa) | 190.00 - 8.00 | 0.0000 | 0 | 1 | 1 | 1.7599 | 1.7599 | | 0.75 |
| LDF7-50A (1-5/8 FOAM) *** | A | No | No | Ar (CaAa) | 150.00 - 8.00 | 0.0000 | 0.1 | 13 | 7 | 0.6250 | 1.9800 | | 0.82 |
| 1-5/8" Hybrid *** | A | No | No | Ar (CaAa) | 139.50 - 8.00 | 0.0000 | -0.25 | 2 | 2 | 0.6250 | 1.9800 | | 0.82 |
| 2" Flex Conduit | C | No | No | Ar (CaAa) | 130.00 - 8.00 | 0.0000 | 0.4 | 1 | 1 | 1.0000 | 2.0000 | | 0.32 |
| 1/2" Fiber Cable | C | No | No | Ar (CaAa) | 130.00 - 8.00 | 0.0000 | 0.4 | 2 | 2 | 0.0000 | 0.6300 | | 0.15 |
| 3/4" DC Power Line | C | No | No | Ar (CaAa) | 130.00 - 8.00 | 0.0000 | 0.4 | 4 | 4 | 0.0000 | 0.7500 | | 0.33 |
| LDF6-50A (1-1/4 FOAM) *** | C | No | No | Ar (CaAa) | 130.00 - 8.00 | 0.0000 | 0 | 12 | 6 | 1.0000 | 1.5500 | | 0.66 |
| 1-3/4" Hybrid *** | C | No | No | Ar (CaAa) | 180.00 - 8.00 | 0.0000 | -0.25 | 1 | 1 | 1.0000 | 1.7500 | | 1.00 |
| LDF4P-50A (1/2 FOAM) *** | C | No | No | Ar (CaAa) | 76.00 - 8.00 | 0.0000 | -0.3 | 1 | 1 | 1.0000 | 0.6300 | | 0.15 |
| LDF7-50A (1-5/8 FOAM) *** | B | No | No | Ar (CaAa) | 139.50 - 8.00 | 0.0000 | 0.1 | 7 | 7 | 0.6250 | 1.9800 | | 0.82 |
| 1-1/4" Hybrid Cable *** | B | No | No | Ar (CaAa) | 160.00 - 8.00 | 0.0000 | -0.25 | 4 | 3 | 1.0000 | 1.2500 | | 1.00 |

Feed Line/Linear Appurtenances Section Areas

| Tower Section | Tower Elevation ft | Face | A _R ft ² | A _F ft ² | C _A A _A In Face ft ² | C _A A _A Out Face ft ² | Weight K |
|---------------|--------------------|------|--------------------------------|--------------------------------|---|--|----------|
| T1 | 190.00-170.00 | A | 0.000 | 0.000 | 6.916 | 0.000 | 0.03 |
| | | B | 0.000 | 0.000 | 5.866 | 0.000 | 0.01 |
| | | C | 0.000 | 0.000 | 7.616 | 0.000 | 0.02 |
| T2 | 170.00-150.00 | A | 0.000 | 0.000 | 6.916 | 0.000 | 0.03 |
| | | B | 0.000 | 0.000 | 10.866 | 0.000 | 0.05 |
| | | C | 0.000 | 0.000 | 9.366 | 0.000 | 0.03 |
| T3 | 150.00-130.00 | A | 0.000 | 0.000 | 62.158 | 0.000 | 0.25 |
| | | B | 0.000 | 0.000 | 29.033 | 0.000 | 0.15 |
| | | C | 0.000 | 0.000 | 9.366 | 0.000 | 0.03 |

| | | | | |
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| Tower Section | Tower Elevation ft | Face | A _R ft ² | A _F ft ² | C _{A_A} In Face ft ² | C _{A_A} Out Face ft ² | Weight K |
|---------------|-----------------------|------|-----------------------------------|-----------------------------------|--|---|-------------|
| T4 | 130.00-110.00 | A | 0.000 | 0.000 | 66.316 | 0.000 | 0.27 |
| | | B | 0.000 | 0.000 | 43.586 | 0.000 | 0.21 |
| | | C | 0.000 | 0.000 | 59.086 | 0.000 | 0.23 |
| T5 | 110.00-90.00 | A | 0.000 | 0.000 | 66.316 | 0.000 | 0.27 |
| | | B | 0.000 | 0.000 | 43.586 | 0.000 | 0.21 |
| | | C | 0.000 | 0.000 | 59.086 | 0.000 | 0.23 |
| T6 | 90.00-87.60 | A | 0.000 | 0.000 | 7.958 | 0.000 | 0.03 |
| | | B | 0.000 | 0.000 | 5.230 | 0.000 | 0.03 |
| | | C | 0.000 | 0.000 | 7.090 | 0.000 | 0.03 |
| T7 | 87.60-70.00 | A | 0.000 | 0.000 | 58.358 | 0.000 | 0.24 |
| | | B | 0.000 | 0.000 | 38.356 | 0.000 | 0.18 |
| | | C | 0.000 | 0.000 | 52.374 | 0.000 | 0.21 |
| T8 | 70.00-50.00 | A | 0.000 | 0.000 | 66.316 | 0.000 | 0.27 |
| | | B | 0.000 | 0.000 | 43.586 | 0.000 | 0.21 |
| | | C | 0.000 | 0.000 | 60.346 | 0.000 | 0.24 |
| T9 | 50.00-35.00 | A | 0.000 | 0.000 | 49.737 | 0.000 | 0.20 |
| | | B | 0.000 | 0.000 | 32.690 | 0.000 | 0.16 |
| | | C | 0.000 | 0.000 | 45.260 | 0.000 | 0.18 |
| T10 | 35.00-20.00 | A | 0.000 | 0.000 | 49.737 | 0.000 | 0.20 |
| | | B | 0.000 | 0.000 | 32.690 | 0.000 | 0.16 |
| | | C | 0.000 | 0.000 | 45.260 | 0.000 | 0.18 |
| T11 | 20.00-4.81 | A | 0.000 | 0.000 | 39.790 | 0.000 | 0.16 |
| | | B | 0.000 | 0.000 | 26.152 | 0.000 | 0.13 |
| | | C | 0.000 | 0.000 | 36.208 | 0.000 | 0.14 |
| T12 | 4.81-0.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |

Feed Line/Linear Appurtenances Section Areas - With Ice

| Tower Section | Tower Elevation ft | Face or Leg | Ice Thickness in | A _R ft ² | A _F ft ² | C _{A_A} In Face ft ² | C _{A_A} Out Face ft ² | Weight K |
|---------------|-----------------------|-------------|---------------------|-----------------------------------|-----------------------------------|--|---|-------------|
| T1 | 190.00-170.00 | A | 1.185 | 0.000 | 0.000 | 21.135 | 0.000 | 0.19 |
| | | B | | 0.000 | 0.000 | 10.606 | 0.000 | 0.09 |
| | | C | | 0.000 | 0.000 | 14.726 | 0.000 | 0.15 |
| T2 | 170.00-150.00 | A | 1.171 | 0.000 | 0.000 | 20.968 | 0.000 | 0.19 |
| | | B | | 0.000 | 0.000 | 23.026 | 0.000 | 0.24 |
| | | C | | 0.000 | 0.000 | 18.734 | 0.000 | 0.20 |
| T3 | 150.00-130.00 | A | 1.155 | 0.000 | 0.000 | 83.129 | 0.000 | 1.15 |
| | | B | | 0.000 | 0.000 | 59.530 | 0.000 | 0.67 |
| | | C | | 0.000 | 0.000 | 18.610 | 0.000 | 0.19 |
| T4 | 130.00-110.00 | A | 1.138 | 0.000 | 0.000 | 93.343 | 0.000 | 1.23 |
| | | B | | 0.000 | 0.000 | 85.977 | 0.000 | 0.96 |
| | | C | | 0.000 | 0.000 | 98.064 | 0.000 | 1.25 |
| T5 | 110.00-90.00 | A | 1.117 | 0.000 | 0.000 | 92.824 | 0.000 | 1.22 |
| | | B | | 0.000 | 0.000 | 85.629 | 0.000 | 0.95 |
| | | C | | 0.000 | 0.000 | 97.399 | 0.000 | 1.23 |
| T6 | 90.00-87.60 | A | 1.104 | 0.000 | 0.000 | 11.099 | 0.000 | 0.14 |
| | | B | | 0.000 | 0.000 | 10.249 | 0.000 | 0.11 |
| | | C | | 0.000 | 0.000 | 11.637 | 0.000 | 0.15 |
| T7 | 87.60-70.00 | A | 1.091 | 0.000 | 0.000 | 81.101 | 0.000 | 1.05 |
| | | B | | 0.000 | 0.000 | 74.962 | 0.000 | 0.82 |
| | | C | | 0.000 | 0.000 | 86.651 | 0.000 | 1.08 |
| T8 | 70.00-50.00 | A | 1.062 | 0.000 | 0.000 | 91.420 | 0.000 | 1.18 |
| | | B | | 0.000 | 0.000 | 84.689 | 0.000 | 0.91 |
| | | C | | 0.000 | 0.000 | 101.108 | 0.000 | 1.24 |
| T9 | 50.00-35.00 | A | 1.026 | 0.000 | 0.000 | 67.885 | 0.000 | 0.86 |

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| Tower Section | Tower Elevation ft | Face or Leg | Ice Thickness in | A _R ft ² | A _F ft ² | C _A A _A In Face ft ² | C _A A _A Out Face ft ² | Weight K |
|---------------|-----------------------|-------------|---------------------|-----------------------------------|-----------------------------------|---|--|-------------|
| T10 | 35.00-20.00 | B | 0.982 | 0.000 | 0.000 | 63.061 | 0.000 | 0.67 |
| | | C | | 0.000 | 0.000 | 74.852 | 0.000 | 0.90 |
| | | A | | 0.000 | 0.000 | 67.059 | 0.000 | 0.84 |
| T11 | 20.00-4.81 | B | 0.907 | 0.000 | 0.000 | 62.508 | 0.000 | 0.65 |
| | | C | | 0.000 | 0.000 | 73.664 | 0.000 | 0.88 |
| | | A | | 0.000 | 0.000 | 52.512 | 0.000 | 0.64 |
| T12 | 4.81-0.00 | B | 0.770 | 0.000 | 0.000 | 49.247 | 0.000 | 0.49 |
| | | C | | 0.000 | 0.000 | 57.298 | 0.000 | 0.66 |
| | | A | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |

Feed Line Center of Pressure

| Section | Elevation ft | CP _x in | CP _z in | CP _x Ice in | CP _z Ice in |
|---------|-----------------|-----------------------|-----------------------|------------------------------|------------------------------|
| T1 | 190.00-170.00 | 0.1988 | -0.0324 | 0.2119 | -1.0596 |
| T2 | 170.00-150.00 | 0.7047 | -0.6448 | 0.6379 | -1.4061 |
| T3 | 150.00-130.00 | -0.5176 | -4.1470 | -0.1712 | -3.6418 |
| T4 | 130.00-110.00 | -0.4777 | -2.3322 | -0.4971 | -2.0453 |
| T5 | 110.00-90.00 | -0.4718 | -2.3088 | -0.4899 | -2.0254 |
| T6 | 90.00-87.60 | -0.4126 | -2.0867 | -0.3796 | -1.6231 |
| T7 | 87.60-70.00 | -0.4449 | -2.3020 | -0.4235 | -2.0291 |
| T8 | 70.00-50.00 | -0.3951 | -2.3217 | -0.2899 | -2.0983 |
| T9 | 50.00-35.00 | -0.3938 | -2.3148 | -0.2907 | -2.0989 |
| T10 | 35.00-20.00 | -0.3938 | -2.3148 | -0.2934 | -2.1111 |
| T11 | 20.00-4.81 | -0.3686 | -2.1708 | -0.2782 | -1.9985 |
| T12 | 4.81-0.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Shielding Factor Ka

| Tower Section | Feed Line Record No. | Description | Feed Line Segment Elev. | K _a No Ice | K _a Ice |
|---------------|----------------------|--------------------------|-------------------------|--------------------------|-----------------------|
| T1 | 1 | Climbing Pegs | 170.00 - | 0.6000 | 0.4352 |
| | | | 190.00 | | |
| T1 | 2 | Safety Line (3/8") | 170.00 - | 0.6000 | 0.4352 |
| | | | 190.00 | | |
| T1 | 4 | Guyed Tower Coax Bracket | 170.00 - | 0.6000 | 0.4352 |
| | | | 190.00 | | |
| T1 | 5 | Guyed Tower Coax Bracket | 170.00 - | 0.6000 | 0.4352 |
| | | | 190.00 | | |
| T1 | 6 | Guyed Tower Coax Bracket | 170.00 - | 0.6000 | 0.4352 |
| | | | 190.00 | | |
| T1 | 17 | 1-3/4" Hybrid | 170.00 - | 0.6000 | 0.4352 |
| | | | 180.00 | | |
| T2 | 1 | Climbing Pegs | 150.00 - | 0.6000 | 0.4236 |
| | | | 170.00 | | |
| T2 | 2 | Safety Line (3/8") | 150.00 - | 0.6000 | 0.4236 |
| | | | 170.00 | | |
| T2 | 4 | Guyed Tower Coax Bracket | 150.00 - | 0.6000 | 0.4236 |

| | | | | |
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| Tower Section | Feed Line Record No. | Description | Feed Line Segment Elev. | K_a No Ice | K_a Ice |
|---------------|----------------------|--------------------------|-------------------------|-----------------|--------------|
| | | | 170.00 | | |
| T2 | 5 | Guyed Tower Coax Bracket | 150.00 - | 0.6000 | 0.4236 |
| | | | 170.00 | | |
| T2 | 6 | Guyed Tower Coax Bracket | 150.00 - | 0.6000 | 0.4236 |
| | | | 170.00 | | |
| T2 | 17 | 1-3/4" Hybrid | 150.00 - | 0.6000 | 0.4236 |
| | | | 170.00 | | |
| T2 | 23 | 1-1/4" Hybrid Cable | 150.00 - | 0.6000 | 0.4236 |
| | | | 160.00 | | |
| T3 | 1 | Climbing Pegs | 130.00 - | 0.6000 | 0.4679 |
| | | | 150.00 | | |
| T3 | 2 | Safety Line (3/8") | 130.00 - | 0.6000 | 0.4679 |
| | | | 150.00 | | |
| T3 | 4 | Guyed Tower Coax Bracket | 130.00 - | 0.6000 | 0.4679 |
| | | | 150.00 | | |
| T3 | 5 | Guyed Tower Coax Bracket | 130.00 - | 0.6000 | 0.4679 |
| | | | 150.00 | | |
| T3 | 6 | Guyed Tower Coax Bracket | 130.00 - | 0.6000 | 0.4679 |
| | | | 150.00 | | |
| T3 | 8 | LDF7-50A (1-5/8 FOAM) | 130.00 - | 0.6000 | 0.4679 |
| | | | 150.00 | | |
| T3 | 10 | 1-5/8" Hybrid | 130.00 - | 0.6000 | 0.4679 |
| | | | 139.50 | | |
| T3 | 17 | 1-3/4" Hybrid | 130.00 - | 0.6000 | 0.4679 |
| | | | 150.00 | | |
| T3 | 21 | LDF7-50A (1-5/8 FOAM) | 130.00 - | 0.6000 | 0.4679 |
| | | | 139.50 | | |
| T3 | 23 | 1-1/4" Hybrid Cable | 130.00 - | 0.6000 | 0.4679 |
| | | | 150.00 | | |
| T4 | 1 | Climbing Pegs | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 2 | Safety Line (3/8") | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 4 | Guyed Tower Coax Bracket | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 5 | Guyed Tower Coax Bracket | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 6 | Guyed Tower Coax Bracket | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 8 | LDF7-50A (1-5/8 FOAM) | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 10 | 1-5/8" Hybrid | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 12 | 2" Flex Conduit | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 13 | 1/2" Fiber Cable | 110.00 - | 0.0000 | 0.0000 |
| | | | 130.00 | | |
| T4 | 14 | 3/4" DC Power Line | 110.00 - | 0.0000 | 0.0000 |
| | | | 130.00 | | |
| T4 | 15 | LDF6-50A (1-1/4 FOAM) | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 17 | 1-3/4" Hybrid | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 21 | LDF7-50A (1-5/8 FOAM) | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T4 | 23 | 1-1/4" Hybrid Cable | 110.00 - | 0.6000 | 0.4716 |
| | | | 130.00 | | |
| T5 | 1 | Climbing Pegs | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 2 | Safety Line (3/8") | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 4 | Guyed Tower Coax Bracket | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 5 | Guyed Tower Coax Bracket | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 6 | Guyed Tower Coax Bracket | 90.00 - 110.00 | 0.6000 | 0.4710 |

| | | |
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| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job CT10016-A Montville 3 CT | Page 15 of 36 |
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| | Client SBA | Designed by bfranczkowski |

| Tower Section | Feed Line Record No. | Description | Feed Line Segment Elev. | K _a No Ice | K _a Ice |
|---------------|----------------------|--------------------------|-------------------------|-----------------------|--------------------|
| T5 | 8 | LDF7-50A (1-5/8 FOAM) | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 10 | 1-5/8" Hybrid | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 12 | 2" Flex Conduit | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 13 | 1/2" Fiber Cable | 90.00 - 110.00 | 0.0000 | 0.0000 |
| T5 | 14 | 3/4" DC Power Line | 90.00 - 110.00 | 0.0000 | 0.0000 |
| T5 | 15 | LDF6-50A (1-1/4 FOAM) | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 17 | 1-3/4" Hybrid | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 21 | LDF7-50A (1-5/8 FOAM) | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T5 | 23 | 1-1/4" Hybrid Cable | 90.00 - 110.00 | 0.6000 | 0.4710 |
| T6 | 1 | Climbing Pegs | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 2 | Safety Line (3/8") | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 4 | Guyed Tower Coax Bracket | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 5 | Guyed Tower Coax Bracket | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 6 | Guyed Tower Coax Bracket | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 8 | LDF7-50A (1-5/8 FOAM) | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 10 | 1-5/8" Hybrid | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 12 | 2" Flex Conduit | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 13 | 1/2" Fiber Cable | 87.60 - 90.00 | 0.0000 | 0.0000 |
| T6 | 14 | 3/4" DC Power Line | 87.60 - 90.00 | 0.0000 | 0.0000 |
| T6 | 15 | LDF6-50A (1-1/4 FOAM) | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 17 | 1-3/4" Hybrid | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 21 | LDF7-50A (1-5/8 FOAM) | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T6 | 23 | 1-1/4" Hybrid Cable | 87.60 - 90.00 | 0.6000 | 0.3655 |
| T7 | 1 | Climbing Pegs | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 2 | Safety Line (3/8") | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 4 | Guyed Tower Coax Bracket | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 5 | Guyed Tower Coax Bracket | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 6 | Guyed Tower Coax Bracket | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 8 | LDF7-50A (1-5/8 FOAM) | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 10 | 1-5/8" Hybrid | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 12 | 2" Flex Conduit | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 13 | 1/2" Fiber Cable | 70.00 - 87.60 | 0.0000 | 0.0000 |
| T7 | 14 | 3/4" DC Power Line | 70.00 - 87.60 | 0.0000 | 0.0000 |
| T7 | 15 | LDF6-50A (1-1/4 FOAM) | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 17 | 1-3/4" Hybrid | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 19 | LDF4P-50A (1/2 FOAM) | 70.00 - 76.00 | 0.6000 | 0.5026 |
| T7 | 21 | LDF7-50A (1-5/8 FOAM) | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T7 | 23 | 1-1/4" Hybrid Cable | 70.00 - 87.60 | 0.6000 | 0.5026 |
| T8 | 1 | Climbing Pegs | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 2 | Safety Line (3/8") | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 4 | Guyed Tower Coax Bracket | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 5 | Guyed Tower Coax Bracket | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 6 | Guyed Tower Coax Bracket | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 8 | LDF7-50A (1-5/8 FOAM) | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 10 | 1-5/8" Hybrid | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 12 | 2" Flex Conduit | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 13 | 1/2" Fiber Cable | 50.00 - 70.00 | 0.0000 | 0.0000 |
| T8 | 14 | 3/4" DC Power Line | 50.00 - 70.00 | 0.0000 | 0.0000 |
| T8 | 15 | LDF6-50A (1-1/4 FOAM) | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 17 | 1-3/4" Hybrid | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 19 | LDF4P-50A (1/2 FOAM) | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 21 | LDF7-50A (1-5/8 FOAM) | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T8 | 23 | 1-1/4" Hybrid Cable | 50.00 - 70.00 | 0.6000 | 0.6000 |
| T9 | 1 | Climbing Pegs | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 2 | Safety Line (3/8") | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 4 | Guyed Tower Coax Bracket | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 5 | Guyed Tower Coax Bracket | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 6 | Guyed Tower Coax Bracket | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 8 | LDF7-50A (1-5/8 FOAM) | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 10 | 1-5/8" Hybrid | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 12 | 2" Flex Conduit | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 13 | 1/2" Fiber Cable | 35.00 - 50.00 | 0.0000 | 0.0000 |

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| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job CT10016-A Montville 3 CT | Page 16 of 36 |
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| | Client SBA | Designed by bfranczkowski |

| Tower Section | Feed Line Record No. | Description | Feed Line Segment Elev. | K_o No Ice | K_o Ice |
|---------------|----------------------|--------------------------|-------------------------|--------------|-----------|
| T9 | 14 | 3/4" DC Power Line | 35.00 - 50.00 | 0.0000 | 0.0000 |
| T9 | 15 | LDF6-50A (1-1/4 FOAM) | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 17 | 1-3/4" Hybrid | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 19 | LDF4P-50A (1/2 FOAM) | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 21 | LDF7-50A (1-5/8 FOAM) | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T9 | 23 | 1-1/4" Hybrid Cable | 35.00 - 50.00 | 0.6000 | 0.6000 |
| T10 | 1 | Climbing Pegs | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 2 | Safety Line (3/8") | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 4 | Guyed Tower Coax Bracket | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 5 | Guyed Tower Coax Bracket | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 6 | Guyed Tower Coax Bracket | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 8 | LDF7-50A (1-5/8 FOAM) | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 10 | 1-5/8" Hybrid | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 12 | 2" Flex Conduit | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 13 | 1/2" Fiber Cable | 20.00 - 35.00 | 0.0000 | 0.0000 |
| T10 | 14 | 3/4" DC Power Line | 20.00 - 35.00 | 0.0000 | 0.0000 |
| T10 | 15 | LDF6-50A (1-1/4 FOAM) | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 17 | 1-3/4" Hybrid | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 19 | LDF4P-50A (1/2 FOAM) | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 21 | LDF7-50A (1-5/8 FOAM) | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T10 | 23 | 1-1/4" Hybrid Cable | 20.00 - 35.00 | 0.6000 | 0.6000 |
| T11 | 1 | Climbing Pegs | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 2 | Safety Line (3/8") | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 4 | Guyed Tower Coax Bracket | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 5 | Guyed Tower Coax Bracket | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 6 | Guyed Tower Coax Bracket | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 8 | LDF7-50A (1-5/8 FOAM) | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 10 | 1-5/8" Hybrid | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 12 | 2" Flex Conduit | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 13 | 1/2" Fiber Cable | 8.00 - 20.00 | 0.0000 | 0.0000 |
| T11 | 14 | 3/4" DC Power Line | 8.00 - 20.00 | 0.0000 | 0.0000 |
| T11 | 15 | LDF6-50A (1-1/4 FOAM) | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 17 | 1-3/4" Hybrid | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 19 | LDF4P-50A (1/2 FOAM) | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 21 | LDF7-50A (1-5/8 FOAM) | 8.00 - 20.00 | 0.6000 | 0.6000 |
| T11 | 23 | 1-1/4" Hybrid Cable | 8.00 - 20.00 | 0.6000 | 0.6000 |

Discrete Tower Loads

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C_{AA} Front | C_{AA} Side | Weight | |
|-----------------------------|-------------|-------------|----------|------|--------------------|-----------|-----------------|-----------------|--------|------|
| | | | Horz | Vert | | | | | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | K | |
| Lightning Rod 4x5/8" | C | From Leg | 0.00 | | 0.0000 | 190.00 | No Ice | 0.25 | 0.25 | 0.00 |
| | | | 0.00 | | | | 1/2" Ice | 0.66 | 0.66 | 0.01 |
| | | | 2.00 | | | | 1" Ice | 0.97 | 0.97 | 0.01 |
| *** | | | | | | | | | | |
| MTC3975083 Sector Mount (3) | A | None | | | 0.0000 | 180.00 | No Ice | 20.14 | 20.14 | 1.59 |
| | | | | | | | 1/2" Ice | 30.60 | 30.60 | 1.87 |
| | | | | | | | 1" Ice | 41.06 | 41.06 | 2.15 |

| | | | | |
|--|----------------|--------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job | CT10016-A Montville 3 CT | Page | 17 of 36 |
| | Project | 2024778.10016.03 | Date | 11:37:44 12/20/23 |
| | Client | SBA | Designed by | bfranczkowski |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | CAAA Front ft ² | CAAA Side ft ² | Weight K | |
|---------------------------|-------------|-------------|--|-------------------------|-----------------|-------------------------------|------------------------------|-------------|------|
| (2) Pipe Mount 8'x2.875" | A | From Leg | 4.00 | 0.0000 | 180.00 | No Ice | 2.30 | 2.30 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 3.13 | 3.13 | 0.06 |
| | | | 0.00 | | | 1" Ice | 3.62 | 3.62 | 0.09 |
| (2) Pipe Mount 8'x2.875" | B | From Leg | 4.00 | 0.0000 | 180.00 | No Ice | 2.30 | 2.30 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 3.13 | 3.13 | 0.06 |
| | | | 0.00 | | | 1" Ice | 3.62 | 3.62 | 0.09 |
| (2) Pipe Mount 8'x2.875" | C | From Leg | 4.00 | 0.0000 | 180.00 | No Ice | 2.30 | 2.30 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 3.13 | 3.13 | 0.06 |
| | | | 0.00 | | | 1" Ice | 3.62 | 3.62 | 0.09 |
| FFVV-65B-R2 w/ Mount Pipe | C | From Leg | 4.00 | 0.0000 | 180.00 | No Ice | 12.51 | 7.41 | 0.10 |
| | | | 0.00 | | | 1/2" Ice | 13.11 | 8.60 | 0.19 |
| | | | 0.00 | | | 1" Ice | 13.67 | 9.50 | 0.29 |
| FFVV-65B-R2 w/ Mount Pipe | B | From Leg | 4.00 | 0.0000 | 180.00 | No Ice | 12.51 | 7.41 | 0.10 |
| | | | 0.00 | | | 1/2" Ice | 13.11 | 8.60 | 0.19 |
| | | | 0.00 | | | 1" Ice | 13.67 | 9.50 | 0.29 |
| FFVV-65B-R2 w/ Mount Pipe | A | From Leg | 4.00 | 0.0000 | 180.00 | No Ice | 12.51 | 7.41 | 0.10 |
| | | | 0.00 | | | 1/2" Ice | 13.11 | 8.60 | 0.19 |
| | | | 0.00 | | | 1" Ice | 13.67 | 9.50 | 0.29 |
| RF4450t-71A | C | From Leg | 2.00 | 0.0000 | 180.00 | No Ice | 2.06 | 1.38 | 0.09 |
| | | | 0.00 | | | 1/2" Ice | 2.24 | 1.53 | 0.12 |
| | | | 0.00 | | | 1" Ice | 2.43 | 1.68 | 0.14 |
| RF4450t-71A | B | From Leg | 2.00 | 0.0000 | 180.00 | No Ice | 2.06 | 1.38 | 0.09 |
| | | | 0.00 | | | 1/2" Ice | 2.24 | 1.53 | 0.12 |
| | | | 0.00 | | | 1" Ice | 2.43 | 1.68 | 0.14 |
| RF4450t-71A | A | From Leg | 2.00 | 0.0000 | 180.00 | No Ice | 2.06 | 1.38 | 0.09 |
| | | | 0.00 | | | 1/2" Ice | 2.24 | 1.53 | 0.12 |
| | | | 0.00 | | | 1" Ice | 2.43 | 1.68 | 0.14 |
| RF4451d-70A | C | From Leg | 2.00 | 0.0000 | 180.00 | No Ice | 1.88 | 1.11 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 2.05 | 1.25 | 0.08 |
| | | | 0.00 | | | 1" Ice | 2.22 | 1.39 | 0.10 |
| RF4451d-70A | B | From Leg | 2.00 | 0.0000 | 180.00 | No Ice | 1.88 | 1.11 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 2.05 | 1.25 | 0.08 |
| | | | 0.00 | | | 1" Ice | 2.22 | 1.39 | 0.10 |
| RF4451d-70A | A | From Leg | 2.00 | 0.0000 | 180.00 | No Ice | 1.88 | 1.11 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 2.05 | 1.25 | 0.08 |
| | | | 0.00 | | | 1" Ice | 2.22 | 1.39 | 0.10 |
| RDIDC-9181-PF-48 | A | From Leg | 2.00 | 0.0000 | 180.00 | No Ice | 2.56 | 1.34 | 0.02 |
| | | | 0.00 | | | 1/2" Ice | 2.76 | 1.49 | 0.04 |
| | | | 0.00 | | | 1" Ice | 2.97 | 1.66 | 0.07 |
| *** | | | | | | | | | |
| Sector Mount (3) | A | None | | 0.0000 | 160.00 | No Ice | 30.43 | 30.43 | 1.69 |
| | | | | | | 1/2" Ice | 43.02 | 43.02 | 2.30 |
| | | | | | | 1" Ice | 55.43 | 55.43 | 3.10 |
| (2) Pipe Mount 5'x2.375" | A | From Leg | 2.00 | 0.0000 | 160.00 | No Ice | 1.19 | 1.19 | 0.02 |
| | | | 0.00 | | | 1/2" Ice | 1.50 | 1.50 | 0.03 |
| | | | 0.00 | | | 1" Ice | 1.81 | 1.81 | 0.04 |
| (2) Pipe Mount 5'x2.375" | B | From Leg | 2.00 | 0.0000 | 160.00 | No Ice | 1.19 | 1.19 | 0.02 |
| | | | 0.00 | | | 1/2" Ice | 1.50 | 1.50 | 0.03 |
| | | | 0.00 | | | 1" Ice | 1.81 | 1.81 | 0.04 |
| (2) Pipe Mount 5'x2.375" | C | From Leg | 2.00 | 0.0000 | 160.00 | No Ice | 1.19 | 1.19 | 0.02 |
| | | | 0.00 | | | 1/2" Ice | 1.50 | 1.50 | 0.03 |
| | | | 0.00 | | | 1" Ice | 1.81 | 1.81 | 0.04 |
| Pipe Mount 6'x2.375" | A | From Leg | 4.00 | 0.0000 | 160.00 | No Ice | 1.43 | 1.43 | 0.03 |
| | | | 0.00 | | | 1/2" Ice | 1.92 | 1.92 | 0.04 |
| | | | 0.00 | | | 1" Ice | 2.29 | 2.29 | 0.05 |
| Pipe Mount 6'x2.375" | B | From Leg | 4.00 | 0.0000 | 160.00 | No Ice | 1.43 | 1.43 | 0.03 |
| | | | 0.00 | | | 1/2" Ice | 1.92 | 1.92 | 0.04 |

| | | | | |
|--|----------------|--------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job | CT10016-A Montville 3 CT | Page | 18 of 36 |
| | Project | 2024778.10016.03 | Date | 14:37:44 12/20/23 |
| | Client | SBA | Designed by | bfranczkowski |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | C _{AA} Front ft ² | C _{AA} Side ft ² | Weight K | |
|-------------------------------|-------------|-------------|--|-------------------------|-----------------|--|---|-------------|------|
| Pipe Mount 6'x2.375" | C | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 2.29 | 2.29 | 0.05 |
| | | | 4.00 | | | No Ice | 1.43 | 1.43 | 0.03 |
| | | | 0.00 | | | 1/2" Ice | 1.92 | 1.92 | 0.04 |
| APXVSPP18-C-A20 w/ Mount Pipe | A | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 2.29 | 2.29 | 0.05 |
| | | | 4.00 | | | No Ice | 8.02 | 6.71 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 8.48 | 7.66 | 0.14 |
| APXVSPP18-C-A20 w/ Mount Pipe | B | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 8.94 | 8.49 | 0.22 |
| | | | 4.00 | | | No Ice | 8.02 | 6.71 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 8.48 | 7.66 | 0.14 |
| APXVSPP18-C-A20 w/ Mount Pipe | C | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 8.94 | 8.49 | 0.22 |
| | | | 4.00 | | | No Ice | 8.02 | 6.71 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 8.48 | 7.66 | 0.14 |
| APXVTM14-C-120 w/ Mount Pipe | A | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 8.94 | 8.49 | 0.22 |
| | | | 4.00 | | | No Ice | 6.58 | 4.96 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 7.03 | 5.75 | 0.13 |
| APXVTM14-C-120 w/ Mount Pipe | B | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 7.47 | 6.47 | 0.19 |
| | | | 4.00 | | | No Ice | 6.58 | 4.96 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 7.03 | 5.75 | 0.13 |
| APXVTM14-C-120 w/ Mount Pipe | C | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 7.47 | 6.47 | 0.19 |
| | | | 4.00 | | | No Ice | 6.58 | 4.96 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 7.03 | 5.75 | 0.13 |
| (2) ACU-A20-N RET | A | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 7.47 | 6.47 | 0.19 |
| | | | 2.00 | | | No Ice | 0.07 | 0.12 | 0.00 |
| | | | 0.00 | | | 1/2" Ice | 0.10 | 0.16 | 0.00 |
| ACU-A20-N RET | B | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 0.15 | 0.21 | 0.00 |
| | | | 2.00 | | | No Ice | 0.07 | 0.12 | 0.00 |
| | | | 0.00 | | | 1/2" Ice | 0.10 | 0.16 | 0.00 |
| ACU-A20-N RET | C | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 0.15 | 0.21 | 0.00 |
| | | | 2.00 | | | No Ice | 0.07 | 0.12 | 0.00 |
| | | | 0.00 | | | 1/2" Ice | 0.10 | 0.16 | 0.00 |
| 1900 MHz RRH | A | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 0.15 | 0.21 | 0.00 |
| | | | 2.00 | | | No Ice | 2.59 | 2.55 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 2.81 | 2.76 | 0.09 |
| 1900 MHz RRH | B | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 3.03 | 2.98 | 0.12 |
| | | | 2.00 | | | No Ice | 2.59 | 2.55 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 2.81 | 2.76 | 0.09 |
| 1900 MHz RRH | C | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 3.03 | 2.98 | 0.12 |
| | | | 2.00 | | | No Ice | 2.59 | 2.55 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 2.81 | 2.76 | 0.09 |
| 800 MHz RRH | A | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 3.03 | 2.98 | 0.12 |
| | | | 2.00 | | | No Ice | 1.70 | 1.28 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 1.86 | 1.43 | 0.07 |
| 800 MHz RRH | B | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 2.03 | 1.58 | 0.09 |
| | | | 2.00 | | | No Ice | 1.70 | 1.28 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 1.86 | 1.43 | 0.07 |
| 800 MHz RRH | C | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 2.03 | 1.58 | 0.09 |
| | | | 2.00 | | | No Ice | 1.70 | 1.28 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 1.86 | 1.43 | 0.07 |
| TD-RRH8x20-25 | A | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 2.03 | 1.58 | 0.09 |
| | | | 2.00 | | | No Ice | 3.70 | 1.29 | 0.07 |
| | | | 0.00 | | | 1/2" Ice | 3.95 | 1.46 | 0.09 |
| TD-RRH8x20-25 | B | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 4.20 | 1.64 | 0.12 |
| | | | 2.00 | | | No Ice | 3.70 | 1.29 | 0.07 |
| | | | 0.00 | | | 1/2" Ice | 3.95 | 1.46 | 0.09 |
| TD-RRH8x20-25 | C | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 4.20 | 1.64 | 0.12 |
| | | | 2.00 | | | No Ice | 3.70 | 1.29 | 0.07 |
| | | | 0.00 | | | 1/2" Ice | 3.95 | 1.46 | 0.09 |

| | | | |
|--|---------|--------------------------|------------------------------|
| <p>tnxTower</p> <p>GPD</p> <p>520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101</p> | Job | CT10016-A Montville 3 CT | Page 19 of 36 |
| | Project | 2024778.10016.03 | Date 14:37:44 12/20/23 |
| | Client | SBA | Designed by bfranczkowski |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment | Placement ft | C _{AA} Front ft ² | C _{AA} Side ft ² | Weight K | |
|--|-------------------|----------------|---|-----------------------|---------------------|---|--|-----------------|------|
| 800 MHz External Notch Filters | A | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 4.20 | 1.64 | 0.12 |
| | | | 2.00 | | | No Ice | 0.66 | 0.29 | 0.01 |
| | | | 0.00 | | | 1/2" Ice | 0.76 | 0.36 | 0.02 |
| 800 MHz External Notch Filters | B | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 0.87 | 0.45 | 0.02 |
| | | | 2.00 | | | No Ice | 0.66 | 0.29 | 0.01 |
| | | | 0.00 | | | 1/2" Ice | 0.76 | 0.36 | 0.02 |
| 800 MHz External Notch Filters | C | From Leg | 0.00 | 0.0000 | 160.00 | 1" Ice | 0.87 | 0.45 | 0.02 |
| | | | 2.00 | | | No Ice | 0.66 | 0.29 | 0.01 |
| | | | 0.00 | | | 1/2" Ice | 0.76 | 0.36 | 0.02 |
| *** Sector Mount (3) | A | None | 0.00 | 0.0000 | 150.00 | No Ice | 30.43 | 30.43 | 1.69 |
| | | | 4.00 | | | 1/2" Ice | 43.02 | 43.02 | 2.30 |
| | | | 0.00 | | | 1" Ice | 55.43 | 55.43 | 3.10 |
| RR65-18-VDPL2 w/ Mount Pipe | A | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 4.91 | 3.66 | 0.04 |
| | | | 4.00 | | | 1/2" Ice | 5.50 | 4.73 | 0.08 |
| | | | 0.00 | | | 1" Ice | 6.00 | 5.51 | 0.13 |
| RR65-18-VDPL2 w/ Mount Pipe | B | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 4.91 | 3.66 | 0.04 |
| | | | 4.00 | | | 1/2" Ice | 5.50 | 4.73 | 0.08 |
| | | | 0.00 | | | 1" Ice | 6.00 | 5.51 | 0.13 |
| RR65-18-VDPL2 w/ Mount Pipe | C | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 4.91 | 3.66 | 0.04 |
| | | | 4.00 | | | 1/2" Ice | 5.50 | 4.73 | 0.08 |
| | | | 0.00 | | | 1" Ice | 6.00 | 5.51 | 0.13 |
| APXVAARR24_43-U-NA20 w/ 96" Mount Pipe | A | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 20.24 | 10.79 | 0.16 |
| | | | 4.00 | | | 1/2" Ice | 20.89 | 12.21 | 0.29 |
| | | | 0.00 | | | 1" Ice | 21.55 | 13.49 | 0.44 |
| APXVAARR24_43-U-NA20 w/ 96" Mount Pipe | B | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 20.24 | 10.79 | 0.16 |
| | | | 4.00 | | | 1/2" Ice | 20.89 | 12.21 | 0.29 |
| | | | 0.00 | | | 1" Ice | 21.55 | 13.49 | 0.44 |
| APXVAARR24_43-U-NA20 w/ 96" Mount Pipe | C | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 20.24 | 10.79 | 0.16 |
| | | | 4.00 | | | 1/2" Ice | 20.89 | 12.21 | 0.29 |
| | | | 0.00 | | | 1" Ice | 21.55 | 13.49 | 0.44 |
| AIR 32 KRD901146-1 B66A/B2A w/ Mount Pipe | A | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 6.58 | 5.90 | 0.15 |
| | | | 4.00 | | | 1/2" Ice | 6.97 | 6.56 | 0.21 |
| | | | 0.00 | | | 1" Ice | 7.37 | 7.24 | 0.28 |
| AIR 32 KRD901146-1 B66A/B2A w/ Mount Pipe | B | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 6.58 | 5.90 | 0.15 |
| | | | 4.00 | | | 1/2" Ice | 6.97 | 6.56 | 0.21 |
| | | | 0.00 | | | 1" Ice | 7.37 | 7.24 | 0.28 |
| AIR 32 KRD901146-1 B66A/B2A w/ Mount Pipe | C | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 6.58 | 5.90 | 0.15 |
| | | | 4.00 | | | 1/2" Ice | 6.97 | 6.56 | 0.21 |
| | | | 0.00 | | | 1" Ice | 7.37 | 7.24 | 0.28 |
| (2) KRY 112 144/1 | A | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 0.35 | 0.17 | 0.01 |
| | | | 2.00 | | | 1/2" Ice | 0.43 | 0.23 | 0.01 |
| | | | 0.00 | | | 1" Ice | 0.51 | 0.30 | 0.02 |
| (2) KRY 112 144/1 | B | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 0.35 | 0.17 | 0.01 |
| | | | 2.00 | | | 1/2" Ice | 0.43 | 0.23 | 0.01 |
| | | | 0.00 | | | 1" Ice | 0.51 | 0.30 | 0.02 |
| (2) KRY 112 144/1 | C | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 0.35 | 0.17 | 0.01 |
| | | | 2.00 | | | 1/2" Ice | 0.43 | 0.23 | 0.01 |
| | | | 0.00 | | | 1" Ice | 0.51 | 0.30 | 0.02 |
| 4449 B71 + B12 | A | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 1.63 | 1.00 | 0.07 |
| | | | 2.00 | | | 1/2" Ice | 1.79 | 1.13 | 0.09 |
| | | | 0.00 | | | 1" Ice | 1.95 | 1.27 | 0.11 |
| 4449 B71 + B12 | B | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 1.63 | 1.00 | 0.07 |
| | | | 2.00 | | | 1/2" Ice | 1.79 | 1.13 | 0.09 |
| | | | 0.00 | | | 1" Ice | 1.95 | 1.27 | 0.11 |
| 4449 B71 + B12 | C | From Leg | 0.00 | 0.0000 | 150.00 | No Ice | 1.63 | 1.00 | 0.07 |
| | | | 2.00 | | | 1/2" Ice | 1.79 | 1.13 | 0.09 |
| | | | 0.00 | | | 1" Ice | 1.95 | 1.27 | 0.11 |

| | | | | |
|--|----------------|--------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job | CT10016-A Montville 3 CT | Page | 20 of 36 |
| | Project | 2024778.10016.03 | Date | 14:37:44 12/20/23 |
| | Client | SBA | Designed by | bfranczkowski |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | C _{AA} Front ft ² | C _{AA} Side ft ² | Weight K |
|------------------------------------|-------------|-------------|--|-------------------------|-----------------|---|--|-------------|
| | | | 0.00 | | 1/2" Ice | 1.79 | 1.13 | 0.09 |
| *** | | | 0.00 | | 1" Ice | 1.95 | 1.27 | 0.11 |
| Sector Mount (3) | A | None | | 0.0000 | 139.50 | No Ice | 30.43 | 1.69 |
| | | | | | | 1/2" Ice | 43.02 | 2.30 |
| | | | | | | 1" Ice | 55.43 | 3.10 |
| BXA-70063/6CF-EDIN-6 w/ Mount Pipe | A | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 8.07 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 8.74 | 0.11 |
| | | | 1.50 | | | 1" Ice | 9.37 | 0.18 |
| BXA-70063/6CF-EDIN-6 w/ Mount Pipe | B | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 8.07 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 8.74 | 0.11 |
| | | | 1.50 | | | 1" Ice | 9.37 | 0.18 |
| BXA-70063/6CF-EDIN-6 w/ Mount Pipe | C | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 8.07 | 0.05 |
| | | | 0.00 | | | 1/2" Ice | 8.74 | 0.11 |
| | | | 1.50 | | | 1" Ice | 9.37 | 0.18 |
| (2) FD9R6004/2C-3L | A | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 0.31 | 0.00 |
| | | | 0.00 | | | 1/2" Ice | 0.39 | 0.01 |
| | | | 1.50 | | | 1" Ice | 0.47 | 0.01 |
| (2) FD9R6004/2C-3L | B | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 0.31 | 0.00 |
| | | | 0.00 | | | 1/2" Ice | 0.39 | 0.01 |
| | | | 1.50 | | | 1" Ice | 0.47 | 0.01 |
| (2) FD9R6004/2C-3L | C | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 0.31 | 0.00 |
| | | | 0.00 | | | 1/2" Ice | 0.39 | 0.01 |
| | | | 1.50 | | | 1" Ice | 0.47 | 0.01 |
| MX06FRO660-03 w/ Mount Pipe | A | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 10.11 | 0.09 |
| | | | 0.00 | | | 1/2" Ice | 10.68 | 0.17 |
| | | | 0.50 | | | 1" Ice | 11.22 | 0.27 |
| MX06FRO660-03 w/ Mount Pipe | B | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 10.11 | 0.09 |
| | | | 0.00 | | | 1/2" Ice | 10.68 | 0.17 |
| | | | 0.50 | | | 1" Ice | 11.22 | 0.27 |
| MX06FRO660-03 w/ Mount Pipe | C | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 10.11 | 0.09 |
| | | | 0.00 | | | 1/2" Ice | 10.68 | 0.17 |
| | | | 0.50 | | | 1" Ice | 11.22 | 0.27 |
| MX06FRO660-03 w/ 91900314 | A | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 9.87 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 10.34 | 0.13 |
| | | | 0.50 | | | 1" Ice | 10.82 | 0.20 |
| MX06FRO660-03 w/ 91900314 | B | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 9.87 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 10.34 | 0.13 |
| | | | 0.50 | | | 1" Ice | 10.82 | 0.20 |
| MX06FRO660-03 w/ 91900314 | C | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 9.87 | 0.06 |
| | | | 0.00 | | | 1/2" Ice | 10.34 | 0.13 |
| | | | 0.50 | | | 1" Ice | 10.82 | 0.20 |
| MT6413 77A w/ Mount Pipe | A | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 4.65 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 5.20 | 0.12 |
| | | | 0.50 | | | 1" Ice | 5.68 | 0.16 |
| MT6413 77A w/ Mount Pipe | B | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 4.65 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 5.20 | 0.12 |
| | | | 0.50 | | | 1" Ice | 5.68 | 0.16 |
| MT6413 77A w/ Mount Pipe | C | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 4.65 | 0.08 |
| | | | 0.00 | | | 1/2" Ice | 5.20 | 0.12 |
| | | | 0.50 | | | 1" Ice | 5.68 | 0.16 |
| B2/B66A RRH ORAN (RF4439d-25A) | A | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 1.87 | 0.07 |
| | | | 0.00 | | | 1/2" Ice | 2.03 | 0.09 |
| | | | 0.50 | | | 1" Ice | 2.21 | 0.11 |
| B2/B66A RRH ORAN (RF4439d-25A) | B | From Leg | 4.00 | 0.0000 | 139.50 | No Ice | 1.87 | 0.07 |
| | | | 0.00 | | | 1/2" Ice | 2.03 | 0.09 |
| | | | 0.50 | | | 1" Ice | 2.21 | 0.11 |

| | | |
|--|--|-------------------------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job CT10016-A Montville 3 CT | Page 21 of 36 |
| | Project 2024778.10016.03 | Date 14:37:44 12/20/23 |
| | Client SBA | Designed by bfranczkowski |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} Front | C _{AA} Side | Weight |
|--------------------------------|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
| | | | Horz | Lateral | | | | | |
| B2/B66A RRH ORAN (RF4439d-25A) | C | From Leg | 4.00 | 0.00 | 0.0000 | 139.50 | No Ice 1.87 | 1.25 | 0.07 |
| | | | 0.00 | | | | 1/2" Ice 2.03 | 1.39 | 0.09 |
| | | | 0.50 | | | | 1" Ice 2.21 | 1.54 | 0.11 |
| B5/B13 RRH ORAN (RF4461d-13A) | A | From Leg | 4.00 | 0.00 | 0.0000 | 139.50 | No Ice 1.87 | 1.28 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 2.03 | 1.42 | 0.10 |
| | | | 0.50 | | | | 1" Ice 2.21 | 1.57 | 0.12 |
| B5/B13 RRH ORAN (RF4461d-13A) | B | From Leg | 4.00 | 0.00 | 0.0000 | 139.50 | No Ice 1.87 | 1.28 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 2.03 | 1.42 | 0.10 |
| | | | 0.50 | | | | 1" Ice 2.21 | 1.57 | 0.12 |
| B5/B13 RRH ORAN (RF4461d-13A) | C | From Leg | 4.00 | 0.00 | 0.0000 | 139.50 | No Ice 1.87 | 1.28 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 2.03 | 1.42 | 0.10 |
| | | | 0.50 | | | | 1" Ice 2.21 | 1.57 | 0.12 |
| RVZDC-6627-PF-48 | A | From Leg | 4.00 | 0.00 | 0.0000 | 139.50 | No Ice 3.79 | 2.51 | 0.03 |
| | | | 0.00 | | | | 1/2" Ice 4.04 | 2.73 | 0.06 |
| | | | 0.50 | | | | 1" Ice 4.30 | 2.95 | 0.10 |
| *** | | | | | | | | | |
| Sector Mount (3) | A | None | | | 0.0000 | 130.00 | No Ice 30.43 | 30.43 | 1.69 |
| | | | | | | | 1/2" Ice 43.02 | 43.02 | 2.30 |
| | | | | | | | 1" Ice 55.43 | 55.43 | 3.10 |
| AIR 6419 B77G w/ Mount Pipe | A | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 3.87 | 2.32 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 4.18 | 2.72 | 0.11 |
| | | | 2.00 | | | | 1" Ice 4.50 | 3.13 | 0.15 |
| AIR 6419 B77G w/ Mount Pipe | B | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 3.87 | 2.32 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 4.18 | 2.72 | 0.11 |
| | | | 2.00 | | | | 1" Ice 4.50 | 3.13 | 0.15 |
| AIR 6419 B77G w/ Mount Pipe | C | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 3.87 | 2.32 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 4.18 | 2.72 | 0.11 |
| | | | 2.00 | | | | 1" Ice 4.50 | 3.13 | 0.15 |
| AIR 6449 B77D | A | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 4.02 | 2.14 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 4.28 | 2.35 | 0.11 |
| | | | -2.00 | | | | 1" Ice 4.55 | 2.57 | 0.14 |
| AIR 6449 B77D | B | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 4.02 | 2.14 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 4.28 | 2.35 | 0.11 |
| | | | -2.00 | | | | 1" Ice 4.55 | 2.57 | 0.14 |
| AIR 6449 B77D | C | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 4.02 | 2.14 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice 4.28 | 2.35 | 0.11 |
| | | | -2.00 | | | | 1" Ice 4.55 | 2.57 | 0.14 |
| TPA65R-BU8DA-K w/ Mount pipe | A | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 17.87 | 10.42 | 0.13 |
| | | | 0.00 | | | | 1/2" Ice 18.50 | 11.85 | 0.26 |
| | | | 0.00 | | | | 1" Ice 19.14 | 12.94 | 0.39 |
| DMP65R-BU8DA w/ Mount Pipe | A | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 17.87 | 10.02 | 0.03 |
| | | | 0.00 | | | | 1/2" Ice 18.50 | 11.44 | 0.15 |
| | | | 0.00 | | | | 1" Ice 19.14 | 12.72 | 0.28 |
| TPA65R-BU6DA-K w/ Mount Pipe | B | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 12.95 | 7.26 | 0.09 |
| | | | 0.00 | | | | 1/2" Ice 13.55 | 8.43 | 0.19 |
| | | | 0.00 | | | | 1" Ice 14.11 | 9.31 | 0.29 |
| OPA65R-BU8DA w/ Mount Pipe | B | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 18.09 | 10.10 | 0.03 |
| | | | 0.00 | | | | 1/2" Ice 18.72 | 11.52 | 0.15 |
| | | | 0.00 | | | | 1" Ice 19.36 | 12.80 | 0.28 |
| TPA65R-BU4D w/ Mount Pipe | A | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 8.76 | 4.93 | 0.07 |
| | | | 0.00 | | | | 1/2" Ice 9.31 | 5.73 | 0.14 |
| | | | 0.00 | | | | 1" Ice 9.82 | 6.41 | 0.22 |
| OPA65R-BU4DA w/ Mount Pipe | C | From Leg | 4.00 | 0.00 | 0.0000 | 130.00 | No Ice 8.91 | 4.98 | 0.07 |
| | | | 0.00 | | | | 1/2" Ice 9.46 | 5.79 | 0.14 |
| | | | 0.00 | | | | 1" Ice 9.98 | 6.47 | 0.22 |
| 4449 B5/B12 | A | From Leg | 2.00 | 0.00 | 0.0000 | 130.00 | No Ice 1.97 | 1.41 | 0.07 |
| | | | 0.00 | | | | 1/2" Ice 2.14 | 1.56 | 0.09 |

| | | | | |
|--|----------------|--------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job | CT10016-A Montville 3 CT | Page | 22 of 36 |
| | Project | 2024778.10016.03 | Date | 14:37:44 12/20/23 |
| | Client | SBA | Designed by | bfranczkowski |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} | | Weight | |
|---------------------------|-------------|-------------|----------|------|--------------------|-----------|-----------------|-----------------|--------|------|
| | | | Horz | Vert | | | Front | Side | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | K | |
| 4449 B5/B12 | B | From Leg | 0.00 | | 0.0000 | 130.00 | 1" Ice | 2.33 | 1.73 | 0.11 |
| | | | 2.00 | | | | No Ice | 1.97 | 1.41 | 0.07 |
| | | | 0.00 | | | | 1/2" Ice | 2.14 | 1.56 | 0.09 |
| 4449 B5/B12 | C | From Leg | 0.00 | | 0.0000 | 130.00 | 1" Ice | 2.33 | 1.73 | 0.11 |
| | | | 2.00 | | | | No Ice | 1.97 | 1.41 | 0.07 |
| | | | 0.00 | | | | 1/2" Ice | 2.14 | 1.56 | 0.09 |
| 8843 B2/B66A | A | From Leg | 0.00 | | 0.0000 | 130.00 | 1" Ice | 2.33 | 1.73 | 0.11 |
| | | | 2.00 | | | | No Ice | 1.98 | 1.70 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice | 2.16 | 1.86 | 0.10 |
| 8843 B2/B66A | B | From Leg | 0.00 | | 0.0000 | 130.00 | 1" Ice | 2.34 | 2.04 | 0.12 |
| | | | 2.00 | | | | No Ice | 1.98 | 1.70 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice | 2.16 | 1.86 | 0.10 |
| 8843 B2/B66A | C | From Leg | 0.00 | | 0.0000 | 130.00 | 1" Ice | 2.34 | 2.04 | 0.12 |
| | | | 2.00 | | | | No Ice | 1.98 | 1.70 | 0.08 |
| | | | 0.00 | | | | 1/2" Ice | 2.16 | 1.86 | 0.10 |
| DC6-48-60-18-8F | A | From Leg | 0.00 | | 0.0000 | 130.00 | 1" Ice | 2.34 | 2.04 | 0.12 |
| | | | 2.00 | | | | No Ice | 2.20 | 2.20 | 0.02 |
| | | | 0.00 | | | | 1/2" Ice | 2.40 | 2.40 | 0.04 |
| DC9-48-60-24-8C-EV | B | From Leg | 0.00 | | 0.0000 | 130.00 | 1" Ice | 2.60 | 2.60 | 0.07 |
| | | | 2.00 | | | | No Ice | 2.74 | 4.78 | 0.03 |
| | | | 0.00 | | | | 1/2" Ice | 2.96 | 5.06 | 0.06 |
| *** | | | 0.00 | | | | 1" Ice | 3.20 | 5.35 | 0.10 |
| Side Arm Mount [SO 701-1] | C | From Leg | 1.50 | | 0.0000 | 76.00 | No Ice | 0.85 | 1.67 | 0.07 |
| | | | 0.00 | | | | 1/2" Ice | 1.14 | 2.34 | 0.08 |
| | | | 0.00 | | | | 1" Ice | 1.43 | 3.01 | 0.09 |
| GPS | C | From Leg | 3.00 | | 0.0000 | 76.00 | No Ice | 0.12 | 0.12 | 0.00 |
| | | | 0.00 | | | | 1/2" Ice | 0.21 | 0.21 | 0.00 |
| | | | 0.00 | | | | 1" Ice | 0.28 | 0.28 | 0.01 |
| *** | | | 0.00 | | | | | | | |

Load Combinations

| Comb. No. | Description |
|-----------|---|
| 1 | Dead Only |
| 2 | 1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy |
| 3 | 1.2D+1.0W (pattern 1) 0 deg - No Ice+1.0 Guy |
| 4 | 1.2D+1.0W (pattern 2) 0 deg - No Ice+1.0 Guy |
| 5 | 1.2D+1.0W (pattern 3) 0 deg - No Ice+1.0 Guy |
| 6 | 1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy |
| 7 | 1.2D+1.0W (pattern 1) 30 deg - No Ice+1.0 Guy |
| 8 | 1.2D+1.0W (pattern 2) 30 deg - No Ice+1.0 Guy |
| 9 | 1.2D+1.0W (pattern 3) 30 deg - No Ice+1.0 Guy |
| 10 | 1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy |
| 11 | 1.2D+1.0W (pattern 1) 60 deg - No Ice+1.0 Guy |
| 12 | 1.2D+1.0W (pattern 2) 60 deg - No Ice+1.0 Guy |
| 13 | 1.2D+1.0W (pattern 3) 60 deg - No Ice+1.0 Guy |
| 14 | 1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy |
| 15 | 1.2D+1.0W (pattern 1) 90 deg - No Ice+1.0 Guy |
| 16 | 1.2D+1.0W (pattern 2) 90 deg - No Ice+1.0 Guy |

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| Comb. No. | Description |
|-----------|--|
| 17 | 1.2D+1.0W (pattern 3) 90 deg - No Ice+1.0 Guy |
| 18 | 1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy |
| 19 | 1.2D+1.0W (pattern 1) 120 deg - No Ice+1.0 Guy |
| 20 | 1.2D+1.0W (pattern 2) 120 deg - No Ice+1.0 Guy |
| 21 | 1.2D+1.0W (pattern 3) 120 deg - No Ice+1.0 Guy |
| 22 | 1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy |
| 23 | 1.2D+1.0W (pattern 1) 150 deg - No Ice+1.0 Guy |
| 24 | 1.2D+1.0W (pattern 2) 150 deg - No Ice+1.0 Guy |
| 25 | 1.2D+1.0W (pattern 3) 150 deg - No Ice+1.0 Guy |
| 26 | 1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy |
| 27 | 1.2D+1.0W (pattern 1) 180 deg - No Ice+1.0 Guy |
| 28 | 1.2D+1.0W (pattern 2) 180 deg - No Ice+1.0 Guy |
| 29 | 1.2D+1.0W (pattern 3) 180 deg - No Ice+1.0 Guy |
| 30 | 1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy |
| 31 | 1.2D+1.0W (pattern 1) 210 deg - No Ice+1.0 Guy |
| 32 | 1.2D+1.0W (pattern 2) 210 deg - No Ice+1.0 Guy |
| 33 | 1.2D+1.0W (pattern 3) 210 deg - No Ice+1.0 Guy |
| 34 | 1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy |
| 35 | 1.2D+1.0W (pattern 1) 240 deg - No Ice+1.0 Guy |
| 36 | 1.2D+1.0W (pattern 2) 240 deg - No Ice+1.0 Guy |
| 37 | 1.2D+1.0W (pattern 3) 240 deg - No Ice+1.0 Guy |
| 38 | 1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy |
| 39 | 1.2D+1.0W (pattern 1) 270 deg - No Ice+1.0 Guy |
| 40 | 1.2D+1.0W (pattern 2) 270 deg - No Ice+1.0 Guy |
| 41 | 1.2D+1.0W (pattern 3) 270 deg - No Ice+1.0 Guy |
| 42 | 1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy |
| 43 | 1.2D+1.0W (pattern 1) 300 deg - No Ice+1.0 Guy |
| 44 | 1.2D+1.0W (pattern 2) 300 deg - No Ice+1.0 Guy |
| 45 | 1.2D+1.0W (pattern 3) 300 deg - No Ice+1.0 Guy |
| 46 | 1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy |
| 47 | 1.2D+1.0W (pattern 1) 330 deg - No Ice+1.0 Guy |
| 48 | 1.2D+1.0W (pattern 2) 330 deg - No Ice+1.0 Guy |
| 49 | 1.2D+1.0W (pattern 3) 330 deg - No Ice+1.0 Guy |
| 50 | 1.2 Dead+1.0 Ice+1.0 Temp+Guy |
| 51 | 1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 52 | 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 53 | 1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 54 | 1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 55 | 1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 56 | 1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 57 | 1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 58 | 1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 59 | 1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 60 | 1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 61 | 1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 62 | 1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy |
| 63 | Dead+Wind 0 deg - Service+Guy |
| 64 | Dead+Wind 30 deg - Service+Guy |
| 65 | Dead+Wind 60 deg - Service+Guy |
| 66 | Dead+Wind 90 deg - Service+Guy |
| 67 | Dead+Wind 120 deg - Service+Guy |
| 68 | Dead+Wind 150 deg - Service+Guy |
| 69 | Dead+Wind 180 deg - Service+Guy |
| 70 | Dead+Wind 210 deg - Service+Guy |
| 71 | Dead+Wind 240 deg - Service+Guy |
| 72 | Dead+Wind 270 deg - Service+Guy |
| 73 | Dead+Wind 300 deg - Service+Guy |
| 74 | Dead+Wind 330 deg - Service+Guy |

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Maximum Tower Deflections - Service Wind

| Section No. | Elevation ft | Horz. Deflection in | Gov. Load Comb. | Tilt ° | Twist ° |
|-------------|-----------------|------------------------|--------------------|-----------|------------|
| T1 | 190 - 170 | 0.465 | 73 | 0.0912 | 0.0435 |
| T2 | 170 - 150 | 0.848 | 73 | 0.0967 | 0.0416 |
| T3 | 150 - 130 | 1.234 | 73 | 0.0683 | 0.0543 |
| T4 | 130 - 110 | 1.344 | 73 | 0.0167 | 0.0750 |
| T5 | 110 - 90 | 1.125 | 73 | 0.0646 | 0.0424 |
| T6 | 90 - 87.6 | 0.866 | 73 | 0.0318 | 0.0204 |
| T7 | 87.6 - 70 | 0.853 | 73 | 0.0263 | 0.0206 |
| T8 | 70 - 50 | 0.828 | 73 | 0.0108 | 0.0249 |
| T9 | 50 - 35 | 0.771 | 73 | 0.0309 | 0.0315 |
| T10 | 35 - 20 | 0.640 | 73 | 0.0577 | 0.0348 |
| T11 | 20 - 4.8125 | 0.406 | 73 | 0.0830 | 0.0295 |
| T12 | 4.8125 - 0 | 0.101 | 73 | 0.0977 | 0.0086 |

Critical Deflections and Radius of Curvature - Service Wind

| Elevation ft | Appurtenance | Gov. Load Comb. | Deflection in | Tilt ° | Twist ° | Radius of Curvature ft |
|-----------------|-----------------------------|--------------------|------------------|-----------|------------|---------------------------|
| 190.00 | Lightning Rod 4'x5/8" | 73 | 0.465 | 0.0912 | 0.0435 | 164872 |
| 180.00 | MTC3975083 Sector Mount (3) | 73 | 0.651 | 0.0966 | 0.0417 | 82436 |
| 166.98 | Guy | 73 | 0.911 | 0.0950 | 0.0422 | 85984 |
| 160.00 | Sector Mount (3) | 73 | 1.057 | 0.0869 | 0.0451 | 38419 |
| 150.00 | Sector Mount (3) | 73 | 1.234 | 0.0683 | 0.0543 | 14874 |
| 139.50 | Sector Mount (3) | 73 | 1.337 | 0.0301 | 0.0690 | 13104 |
| 130.00 | Sector Mount (3) | 73 | 1.344 | 0.0167 | 0.0750 | 12768 |
| 92.52 | Guy | 73 | 0.885 | 0.0383 | 0.0208 | 13812 |
| 76.00 | Side Arm Mount [SO 701-1] | 73 | 0.830 | 0.0117 | 0.0216 | 84507 |

Maximum Tower Deflections - Design Wind

| Section No. | Elevation ft | Horz. Deflection in | Gov. Load Comb. | Tilt ° | Twist ° |
|-------------|-----------------|------------------------|--------------------|-----------|------------|
| T1 | 190 - 170 | 2.588 | 47 | 0.6664 | 0.3164 |
| T2 | 170 - 150 | 4.261 | 47 | 0.6804 | 0.3079 |
| T3 | 150 - 130 | 6.163 | 38 | 0.5242 | 0.3565 |
| T4 | 130 - 110 | 7.000 | 38 | 0.1389 | 0.4166 |
| T5 | 110 - 90 | 6.460 | 2 | 0.3557 | 0.2557 |
| T6 | 90 - 87.6 | 5.616 | 5 | 0.2688 | 0.1524 |
| T7 | 87.6 - 70 | 5.580 | 5 | 0.2491 | 0.1521 |
| T8 | 70 - 50 | 5.462 | 5 | 0.1664 | 0.1441 |
| T9 | 50 - 35 | 4.922 | 5 | 0.2317 | 0.1472 |
| T10 | 35 - 20 | 3.965 | 5 | 0.3838 | 0.1380 |
| T11 | 20 - 4.8125 | 2.467 | 5 | 0.5175 | 0.0935 |
| T12 | 4.8125 - 0 | 0.609 | 5 | 0.5922 | 0.0382 |

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Critical Deflections and Radius of Curvature - Design Wind

| Elevation | Appurtenance | Gov. Load Comb. | Deflection | Tilt | Twist | Radius of Curvature |
|-----------|-----------------------------|-----------------|------------|--------|--------|---------------------|
| ft | | | in | ° | ° | ft |
| 190.00 | Lightning Rod 4"x5/8" | 47 | 2.588 | 0.6664 | 0.3164 | 9813 |
| 180.00 | MTC3975083 Sector Mount (3) | 47 | 3.398 | 0.6815 | 0.3082 | 4906 |
| 166.98 | Guy | 47 | 4.539 | 0.6742 | 0.3105 | 3550 |
| 160.00 | Sector Mount (3) | 46 | 5.226 | 0.6416 | 0.3225 | 7357 |
| 150.00 | Sector Mount (3) | 38 | 6.163 | 0.5242 | 0.3565 | 2707 |
| 139.50 | Sector Mount (3) | 38 | 6.802 | 0.3050 | 0.4052 | 2564 |
| 130.00 | Sector Mount (3) | 38 | 7.000 | 0.1389 | 0.4166 | 2622 |
| 92.52 | Guy | 5 | 5.673 | 0.2923 | 0.1548 | 3235 |
| 76.00 | Side Arm Mount [SO 701-1] | 5 | 5.503 | 0.1835 | 0.1474 | 11559 |

Bolt Design Data

| Section No. | Elevation | Component Type | Bolt Grade | Bolt Size | Number Of Bolts | Maximum Load per Bolt | Allowable Load per Bolt | Ratio Load Allowable | Allowable Ratio | Criteria |
|-------------|-----------|------------------------|------------|-----------|-----------------|-----------------------|-------------------------|----------------------|-----------------|--------------------|
| | ft | | | in | | K | K | | | |
| T1 | 190 | Leg | A325X | 0.7500 | 4 | 2.92 | 30.10 | 0.097 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.6250 | 1 | 2.08 | 9.11 | 0.228 | 1 | Member Block Shear |
| | | Top Girt | A325X | 0.6250 | 1 | 0.01 | 9.11 | 0.001 | 1 | Member Block Shear |
| | | Bottom Girt | A325X | 0.6250 | 1 | 0.58 | 9.11 | 0.063 | 1 | Member Block Shear |
| T2 | 170 | Leg | A325X | 0.7500 | 4 | 9.84 | 30.10 | 0.327 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.6250 | 1 | 6.09 | 9.11 | 0.669 | 1 | Member Block Shear |
| | | Top Girt | A325X | 0.6250 | 1 | 1.27 | 9.11 | 0.139 | 1 | Member Block Shear |
| | | Bottom Girt | A325X | 0.6250 | 1 | 2.05 | 9.89 | 0.208 | 1 | Member Block Shear |
| | | Torque Arm Top@166.977 | A325N | 0.8750 | 2 | 6.94 | 27.06 | 0.256 | 1 | Bolt Shear |
| T3 | 150 | Leg | A325X | 0.7500 | 4 | 11.74 | 30.10 | 0.390 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.5000 | 1 | 2.41 | 5.92 | 0.408 | 1 | Member Bearing |
| | | Top Girt | A325X | 0.5000 | 1 | 1.51 | 5.92 | 0.254 | 1 | Member Bearing |
| | | Bottom Girt | A325X | 0.5000 | 1 | 1.51 | 5.92 | 0.254 | 1 | Member Bearing |
| T4 | 130 | Leg | A325X | 0.7500 | 4 | 3.25 | 30.10 | 0.108 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.5000 | 1 | 5.14 | 9.78 | 0.526 | 1 | Gusset Bearing |
| | | Top Girt | A325X | 0.5000 | 1 | 1.47 | 9.78 | 0.150 | 1 | Gusset Bearing |
| | | Bottom Girt | A325X | 0.5000 | 1 | 1.47 | 9.78 | 0.150 | 1 | Gusset Bearing |
| T5 | 110 | Leg | A325X | 0.7500 | 4 | 4.78 | 30.10 | 0.159 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.5000 | 1 | 5.46 | 11.04 | 0.494 | 1 | Bolt Shear |
| | | Top Girt | A325X | 0.5000 | 1 | 1.21 | 11.04 | 0.109 | 1 | Bolt Shear |
| | | Bottom Girt | A325X | 0.5000 | 1 | 1.24 | 11.04 | 0.112 | 1 | Bolt Shear |
| | | Torque Arm Top@92.5234 | A325N | 0.8750 | 2 | 6.40 | 22.08 | 0.290 | 1 | Member Bearing |
| T6 | 90 | Diagonal | A325X | 0.6250 | 1 | 2.99 | 9.11 | 0.329 | 1 | Member Block Shear |
| | | Top Girt | A325X | 0.5000 | 1 | 1.01 | 5.92 | 0.171 | 1 | Member Bearing |
| T7 | 87.6 | Leg | A325X | 0.7500 | 4 | 3.87 | 30.10 | 0.128 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.5000 | 1 | 2.61 | 5.92 | 0.441 | 1 | Member Bearing |
| | | Bottom Girt | A325X | 0.6250 | 1 | 0.89 | 5.26 | 0.170 | 1 | Member Bearing |
| T8 | 70 | Leg | A325X | 0.7500 | 4 | 4.86 | 30.10 | 0.161 | 1 | Bolt Tension |

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| Section No. | Elevation ft | Component Type | Bolt Grade | Bolt Size in | Number Of Bolts | Maximum Load per Bolt K | Allowable Load per Bolt K | Ratio Load Allowable | Allowable Ratio | Criteria |
|-------------|-----------------|----------------|------------|-----------------|-----------------|----------------------------|------------------------------|----------------------|-----------------|----------------|
| T9 | 50 | Diagonal | A325X | 0.5000 | 1 | 3.31 | 11.04 | 0.300 | 1 | Bolt Shear |
| | | Top Girt | A325X | 0.5000 | 1 | 1.34 | 11.04 | 0.121 | 1 | Bolt Shear |
| | | Bottom Girt | A325X | 0.5000 | 1 | 1.01 | 11.04 | 0.091 | 1 | Bolt Shear |
| | | Leg | A325X | 0.7500 | 4 | 4.98 | 30.10 | 0.166 | 1 | Bolt Tension |
| T10 | 35 | Diagonal | A325X | 0.5000 | 1 | 1.31 | 7.02 | 0.186 | 1 | Member Bearing |
| | | Top Girt | A325X | 0.5000 | 1 | 1.05 | 5.92 | 0.177 | 1 | Member Bearing |
| | | Bottom Girt | A325X | 0.5000 | 1 | 1.05 | 5.92 | 0.177 | 1 | Member Bearing |
| | | Leg | A325X | 0.7500 | 4 | 4.49 | 30.10 | 0.149 | 1 | Bolt Tension |
| T11 | 20 | Diagonal | A325X | 0.5000 | 1 | 1.69 | 5.92 | 0.286 | 1 | Member Bearing |
| | | Top Girt | A325X | 0.5000 | 1 | 1.04 | 5.92 | 0.175 | 1 | Member Bearing |
| | | Bottom Girt | A325X | 0.5000 | 1 | 1.04 | 5.92 | 0.175 | 1 | Member Bearing |
| | | Leg | A325X | 0.7500 | 4 | 4.26 | 30.10 | 0.141 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.5000 | 1 | 2.84 | 11.04 | 0.257 | 1 | Bolt Shear |
| | | Top Girt | A325X | 0.5000 | 1 | 0.93 | 11.04 | 0.084 | 1 | Bolt Shear |
| | | Bottom Girt | A325X | 0.5000 | 1 | 5.81 | 11.04 | 0.526 | 1 | Bolt Shear |

Guy Design Data

| Section No. | Elevation ft | Size | Initial Tension K | Breaking Load K | Actual T_u K | Allowable ϕT_n K | Required S.F. | Actual S.F. |
|-------------|------------------|---------|----------------------|--------------------|-------------------|---------------------------|---------------|-------------|
| T2 | 166.98 (A) (483) | 7/8 EHS | 7.97 | 79.70 | 18.18 | 47.82 | 1.000 | 2.630 |
| | 166.98 (A) (484) | 7/8 EHS | 7.97 | 79.70 | 17.76 | 47.82 | 1.000 | 2.692 |
| | 166.98 (B) (479) | 7/8 EHS | 7.97 | 79.70 | 18.71 | 47.82 | 1.000 | 2.556 |
| | 166.98 (B) (480) | 7/8 EHS | 7.97 | 79.70 | 19.10 | 47.82 | 1.000 | 2.504 |
| | 166.98 (C) (472) | 7/8 EHS | 7.97 | 79.70 | 18.00 | 47.82 | 1.000 | 2.657 |
| | 166.98 (C) (473) | 7/8 EHS | 7.97 | 79.70 | 17.92 | 47.82 | 1.000 | 2.669 |
| T5 | 92.52 (A) (498) | 5/8 EHS | 4.24 | 42.40 | 12.59 | 25.44 | 1.000 | 2.020 |
| | 92.52 (A) (499) | 5/8 EHS | 4.24 | 42.40 | 12.29 | 25.44 | 1.000 | 2.069 |
| | 92.52 (B) (494) | 5/8 EHS | 4.24 | 42.40 | 13.43 | 25.44 | 1.000 | 1.894 |
| | 92.52 (B) (495) | 5/8 EHS | 4.24 | 42.40 | 13.63 | 25.44 | 1.000 | 1.866 |
| | 92.52 (C) (487) | 5/8 EHS | 4.24 | 42.40 | 12.53 | 25.44 | 1.000 | 2.031 |
| | 92.52 (C) (488) | 5/8 EHS | 4.24 | 42.40 | 12.52 | 25.44 | 1.000 | 2.033 |

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Compression Checks

Leg Design Data (Compression)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio P _u / φP _n |
|-------------|-----------------|--------------------------------------|---------|----------------------|----------------|----------------------|---------------------|----------------------|---|
| T1 | 190 - 170 | ROHN 3 EH | 20.00 | 0.11 | 1.2 K=1.00 | 3.0159 | -15.56 | 135.70 | 0.115 ¹ |
| T2 | 170 - 150 | ROHN 3 EH | 20.00 | 0.11 | 1.2 K=1.00 | 3.0159 | -73.22 | 135.70 | 0.540 ¹ |
| T3 | 150 - 130 | P 2-1/2 X-STR w/ Split P 3 STD (GPD) | 20.00 | 2.41 | 36.9 K=1.18 | 3.3678 | -86.97 | 137.18 | 0.634 ¹ |
| T4 | 130 - 110 | P 2-1/2 X-STR w/ Split P 3 STD (GPD) | 20.00 | 2.41 | 36.9 K=1.18 | 3.3678 | -81.69 | 127.22 | 0.642 ¹ |
| T5 | 110 - 90 | ROHN 3 EH | 20.00 | 2.41 | 25.4 K=1.00 | 3.0159 | -58.44 | 129.44 | 0.451 ¹ |
| T6 | 90 - 87.6 | ROHN 3 EH | 2.40 | 2.40 | 25.3 K=1.00 | 3.0159 | -53.49 | 129.49 | 0.413 ¹ |
| T7 | 87.6 - 70 | ROHN 3 EH | 17.60 | 2.41 | 25.5 K=1.00 | 3.0159 | -50.34 | 129.44 | 0.389 ¹ |
| T8 | 70 - 50 | ROHN 3 EH | 20.00 | 2.41 | 50.9 K=2.00 | 3.0159 | -57.53 | 112.32 | 0.512 ¹ |
| T9 | 50 - 35 | ROHN 3 EH | 15.00 | 2.38 | 50.2 K=2.00 | 3.0159 | -60.41 | 112.85 | 0.535 ¹ |
| T10 | 35 - 20 | ROHN 3 EH | 15.00 | 2.38 | 50.2 K=2.00 | 3.0159 | -59.29 | 112.85 | 0.525 ¹ |
| T11 | 20 - 4.8125 | ROHN 3 EH | 15.19 | 2.41 | 50.9 K=2.00 | 3.0159 | -53.50 | 112.30 | 0.476 ¹ |
| T12 | 4.8125 - 0 | ROHN 3 EH | 5.20 | 1.59 | 16.8 K=1.00 | 3.0159 | -55.08 | 132.93 | 0.414 ¹ |

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio P _u / φP _n |
|-------------|-----------------|-----------------|---------|----------------------|-----------------|----------------------|---------------------|----------------------|---|
| T1 | 190 - 170 | L2x2x1/4 | 4.18 | 3.58 | 115.0 K=1.05 | 0.9375 | -2.13 | 19.72 | 0.108 ¹ |
| T2 | 170 - 150 | L2x2x1/4 | 4.18 | 3.58 | 115.0 K=1.05 | 0.9375 | -5.90 | 19.72 | 0.299 ¹ |
| T3 | 150 - 130 | ROHN 1.5 x 16GA | 4.18 | 3.82 | 89.9 K=1.00 | 0.2627 | -2.71 | 6.04 | 0.449 ¹ |
| T4 | 130 - 110 | ROHN 1.5 x 11GA | 4.18 | 3.82 | 93.7 K=1.00 | 0.5202 | -5.14 | 11.47 | 0.449 ¹ |
| T5 | 110 - 90 | ROHN 1.5 x 11GA | 4.18 | 3.82 | 93.7 K=1.00 | 0.5202 | -5.46 | 11.47 | 0.476 ¹ |
| T6 | 90 - 87.6 | L2x2x1/4 | 4.18 | 3.58 | 114.9 K=1.05 | 0.9375 | -3.40 | 19.74 | 0.172 ¹ |
| T7 | 87.6 - 70 | ROHN 1.5 x 16GA | 4.18 | 3.82 | 89.9 K=1.00 | 0.2627 | -2.41 | 6.04 | 0.399 ¹ |
| T8 | 70 - 50 | ROHN 1.5 x 11GA | 4.18 | 3.82 | 93.7 K=1.00 | 0.5202 | -3.31 | 11.47 | 0.288 ¹ |
| T9 | 50 - 35 | ROHN 1.5 x 16GA | 4.16 | 3.81 | 89.6 K=1.00 | 0.2627 | -1.31 | 6.07 | 0.215 ¹ |

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| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|-----------------|---------|----------------------|--------------------------|----------------------|---------------------|----------------------|---------------------------------|
| T10 | 35 - 20 | ROHN 1.5 x 16GA | 4.16 | 3.81 | K=1.00 89.6 | 0.2627 | -1.97 | 6.07 | 0.325 ¹ |
| T11 | 20 - 4.8125 | ROHN 1.5 x 11GA | 4.18 | 3.82 | K=1.00 93.7 K=1.00 | 0.5202 | -2.53 | 11.47 | 0.221 ¹ |

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|----------|---------|----------------------|-----------------|----------------------|---------------------|----------------------|---------------------------------|
| T12 | 4.8125 - 0 | L8x8x3/4 | 1.05 | 0.76 | 62.9 K=10.92 | 11.4375 | -1.36 | 360.56 | 0.004 ¹ |

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|-----------------|-----------------|---------|----------------------|-----------------|----------------------|---------------------|----------------------|---------------------------------|
| T1 | 190 - 170 | L2x2x1/4 | 3.42 | 2.89 | 104.3 K=1.18 | 0.9375 | -0.00 | 22.21 | 0.000 ¹ |
| T2 | 170 - 150 | L2x2x1/4 | 3.42 | 2.89 | 104.3 K=1.18 | 0.9375 | -1.27 | 22.21 | 0.057 ¹ |
| T3 | 150 - 130 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 K=1.00 | 0.2627 | -1.51 | 7.13 | 0.211 ¹ |
| T4 | 130 - 110 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 K=1.00 | 0.5202 | -1.47 | 13.72 | 0.107 ¹ |
| T5 | 110 - 90 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 K=1.00 | 0.5202 | -1.01 | 13.72 | 0.074 ¹ |
| T6 | 90 - 87.6 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 K=1.00 | 0.2627 | -1.01 | 7.13 | 0.142 ¹ |
| T8 | 70 - 50 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 K=1.00 | 0.5202 | -1.12 | 13.72 | 0.082 ¹ |
| T9 | 50 - 35 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 K=1.00 | 0.2627 | -1.05 | 7.13 | 0.147 ¹ |
| T10 | 35 - 20 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 K=1.00 | 0.2627 | -1.04 | 7.13 | 0.145 ¹ |
| T11 | 20 - 4.8125 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 K=1.00 | 0.5202 | -0.93 | 13.72 | 0.068 ¹ |
| T12 | 4.8125 - 0 | L8x8x3/4 | 2.98 | 2.69 | 70.2 K=3.43 | 11.4375 | -1.01 | 347.87 | 0.003 ¹ |

¹ P_u / φP_n controls

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Bottom Girt Design Data (Compression)

| Section No. | Elevation <i>ft</i> | Size | L <i>ft</i> | L_u <i>ft</i> | Kl/r | A <i>in²</i> | P_u <i>K</i> | ϕP_n <i>K</i> | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|------------------------|-----------------|------------------|--------------------|-----------------|------------------------------|-------------------|------------------------|---------------------------------|
| T1 | 190 - 170 | L2x2x1/4 | 3.42 | 2.89 | 104.3 K=1.18 | 0.9375 | -0.49 | 22.21 | 0.022 ¹ |
| T2 | 170 - 150 | L2x2x1/4 | 3.42 | 2.89 | 104.3 K=1.18 | 0.9375 | -1.33 | 23.67 | 0.056 ¹ |
| T3 | 150 - 130 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 K=1.00 | 0.2627 | -1.51 | 7.13 | 0.211 ¹ |
| T4 | 130 - 110 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 K=1.00 | 0.5202 | -1.47 | 13.72 | 0.107 ¹ |
| T5 | 110 - 90 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 K=1.00 | 0.5202 | -1.01 | 13.72 | 0.074 ¹ |
| T7 | 87.6 - 70 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 K=1.00 | 0.2627 | -0.89 | 7.13 | 0.126 ¹ |
| T8 | 70 - 50 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 K=1.00 | 0.5202 | -1.01 | 13.72 | 0.074 ¹ |
| T9 | 50 - 35 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 K=1.00 | 0.2627 | -1.05 | 7.13 | 0.147 ¹ |
| T10 | 35 - 20 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 K=1.00 | 0.2627 | -1.04 | 7.13 | 0.145 ¹ |
| T11 | 20 - 4.8125 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 K=1.00 | 0.5202 | -0.93 | 13.72 | 0.068 ¹ |

¹ $P_u / \phi P_u$ controls

Top Guy Pull-Off Design Data (Compression)

| Section No. | Elevation <i>ft</i> | Size | L <i>ft</i> | L_u <i>ft</i> | Kl/r | A <i>in²</i> | P_u <i>K</i> | ϕP_n <i>K</i> | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|------------------------|-----------|------------------|--------------------|----------------|------------------------------|-------------------|------------------------|---------------------------------|
| T2 | 170 - 150 | 2L2x2x1/4 | 3.42 | 3.13 | 61.6 K=1.00 | 1.8800 | -8.07 | 59.61 | 0.135 ¹ |
| T5 | 110 - 90 | 2L2x2x1/4 | 3.42 | 3.13 | 61.6 K=1.00 | 1.8800 | -8.07 | 59.61 | 0.135 ¹ |

¹ $P_u / \phi P_n$ controls

Top Guy Pull-Off Bending Design Data

| Section No. | Elevation <i>ft</i> | Size | M_{ux} <i>kip-ft</i> | ϕM_{ux} <i>kip-ft</i> | Ratio $\frac{M_{ux}}{\phi M_{ux}}$ | M_{uy} <i>kip-ft</i> | ϕM_{uy} <i>kip-ft</i> | Ratio $\frac{M_{uy}}{\phi M_{uy}}$ |
|-------------|------------------------|-----------|---------------------------|--------------------------------|---------------------------------------|---------------------------|--------------------------------|---------------------------------------|
| T2 | 170 - 150 | 2L2x2x1/4 | 0.00 | 2.00 | 0.000 | 0.00 | 2.73 | 0.000 |
| T5 | 110 - 90 | 2L2x2x1/4 | 0.00 | 2.00 | 0.000 | 0.00 | 2.73 | 0.000 |

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Top Guy Pull-Off Interaction Design Data

| Section No. | Elevation ft | Size | Ratio | Ratio | Ratio | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|-----------------|-----------|-------|----------|----------|--------------------|---------------------|----------|
| | | | P_u | M_{ux} | M_{uy} | | | |
| T2 | 170 - 150 | 2L2x2x1/4 | 0.135 | 0.000 | 0.000 | 0.135 ¹ | 1.000 | |
| T5 | 110 - 90 | 2L2x2x1/4 | 0.135 | 0.000 | 0.000 | 0.135 ¹ | 1.000 | |

¹ $P_u / \phi P_n$ controls

Torque-Arm Top Design Data

| Section No. | Elevation ft | Size | L | L _u | Kl/r | A | P _u | ϕP_n | Ratio |
|-------------|-----------------|-----------|------|----------------|----------------|-----------------|----------------|------------|------------|
| | | | ft | ft | | in ² | K | K | ϕP_u |
| T2 | 170 - 150 (474) | MC18x42.7 | 3.42 | 3.27 | 36.7 | 12.6000 | -3.64 | 380.32 | 0.010 |
| T2 | 170 - 150 (475) | MC18x42.7 | 3.42 | 3.27 | K=1.00 36.7 | 12.6000 | -3.45 | 380.32 | 0.009 |
| T2 | 170 - 150 (481) | MC18x42.7 | 3.42 | 3.27 | K=1.00 36.7 | 12.6000 | -3.58 | 380.32 | 0.009 |
| T2 | 170 - 150 (482) | MC18x42.7 | 3.42 | 3.27 | K=1.00 36.7 | 12.6000 | -3.42 | 380.32 | 0.009 |
| T2 | 170 - 150 (485) | MC18x42.7 | 3.42 | 3.27 | K=1.00 36.7 | 12.6000 | -4.05 | 380.32 | 0.011 |
| T2 | 170 - 150 (486) | MC18x42.7 | 3.42 | 3.27 | K=1.00 36.7 | 12.6000 | -3.65 | 380.32 | 0.010 |
| T5 | 110 - 90 (489) | C12x20.7 | 3.42 | 3.27 | K=1.00 49.1 | 6.0900 | -4.46 | 173.78 | 0.026 |
| T5 | 110 - 90 (490) | C12x20.7 | 3.42 | 3.27 | K=1.00 49.1 | 6.0900 | -4.50 | 173.78 | 0.026 |
| T5 | 110 - 90 (496) | C12x20.7 | 3.42 | 3.27 | K=1.00 49.1 | 6.0900 | -4.75 | 173.78 | 0.027 |
| T5 | 110 - 90 (497) | C12x20.7 | 3.42 | 3.27 | K=1.00 49.1 | 6.0900 | -6.13 | 173.78 | 0.035 |
| T5 | 110 - 90 (500) | C12x20.7 | 3.42 | 3.27 | K=1.00 49.1 | 6.0900 | -5.14 | 173.78 | 0.030 |
| T5 | 110 - 90 (501) | C12x20.7 | 3.42 | 3.27 | K=1.00 49.1 | 6.0900 | -6.24 | 173.78 | 0.036 |

Torque-Arm Top Bending Design Data

| Section No. | Elevation ft | Size | M _{ux} | ϕM_{ux} | Ratio | M _{uy} | ϕM_{uy} | Ratio |
|-------------|-----------------|-----------|-----------------|---------------|------------------------------|-----------------|---------------|------------------------------|
| | | | kip-ft | kip-ft | $\frac{M_{ux}}{\phi M_{ux}}$ | kip-ft | kip-ft | $\frac{M_{uy}}{\phi M_{uy}}$ |
| T2 | 170 - 150 (474) | MC18x42.7 | -40.52 | 200.88 | 0.202 | 0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (475) | MC18x42.7 | -40.07 | 200.88 | 0.199 | 0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (481) | MC18x42.7 | -46.45 | 200.88 | 0.231 | 0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (482) | MC18x42.7 | -40.53 | 200.88 | 0.202 | -0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (485) | MC18x42.7 | -46.54 | 200.88 | 0.232 | 0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (486) | MC18x42.7 | -40.14 | 200.88 | 0.200 | -0.00 | 18.99 | 0.000 |
| T5 | 110 - 90 (489) | C12x20.7 | -17.02 | 68.58 | 0.248 | 0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (490) | C12x20.7 | -16.98 | 68.58 | 0.248 | -0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (496) | C12x20.7 | -23.51 | 68.58 | 0.343 | 0.00 | 7.01 | 0.000 |

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| Section No. | Elevation ft | Size | M_{ux} kip-ft | ϕM_{ux} kip-ft | Ratio $\frac{M_{ux}}{\phi M_{ux}}$ | M_{uy} kip-ft | ϕM_{uy} kip-ft | Ratio $\frac{M_{uy}}{\phi M_{uy}}$ |
|-------------|----------------|----------|--------------------|-------------------------|---------------------------------------|--------------------|-------------------------|---------------------------------------|
| T5 | 110 - 90 (497) | C12x20.7 | -17.17 | 68.58 | 0.250 | -0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (500) | C12x20.7 | -23.43 | 68.58 | 0.342 | 0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (501) | C12x20.7 | -16.74 | 68.58 | 0.244 | -0.00 | 7.01 | 0.000 |

Torque-Arm Top Interaction Design Data

| Section No. | Elevation ft | Size | Ratio P_u ϕP_n | Ratio M_{ux} ϕM_{ux} | Ratio M_{uy} ϕM_{uy} | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|-----------------|-----------|------------------------------|------------------------------------|------------------------------------|-----------------------|------------------------|----------|
| T2 | 170 - 150 (474) | MC18x42.7 | 0.010 | 0.202 | 0.000 | 0.207 | 1.000 | |
| T2 | 170 - 150 (475) | MC18x42.7 | 0.009 | 0.199 | 0.000 | 0.204 | 1.000 | |
| T2 | 170 - 150 (481) | MC18x42.7 | 0.009 | 0.231 | 0.000 | 0.236 | 1.000 | |
| T2 | 170 - 150 (482) | MC18x42.7 | 0.009 | 0.202 | 0.000 | 0.206 | 1.000 | |
| T2 | 170 - 150 (485) | MC18x42.7 | 0.011 | 0.232 | 0.000 | 0.237 | 1.000 | |
| T2 | 170 - 150 (486) | MC18x42.7 | 0.010 | 0.200 | 0.000 | 0.205 | 1.000 | |
| T5 | 110 - 90 (489) | C12x20.7 | 0.026 | 0.248 | 0.000 | 0.261 | 1.000 | |
| T5 | 110 - 90 (490) | C12x20.7 | 0.026 | 0.248 | 0.000 | 0.261 | 1.000 | |
| T5 | 110 - 90 (496) | C12x20.7 | 0.027 | 0.343 | 0.000 | 0.356 | 1.000 | |
| T5 | 110 - 90 (497) | C12x20.7 | 0.035 | 0.250 | 0.000 | 0.268 | 1.000 | |
| T5 | 110 - 90 (500) | C12x20.7 | 0.030 | 0.342 | 0.000 | 0.356 | 1.000 | |
| T5 | 110 - 90 (501) | C12x20.7 | 0.036 | 0.244 | 0.000 | 0.262 | 1.000 | |

Tension Checks

Leg Design Data (Tension)

| Section No. | Elevation ft | Size | L ft | L_u ft | Kl/r | A in ² | P_u K | ϕP_n K | Ratio $\frac{P_u}{\phi P_n}$ |
|-------------|--------------|--------------------------------------|-----------|-------------|--------|------------------------|------------|-----------------|---------------------------------|
| T1 | 190 - 170 | ROHN 3 EH | 20.00 | 0.11 | 1.2 | 3.0159 | 11.68 | 135.72 | 0.086 ¹ |
| T2 | 170 - 150 | ROHN 3 EH | 20.00 | 0.11 | 1.2 | 3.0159 | 39.34 | 135.72 | 0.290 ¹ |
| T3 | 150 - 130 | P 2-1/2 X-STR w/ Split P 3 STD (GPD) | 20.00 | 2.41 | 31.2 | 3.3678 | 51.73 | 151.55 | 0.341 ¹ |
| T4 | 130 - 110 | P 2-1/2 X-STR w/ Split P 3 STD (GPD) | 20.00 | 0.61 | 8.0 | 3.3678 | 46.94 | 139.43 | 0.337 ¹ |
| T5 | 110 - 90 | ROHN 3 EH | 20.00 | 2.41 | 25.4 | 3.0159 | 20.47 | 135.72 | 0.151 ¹ |
| T6 | 90 - 87.6 | ROHN 3 EH | 2.40 | 2.40 | 25.3 | 3.0159 | 3.82 | 135.72 | 0.028 ¹ |
| T7 | 87.6 - 70 | ROHN 3 EH | 17.60 | 0.61 | 6.5 | 3.0159 | 0.56 | 135.72 | 0.004 ¹ |
| T8 | 70 - 50 | ROHN 3 EH | 20.00 | 0.11 | 1.2 | 3.0159 | 2.07 | 135.72 | 0.015 ¹ |
| T9 | 50 - 35 | ROHN 3 EH | 15.00 | 2.38 | 25.1 | 3.0159 | 3.25 | 135.72 | 0.024 ¹ |
| T10 | 35 - 20 | ROHN 3 EH | 15.00 | 0.61 | 6.5 | 3.0159 | 2.22 | 135.72 | 0.016 ¹ |

¹ $P_u / \phi P_n$ controls

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Diagonal Design Data (Tension)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio P _u / φP _n |
|-------------|-----------------|-----------------|---------|----------------------|------|----------------------|---------------------|----------------------|---|
| T1 | 190 - 170 | L2x2x1/4 | 4.18 | 3.58 | 75.4 | 0.5625 | 2.08 | 24.47 | 0.085 ¹ |
| T2 | 170 - 150 | L2x2x1/4 | 4.18 | 3.58 | 75.4 | 0.5625 | 6.09 | 24.47 | 0.249 ¹ |
| T3 | 150 - 130 | ROHN 1.5 x 16GA | 4.18 | 3.82 | 89.9 | 0.1902 | 2.41 | 8.99 | 0.269 ¹ |
| T4 | 130 - 110 | ROHN 1.5 x 11GA | 4.18 | 3.82 | 93.7 | 0.3702 | 4.71 | 16.11 | 0.292 ¹ |
| T5 | 110 - 90 | ROHN 1.5 x 11GA | 4.18 | 3.82 | 93.7 | 0.3702 | 5.20 | 16.11 | 0.323 ¹ |
| T6 | 90 - 87.6 | L2x2x1/4 | 4.18 | 3.58 | 75.3 | 0.5625 | 2.99 | 24.47 | 0.122 ¹ |
| T7 | 87.6 - 70 | ROHN 1.5 x 16GA | 4.18 | 3.82 | 89.9 | 0.1902 | 2.61 | 8.99 | 0.290 ¹ |
| T8 | 70 - 50 | ROHN 1.5 x 11GA | 4.18 | 3.82 | 93.7 | 0.3702 | 3.09 | 16.11 | 0.192 ¹ |
| T9 | 50 - 35 | ROHN 1.5 x 16GA | 4.16 | 3.81 | 89.6 | 0.1902 | 0.93 | 8.99 | 0.104 ¹ |
| T10 | 35 - 20 | ROHN 1.5 x 16GA | 4.16 | 3.81 | 89.6 | 0.1902 | 1.69 | 8.99 | 0.188 ¹ |
| T11 | 20 - 4.8125 | ROHN 1.5 x 11GA | 4.18 | 3.82 | 93.7 | 0.3702 | 2.84 | 16.11 | 0.176 ¹ |

¹ P_u / φP_n controls

Horizontal Design Data (Tension)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio P _u / φP _n |
|-------------|-----------------|----------|---------|----------------------|------|----------------------|---------------------|----------------------|---|
| T12 | 4.8125 - 0 | L8x8x3/4 | 1.05 | 0.76 | 3.7 | 11.4375 | 1.50 | 370.57 | 0.004 ¹ |

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio P _u / φP _n |
|-------------|-----------------|-----------------|---------|----------------------|------|----------------------|---------------------|----------------------|---|
| T1 | 190 - 170 | L2x2x1/4 | 3.42 | 2.89 | 61.6 | 0.5625 | 0.01 | 24.47 | 0.000 ¹ |
| T2 | 170 - 150 | L2x2x1/4 | 3.42 | 2.89 | 61.6 | 0.5625 | 1.27 | 24.47 | 0.052 ¹ |
| T3 | 150 - 130 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 | 0.1902 | 1.51 | 8.99 | 0.168 ¹ |
| T4 | 130 - 110 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 | 0.3702 | 1.47 | 16.11 | 0.091 ¹ |
| T5 | 110 - 90 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 | 0.3702 | 1.21 | 16.11 | 0.075 ¹ |
| T6 | 90 - 87.6 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 | 0.1902 | 1.01 | 8.99 | 0.113 ¹ |
| T8 | 70 - 50 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 | 0.3702 | 1.34 | 17.49 | 0.077 ¹ |
| T9 | 50 - 35 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 | 0.1902 | 1.05 | 8.99 | 0.116 ¹ |
| T10 | 35 - 20 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 | 0.1902 | 1.04 | 8.99 | 0.115 ¹ |
| T11 | 20 - 4.8125 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 | 0.3702 | 0.93 | 16.11 | 0.058 ¹ |
| T12 | 4.8125 - 0 | L8x8x3/4 | 2.98 | 2.69 | 13.1 | 11.4375 | 5.73 | 370.57 | 0.015 ¹ |

¹ P_u / φP_n controls

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Bottom Girt Design Data (Tension)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio P _u / φP _n |
|-------------|-----------------|-----------------|---------|----------------------|------|----------------------|---------------------|----------------------|---|
| T1 | 190 - 170 | L2x2x1/4 | 3.42 | 2.89 | 61.6 | 0.5625 | 0.58 | 24.47 | 0.024 ¹ |
| T2 | 170 - 150 | L2x2x1/4 | 3.42 | 2.89 | 61.6 | 0.5625 | 2.05 | 26.58 | 0.077 ¹ |
| T3 | 150 - 130 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 | 0.1902 | 1.51 | 8.99 | 0.168 ¹ |
| T4 | 130 - 110 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 | 0.3702 | 1.47 | 16.11 | 0.091 ¹ |
| T5 | 110 - 90 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 | 0.3702 | 1.24 | 16.11 | 0.077 ¹ |
| T7 | 87.6 - 70 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 | 0.1318 | 0.89 | 6.23 | 0.144 ¹ |
| T8 | 70 - 50 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 | 0.3702 | 1.01 | 17.49 | 0.058 ¹ |
| T9 | 50 - 35 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 | 0.1902 | 1.05 | 8.99 | 0.116 ¹ |
| T10 | 35 - 20 | ROHN 1.5 x 16GA | 3.42 | 3.13 | 73.5 | 0.1902 | 1.04 | 8.99 | 0.115 ¹ |
| T11 | 20 - 4.8125 | ROHN 1.5 x 11GA | 3.42 | 3.13 | 76.6 | 0.3702 | 5.81 | 16.11 | 0.361 ¹ |

¹ P_u / φP_n controls

Top Guy Pull-Off Design Data (Tension)

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio P _u / φP _n |
|-------------|-----------------|-----------|---------|----------------------|------|----------------------|---------------------|----------------------|---|
| T2 | 170 - 150 | 2L2x2x1/4 | 3.42 | 3.13 | 61.6 | 1.8800 | 8.49 | 60.91 | 0.139 ¹ |
| T5 | 110 - 90 | 2L2x2x1/4 | 3.42 | 3.13 | 61.6 | 1.8800 | 11.08 | 60.91 | 0.182 ¹ |

¹ P_u / φP_n controls

Top Guy Pull-Off Bending Design Data

| Section No. | Elevation ft | Size | M _{ux} kip-ft | φM _{ux} kip-ft | Ratio M _{ux} / φM _{ux} | M _{uy} kip-ft | φM _{uy} kip-ft | Ratio M _{uy} / φM _{uy} |
|-------------|-----------------|-----------|---------------------------|----------------------------|---|---------------------------|----------------------------|---|
| T2 | 170 - 150 | 2L2x2x1/4 | 0.00 | 2.00 | 0.000 | 0.00 | 2.73 | 0.000 |
| T5 | 110 - 90 | 2L2x2x1/4 | 0.00 | 2.00 | 0.000 | 0.00 | 2.73 | 0.000 |

Top Guy Pull-Off Interaction Design Data

| Section No. | Elevation ft | Size | Ratio P _u / φP _n | Ratio M _{ux} / φM _{ux} | Ratio M _{uy} / φM _{uy} | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|-----------------|-----------|---|---|---|--------------------|---------------------|----------|
| T2 | 170 - 150 | 2L2x2x1/4 | 0.139 | 0.000 | 0.000 | 0.139 ¹ | 1.000 | |
| T5 | 110 - 90 | 2L2x2x1/4 | 0.182 | 0.000 | 0.000 | 0.182 ¹ | 1.000 | |

¹ P_u / φP_n controls

| | | | | |
|--|----------------|--------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101 | Job | CT10016-A Montville 3 CT | Page | 34 of 36 |
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| | Client | SBA | Designed by | bfranczkowski |

Torque-Arm Top Design Data

| Section No. | Elevation ft | Size | L ft | L _u ft | Kl/r | A in ² | P _u K | φP _n K | Ratio P _u / φP _n |
|-------------|-----------------|-----------|---------|----------------------|------|----------------------|---------------------|----------------------|--|
| T2 | 170 - 150 (474) | MC18x42.7 | 3.42 | 3.27 | 36.7 | 9.1125 | 0.37 | 396.39 | 0.001 |
| T2 | 170 - 150 (475) | MC18x42.7 | 3.42 | 3.27 | 36.7 | 9.1125 | 0.85 | 396.39 | 0.002 |
| T2 | 170 - 150 (481) | MC18x42.7 | 3.42 | 3.27 | 36.7 | 9.1125 | 0.69 | 396.39 | 0.002 |
| T2 | 170 - 150 (482) | MC18x42.7 | 3.42 | 3.27 | 36.7 | 9.1125 | 0.48 | 396.39 | 0.001 |
| T2 | 170 - 150 (485) | MC18x42.7 | 3.42 | 3.27 | 36.7 | 9.1125 | 0.21 | 396.39 | 0.001 |
| T2 | 170 - 150 (486) | MC18x42.7 | 3.42 | 3.27 | 36.7 | 9.1125 | 0.49 | 396.39 | 0.001 |
| T5 | 110 - 90 (489) | C12x20.7 | 3.42 | 3.27 | 49.1 | 4.3560 | 4.81 | 189.49 | 0.025 |
| T5 | 110 - 90 (490) | C12x20.7 | 3.42 | 3.27 | 49.1 | 4.3560 | 0.02 | 189.49 | 0.000 |
| T5 | 110 - 90 (496) | C12x20.7 | 3.42 | 3.27 | 49.1 | 4.3560 | 5.01 | 189.49 | 0.026 |
| T5 | 110 - 90 (497) | C12x20.7 | 3.42 | 3.27 | 49.1 | 4.3560 | 4.89 | 189.49 | 0.026 |
| T5 | 110 - 90 (500) | C12x20.7 | 3.42 | 3.27 | 49.1 | 4.3560 | 4.67 | 189.49 | 0.025 |
| T5 | 110 - 90 (501) | C12x20.7 | 3.42 | 3.27 | 49.1 | 4.3560 | 4.96 | 189.49 | 0.026 |

Torque-Arm Top Bending Design Data

| Section No. | Elevation ft | Size | M _{ux} kip-ft | φM _{ux} kip-ft | Ratio M _{ux} / φM _{ux} | M _{uy} kip-ft | φM _{uy} kip-ft | Ratio M _{uy} / φM _{uy} |
|-------------|-----------------|-----------|---------------------------|----------------------------|--|---------------------------|----------------------------|--|
| T2 | 170 - 150 (474) | MC18x42.7 | -38.79 | 200.88 | 0.193 | 0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (475) | MC18x42.7 | -38.65 | 200.88 | 0.192 | -0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (481) | MC18x42.7 | -44.59 | 200.88 | 0.222 | 0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (482) | MC18x42.7 | -37.88 | 200.88 | 0.189 | -0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (485) | MC18x42.7 | -44.03 | 200.88 | 0.219 | -0.00 | 18.99 | 0.000 |
| T2 | 170 - 150 (486) | MC18x42.7 | -37.36 | 200.88 | 0.186 | 0.00 | 18.99 | 0.000 |
| T5 | 110 - 90 (489) | C12x20.7 | -15.36 | 68.58 | 0.224 | 0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (490) | C12x20.7 | -17.56 | 68.58 | 0.256 | 0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (496) | C12x20.7 | -20.30 | 68.58 | 0.296 | 0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (497) | C12x20.7 | -15.37 | 68.58 | 0.224 | 0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (500) | C12x20.7 | -19.52 | 68.58 | 0.285 | 0.00 | 7.01 | 0.000 |
| T5 | 110 - 90 (501) | C12x20.7 | -14.89 | 68.58 | 0.217 | 0.00 | 7.01 | 0.000 |

Torque-Arm Top Interaction Design Data

| Section No. | Elevation ft | Size | Ratio P _u / φP _n | Ratio M _{ux} / φM _{ux} | Ratio M _{uy} / φM _{uy} | Comb. Stress Ratio | Allow. Stress Ratio | Criteria |
|-------------|-----------------|-----------|--|--|--|--------------------------|---------------------------|----------|
| T2 | 170 - 150 (474) | MC18x42.7 | 0.001 | 0.193 | 0.000 | 0.194 | 1.000 | |
| T2 | 170 - 150 (475) | MC18x42.7 | 0.002 | 0.192 | 0.000 | 0.193 | 1.000 | |
| T2 | 170 - 150 (481) | MC18x42.7 | 0.002 | 0.222 | 0.000 | 0.223 | 1.000 | |
| T2 | 170 - 150 (482) | MC18x42.7 | 0.001 | 0.189 | 0.000 | 0.189 | 1.000 | |
| T2 | 170 - 150 (485) | MC18x42.7 | 0.001 | 0.219 | 0.000 | 0.219 | 1.000 | |
| T2 | 170 - 150 (486) | MC18x42.7 | 0.001 | 0.186 | 0.000 | 0.187 | 1.000 | |
| T5 | 110 - 90 (489) | C12x20.7 | 0.025 | 0.224 | 0.000 | 0.237 | 1.000 | |
| T5 | 110 - 90 (490) | C12x20.7 | 0.000 | 0.256 | 0.000 | 0.256 | 1.000 | |
| T5 | 110 - 90 (496) | C12x20.7 | 0.026 | 0.296 | 0.000 | 0.309 | 1.000 | |
| T5 | 110 - 90 (497) | C12x20.7 | 0.026 | 0.224 | 0.000 | 0.237 | 1.000 | |
| T5 | 110 - 90 (500) | C12x20.7 | 0.025 | 0.285 | 0.000 | 0.297 | 1.000 | |
| T5 | 110 - 90 (501) | C12x20.7 | 0.026 | 0.217 | 0.000 | 0.230 | 1.000 | |

| | | |
|--|--|-------------------------------------|
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| | Client SBA | Designed by bfranczkowski |

Section Capacity Table

| Section No. | Elevation ft | Component Type | Size | Critical Element | P K | ϕP_{allow} K | % Capacity | Pass Fail |
|-------------|--------------|----------------|--------------------------------------|------------------|--------|--------------------|------------------|-----------|
| T1 | 190 - 170 | Leg | ROHN 3 EH | 3 | -15.56 | 135.70 | 11.5 | Pass |
| T2 | 170 - 150 | Leg | ROHN 3 EH | 59 | -73.22 | 135.70 | 54.0 | Pass |
| T3 | 150 - 130 | Leg | P 2-1/2 X-STR w/ Split P 3 STD (GPD) | 116 | -86.97 | 137.18 | 63.4 | Pass |
| T4 | 130 - 110 | Leg | P 2-1/2 X-STR w/ Split P 3 STD (GPD) | 173 | -81.69 | 127.22 | 64.2 | Pass |
| T5 | 110 - 90 | Leg | ROHN 3 EH | 230 | -58.44 | 129.44 | 45.1 | Pass |
| T6 | 90 - 87.6 | Leg | ROHN 3 EH | 287 | -53.49 | 129.49 | 41.3 | Pass |
| T7 | 87.6 - 70 | Leg | ROHN 3 EH | 299 | -50.34 | 129.44 | 38.9 | Pass |
| T8 | 70 - 50 | Leg | ROHN 3 EH | 347 | -57.53 | 112.32 | 51.2 | Pass |
| T9 | 50 - 35 | Leg | ROHN 3 EH | 380 | -60.41 | 112.85 | 53.5 | Pass |
| T10 | 35 - 20 | Leg | ROHN 3 EH | 407 | -59.29 | 112.85 | 52.5 | Pass |
| T11 | 20 - 4.8125 | Leg | ROHN 3 EH | 434 | -53.50 | 112.30 | 47.6 | Pass |
| T12 | 4.8125 - 0 | Leg | ROHN 3 EH | 461 | -55.08 | 132.93 | 41.4 | Pass |
| T1 | 190 - 170 | Diagonal | L2x2x1/4 | 13 | -2.13 | 19.72 | 10.8 | Pass |
| T2 | 170 - 150 | Diagonal | L2x2x1/4 | 106 | -5.90 | 19.72 | 22.8 (b) 29.9 | Pass |
| T3 | 150 - 130 | Diagonal | ROHN 1.5 x 16GA | 169 | -2.71 | 6.04 | 44.9 | Pass |
| T4 | 130 - 110 | Diagonal | ROHN 1.5 x 11GA | 184 | -5.14 | 11.47 | 44.9 | Pass |
| T5 | 110 - 90 | Diagonal | ROHN 1.5 x 11GA | 283 | -5.46 | 11.47 | 52.6 (b) 47.6 | Pass |
| T6 | 90 - 87.6 | Diagonal | L2x2x1/4 | 295 | -3.40 | 19.74 | 49.4 (b) 17.2 | Pass |
| T7 | 87.6 - 70 | Diagonal | ROHN 1.5 x 16GA | 340 | -2.41 | 6.04 | 32.9 (b) 39.9 | Pass |
| T8 | 70 - 50 | Diagonal | ROHN 1.5 x 11GA | 376 | -3.31 | 11.47 | 44.1 (b) 28.8 | Pass |
| T9 | 50 - 35 | Diagonal | ROHN 1.5 x 16GA | 403 | -1.31 | 6.07 | 30.0 (b) 21.5 | Pass |
| T10 | 35 - 20 | Diagonal | ROHN 1.5 x 16GA | 416 | -1.97 | 6.07 | 32.5 | Pass |
| T11 | 20 - 4.8125 | Diagonal | ROHN 1.5 x 11GA | 446 | -2.53 | 11.47 | 22.1 | Pass |
| T12 | 4.8125 - 0 | Horizontal | L8x8x3/4 | 468 | 1.29 | 370.57 | 25.7 (b) | Pass |
| T1 | 190 - 170 | Top Girt | L2x2x1/4 | 4 | 0.01 | 24.47 | 0.2 | Pass |
| T2 | 170 - 150 | Top Girt | L2x2x1/4 | 61 | -1.27 | 22.21 | 5.7 | Pass |
| T3 | 150 - 130 | Top Girt | ROHN 1.5 x 16GA | 118 | -1.51 | 7.13 | 13.9 (b) 21.1 | Pass |
| T4 | 130 - 110 | Top Girt | ROHN 1.5 x 11GA | 175 | -1.47 | 13.72 | 25.4 (b) 10.7 | Pass |
| T5 | 110 - 90 | Top Girt | ROHN 1.5 x 11GA | 234 | 1.21 | 16.11 | 15.0 (b) 7.5 | Pass |
| T6 | 90 - 87.6 | Top Girt | ROHN 1.5 x 16GA | 290 | -1.01 | 7.13 | 10.9 (b) 14.2 | Pass |
| T8 | 70 - 50 | Top Girt | ROHN 1.5 x 11GA | 351 | -1.12 | 13.72 | 17.1 (b) 8.2 | Pass |
| T9 | 50 - 35 | Top Girt | ROHN 1.5 x 16GA | 382 | -1.05 | 7.13 | 12.1 (b) 14.7 | Pass |
| T10 | 35 - 20 | Top Girt | ROHN 1.5 x 16GA | 409 | -1.04 | 7.13 | 17.7 (b) 14.5 | Pass |
| T11 | 20 - 4.8125 | Top Girt | ROHN 1.5 x 11GA | 436 | -0.93 | 13.72 | 17.5 (b) 6.8 | Pass |
| T12 | 4.8125 - 0 | Top Girt | L8x8x3/4 | 463 | 5.73 | 370.57 | 8.4 (b) 1.5 | Pass |
| T1 | 190 - 170 | Bottom Girt | L2x2x1/4 | 7 | 0.58 | 24.47 | 2.4 | Pass |
| T2 | 170 - 150 | Bottom Girt | L2x2x1/4 | 66 | 2.05 | 26.58 | 6.3 (b) 7.7 | Pass |

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|--|--|-------------------------------------|
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| | Client SBA | Designed by bfranczkowski |

| Section No. | Elevation ft | Component Type | Size | Critical Element | P K | ϕP_{allow} K | % Capacity | Pass Fail | |
|-------------|--------------|-----------------------------|-----------------|------------------|-------|--------------------|-----------------------|-------------|-------------|
| T3 | 150 - 130 | Bottom Girt | ROHN 1.5 x 16GA | 121 | -1.51 | 7.13 | 20.8 (b) 21.1 | Pass | |
| T4 | 130 - 110 | Bottom Girt | ROHN 1.5 x 11GA | 178 | -1.47 | 13.72 | 25.4 (b) 10.7 | Pass | |
| T5 | 110 - 90 | Bottom Girt | ROHN 1.5 x 11GA | 236 | 1.24 | 16.11 | 15.0 (b) 7.7 | Pass | |
| T7 | 87.6 - 70 | Bottom Girt | ROHN 1.5 x 16GA | 301 | 0.89 | 6.23 | 11.2 (b) 14.4 | Pass | |
| T8 | 70 - 50 | Bottom Girt | ROHN 1.5 x 11GA | 352 | -1.01 | 13.72 | 17.0 (b) 7.4 | Pass | |
| T9 | 50 - 35 | Bottom Girt | ROHN 1.5 x 16GA | 385 | -1.05 | 7.13 | 9.1 (b) 14.7 | Pass | |
| T10 | 35 - 20 | Bottom Girt | ROHN 1.5 x 16GA | 412 | -1.04 | 7.13 | 17.7 (b) 14.5 | Pass | |
| T11 | 20 - 4.8125 | Bottom Girt | ROHN 1.5 x 11GA | 439 | 5.81 | 16.11 | 17.5 (b) 36.1 | Pass | |
| T2 | 170 - 150 | Guy A@166.977 | 7/8 | 483 | 18.18 | 47.82 | 52.6 (b) 38.0 | Pass | |
| T5 | 110 - 90 | Guy A@92.5234 | 5/8 | 498 | 12.59 | 25.44 | 49.5 | Pass | |
| T2 | 170 - 150 | Guy B@166.977 | 7/8 | 480 | 19.10 | 47.82 | 39.9 | Pass | |
| T5 | 110 - 90 | Guy B@92.5234 | 5/8 | 495 | 13.63 | 25.44 | 53.6 | Pass | |
| T2 | 170 - 150 | Guy C@166.977 | 7/8 | 472 | 18.00 | 47.82 | 37.6 | Pass | |
| T5 | 110 - 90 | Guy C@92.5234 | 5/8 | 487 | 12.53 | 25.44 | 49.2 | Pass | |
| T2 | 170 - 150 | Top Guy Pull-Off@166.977 | 2L2x2x1/4 | 476 | 8.49 | 60.91 | 13.9 | Pass | |
| T5 | 110 - 90 | Top Guy Pull-Off@92.5234 | 2L2x2x1/4 | 493 | 11.08 | 60.91 | 18.2 | Pass | |
| T2 | 170 - 150 | Torque Arm Top@166.977 | MC18x42.7 | 485 | -4.05 | 380.32 | 23.7 | Pass | |
| T5 | 110 - 90 | Torque Arm Top@92.5234 | C12x20.7 | 500 | -5.14 | 173.78 | 25.6 (b) 35.6 | Pass | |
| | | | | | | | Summary | | |
| | | | | | | | Leg (T4) | 64.2 | Pass |
| | | | | | | | Diagonal (T2) | 66.9 | Pass |
| | | | | | | | Horizontal (T12) | 1.2 | Pass |
| | | | | | | | Top Girt (T3) | 25.4 | Pass |
| | | | | | | | Bottom Girt (T11) | 52.6 | Pass |
| | | | | | | | Guy A (T5) | 49.5 | Pass |
| | | | | | | | Guy B (T5) | 53.6 | Pass |
| | | | | | | | Guy C (T5) | 49.2 | Pass |
| | | | | | | | Top Guy Pull-Off (T5) | 18.2 | Pass |
| | | | | | | | Torque Arm Top (T5) | 35.6 | Pass |
| | | | | | | | Bolt Checks | 66.9 | Pass |
| | | | | | | | RATING = | 66.9 | Pass |

ADDITIONAL CALCULATIONS

BURT-UP MEMBER ANALYSIS

C:\BOLTUP\MEMBERS 1 CT

| | |
|---------------|--------|
| MEMBER NO. | 10001 |
| MEMBER TYPE | MEMBER |
| MEMBER STATUS | MEMBER |
| MEMBER ID | 10001 |

| MEMBER NO. | MEMBER TYPE | MEMBER STATUS | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | |
|------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|
| | | | MEMBER ID | MEMBER NAME | MEMBER TYPE | MEMBER STATUS | MEMBER ID | MEMBER NAME | MEMBER TYPE | MEMBER STATUS | MEMBER ID | MEMBER NAME |
| 10001 | MEMBER | MEMBER | 10001 | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER |
| 10002 | MEMBER | MEMBER | 10002 | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER |

| MEMBER NO. | MEMBER TYPE | MEMBER STATUS | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | |
|------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|
| | | | MEMBER ID | MEMBER NAME | MEMBER TYPE | MEMBER STATUS | MEMBER ID | MEMBER NAME | MEMBER TYPE | MEMBER STATUS | MEMBER ID | MEMBER NAME |
| 10001 | MEMBER | MEMBER | 10001 | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER |
| 10002 | MEMBER | MEMBER | 10002 | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER |

| MEMBER NO. | MEMBER TYPE | MEMBER STATUS | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | | MEMBER DATA | |
|------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|-------------|
| | | | MEMBER ID | MEMBER NAME | MEMBER TYPE | MEMBER STATUS | MEMBER ID | MEMBER NAME | MEMBER TYPE | MEMBER STATUS | MEMBER ID | MEMBER NAME |
| 10001 | MEMBER | MEMBER | 10001 | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER |
| 10002 | MEMBER | MEMBER | 10002 | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER | MEMBER |



Mat Foundation Analysis
CT10016-A Montville 3 CT
2024778.10016.03

| General Info | |
|-------------------------------|-------------|
| Foundation Criteria | GPD |
| TIA Code | TIA-222-H |
| Apply TIA-222-H Section 15.5? | No |
| Soil Code | AASHTO 2012 |
| Concrete Code | ACI 318-14 |
| Seismic Design Category | B |
| Tower Height | 190 ft |
| Bearing On | Soil |
| Foundation Type | Guyed Pad |
| Pier Type | Square |
| Reinforcing Known | Yes |
| Max Bearing Capacity | 105% |
| Max Overturning Capacity | 105% |

| Tower Reactions | |
|-----------------|-------|
| Moment, M | |
| Axial, P | 150 k |
| Shear, V | 3 k |

| Pad & Pier Geometry | |
|------------------------|-----------|
| Pier Width, ϕ | 2.5 ft |
| Pad Length, L [y] | 7 ft |
| Pad Width, W [x] | 7 ft |
| Pad Thickness, t | 1.75 ft |
| Depth, D | 5 ft |
| Height Above Grade, HG | 0.5 ft |
| Tower Centroid, X | 3.5 ft |
| Tower Centroid, Y | 3.5 ft |
| Tower Eccentricity | 0.0000 ft |

| Pad & Pier Reinforcing | |
|------------------------------|--------|
| Rebar Fy | 60 ksi |
| Concrete F'c | 3 ksi |
| Pier Reinforcing Clear Cover | 3 in |
| Shear Rebar Type | Tie |
| Shear Rebar Size | # 3 |
| Pad Reinforcing Clear Cover | 3 in |
| Reinforced Top & Bottom? | No |
| Pad Reinforcing Size | # 6 |
| Pad Quantity Per Layer | 8 |
| Pier Rebar Size | # 7 |
| Pier Quantity of Rebar | 8 |

| Soil Properties | |
|---------------------------------------|----------|
| Soil Type | Granular |
| Soil Unit Weight | 125 pcf |
| Angle of Friction, ϕ | 43 |
| Base Friction Coeff. Provided in Geo? | Yes |
| Base Friction Coefficient, μ | 0.4 |
| Bearing Type | Net |
| Ultimate Bearing | 30 ksf |
| Water Table Depth | 4 ft |
| Neglected Depth | 4 ft |

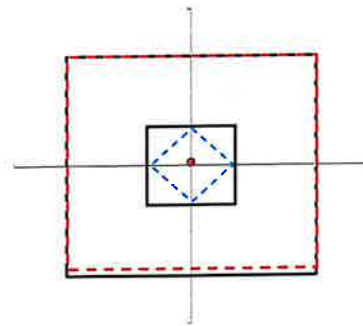
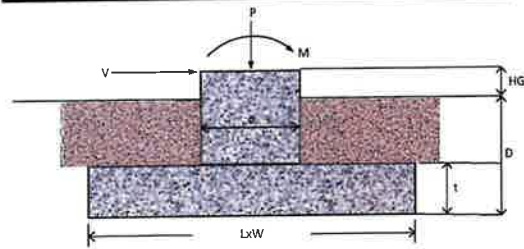
GPD Mat Foundation Analysis - V4.8

| Bearing Summary | | | | | |
|------------------------|---------------|-----------------------|-------------|--------------|-----------|
| Case | Demand/Limits | Capacity/Availability | Check | Eccentricity | Load Case |
| Q _{xmax} | 3.99 ksf | 18.34 ksf | OK, <= 105% | L/87.0 | 1.2D+1.0W |
| Q _{ymax} | 3.99 ksf | 18.34 ksf | OK, <= 105% | W/87.0 | 1.2D+1.0W |
| Q _{max @ 45°} | 3.81 ksf | 18.34 ksf | OK, <= 105% | W/35000.0 | 1.2D+1.0W |
| Controlling Capacity | | 21.7% | Pass | | |

| Overturning Summary | | | | | |
|----------------------|---------------|-----------------------|---------|-----------|--|
| Case | Demand/Limits | Capacity/Availability | Check | Load Case | |
| O _{vtx} | 15.0 k-ft | 653.9 k-ft | 3.1% OK | 0.9D+1.0W | |
| O _{vty} | 15.0 k-ft | 653.9 k-ft | 3.1% OK | 0.9D+1.0W | |
| O _{vtxy} | 0.0 k-ft | 653.9 k-ft | 0.0% OK | 0.9D+1.0W | |
| Controlling Capacity | | 3.1% | Pass | | |

| Sliding Summary | | | | | |
|----------------------|---------------|-----------------------|---------|-----------|--|
| Case | Demand/Limits | Capacity/Availability | Check | Load Case | |
| Sliding _x | 3.0 k | 56.8 k | 5.3% OK | 0.9D+1.0W | |
| Sliding _y | 3.0 k | 56.8 k | 5.3% OK | 0.9D+1.0W | |
| Controlling Capacity | | 5.3% | Pass | | |

| Reinforcement Summary | | | | | |
|-----------------------|---------------|-----------------------|----------|-----------|--|
| Component | Demand/Limits | Capacity/Availability | Check | Load Case | |
| Pad Flexural Bending | 58.3 k-ft | 259.5 k-ft | 22.5% OK | 1.2D+1.0W | |
| One-Way Shear in Pad | 19.6 k | 116.5 k | 16.8% OK | 1.2D+1.0W | |
| Two-Way Shear in Pad | 117.6 k | 519.9 k | 22.6% OK | 0.9D+1.0W | |
| Compression on Pier | 154.2 k | 2983.5 k | 5.2% OK | 1.2D+1.0W | |
| Moment on Pier | 11.3 k-ft | 341.4 k-ft | 3.3% OK | 1.2D+1.0W | |
| Pad Flexural 2-Way | 6.8 k-ft | 247.3 k-ft | 2.7% OK | 1.2D+1.0W | |
| As Min Pad Met? | 0.50 sq. in. | 0.22 sq. in. | Yes | | |
| As Min Pier Met? | 4.80 sq. in. | 4.50 sq. in. | Yes | | |
| Controlling Capacity | | 22.6% | Pass | | |





Guyed Tower Anchor Foundation
CT10016-A Montville 3 CT
2024778.100'16.03

| Guy Anchor Location | |
|---------------------|-----|
| Azimuth/Leg | A |
| Radius (ft) | 150 |
| Tower Height (ft) | 190 |

| Tower Reactions | |
|-----------------|------|
| Vertical | 41 k |
| Horizontal | 47 k |

| Anchor Block Geometry | |
|-----------------------|-------|
| Width | 3 ft |
| Height | 3 ft |
| Length | 10 ft |
| Depth | 12 ft |

| General Info | |
|-------------------------------|-----------|
| Foundation Criteria | GPD |
| TIA Code | TIA-222-H |
| Soil | 105% |
| Reinforcement/Steel | 105% |
| Apply TIA-222-H Section 15.5? | No |

| Soil Capacity Calculations | |
|----------------------------|-----------------|
| W_s | 109.71 k |
| W_c | 7.68 k |
| Uplift Resistance | 92.68 k |
| Horizontal Resistance | 66.25 k |
| Uplift Capacity= | 44.2% OK |
| Horizontal Capacity= | 70.9% OK |

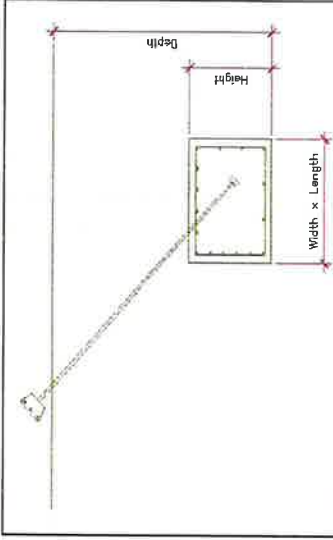
| Anchor Block Reinforcement | |
|----------------------------|--------|
| Is Reinforcement Known? | yes |
| f'_c | 3 ksi |
| Fy | 60 ksi |
| ϕ (shear) | 0.75 |
| Clear Cover | 3 in |
| Top Bar Quantity | # 7 |
| Front Bar Size | # 4 |
| Back & Bottom Bar Size | # 7 |
| Back & Bottom Bar Quantity | # 3 |
| Tie Size | # 3 |

| Block Moment and Shear Calculations | |
|-------------------------------------|-----------------|
| M _{up} = | 51.25 k-ft |
| ϕM_{up} = | 339.15 k-ft |
| Capacity | 15.1% OK |
| V _{up} = | 20.50 k |
| ϕV_{up} = | 95.20 k |
| Capacity | 21.5% OK |

| Capacity Summary | |
|-----------------------|-----------------|
| Soil Capacity= | 70.9% OK |
| Reinforcing Capacity= | 24.7% OK |
| Controlling Capacity= | 70.9% OK |

| Layer | C_u , psf | ϕ , degrees | γ_{soil} , pcf | Thickness, ft | P_{pass} , psf | P_{fail} , psf | f_p , psf |
|-------|-------------|------------------|-----------------------|---------------|------------------|------------------|-------------|
| 1 | 110 | 40 | 150 | 2 | 1000 | 2200 | |
| 2 | 120 | 40 | 150 | 2 | 2200 | 2650 | |
| 3 | 120 | 34 | 150 | 5.5 | 2100 | 2750 | |
| 4 | 115 | 43 | 150 | 0.5 | | | |
| 5 | 125 | | | | | | |
| 6 | | | | | | | |

| | | | | |
|---------------|------|--------------------------|----------------------|-----------|
| Ignored Depth | 4 ft | Consider soil for uplift | User Input Angle (°) | 29.111111 |
| Water Table | 4 ft | Granular | Angle for Uplift (°) | |



| Guy Anchor Shaft Calculations | |
|-------------------------------|---------|
| Shape of Anchor Shaft | Unknown |

Guyed Tower Anchor Foundation
CT10016-A Montville 3 CT
2024778.10016.03

| Guy Anchor Location | |
|---------------------|-----|
| Azimuth/Leg | B |
| Radius (ft) | 150 |
| Tower Height (ft) | 190 |

| Tower Reactions | |
|-----------------|------|
| Vertical | 41 k |
| Horizontal | 47 k |

| Capacity Summary | |
|-----------------------|-----------------|
| Soil Capacity= | 51.9% OK |
| Reinforcing Capacity= | 24.7% OK |
| Controlling Capacity= | 51.9% OK |

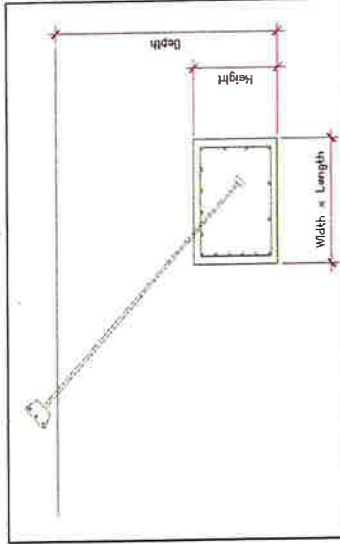
| Anchor Block Geometry | |
|-----------------------|-------|
| Width | 3 ft |
| Height | 3 ft |
| Length | 10 ft |
| Depth | 12 ft |

| Layer | C_u psf | ϕ degrees | γ_{sat} pcf | $\gamma_{correct}$ pcf | Thickness, ft | P_{allow} psf | P_{allow} psf | f_c psf |
|-------|-----------|----------------|--------------------|------------------------|---------------|-----------------|-----------------|-----------|
| 1 | 110 | 31 | 115 | 150 | 2 | 600 | 1400 | |
| 2 | | 43 | 125 | 150 | 8 | 2400 | 4400 | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |

| General Info | |
|-------------------------------|-----------|
| Foundation Criteria | GPD |
| TIA Code | TIA-222-H |
| Soil | 105% |
| Reinforcement/Steel | 105% |
| Apply TIA-222-H Section 15.5? | No |

| Soil Capacity Calculations | |
|----------------------------|-----------------|
| W_s | 119.27 k |
| W_c | 7.88 k |
| Uplift Resistance | 99.98 k |
| Horizontal Resistance | 90.56 k |
| Uplift Capacity= | 41.0% OK |
| Horizontal Capacity= | 51.9% OK |

| Anchor Block Reinforcement | |
|----------------------------|--------|
| Is Reinforcement Known? | yes |
| f'_c | 3 ksi |
| F_y | 60 ksi |
| ϕ (shear) | 0.75 |
| Clear Cover | 3 in |
| Top Bar Size | # 7 |
| Top Bar Quantity | 4 |
| Front Bar Size | # 7 |
| Front Bar Quantity | 3 |
| Back & Bottom Bar Size | |
| Back & Bottom Bar Quantity | |
| Tie Size | # 3 |



Consider soil for uplift
 Granular
 User Input Angle (°)
 Angle for Uplift (°) 30.77778

| Block Moment and Shear Calculations | |
|-------------------------------------|-----------------------|
| Moment Check | |
| M_{req} | 51.25 k-ft |
| ϕM_{cap} | 339.15 k-ft OK |
| Capacity | 15.1% OK |
| Shear Check | |
| V_{req} | 20.50 k |
| ϕV_{cap} | 95.20 k OK |
| Capacity | 21.5% OK |

| Guy Anchor Shaft Calculations | |
|-------------------------------|-----------------------|
| Moment | 58.75 k-ft |
| ϕM_{cap} | 255.95 k-ft OK |
| Capacity | 23.0% OK |
| Shear | 23.50 k |
| ϕV_{cap} | 95.20 k OK |
| Capacity | 24.7% OK |
| Shape of Anchor Shaft | Unknown |



Guyed Tower Anchor Foundation
CT10016-A Montville 3 CT
2024778.10016.03

| Guy Anchor Location | |
|---------------------|-------|
| Azimuth/Leg | C |
| Radius (ft) | r 150 |
| Tower Height (ft) | 190 |

| Tower Reactions | |
|-----------------|------|
| Vertical | 41 k |
| Horizontal | 47 k |

| Anchor Block Geometry | |
|-----------------------|-------|
| Width | 3 ft |
| Height | 3 ft |
| Length | 10 ft |
| Depth | 12 ft |

| General Info | |
|-------------------------------|-----------|
| Foundation Criteria | GPD |
| TIA Code | TIA-222-H |
| Soil | 105% |
| Reinforcement/Steel | 105% |
| Apply TIA-222-H Section 15.5? | No |

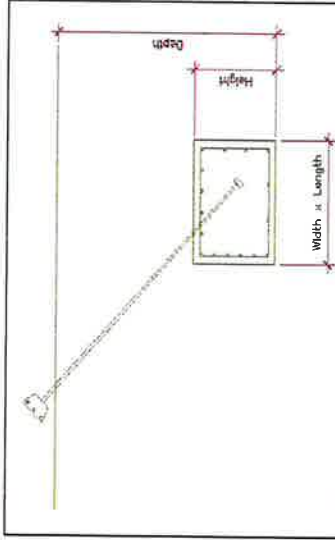
| Soil Capacity Calculations | |
|----------------------------|-----------------|
| W_s | 108.09 k |
| W_c | 7.88 k |
| Uplift Resistance | 91.45 k |
| Horizontal Resistance | 70.45 k |
| Uplift Capacity= | 44.8% OK |
| Horizontal Capacity= | 66.7% OK |

| Anchor Block Reinforcement | |
|----------------------------|--------|
| Is Reinforcement Known? | yes |
| f_c' | 3 ksi |
| F_y | 60 ksi |
| ϕ (shear) | 0.75 |
| Clear Cover | 3 in |
| Top Bar Size | # 7 |
| Top Bar Quantity | 4 |
| Front Bar Size | # 7 |
| Front Bar Quantity | 3 |
| Back & Bottom Bar Size | |
| Back & Bottom Bar Quantity | |
| Tie Size | # 3 |

| Block Moment and Shear Calculations | |
|-------------------------------------|-----------------------|
| M _{top} = | 51.25 k-ft |
| ϕM_{top} Capacity | 339.15 k-ft OK |
| V _{top} = | 20.50 k |
| ϕV_{top} Capacity | 95.20 k OK |

| Capacity Summary | |
|-----------------------|-----------------|
| Soil Capacity= | 66.7% OK |
| Reinforcing Capacity= | 24.7% OK |
| Controlling Capacity= | 66.7% OK |

| Layer | C_u , psf | ϕ , degrees | γ_{soil} , pcf | Thickness, ft | P_{allow} , psf | P_{push} , psf | f_p , psf |
|---------------|-------------|------------------|--------------------------|---------------|-------------------|------------------|----------------------|
| 1 | 110 | 35 | 150 | 2 | 700 | 1250 | |
| 2 | 115 | 41 | 150 | 0.5 | 1250 | 2250 | |
| 3 | 120 | 34 | 150 | 2 | 2000 | 2650 | |
| 4 | 120 | 38 | 150 | 4 | 2850 | 3300 | |
| 5 | 115 | | | | | | |
| 6 | 120 | | | | | | |
| ignored Depth | 4 ft | | Consider soil for uplift | | | | User Input Angle (°) |
| Water Table | 4 ft | | Granular | | | | Angle for Uplift (°) |
| | | | | | | | 29 |



| Guy Anchor Shaft Calculations | |
|-------------------------------|---------|
| Shape of Anchor Shaft | Unknown |

| Moment Check | |
|-------------------------|-----------------------|
| M _{top} = | 58.75 k-ft |
| ϕM_{top} Capacity | 255.95 k-ft OK |
| V _{top} = | 23.50 k |
| ϕV_{top} Capacity | 95.20 k OK |



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Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10214212
Colliers Engineering & Design Project #: 21777086 (Rev 2)

November 27, 2023

Site Information

Site ID: 5000243394-VZW / UNCASVILLE CT
Site Name: UNCASVILLE CT
Carrier Name: Verizon Wireless
Address: 71 Moxley Hill Rd
Uncasville, Connecticut 06382
New London County
Latitude: 41.43517°
Longitude: -72.12331°

Structure Information

Tower Type: 180-Ft Guyed
Mount Type: 13.33-Ft Sector Frame

FUZE ID # 16272079

Analysis Results

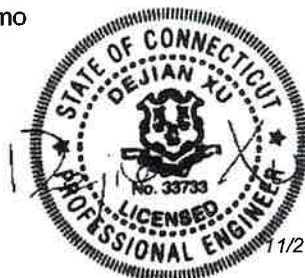
Sector Frame: 89.7% Pass

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

***Contractor PMI Requirements:

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

Report Prepared By: Vincent DiGirolamo



1/27/2023

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: 675074 Dated August 11, 2023</i> |
| <i>Mount Mapping Report</i> | <i>Hudson Design Group, LLC Site ID: 468485 Dated February 9, 2021</i> |

Analysis Criteria:

| | |
|-------------------------|---|
| Codes and Standards: | ANSI/TIA-222-H 2022 Connecticut State Building Code Effective October 1, 2022 |
| Wind Parameters: | Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 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 : 0.993 |
| Seismic Parameters: | S_s : 0.198 g S_1 : 0.054 g |
| Maintenance Parameters: | Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs. |
| Analysis Software: | RISA-3D (V17) |

Final Loading Configuration:

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

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status |
|----------------------|--------------------------|----------|--------------|------------------|--------|
| 139.50 | 140.00 | 6 | JMA Wireless | MX06FRO660-03 | Added |
| | | 3 | Samsung | MT6413-77A | |
| | | 1 | Raycap | RVZDC-6627-PF-48 | |
| | | 3 | Samsung | RF4439d-25A | |
| | | 3 | Samsung | RF4461d-13A | |

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mounts.

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 Colliers Engineering & Design 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 Colliers Engineering & Design 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. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

| Component | Utilization % | Pass/Fail |
|---|---------------|--------------|
| Mount Pipe | 25.7 | Pass |
| Standoff Horizontal | 16.5 | Pass |
| Standoff Vertical | 58.8 | Pass |
| Standoff Diagonal | 38.4 | Pass |
| Face Horizontal | 13.3 | Pass |
| Tie Back | 3.7 | Pass |
| Back Standoff Bar | 54.5 | Pass |
| Standoff Bar | 89.7 | Pass |
| Mount Connection | 31.9 | Pass |
| Structure Rating – (Controlling Utilization of all Components) | | 89.7% |

BASELINE mount weight per SBA agreement: 454.00 lbs

Increase in mount weight due to Verizon loading change per SBA agreement: No Change

The weights listed above include 1 sector.

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

| Ice Thickness (In) | Mount Pipes Excluded | | Mount Pipes Included | |
|--------------------|------------------------|-----------------------|------------------------|-----------------------|
| | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) |
| 0 | 24.0 | 16.3 | 31.9 | 24.2 |
| 0.5 | 34.8 | 24.2 | 45.8 | 35.2 |
| 1 | 44.9 | 31.5 | 59.0 | 45.6 |

Notes:

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

Requirements:

The existing mounts are **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

Contractor shall inspect climbing facilities and safety climb and ensure they are in good condition. Contractor shall install safety climb wire rope guides in locations where wire rope is contacting the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of cold galvanization (Zinga or Zinc Kote). Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required.

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

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

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

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

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000243394

SMART Project #: 10214212

Fuze Project ID: 16272079

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

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

Base Requirements:

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

Photo Requirements:

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

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

Antenna & equipment placement and Geometry Confirmation:

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

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

OR

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

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

Issue:

Contractor shall inspect climbing facilities and safety climb and ensure they are in good condition. Contractor shall install safety climb wire rope guides in locations where wire rope is contacting the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of cold galvanization (Zinga or Zinc Kote). Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required.

Response:

Special Instruction Confirmation:

- The contractor has read and acknowledges the above special instructions.
- All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

The material utilized was approved by a SMART Tool engineering vendor as an "equivalent" and this approval is included as part of the contractor submission.

Comments:

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

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

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

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

Safety Climb in Good Condition Safety Climb Damaged

Certifying Individual:

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

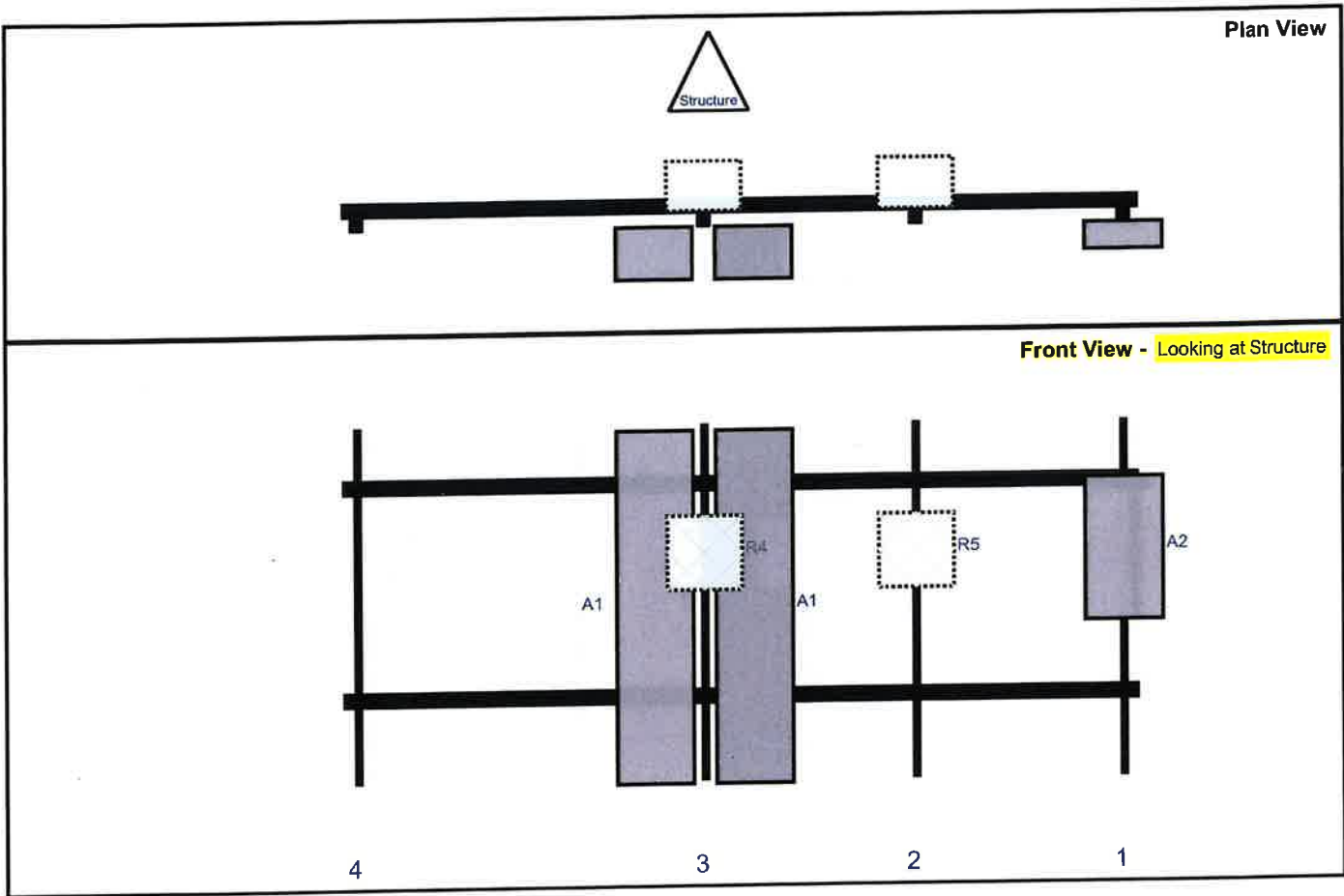
Sector: A

Structure Type: Guyed

10214212

Mount Elev: 139.50

Page: 1



| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|------------------|-------------|------------|---------------|--------|------------|---------|---------------|-----------|--------|------------|
| A2 | MT6413-77A | 28.9 | 15.8 | 157 | 1 | a | Front | 26.04 | 0 | Added | |
| R5 | RF4461d-13A | 15 | 15 | 115 | 2 | a | Behind | 26.04 | 0 | Added | |
| A1 | MX06FRO660-03 | 71.3 | 15.4 | 72.5 | 3 | a | Front | 36.96 | 10 | Added | |
| A1 | MX06FRO660-03 | 71.3 | 15.4 | 72.5 | 3 | b | Front | 36.96 | -10 | Added | |
| R4 | RF4439d-25A | 15 | 15 | 72.5 | 3 | a | Behind | 26.04 | 0 | Added | |
| M50 | RVZDC-6627-PF-48 | 28.9 | 15.7 | | | Member | | | | Added | |

Sector: B

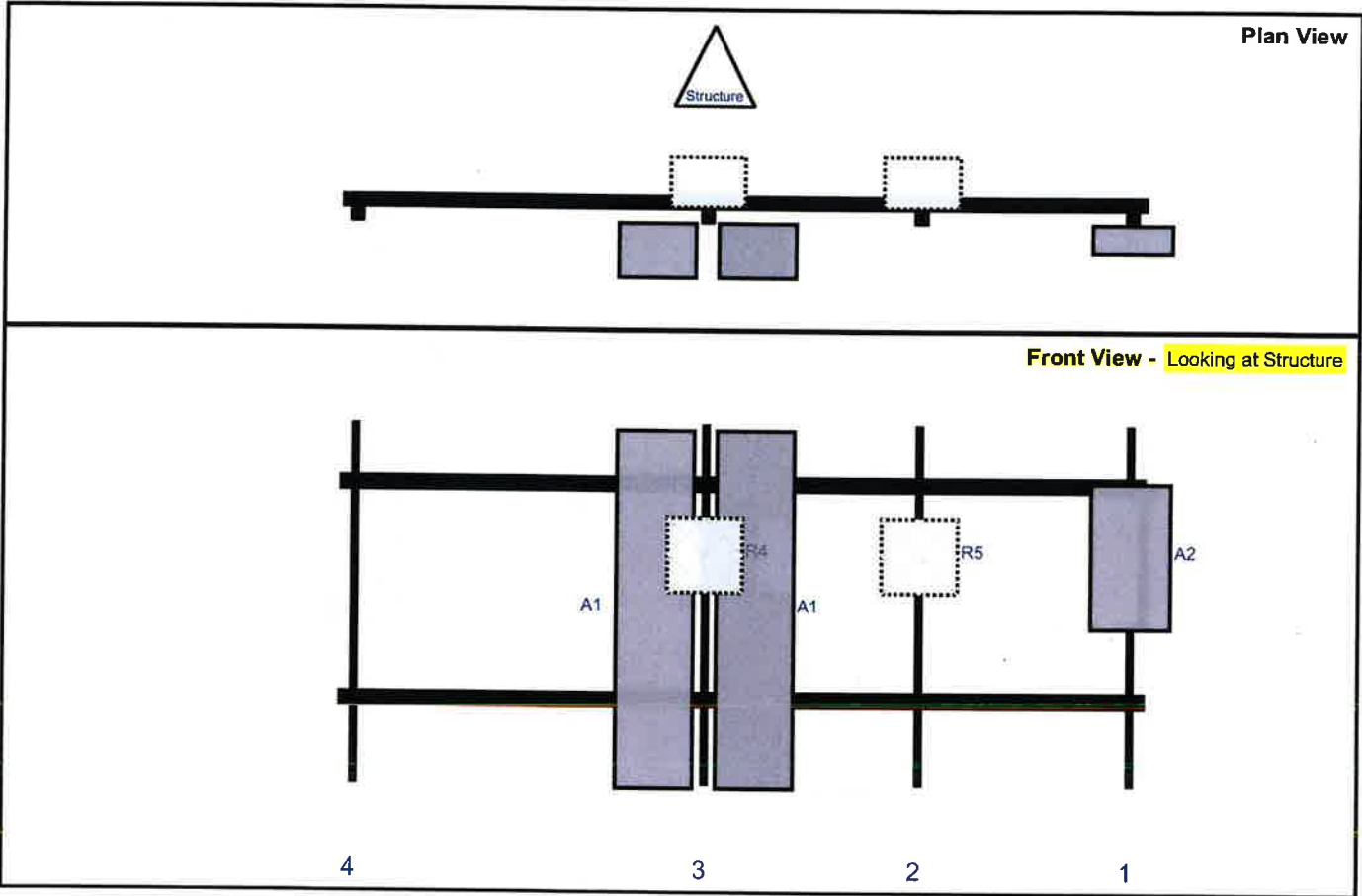
11/27/2023

Structure Type: Guyed

10214212

Mount Elev: 139.50

Page: 2



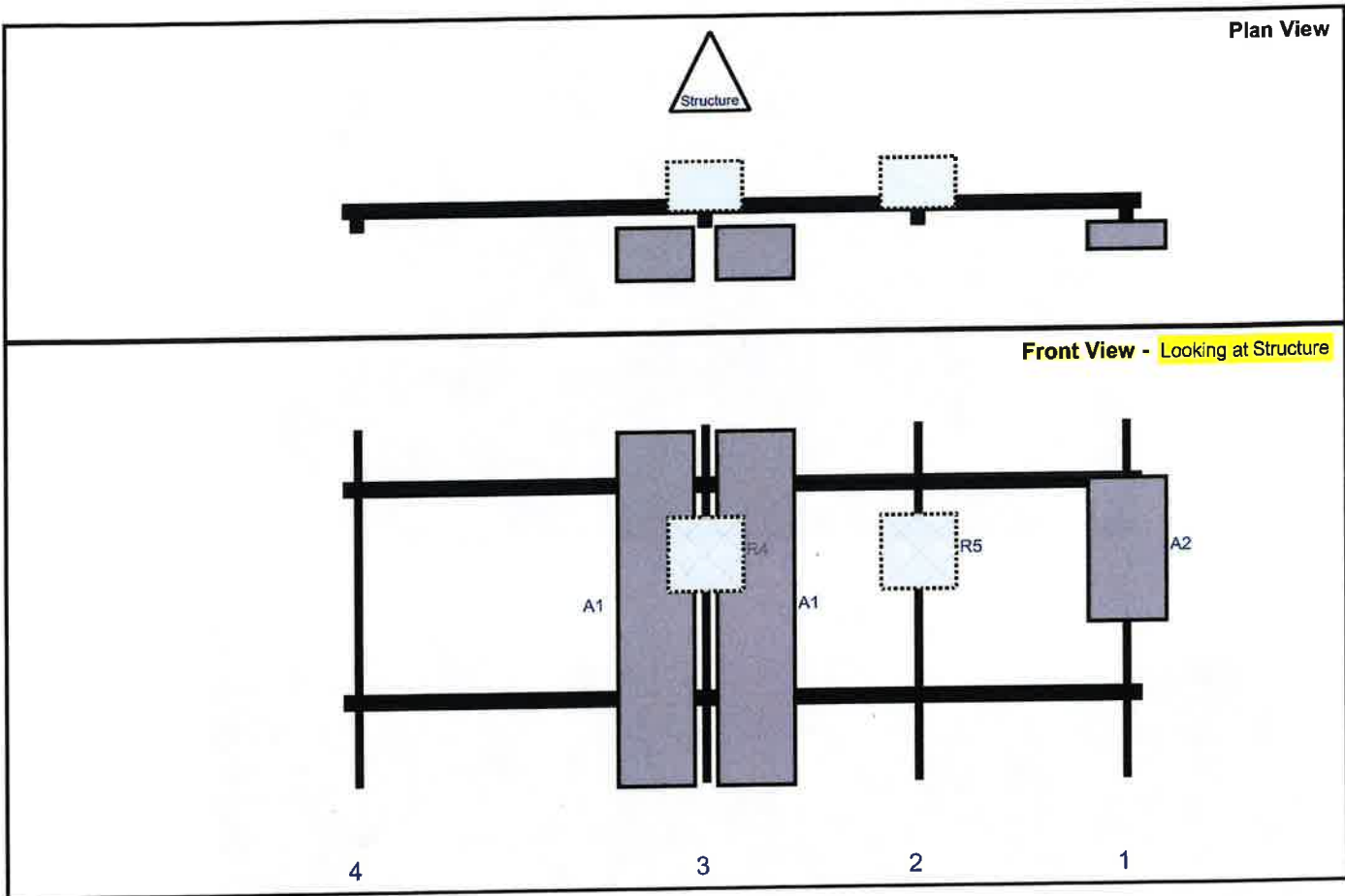
| Ref# | Model | Height (in) | Width (in) | H Dist Fm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Fm T. | Ant H Off | Status | Validation |
|------|---------------|-------------|------------|--------------|--------|------------|---------|--------------|-----------|--------|------------|
| A2 | MT6413-77A | 28.9 | 15.8 | 157 | 1 | a | Front | 26.04 | 0 | Added | |
| R5 | RF4461d-13A | 15 | 15 | 115 | 2 | a | Behind | 26.04 | 0 | Added | |
| A1 | MX06FRO660-03 | 71.3 | 15.4 | 72.5 | 3 | a | Front | 36.96 | 10 | Added | |
| A1 | MX06FRO660-03 | 71.3 | 15.4 | 72.5 | 3 | b | Front | 36.96 | -10 | Added | |
| R4 | RF4439d-25A | 15 | 15 | 72.5 | 3 | a | Behind | 26.04 | 0 | Added | |

Sector: C

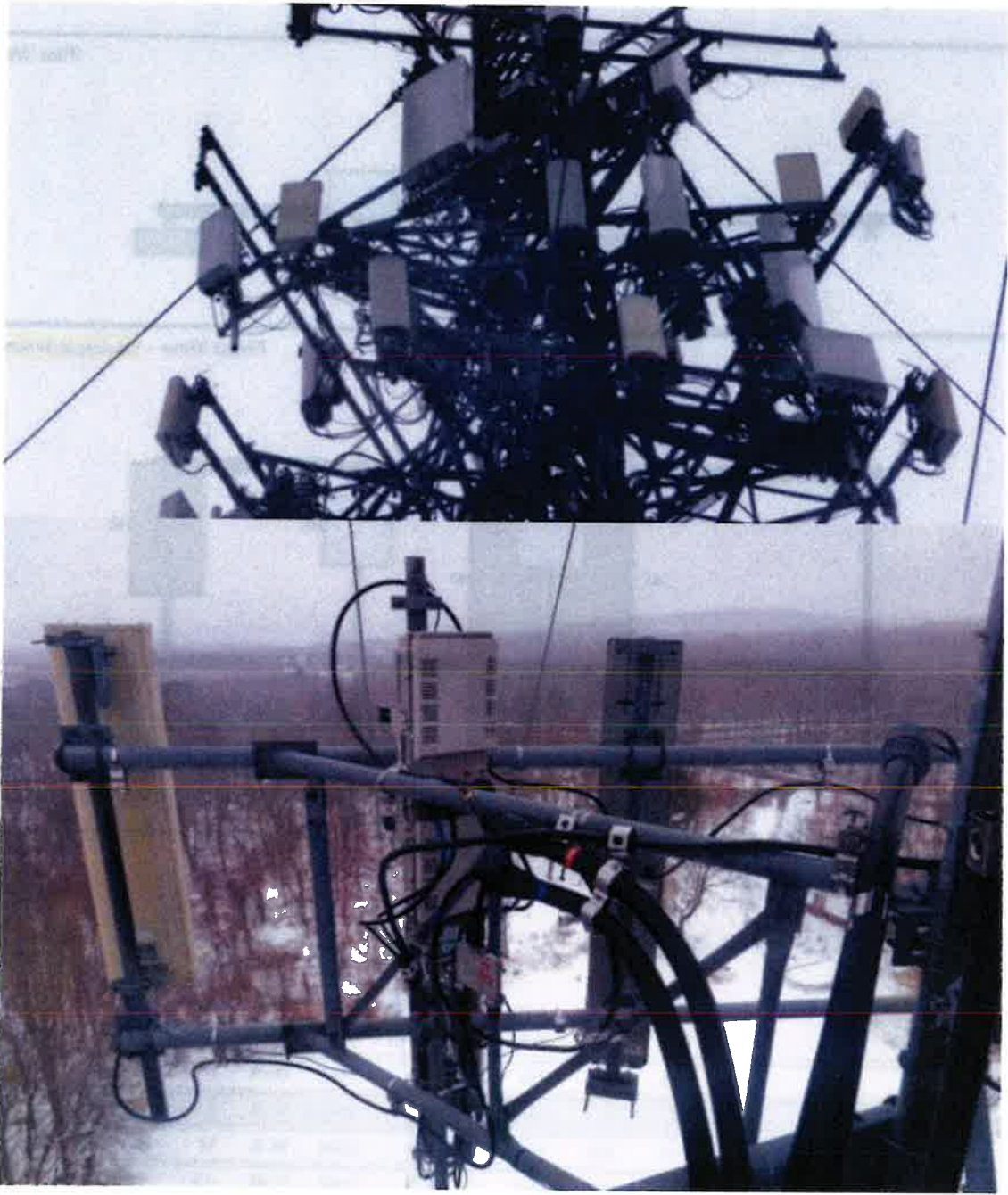
Structure Type: Guyed

10214212

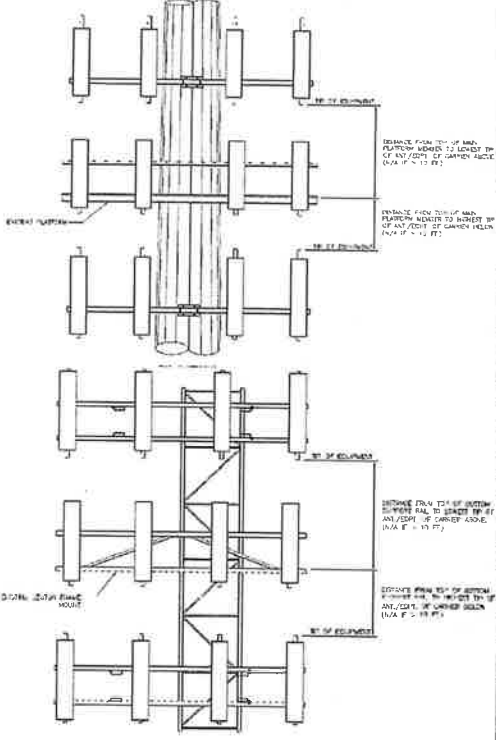
Mount Elev: 139.50



| Ref# | Model | Height (in) | Width (in) | H Dist Fm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Fm T. | Ant H Off | Status | Validation |
|------|---------------|-------------|------------|--------------|--------|------------|---------|--------------|-----------|--------|------------|
| A2 | MT6413-77A | 28.9 | 15.8 | 157 | 1 | a | Front | 26.04 | 0 | Added | |
| R5 | RF4461d-13A | 15 | 15 | 115 | 2 | a | Behind | 26.04 | 0 | Added | |
| A1 | MX06FRO660-03 | 71.3 | 15.4 | 72.5 | 3 | a | Front | 36.96 | 10 | Added | |
| A1 | MX06FRO660-03 | 71.3 | 15.4 | 72.5 | 3 | b | Front | 36.96 | -10 | Added | |
| R4 | RF4439d-25A | 15 | 15 | 72.5 | 3 | a | Behind | 26.04 | 0 | Added | |



| Mount Azimuth (Degree) for Each Sector | | | | Tower Leg Azimuth (Degree) for Each Sector | | | | Sector B | | | | | | | | | | | | | | | |
|--|-----------------|---------------------------------|-----------|--|-----------------|-------------------|--------|----------|--------|---------|-------|-----------|--------|-----|--------|--------|-----|-----------|--|-----|--------|--|-----|
| Sector A: | 20.00 | Deg | Leg A: | 5.00 | Deg | Sector B: | 135.00 | Deg | Leg B: | 125.00 | Deg | Sector C: | 245.00 | Deg | Leg C: | 245.00 | Deg | Sector D: | | Deg | Leg D: | | Deg |
| Climbing Facility Information | | | | | | Ant _{1a} | | | | | | | | | | | | | | | | | |
| Location: | 5.00 | Deg | Sector A: | | | | | | | | | | | | | | | | | | | | |
| Climbing Facility | Corrosion Type: | N/A | | Ant _{1b} | AT41-645TO | 12.00 | 4.00 | 53.00 | | 140.583 | 46.00 | 8.00 | 135.00 | 16 | | | | | | | | | |
| | Access: | Climbing path was unobstructed. | | Ant _{1c} | | | | | | | | | | | | | | | | | | | |
| | Condition: | Good condition. | | Ant _{2a} | B4 RRH 2x50-4R | 11.00 | 5.50 | 36.00 | | 143.333 | 24.00 | -7.00 | 16 | | | | | | | | | | |
| | | | | Ant _{2b} | HBXX-6517DS-A2M | 12.00 | 6.50 | 75.00 | | 141.167 | 50.00 | 9.00 | 135.00 | 16 | | | | | | | | | |
| | | | | Ant _{2c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{3a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{3b} | BXA-70063-6CF | 11.00 | 4.00 | 71.00 | | 141.417 | 36.00 | 10.00 | 135.00 | 16 | | | | | | | | | |
| | | | | Ant _{3c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{4a} | TMA | 6.00 | 1.50 | 7.00 | | 140.417 | 48.00 | -3.00 | 17 | | | | | | | | | | |
| | | | | Ant _{4b} | AT41-645TO | 12.00 | 4.00 | 53.00 | | 140.583 | 46.00 | 8.00 | 135.00 | 17 | | | | | | | | | |
| | | | | Ant _{4c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5b} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Standoff | TMA | 6.00 | 2.50 | 7.00 | | | | | 16 | | | | | | | | | | |
| | | | | Ant on Standoff | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Tower | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Tower | | | | | | | | | | | | | | | | | | | |
| | | | | | | Sector C | | | | | | | | | | | | | | | | | |
| | | | | Ant _{1a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{1b} | AT41-645TO | 12.00 | 4.00 | 53.00 | | 140.583 | 46.00 | 8.00 | 245.00 | 19 | | | | | | | | | |
| | | | | Ant _{1c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{2a} | B4 RRH 2x50-4R | 11.00 | 5.50 | 36.00 | | 143.333 | 24.00 | -7.00 | 19 | | | | | | | | | | |
| | | | | Ant _{2b} | HBXX-6517DS-A2M | 12.00 | 6.50 | 75.00 | | 141.167 | 50.00 | 9.00 | 245.00 | 19 | | | | | | | | | |
| | | | | Ant _{2c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{3a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{3b} | BXA-70063-6CF | 11.00 | 4.00 | 71.00 | | 141.417 | 36.00 | 10.00 | 245.00 | 19 | | | | | | | | | |
| | | | | Ant _{3c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{4a} | TMA | 6.00 | 1.50 | 7.00 | | 140.417 | 48.00 | -3.00 | 20 | | | | | | | | | | |
| | | | | Ant _{4b} | AT41-645TO | 12.00 | 4.00 | 53.00 | | 140.583 | 46.00 | 8.00 | 245.00 | 20 | | | | | | | | | |
| | | | | Ant _{4c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5b} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Standoff | TMA | 6.00 | 1.50 | 7.00 | | | | | 19 | | | | | | | | | | |
| | | | | Ant on Standoff | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Tower | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Tower | | | | | | | | | | | | | | | | | | | |
| | | | | | | Sector D | | | | | | | | | | | | | | | | | |
| | | | | Ant _{1a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{1b} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{1c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{2a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{2b} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{2c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{3a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{3b} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{3c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{4a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{4b} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{4c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5a} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5b} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant _{5c} | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Standoff | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Standoff | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Tower | | | | | | | | | | | | | | | | | | | |
| | | | | Ant on Tower | | | | | | | | | | | | | | | | | | | |



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

| | | |
|---|---|-----|
| 1 | | |
| 2 | (12) 1-5/8" COAX CABLES & (1) 1-1/4" HYBRID CABLE | 124 |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

Mapping Notes

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

Standard Conditions

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



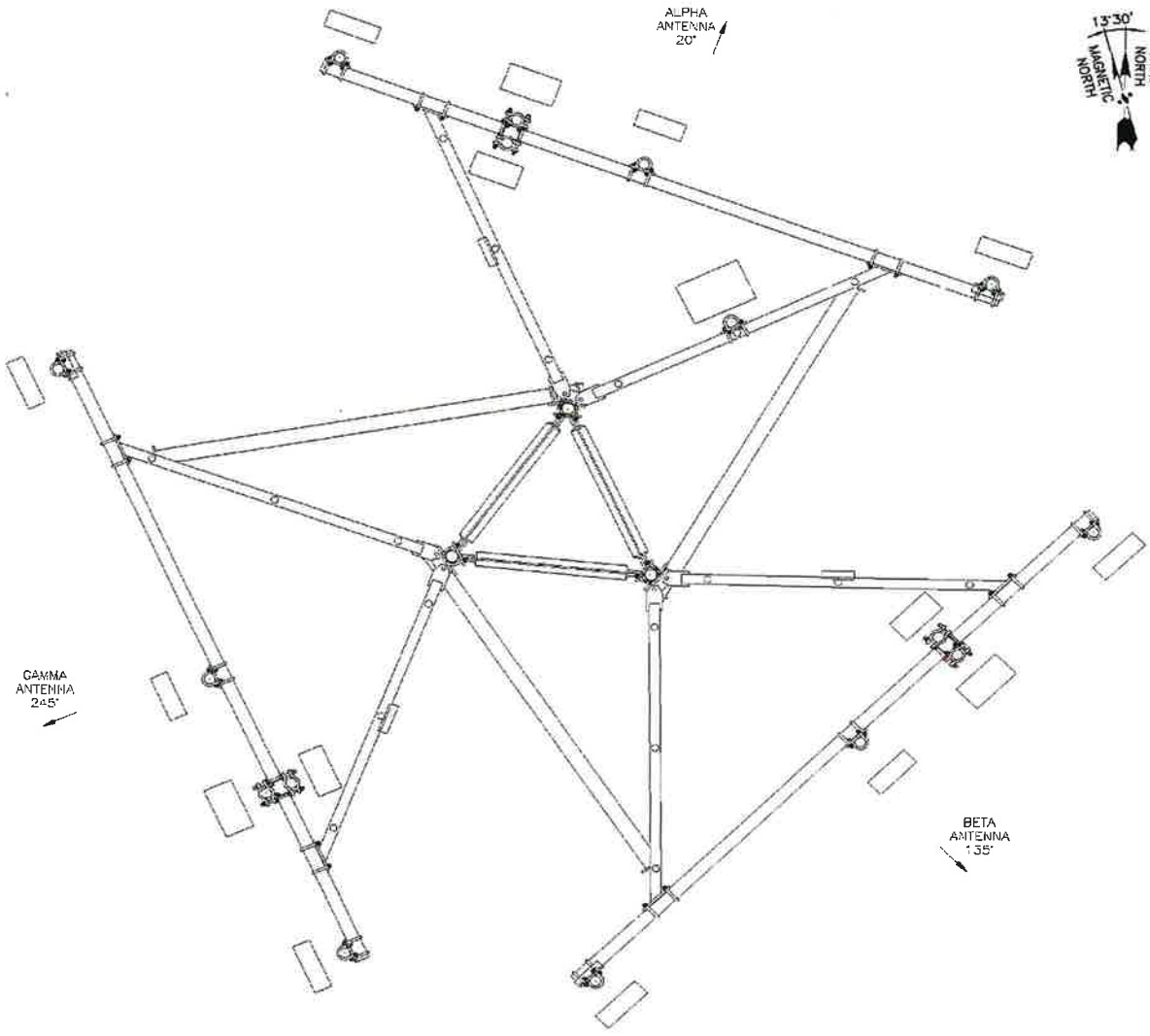
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1213901

| | | | |
|---------------------|---------------------------|-----------------------|-------------|
| Tower Owner: | SBA TOWERS | Mapping Date: | 02.09.2021 |
| Site Name: | UNCASVILLE CT | Tower Type: | Guyed Tower |
| Site Number or ID: | 468485 | Tower Height (FL): | 180 |
| Mapping Contractor: | HUDSON DESIGN GROUP, LLC. | Mount Elevation (FL): | 141.5 |

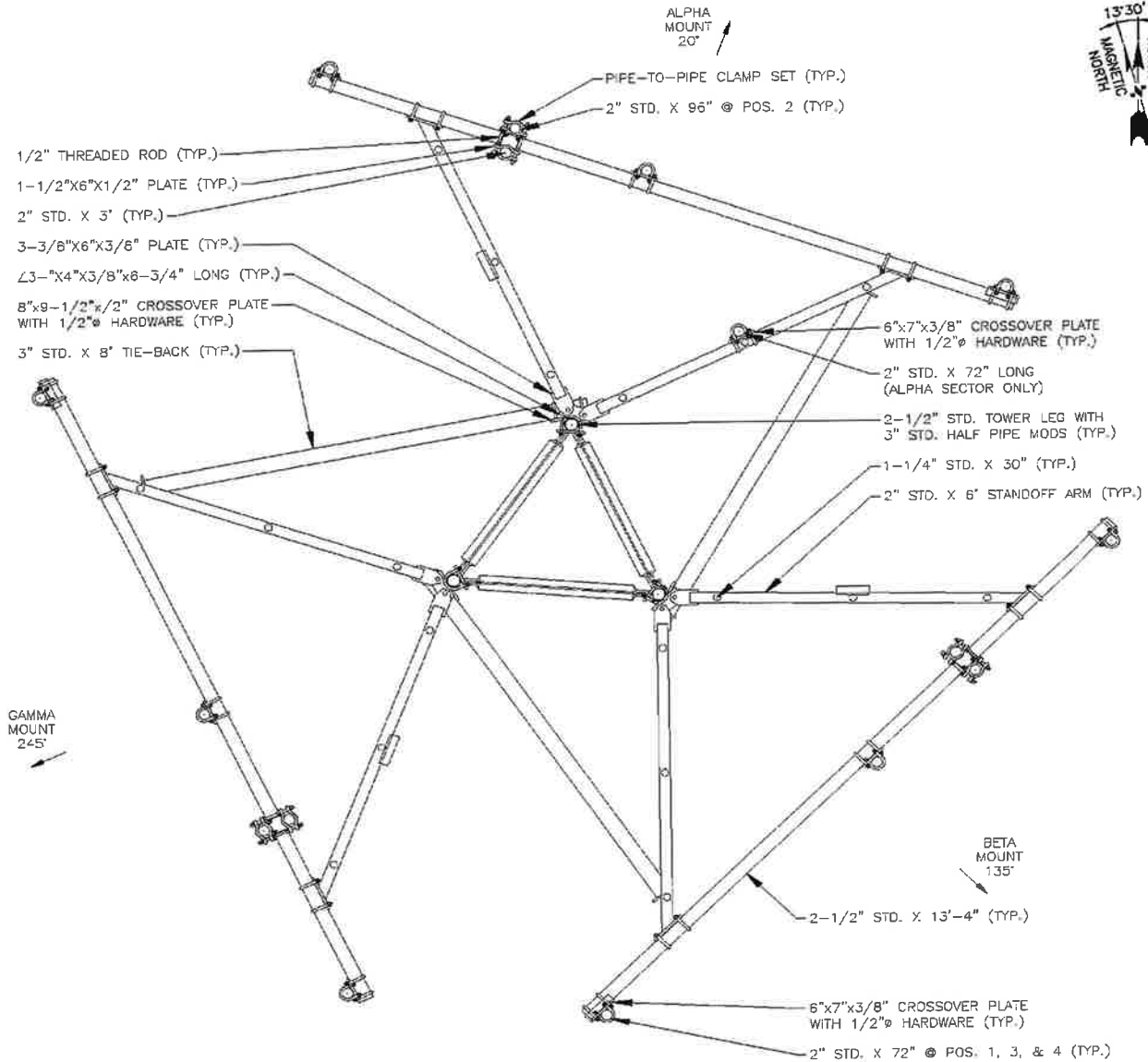
This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited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

Please Insert Sketches of the Antenna Mount



ANTENNA PLAN (1)
SCALE: N.T.S. SK-1

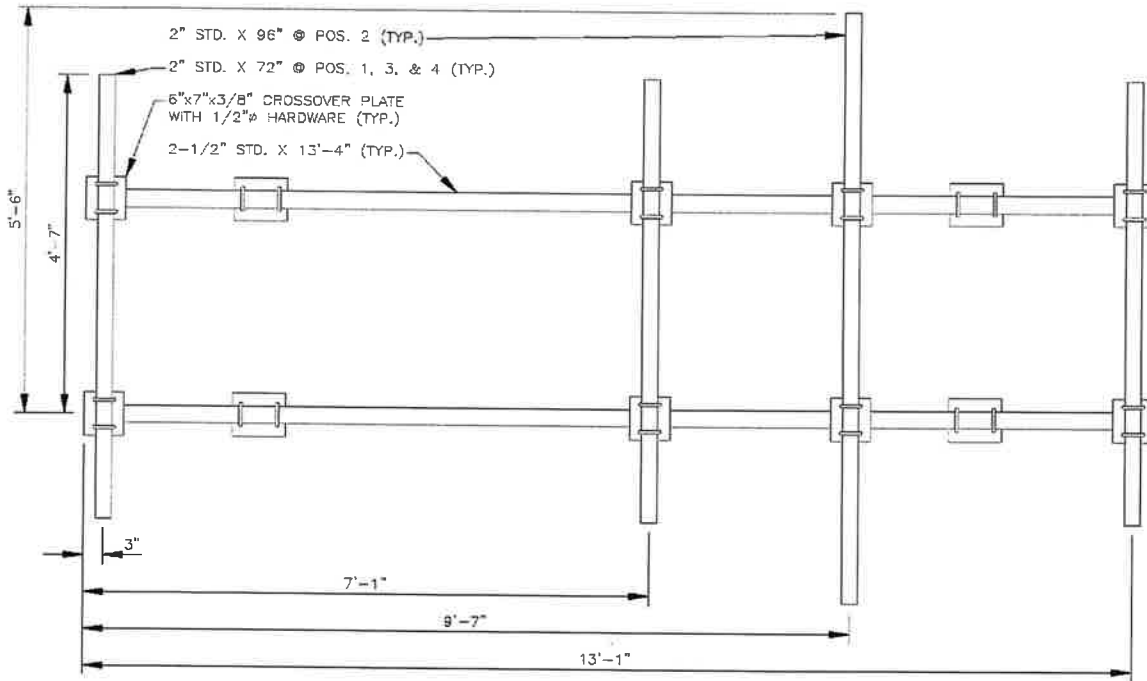
Please Insert Sketches of the Antenna Mount, cont'd



MOUNT PLAN
SCALE: N.T.S.

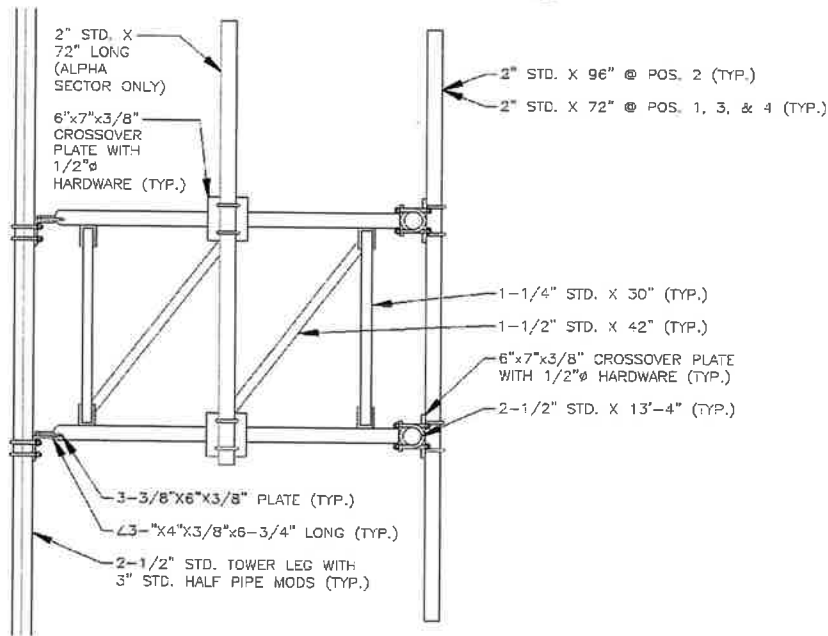
1
SK-2

Please Insert Sketches of the Antenna Mount, cont'd



FRONT ELEVATION
SCALE: N.T.S

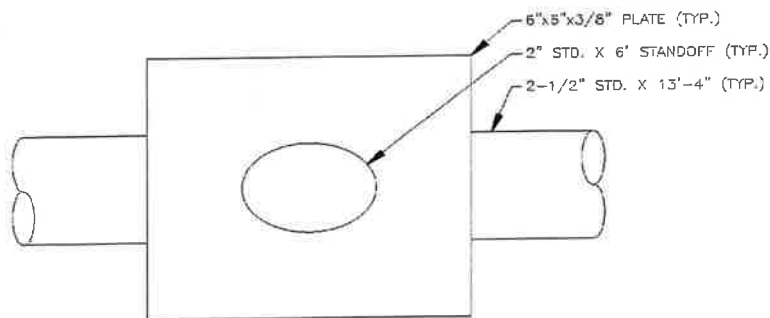
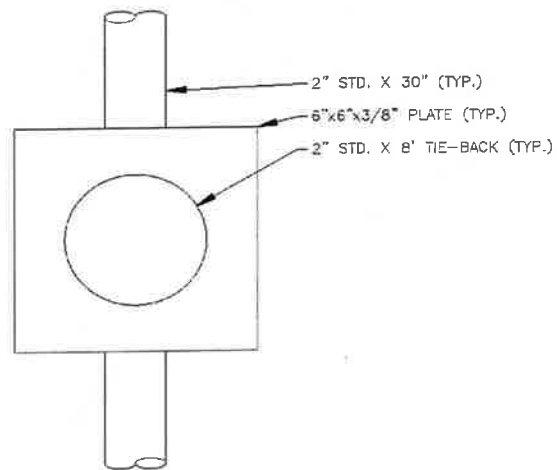
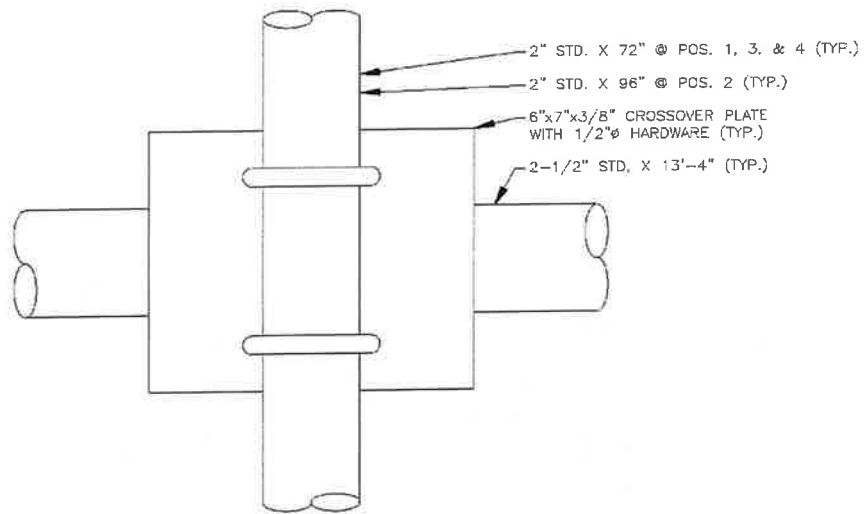
1
SK-3



SIDE ELEVATION
SCALE: N.T.S

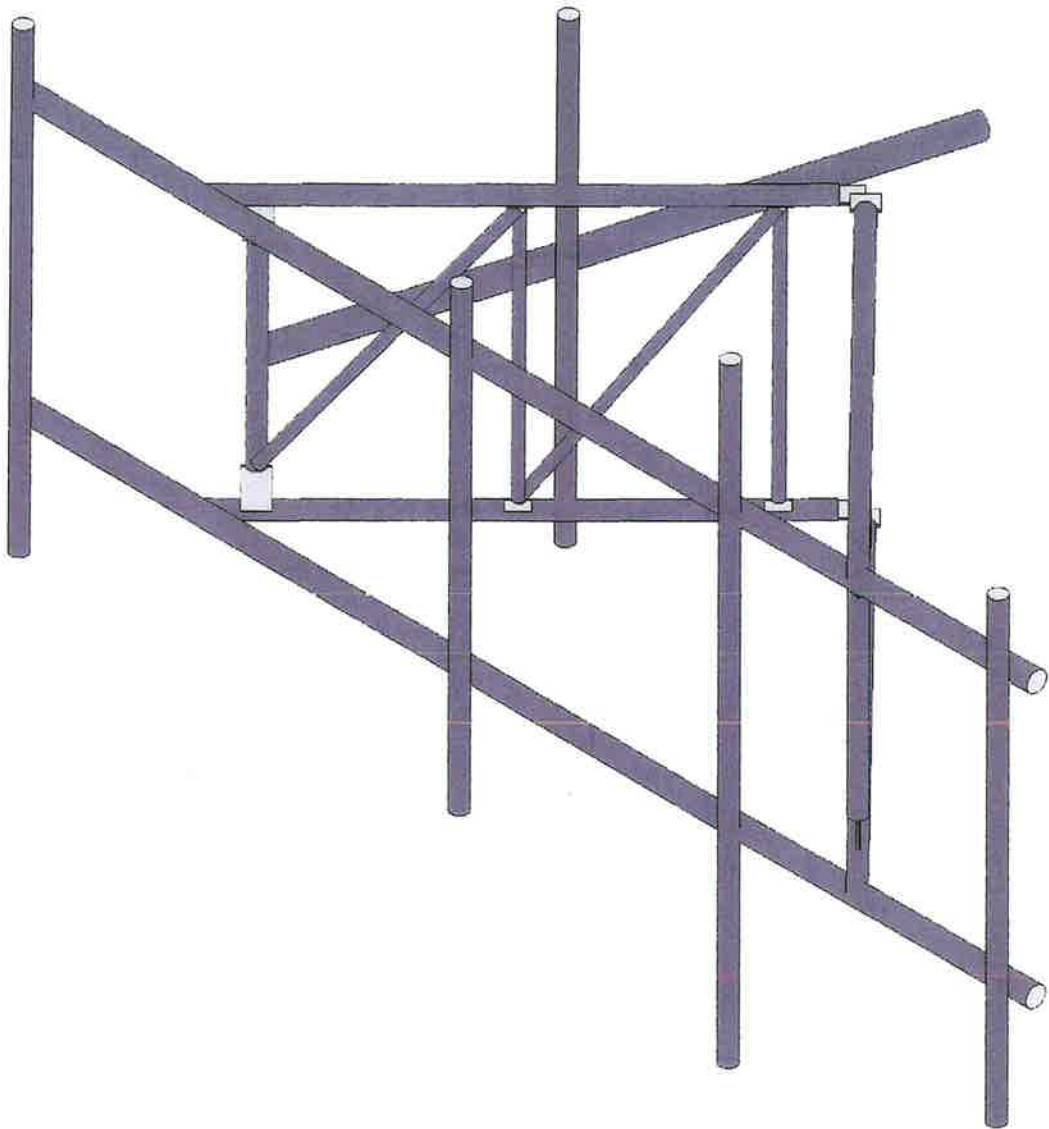
2
SK-3

Please Insert Sketches of the Antenna Mount, cont'd



DETAILS
SCALE: N.T.S.

1
SK-4



Envelope Only Solution

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

Rendered Model

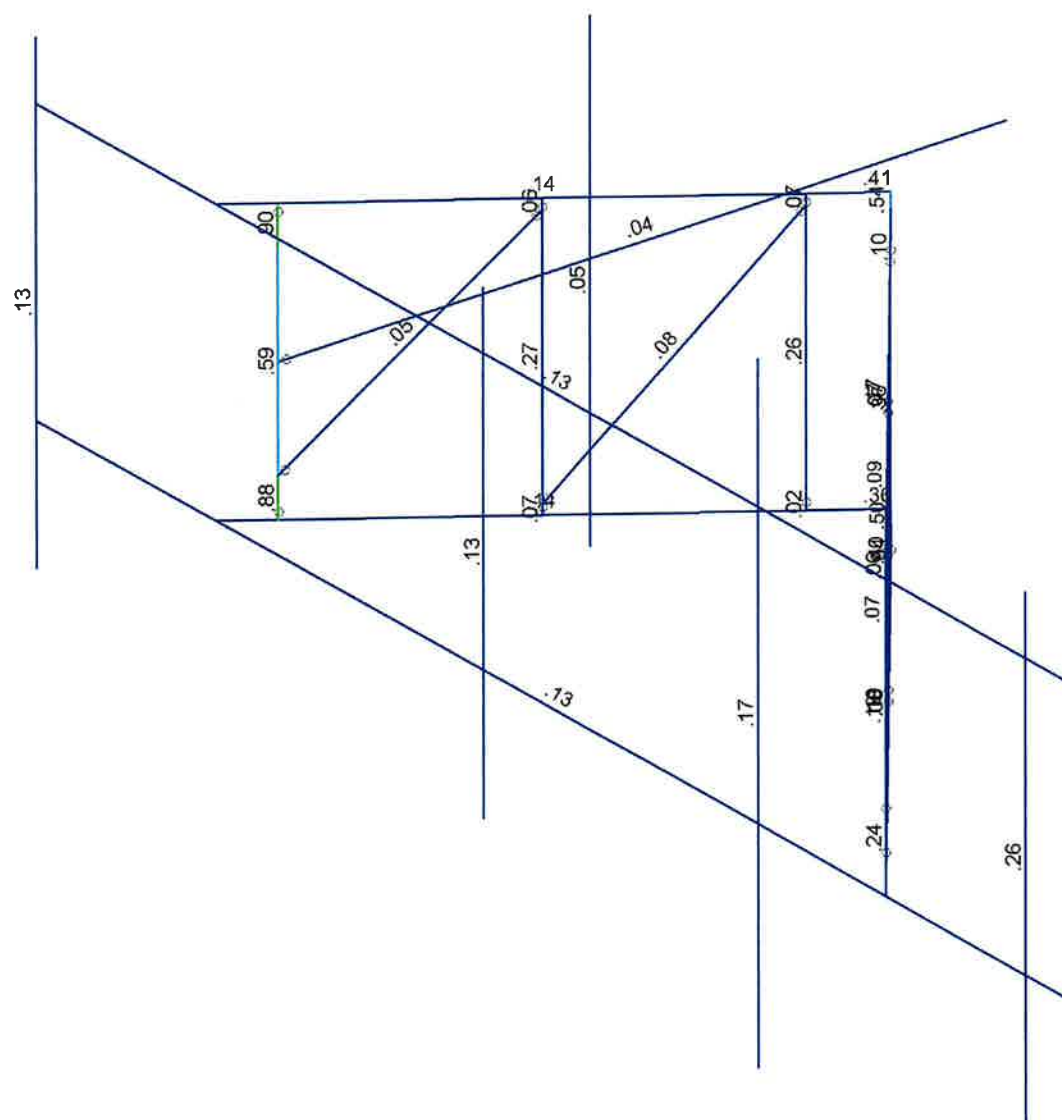
SK - 1

Nov 27, 2023 at 12:34 PM

5000243394-VZW_MT_LOT_A_H.r3d



| Code Check | Envelope |
|------------|----------|
| No Calc | |
| > 1.0 | |
| 0.5-1.0 | |
| 0.25-0.5 | |
| 0.1-0.25 | |
| 0-0.1 | |



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

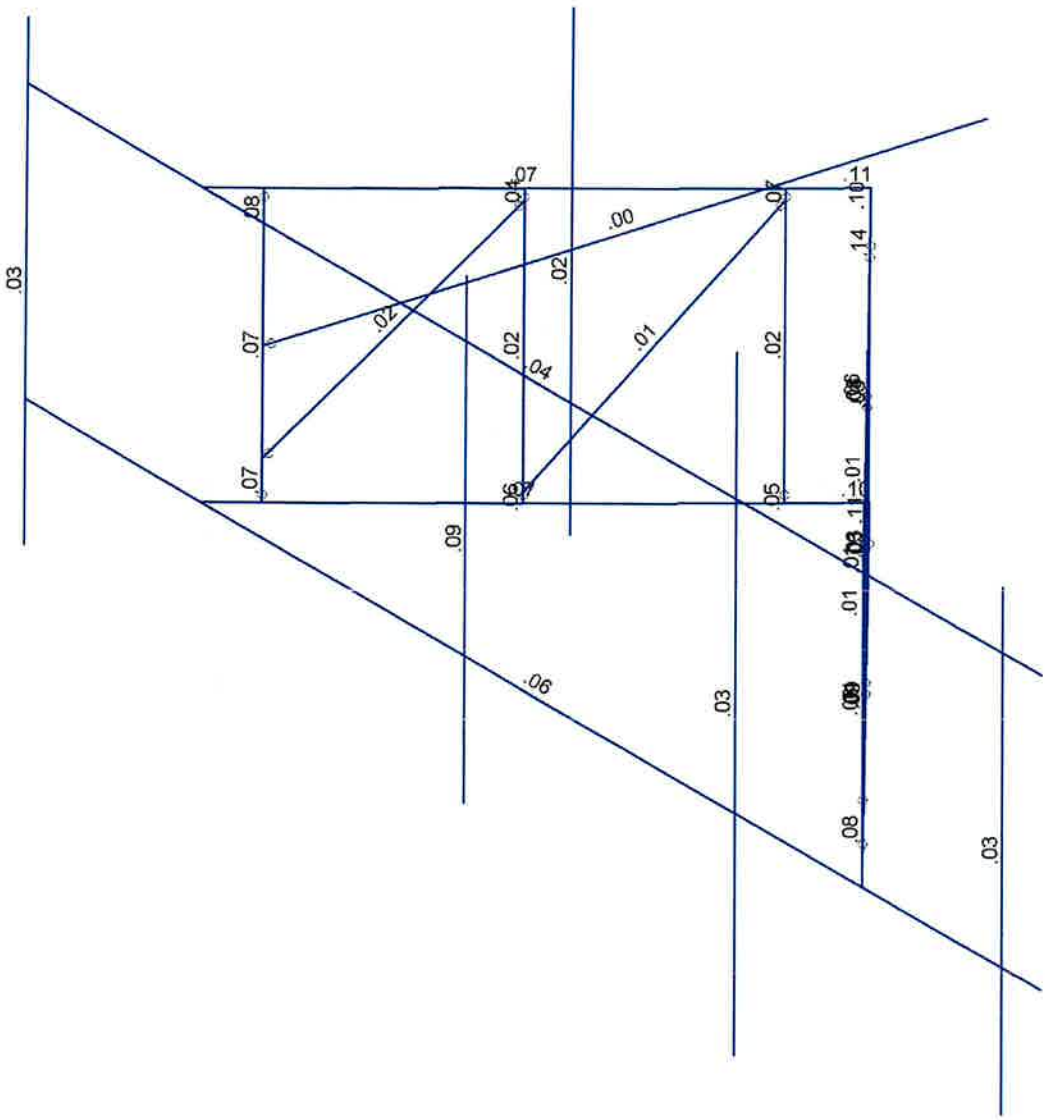
| |
|--|
| |
| |
| |

Bending Check

SK - 2

Nov 27, 2023 at 12:34 PM

5000243394-VZW_MT_LOT_A_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|--|-------------|-------------------------------|
| | | SK - 3 |
| | | Nov 27, 2023 at 12:35 PM |
| | Shear Check | 5000243394-VZW_MT_LOT_A_H.r3d |

Basic Load Cases

| | DLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me...) | Surface(P |
|----|------------------------|----------|-----------|-----------|-----------|-------|-------|-------------------------|-----------|
| 1 | Antenna D | None | | | | | 27 | | |
| 2 | Antenna Di | None | | | | | 27 | | |
| 3 | Antenna Wo (0 Deg) | None | | | | | 27 | | |
| 4 | Antenna Wo (30 Deg) | None | | | | | 27 | | |
| 5 | Antenna Wo (60 Deg) | None | | | | | 27 | | |
| 6 | Antenna Wo (90 Deg) | None | | | | | 27 | | |
| 7 | Antenna Wo (120 Deg) | None | | | | | 27 | | |
| 8 | Antenna Wo (150 Deg) | None | | | | | 27 | | |
| 9 | Antenna Wo (180 Deg) | None | | | | | 27 | | |
| 10 | Antenna Wo (210 Deg) | None | | | | | 27 | | |
| 11 | Antenna Wo (240 Deg) | None | | | | | 27 | | |
| 12 | Antenna Wo (270 Deg) | None | | | | | 27 | | |
| 13 | Antenna Wo (300 Deg) | None | | | | | 27 | | |
| 14 | Antenna Wo (330 Deg) | None | | | | | 27 | | |
| 15 | Antenna Wi (0 Deg) | None | | | | | 27 | | |
| 16 | Antenna Wi (30 Deg) | None | | | | | 27 | | |
| 17 | Antenna Wi (60 Deg) | None | | | | | 27 | | |
| 18 | Antenna Wi (90 Deg) | None | | | | | 27 | | |
| 19 | Antenna Wi (120 Deg) | None | | | | | 27 | | |
| 20 | Antenna Wi (150 Deg) | None | | | | | 27 | | |
| 21 | Antenna Wi (180 Deg) | None | | | | | 27 | | |
| 22 | Antenna Wi (210 Deg) | None | | | | | 27 | | |
| 23 | Antenna Wi (240 Deg) | None | | | | | 27 | | |
| 24 | Antenna Wi (270 Deg) | None | | | | | 27 | | |
| 25 | Antenna Wi (300 Deg) | None | | | | | 27 | | |
| 26 | Antenna Wi (330 Deg) | None | | | | | 27 | | |
| 27 | Antenna Wm (0 Deg) | None | | | | | 27 | | |
| 28 | Antenna Wm (30 Deg) | None | | | | | 27 | | |
| 29 | Antenna Wm (60 Deg) | None | | | | | 27 | | |
| 30 | Antenna Wm (90 Deg) | None | | | | | 27 | | |
| 31 | Antenna Wm (120 Deg) | None | | | | | 27 | | |
| 32 | Antenna Wm (150 Deg) | None | | | | | 27 | | |
| 33 | Antenna Wm (180 Deg) | None | | | | | 27 | | |
| 34 | Antenna Wm (210 Deg) | None | | | | | 27 | | |
| 35 | Antenna Wm (240 Deg) | None | | | | | 27 | | |
| 36 | Antenna Wm (270 Deg) | None | | | | | 27 | | |
| 37 | Antenna Wm (300 Deg) | None | | | | | 27 | | |
| 38 | Antenna Wm (330 Deg) | None | | | | | 27 | | |
| 39 | Structure D | None | | -1 | | | | 38 | |
| 40 | Structure Di | None | | | | | | 76 | |
| 41 | Structure Wo (0 Deg) | None | | | | | | 76 | |
| 42 | Structure Wo (30 Deg) | None | | | | | | 76 | |
| 43 | Structure Wo (60 Deg) | None | | | | | | 76 | |
| 44 | Structure Wo (90 Deg) | None | | | | | | 76 | |
| 45 | Structure Wo (120 D... | None | | | | | | 76 | |
| 46 | Structure Wo (150 D... | None | | | | | | 76 | |
| 47 | Structure Wo (180 D... | None | | | | | | 76 | |
| 48 | Structure Wo (210 D... | None | | | | | | 76 | |
| 49 | Structure Wo (240 D... | None | | | | | | 76 | |
| 50 | Structure Wo (270 D... | None | | | | | | 76 | |
| 51 | Structure Wo (300 D... | None | | | | | | 76 | |
| 52 | Structure Wo (330 D... | None | | | | | | 76 | |
| 53 | Structure Wi (0 Deg) | None | | | | | | 76 | |
| 54 | Structure Wi (30 Deg) | None | | | | | | 76 | |
| 55 | Structure Wi (60 Deg) | None | | | | | | 76 | |
| 56 | Structure Wi (90 Deg) | None | | | | | | 76 | |
| 57 | Structure Wi (120 De.. | None | | | | | | 76 | |
| 58 | Structure Wi (150 De.. | None | | | | | | 76 | |
| 59 | Structure Wi (180 De.. | None | | | | | | 76 | |
| 60 | Structure Wi (210 De.. | None | | | | | | 76 | |
| 61 | Structure Wi (240 De.. | None | | | | | | 76 | |

Basic Load Cases (Continued)

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... | Surface(P... |
|----|------------------------|----------|-----------|-----------|-----------|-------|-------|------------------------|--------------|
| 62 | Structure Wi (270 De.. | None | | | | | | 76 | |
| 63 | Structure Wi (300 De.. | None | | | | | | 76 | |
| 64 | Structure Wi (330 De.. | None | | | | | | 76 | |
| 65 | Structure Wm (0 Deg) | None | | | | | | 76 | |
| 66 | Structure Wm (30 De.. | None | | | | | | 76 | |
| 67 | Structure Wm (60 De.. | None | | | | | | 76 | |
| 68 | Structure Wm (90 De.. | None | | | | | | 76 | |
| 69 | Structure Wm (120 D.. | None | | | | | | 76 | |
| 70 | Structure Wm (150 D.. | None | | | | | | 76 | |
| 71 | Structure Wm (180 D.. | None | | | | | | 76 | |
| 72 | Structure Wm (210 D.. | None | | | | | | 76 | |
| 73 | Structure Wm (240 D.. | None | | | | | | 76 | |
| 74 | Structure Wm (270 D.. | None | | | | | | 76 | |
| 75 | Structure Wm (300 D.. | None | | | | | | 76 | |
| 76 | Structure Wm (330 D.. | None | | | | | | 76 | |
| 77 | Lm1 | None | | | | | 1 | | |
| 78 | Lm2 | None | | | | | 1 | | |
| 79 | Lv1 | None | | | | | 1 | | |
| 80 | Lv2 | None | | | | | 1 | | |
| 81 | Antenna Ev | None | | | | | 27 | | |
| 82 | Antenna Eh (0 Deg) | None | | | | | 18 | | |
| 83 | Antenna Eh (90 Deg) | None | | | | | 18 | | |
| 84 | Structure Ev | ELY | | -042 | | | | | |
| 85 | Structure Eh (0 Deg) | ELZ | | | -106 | | | | |
| 86 | Structure Eh (90 Deg) | ELX | .106 | | | | | | |

Load Combinations

| | Description | S | P | S | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | B | Fa | |
|----|---------------------------------|-----|---|---|---|----|-----|----|-----|----|-----|----|---|----|---|----|---|----|---|----|--|
| 1 | 1.2D+1.0Wo (0 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 3 | 1 | 41 | 1 | | | | | | | | |
| 2 | 1.2D+1.0Wo (30 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 4 | 1 | 42 | 1 | | | | | | | | |
| 3 | 1.2D+1.0Wo (60 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 5 | 1 | 43 | 1 | | | | | | | | |
| 4 | 1.2D+1.0Wo (90 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 6 | 1 | 44 | 1 | | | | | | | | |
| 5 | 1.2D+1.0Wo (120 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 7 | 1 | 45 | 1 | | | | | | | | |
| 6 | 1.2D+1.0Wo (150 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 8 | 1 | 46 | 1 | | | | | | | | |
| 7 | 1.2D+1.0Wo (180 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 9 | 1 | 47 | 1 | | | | | | | | |
| 8 | 1.2D+1.0Wo (210 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 10 | 1 | 48 | 1 | | | | | | | | |
| 9 | 1.2D+1.0Wo (240 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 11 | 1 | 49 | 1 | | | | | | | | |
| 10 | 1.2D+1.0Wo (270 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 12 | 1 | 50 | 1 | | | | | | | | |
| 11 | 1.2D+1.0Wo (300 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 13 | 1 | 51 | 1 | | | | | | | | |
| 12 | 1.2D+1.0Wo (330 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 14 | 1 | 52 | 1 | | | | | | | | |
| 13 | 1.2D + 1.0Di + 1.0Wi (0 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 15 | 1 | 53 | 1 | | | | |
| 14 | 1.2D + 1.0Di + 1.0Wi (30 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 16 | 1 | 54 | 1 | | | | |
| 15 | 1.2D + 1.0Di + 1.0Wi (60 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 17 | 1 | 55 | 1 | | | | |
| 16 | 1.2D + 1.0Di + 1.0Wi (90 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 18 | 1 | 56 | 1 | | | | |
| 17 | 1.2D + 1.0Di + 1.0Wi (120 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 19 | 1 | 57 | 1 | | | | |
| 18 | 1.2D + 1.0Di + 1.0Wi (150 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 20 | 1 | 58 | 1 | | | | |
| 19 | 1.2D + 1.0Di + 1.0Wi (180 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 21 | 1 | 59 | 1 | | | | |
| 20 | 1.2D + 1.0Di + 1.0Wi (210 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 22 | 1 | 60 | 1 | | | | |
| 21 | 1.2D + 1.0Di + 1.0Wi (240 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 23 | 1 | 61 | 1 | | | | |
| 22 | 1.2D + 1.0Di + 1.0Wi (270 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 24 | 1 | 62 | 1 | | | | |
| 23 | 1.2D + 1.0Di + 1.0Wi (300 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 25 | 1 | 63 | 1 | | | | |
| 24 | 1.2D + 1.0Di + 1.0Wi (330 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 2 | 1 | 40 | 1 | 26 | 1 | 64 | 1 | | | | |
| 25 | 1.2D + 1.5Lm1 + 1.0Wm (0 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 27 | 1 | 65 | 1 | | | | | | |
| 26 | 1.2D + 1.5Lm1 + 1.0Wm (30 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 28 | 1 | 66 | 1 | | | | | | |
| 27 | 1.2D + 1.5Lm1 + 1.0Wm (60 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 29 | 1 | 67 | 1 | | | | | | |
| 28 | 1.2D + 1.5Lm1 + 1.0Wm (90 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 30 | 1 | 68 | 1 | | | | | | |
| 29 | 1.2D + 1.5Lm1 + 1.0Wm (120 Deg) | Yes | Y | | | 1 | 1.2 | 39 | 1.2 | 77 | 1.5 | 31 | 1 | 69 | 1 | | | | | | |

Joint Coordinates and Temperatures (Continued)

| | Label | X (ft) | Y (ft) | Z (ft) | Temp (F) | Detach From Diap... |
|----|-------|-----------|-----------|----------|----------|---------------------|
| 12 | N17A | -0.341752 | 0.166667 | 0.345119 | 0 | |
| 13 | N18 | 0.008419 | 0.166667 | 0.345119 | 0 | |
| 14 | N19 | -0.341752 | -3.416667 | 0.345119 | 0 | |
| 15 | N20 | 0.008419 | -3.416667 | 0.345119 | 0 | |
| 16 | N21 | 0.38777 | 0.166667 | 0.731765 | 0 | |
| 17 | N22 | 0.38777 | -3.416667 | 0.731765 | 0 | |
| 18 | N23 | 2.08026 | 0.166667 | 2.456803 | 0 | |
| 19 | N24 | 2.08026 | -3.416667 | 2.456803 | 0 | |
| 20 | N25 | 3.77275 | 0.166667 | 4.181841 | 0 | |
| 21 | N26 | 3.77275 | -3.416667 | 4.181841 | 0 | |
| 22 | N27 | 0.38777 | -3.291667 | 0.731765 | 0 | |
| 23 | N28 | 2.08026 | -3.291667 | 2.456803 | 0 | |
| 24 | N29 | 0.38777 | 0.041667 | 0.731765 | 0 | |
| 25 | N30 | 2.08026 | 0.041667 | 2.456803 | 0 | |
| 26 | N31 | 3.77275 | -2.916667 | 4.181841 | 0 | |
| 27 | N32 | 3.77275 | -0.333333 | 4.181841 | 0 | |
| 28 | N33 | -0.721103 | 0.166667 | 0.731765 | 0 | |
| 29 | N34 | -0.721103 | -3.416667 | 0.731765 | 0 | |
| 30 | N35 | -2.413593 | 0.166667 | 2.456803 | 0 | |
| 31 | N36 | -2.413593 | -3.416667 | 2.456803 | 0 | |
| 32 | N37 | -4.106083 | 0.166667 | 4.181841 | 0 | |
| 33 | N38 | -4.106083 | -3.416667 | 4.181841 | 0 | |
| 34 | N39 | -0.721103 | -3.291667 | 0.731765 | 0 | |
| 35 | N40 | -2.413593 | -3.291667 | 2.456803 | 0 | |
| 36 | N41 | -0.721103 | 0.041667 | 0.731765 | 0 | |
| 37 | N42 | -2.413593 | 0.041667 | 2.456803 | 0 | |
| 38 | N43 | -4.106083 | -2.916667 | 4.181841 | 0 | |
| 39 | N44 | -4.106083 | -0.333333 | 4.181841 | 0 | |
| 40 | N45 | -6.583333 | 0.166667 | 4.583333 | 0 | |
| 41 | N46 | -6.583333 | -3.416667 | 4.583333 | 0 | |
| 42 | N47 | -6.583333 | 0.166667 | 4.833333 | 0 | |
| 43 | N48 | -6.583333 | -3.416667 | 4.833333 | 0 | |
| 44 | N49 | -6.583333 | 1.166667 | 4.833333 | 0 | |
| 45 | N50 | -6.583333 | -4.833333 | 4.833333 | 0 | |
| 46 | N51 | -0.791667 | 0.166667 | 4.583333 | 0 | |
| 47 | N52 | -0.791667 | -3.416667 | 4.583333 | 0 | |
| 48 | N53 | -0.791667 | 0.166667 | 4.833333 | 0 | |
| 49 | N54 | -0.791667 | -3.416667 | 4.833333 | 0 | |
| 50 | N55 | -0.791667 | 1.166667 | 4.833333 | 0 | |
| 51 | N56 | -0.791667 | -4.833333 | 4.833333 | 0 | |
| 52 | N57 | 6.25 | 0.166667 | 4.583333 | 0 | |
| 53 | N58 | 6.25 | -3.416667 | 4.583333 | 0 | |
| 54 | N59 | 6.25 | 0.166667 | 4.833333 | 0 | |
| 55 | N60 | 6.25 | -3.416667 | 4.833333 | 0 | |
| 56 | N61 | 6.25 | 1.166667 | 4.833333 | 0 | |
| 57 | N62 | 6.25 | -4.833333 | 4.833333 | 0 | |
| 58 | N65 | -0.166667 | -3.416667 | 0 | 0 | |
| 59 | N80 | 6.25 | -1 | 4.833333 | 0 | |
| 60 | N66A | -4.106083 | -1.625 | 4.181841 | 0 | |
| 61 | N62A | 2.75 | 0.166667 | 4.583333 | 0 | |
| 62 | N63A | 2.75 | -3.416667 | 4.583333 | 0 | |
| 63 | N64 | 2.75 | 0.166667 | 4.833333 | 0 | |
| 64 | N65A | 2.75 | -3.416667 | 4.833333 | 0 | |
| 65 | N66 | 2.75 | 2.083333 | 4.833333 | 0 | |
| 66 | N67 | 2.75 | -5.916667 | 4.833333 | 0 | |
| 67 | N68 | 2.75 | -1 | 4.833333 | 0 | |
| 68 | N69 | -2.092604 | 0.166667 | 2.129641 | 0 | |
| 69 | N70 | -2.245812 | 0.166667 | 2.001083 | 0 | |
| 70 | N71 | -2.092604 | -3.416667 | 2.129641 | 0 | |
| 71 | N72 | -2.245812 | -3.416667 | 2.001083 | 0 | |
| 72 | N73 | -2.245812 | -3.916667 | 2.001083 | 0 | |

Joint Coordinates and Temperatures (Continued)

| | Label | X [ft] | Y [ft] | Z [ft] | Temp [F] | Detach From Diap... |
|----|-------|-----------|-----------|-----------|----------|---------------------|
| 73 | N74 | -2.245812 | 2.083333 | 2.001083 | 0 | |
| 74 | N75 | -2 | -1.625 | -3.175426 | 0 | |
| 75 | N76A | 6.25 | 1 | 4.833333 | 0 | |
| 76 | N77 | 6.25 | -3 | 4.833333 | 0 | |
| 77 | N78 | -6.583333 | -1.625 | 4.833333 | 0 | |
| 78 | N79 | 1.941667 | -3.416667 | 4.583333 | 0 | |
| 79 | N80A | 1.3 | -3.416667 | 4.583333 | 0 | |
| 80 | N81 | -0.033333 | -3.416667 | 4.583333 | 0 | |
| 81 | N83 | 6.25 | 0 | 4.833333 | 0 | |
| 82 | N84 | 6.25 | -2 | 4.833333 | 0 | |
| 83 | N84A | 2.75 | .75 | 4.833333 | 0 | |
| 84 | N85 | 2.75 | -2.75 | 4.833333 | 0 | |

Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design R... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|----|---------------------|--------------|--------|--------------|---------------|-------------|---------|-----------|-----------|---------|
| 1 | Antenna Pipe | PIPE 2.0 | Column | Pipe | A53 Gr. B | Typical | 1.02 | .627 | .627 | 1.25 |
| 2 | Standoff Horizontal | PIPE 2.0 | Beam | Pipe | A500 Gr. C 50 | Typical | 1.02 | .627 | .627 | 1.25 |
| 3 | Standoff Vertical | PIPE 2.0 | Beam | Pipe | A500 Gr. C 50 | Typical | 1.02 | .627 | .627 | 1.25 |
| 4 | Standoff Diagonal | HSS1.500x.06 | Beam | Pipe | A500 Gr. C 50 | Typical | .282 | .073 | .073 | .146 |
| 5 | Face Horizontal | PIPE 2.5 | Beam | Pipe | A500 Gr. C 50 | Typical | 1.61 | 1.45 | 1.45 | 2.89 |
| 6 | Tie Back | PIPE 3.0 | Beam | Pipe | A53 Gr. B | Typical | 2.07 | 2.85 | 2.85 | 5.69 |
| 7 | Back Standoff Bar | PL3/8X3.375 | Beam | RECT | A36 Gr.36 | Typical | 1.266 | .015 | 1.201 | .055 |
| 8 | TES BSB | PL1/2X4 | Beam | RECT | A36 Gr.36 | Typical | 2 | .042 | 2.667 | .154 |
| 9 | Standoff Bar | PL3/8X3 | Beam | RECT | A36 Gr.36 | Typical | 1.125 | .013 | .844 | .049 |
| 10 | Mount Angle | L4X3X6 | Beam | Single Angle | A36 Gr.36 | Typical | 2.49 | 1.89 | 3.94 | .123 |
| 11 | Kickers | L2.5x2.5x3 | Beam | Single Angle | A36 Gr.36 | Typical | .901 | .535 | .535 | .011 |
| 12 | Standoff Bar 2 | PL3/8x3.5 | Beam | BAR | A36 Gr.36 | Typical | .963 | .006 | .983 | .023 |

Hot Rolled Steel Properties

| | Label | E [ksj] | G [ksj] | Nu | Therm (/1E... | Density[k/ft... | Yield[ksj] | Ry | Fu[ksj] | Rt |
|---|----------------|---------|---------|----|---------------|-----------------|------------|-----|---------|-----|
| 1 | A36 Gr.36 | 29000 | 11154 | .3 | .65 | .49 | 36 | 1.5 | 58 | 1.2 |
| 2 | A53 Gr. B | 29000 | 11154 | .3 | .65 | .49 | 35 | 1.5 | 60 | 1.2 |
| 3 | A572 Gr.50 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 4 | A992 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 5 | A500 Gr. B 42. | 29000 | 11154 | .3 | .65 | .49 | 42 | 1.4 | 58 | 1.3 |
| 6 | A500 Gr. B 46 | 29000 | 11154 | .3 | .65 | .49 | 46 | 1.4 | 58 | 1.3 |
| 7 | A500 Gr. C 50 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.5 | 62 | 1.2 |

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 | Back Standoff ... | Beam | RECT | A36 Gr.36 | Typical |
| 3 | M6 | N1 | N18 | | 90 | Back Standoff ... | Beam | RECT | A36 Gr.36 | Typical |
| 4 | M7 | N11A | N12 | | | Face Horizontal | Beam | Pipe | A500 Gr. ... | Typical |
| 5 | M8 | N5 | N19 | | 90 | Back Standoff ... | Beam | RECT | A36 Gr.36 | Typical |
| 6 | M9 | N5 | N20 | | 90 | Back Standoff ... | Beam | RECT | A36 Gr.36 | Typical |
| 7 | M10 | N16 | N17 | | | Face Horizontal | Beam | Pipe | A500 Gr. ... | Typical |
| 8 | M11 | N17A | N10 | | | Standoff Horiz... | Beam | Pipe | A500 Gr. ... | Typical |
| 9 | M12 | N18 | N11 | | | Standoff Horiz... | Beam | Pipe | A500 Gr. ... | Typical |
| 10 | M13 | N19 | N14 | | | Standoff Horiz... | Beam | Pipe | A500 Gr. ... | Typical |
| 11 | M14 | N20 | N15 | | | Standoff Horiz... | Beam | Pipe | A500 Gr. ... | Typical |
| 12 | M15 | N21 | N29 | N1 | | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 13 | M16 | N29 | N28 | | 90 | Standoff Diago... | Beam | Pipe | A500 Gr. ... | Typical |
| 14 | M17 | N23 | N30 | N1 | | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 15 | M18 | N30 | N31 | | 90 | Standoff Diago... | Beam | Pipe | A500 Gr. ... | Typical |
| 16 | M19 | N26 | N31 | N1 | | Standoff Bar 2 | Beam | BAR | A36 Gr.36 | Typical |
| 17 | M20 | N27 | N22 | N1 | | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |

Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shane | Type | Design List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|-------------------|--------|-------------|--------------|--------------|
| 18 | M21 | N28 | N24 | N1 | | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 19 | M22 | N29 | N27 | N1 | | Standoff Diago.. | Beam | Pipe | A500 Gr. ... | Typical |
| 20 | M23 | N30 | N28 | N1 | | Standoff Diago.. | Beam | Pipe | A500 Gr. ... | Typical |
| 21 | M24 | N31 | N32 | N1 | | Standoff Vertical | Beam | Pipe | A500 Gr. ... | Typical |
| 22 | M25 | N32 | N25 | N1 | | Standoff Bar 2 | Beam | BAR | A36 Gr.36 | Typical |
| 23 | M26 | N33 | N41 | N1 | | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 24 | M27 | N41 | N40 | | 90 | Standoff Diago.. | Beam | Pipe | A500 Gr. ... | Typical |
| 25 | M28 | N35 | N42 | N1 | | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 26 | M29 | N42 | N43 | | 90 | Standoff Diago.. | Beam | Pipe | A500 Gr. ... | Typical |
| 27 | M30 | N38 | N43 | N1 | | Standoff Bar 2 | Beam | BAR | A36 Gr.36 | Typical |
| 28 | M31 | N39 | N34 | N1 | | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 29 | M32 | N40 | N36 | N1 | | Standoff Bar | Beam | RECT | A36 Gr.36 | Typical |
| 30 | M33 | N41 | N39 | N1 | | Standoff Diago.. | Beam | Pipe | A500 Gr. ... | Typical |
| 31 | M34 | N42 | N40 | N1 | | Standoff Diago.. | Beam | Pipe | A500 Gr. ... | Typical |
| 32 | M35 | N43 | N44 | N1 | | Standoff Vertical | Beam | Pipe | A500 Gr. ... | Typical |
| 33 | M36 | N44 | N37 | N1 | | Standoff Bar 2 | Beam | BAR | A36 Gr.36 | Typical |
| 34 | M37 | N45 | N47 | | | RIGID | None | None | RIGID | Typical |
| 35 | M38 | N46 | N48 | | | RIGID | None | None | RIGID | Typical |
| 36 | MP4A | N49 | N50 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 37 | M40 | N51 | N53 | | | RIGID | None | None | RIGID | Typical |
| 38 | M41 | N52 | N54 | | | RIGID | None | None | RIGID | Typical |
| 39 | MP3A | N55 | N56 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 40 | M43 | N57 | N59 | | | RIGID | None | None | RIGID | Typical |
| 41 | M44 | N58 | N60 | | | RIGID | None | None | RIGID | Typical |
| 42 | MP1A | N61 | N62 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 43 | M46 | N66A | N75 | | | Tie Back | Beam | Pipe | A53 Gr. B | Typical |
| 44 | M46A | N5 | N65 | | | RIGID | None | None | RIGID | Typical |
| 45 | M45 | N62A | N64 | | | RIGID | None | None | RIGID | Typical |
| 46 | M46B | N63A | N65A | | | RIGID | None | None | RIGID | Typical |
| 47 | MP2A | N66 | N67 | | | Antenna Pipe | Column | Pipe | A53 Gr. B | Typical |
| 48 | M48 | N69 | N70 | | | RIGID | None | None | RIGID | Typical |
| 49 | M49 | N71 | N72 | | | RIGID | None | None | RIGID | Typical |
| 50 | M50 | N74 | N73 | | | Antenna Pipe | 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 | M10 | | | | | | Yes | | | | None |
| 8 | M11 | | | | | | Yes | | | | None |
| 9 | M12 | | | | | | Yes | | | | None |
| 10 | M13 | | | | | | Yes | | | | None |
| 11 | M14 | | | | | | Yes | | | | None |
| 12 | M15 | O O O O O X | | | | | Yes | | | | None |
| 13 | M16 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 14 | M17 | O O O O O X | | | | | Yes | | | | None |
| 15 | M18 | BenPIN | BenPIN | | | | Yes | Default | | | None |
| 16 | M19 | O O O O O X | | | | | Yes | | | | None |
| 17 | M20 | | O O O O O O | | | | Yes | | | | None |
| 18 | M21 | | O O O O O O | | | | Yes | | | | None |
| 19 | M22 | | | | | | Yes | | | | None |
| 20 | M23 | | | | | | Yes | | | | None |
| 21 | M24 | | | | | | Yes | | | | None |
| 22 | M25 | | O O O O O O | | | | Yes | Default | | | None |
| 23 | M26 | O O O O O X | | | | | Yes | | | | None |
| 24 | M27 | BenPIN | BenPIN | | | | Yes | | | | None |

Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 25 | M28 | OOOOOX | | | | | Yes | | | | None |
| 26 | M29 | BenPIN | BenPIN | | | | Yes | | | | 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 | M37 | | | | | | Yes | ** NA ** | | | None |
| 35 | M38 | | | | | | Yes | ** NA ** | | | None |
| 36 | MP4A | | | | | | Yes | ** NA ** | | | None |
| 37 | M40 | | | | | | Yes | ** NA ** | | | None |
| 38 | M41 | | | | | | Yes | ** NA ** | | | None |
| 39 | MP3A | | | | | | Yes | ** NA ** | | | None |
| 40 | M43 | | | | | | Yes | ** NA ** | | | None |
| 41 | M44 | | | | | | Yes | ** NA ** | | | None |
| 42 | MP1A | | | | | | Yes | ** NA ** | | | None |
| 43 | M46 | BenPIN | | | | | Yes | Default | | | None |
| 44 | M46A | | | | | | Yes | ** NA ** | | | None |
| 45 | M45 | | | | | | Yes | ** NA ** | | | None |
| 46 | M46B | | | | | | Yes | ** NA ** | | | None |
| 47 | MP2A | | | | | | Yes | ** NA ** | | | None |
| 48 | M48 | | | | | | Yes | ** NA ** | | | None |
| 49 | M49 | | | | | | Yes | ** NA ** | | | None |
| 50 | M50 | | | | | | Yes | ** NA ** | | | None |

Member Point Loads (BLC 1 : Antenna D)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | Y | -23 | 1.33 |
| 2 | MP3A | Mv | -.021 | 1.33 |
| 3 | MP3A | Mz | .019 | 1.33 |
| 4 | MP3A | Y | -23 | 4.83 |
| 5 | MP3A | Mv | -.021 | 4.83 |
| 6 | MP3A | Mz | .019 | 4.83 |
| 7 | MP3A | Y | -23 | 1.33 |
| 8 | MP3A | Mv | -.021 | 1.33 |
| 9 | MP3A | Mz | -.019 | 1.33 |
| 10 | MP3A | Y | -23 | 4.83 |
| 11 | MP3A | Mv | -.021 | 4.83 |
| 12 | MP3A | Mz | -.019 | 4.83 |
| 13 | MP1A | Y | -28.65 | 1.17 |
| 14 | MP1A | Mv | -.014 | 1.17 |
| 15 | MP1A | Mz | 0 | 1.17 |
| 16 | MP1A | Y | -28.65 | 3.17 |
| 17 | MP1A | Mv | -.014 | 3.17 |
| 18 | MP1A | Mz | 0 | 3.17 |
| 19 | M50 | Y | -32 | 1.5 |
| 20 | M50 | Mv | 0 | 1.5 |
| 21 | M50 | Mz | 0 | 1.5 |
| 22 | MP3A | Y | -74.7 | 2.17 |
| 23 | MP3A | Mv | .037 | 2.17 |
| 24 | MP3A | Mz | 0 | 2.17 |
| 25 | MP2A | Y | -79.1 | 2.17 |
| 26 | MP2A | Mv | .04 | 2.17 |
| 27 | MP2A | Mz | 0 | 2.17 |

Member Point Loads (BLC 2 : Antenna Di)

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

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | Y | -82.547 | 1.33 |
| 2 | MP3A | My | -.076 | 1.33 |
| 3 | MP3A | Mz | .069 | 1.33 |
| 4 | MP3A | Y | -82.547 | 4.83 |
| 5 | MP3A | My | -.076 | 4.83 |
| 6 | MP3A | Mz | .069 | 4.83 |
| 7 | MP3A | Y | -82.547 | 1.33 |
| 8 | MP3A | My | -.076 | 1.33 |
| 9 | MP3A | Mz | -.069 | 1.33 |
| 10 | MP3A | Y | -82.547 | 4.83 |
| 11 | MP3A | My | -.076 | 4.83 |
| 12 | MP3A | Mz | -.069 | 4.83 |
| 13 | MP1A | Y | -29.809 | 1.17 |
| 14 | MP1A | My | -.015 | 1.17 |
| 15 | MP1A | Mz | 0 | 1.17 |
| 16 | MP1A | Y | -29.809 | 3.17 |
| 17 | MP1A | My | -.015 | 3.17 |
| 18 | MP1A | Mz | 0 | 3.17 |
| 19 | M50 | Y | -76.027 | 1.5 |
| 20 | M50 | My | 0 | 1.5 |
| 21 | M50 | Mz | 0 | 1.5 |
| 22 | MP3A | Y | -44.947 | 2.17 |
| 23 | MP3A | My | .022 | 2.17 |
| 24 | MP3A | Mz | 0 | 2.17 |
| 25 | MP2A | Y | -45.423 | 2.17 |
| 26 | MP2A | My | .023 | 2.17 |
| 27 | MP2A | Mz | 0 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 0 | 1.33 |
| 2 | MP3A | Z | -87.281 | 1.33 |
| 3 | MP3A | Mx | -.073 | 1.33 |
| 4 | MP3A | X | 0 | 4.83 |
| 5 | MP3A | Z | -87.281 | 4.83 |
| 6 | MP3A | Mx | -.073 | 4.83 |
| 7 | MP3A | X | 0 | 1.33 |
| 8 | MP3A | Z | -87.281 | 1.33 |
| 9 | MP3A | Mx | .073 | 1.33 |
| 10 | MP3A | X | 0 | 4.83 |
| 11 | MP3A | Z | -87.281 | 4.83 |
| 12 | MP3A | Mx | .073 | 4.83 |
| 13 | MP1A | X | 0 | 1.17 |
| 14 | MP1A | Z | -69.936 | 1.17 |
| 15 | MP1A | Mx | 0 | 1.17 |
| 16 | MP1A | X | 0 | 3.17 |
| 17 | MP1A | Z | -69.936 | 3.17 |
| 18 | MP1A | Mx | 0 | 3.17 |
| 19 | M50 | X | 0 | 1.5 |
| 20 | M50 | Z | -116.99 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 0 | 2.17 |
| 23 | MP3A | Z | -57.203 | 2.17 |
| 24 | MP3A | Mx | 0 | 2.17 |
| 25 | MP2A | X | 0 | 2.17 |
| 26 | MP2A | Z | -69.013 | 2.17 |
| 27 | MP2A | Mx | 0 | 2.17 |

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

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

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP3A | X | 40.896 | 1.33 |
| 2 | MP3A | Z | -70.833 | 1.33 |
| 3 | MP3A | Mx | -.097 | 1.33 |
| 4 | MP3A | X | 40.896 | 4.83 |
| 5 | MP3A | Z | -70.833 | 4.83 |
| 6 | MP3A | Mx | -.097 | 4.83 |
| 7 | MP3A | X | 40.896 | 1.33 |
| 8 | MP3A | Z | -70.833 | 1.33 |
| 9 | MP3A | Mx | .022 | 1.33 |
| 10 | MP3A | X | 40.896 | 4.83 |
| 11 | MP3A | Z | -70.833 | 4.83 |
| 12 | MP3A | Mx | .022 | 4.83 |
| 13 | MP1A | X | 29.593 | 1.17 |
| 14 | MP1A | Z | -51.256 | 1.17 |
| 15 | MP1A | Mx | -.015 | 1.17 |
| 16 | MP1A | X | 29.593 | 3.17 |
| 17 | MP1A | Z | -51.256 | 3.17 |
| 18 | MP1A | Mx | -.015 | 3.17 |
| 19 | M50 | X | 54.989 | 1.5 |
| 20 | M50 | Z | -95.244 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 26.249 | 2.17 |
| 23 | MP3A | Z | -45.464 | 2.17 |
| 24 | MP3A | Mx | .013 | 2.17 |
| 25 | MP2A | X | 31.762 | 2.17 |
| 26 | MP2A | Z | -55.013 | 2.17 |
| 27 | MP2A | Mx | .016 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP3A | X | 61.325 | 1.33 |
| 2 | MP3A | Z | -35.406 | 1.33 |
| 3 | MP3A | Mx | -.086 | 1.33 |
| 4 | MP3A | X | 61.325 | 4.83 |
| 5 | MP3A | Z | -35.406 | 4.83 |
| 6 | MP3A | Mx | -.086 | 4.83 |
| 7 | MP3A | X | 61.325 | 1.33 |
| 8 | MP3A | Z | -35.406 | 1.33 |
| 9 | MP3A | Mx | -.027 | 1.33 |
| 10 | MP3A | X | 61.325 | 4.83 |
| 11 | MP3A | Z | -35.406 | 4.83 |
| 12 | MP3A | Mx | -.027 | 4.83 |
| 13 | MP1A | X | 32.637 | 1.17 |
| 14 | MP1A | Z | -18.843 | 1.17 |
| 15 | MP1A | Mx | -.016 | 1.17 |
| 16 | MP1A | X | 32.637 | 3.17 |
| 17 | MP1A | Z | -18.843 | 3.17 |
| 18 | MP1A | Mx | -.016 | 3.17 |
| 19 | M50 | X | 83.098 | 1.5 |
| 20 | M50 | Z | -47.977 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 37.314 | 2.17 |
| 23 | MP3A | Z | -21.543 | 2.17 |
| 24 | MP3A | Mx | .019 | 2.17 |
| 25 | MP2A | X | 45.504 | 2.17 |
| 26 | MP2A | Z | -26.272 | 2.17 |
| 27 | MP2A | Mx | .023 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|--|--------------|-----------|--------------------|-----------------|
|--|--------------|-----------|--------------------|-----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 65.322 | 1.33 |
| 2 | MP3A | Z | 0 | 1.33 |
| 3 | MP3A | Mx | -.06 | 1.33 |
| 4 | MP3A | X | 65.322 | 4.83 |
| 5 | MP3A | Z | 0 | 4.83 |
| 6 | MP3A | Mx | -.06 | 4.83 |
| 7 | MP3A | X | 65.322 | 1.33 |
| 8 | MP3A | Z | 0 | 1.33 |
| 9 | MP3A | Mx | -.06 | 1.33 |
| 10 | MP3A | X | 65.322 | 4.83 |
| 11 | MP3A | Z | 0 | 4.83 |
| 12 | MP3A | Mx | -.06 | 4.83 |
| 13 | MP1A | X | 26.936 | 1.17 |
| 14 | MP1A | Z | 0 | 1.17 |
| 15 | MP1A | Mx | -.013 | 1.17 |
| 16 | MP1A | X | 26.936 | 3.17 |
| 17 | MP1A | Z | 0 | 3.17 |
| 18 | MP1A | Mx | -.013 | 3.17 |
| 19 | M50 | X | 88.942 | 1.5 |
| 20 | M50 | Z | 0 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 38.381 | 2.17 |
| 23 | MP3A | Z | 0 | 2.17 |
| 24 | MP3A | Mx | .019 | 2.17 |
| 25 | MP2A | X | 47.054 | 2.17 |
| 26 | MP2A | Z | 0 | 2.17 |
| 27 | MP2A | Mx | .024 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 61.325 | 1.33 |
| 2 | MP3A | Z | 35.406 | 1.33 |
| 3 | MP3A | Mx | -.027 | 1.33 |
| 4 | MP3A | X | 61.325 | 4.83 |
| 5 | MP3A | Z | 35.406 | 4.83 |
| 6 | MP3A | Mx | -.027 | 4.83 |
| 7 | MP3A | X | 61.325 | 1.33 |
| 8 | MP3A | Z | 35.406 | 1.33 |
| 9 | MP3A | Mx | -.086 | 1.33 |
| 10 | MP3A | X | 61.325 | 4.83 |
| 11 | MP3A | Z | 35.406 | 4.83 |
| 12 | MP3A | Mx | -.086 | 4.83 |
| 13 | MP1A | X | 32.637 | 1.17 |
| 14 | MP1A | Z | 18.843 | 1.17 |
| 15 | MP1A | Mx | -.016 | 1.17 |
| 16 | MP1A | X | 32.637 | 3.17 |
| 17 | MP1A | Z | 18.843 | 3.17 |
| 18 | MP1A | Mx | -.016 | 3.17 |
| 19 | M50 | X | 83.098 | 1.5 |
| 20 | M50 | Z | 47.977 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 37.314 | 2.17 |
| 23 | MP3A | Z | 21.543 | 2.17 |
| 24 | MP3A | Mx | .019 | 2.17 |
| 25 | MP2A | X | 45.504 | 2.17 |
| 26 | MP2A | Z | 26.272 | 2.17 |
| 27 | MP2A | Mx | .023 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 40.896 | 1.33 |
| 2 | MP3A | Z | 70.833 | 1.33 |
| 3 | MP3A | Mx | .022 | 1.33 |
| 4 | MP3A | X | 40.896 | 4.83 |
| 5 | MP3A | Z | 70.833 | 4.83 |
| 6 | MP3A | Mx | .022 | 4.83 |
| 7 | MP3A | X | 40.896 | 1.33 |
| 8 | MP3A | Z | 70.833 | 1.33 |
| 9 | MP3A | Mx | -.097 | 1.33 |
| 10 | MP3A | X | 40.896 | 4.83 |
| 11 | MP3A | Z | 70.833 | 4.83 |
| 12 | MP3A | Mx | -.097 | 4.83 |
| 13 | MP1A | X | 29.593 | 1.17 |
| 14 | MP1A | Z | 51.256 | 1.17 |
| 15 | MP1A | Mx | -.015 | 1.17 |
| 16 | MP1A | X | 29.593 | 3.17 |
| 17 | MP1A | Z | 51.256 | 3.17 |
| 18 | MP1A | Mx | -.015 | 3.17 |
| 19 | M50 | X | 54.989 | 1.5 |
| 20 | M50 | Z | 95.244 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 26.249 | 2.17 |
| 23 | MP3A | Z | 45.464 | 2.17 |
| 24 | MP3A | Mx | .013 | 2.17 |
| 25 | MP2A | X | 31.762 | 2.17 |
| 26 | MP2A | Z | 55.013 | 2.17 |
| 27 | MP2A | Mx | .016 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 0 | 1.33 |
| 2 | MP3A | Z | 87.281 | 1.33 |
| 3 | MP3A | Mx | .073 | 1.33 |
| 4 | MP3A | X | 0 | 4.83 |
| 5 | MP3A | Z | 87.281 | 4.83 |
| 6 | MP3A | Mx | .073 | 4.83 |
| 7 | MP3A | X | 0 | 1.33 |
| 8 | MP3A | Z | 87.281 | 1.33 |
| 9 | MP3A | Mx | -.073 | 1.33 |
| 10 | MP3A | X | 0 | 4.83 |
| 11 | MP3A | Z | 87.281 | 4.83 |
| 12 | MP3A | Mx | -.073 | 4.83 |
| 13 | MP1A | X | 0 | 1.17 |
| 14 | MP1A | Z | 69.936 | 1.17 |
| 15 | MP1A | Mx | 0 | 1.17 |
| 16 | MP1A | X | 0 | 3.17 |
| 17 | MP1A | Z | 69.936 | 3.17 |
| 18 | MP1A | Mx | 0 | 3.17 |
| 19 | M50 | X | 0 | 1.5 |
| 20 | M50 | Z | 116.99 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 0 | 2.17 |
| 23 | MP3A | Z | 57.203 | 2.17 |
| 24 | MP3A | Mx | 0 | 2.17 |
| 25 | MP2A | X | 0 | 2.17 |
| 26 | MP2A | Z | 69.013 | 2.17 |
| 27 | MP2A | Mx | 0 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -40.896 | 1.33 |
| 2 | MP3A | Z | 70.833 | 1.33 |
| 3 | MP3A | Mx | .097 | 1.33 |
| 4 | MP3A | X | -40.896 | 4.83 |
| 5 | MP3A | Z | 70.833 | 4.83 |
| 6 | MP3A | Mx | .097 | 4.83 |
| 7 | MP3A | X | -40.896 | 1.33 |
| 8 | MP3A | Z | 70.833 | 1.33 |
| 9 | MP3A | Mx | -.022 | 1.33 |
| 10 | MP3A | X | -40.896 | 4.83 |
| 11 | MP3A | Z | 70.833 | 4.83 |
| 12 | MP3A | Mx | -.022 | 4.83 |
| 13 | MP1A | X | -29.593 | 1.17 |
| 14 | MP1A | Z | 51.256 | 1.17 |
| 15 | MP1A | Mx | .015 | 1.17 |
| 16 | MP1A | X | -29.593 | 3.17 |
| 17 | MP1A | Z | 51.256 | 3.17 |
| 18 | MP1A | Mx | .015 | 3.17 |
| 19 | M50 | X | -54.989 | 1.5 |
| 20 | M50 | Z | 95.244 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -26.249 | 2.17 |
| 23 | MP3A | Z | 45.464 | 2.17 |
| 24 | MP3A | Mx | -.013 | 2.17 |
| 25 | MP2A | X | -31.762 | 2.17 |
| 26 | MP2A | Z | 55.013 | 2.17 |
| 27 | MP2A | Mx | -.016 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -61.325 | 1.33 |
| 2 | MP3A | Z | 35.406 | 1.33 |
| 3 | MP3A | Mx | .086 | 1.33 |
| 4 | MP3A | X | -61.325 | 4.83 |
| 5 | MP3A | Z | 35.406 | 4.83 |
| 6 | MP3A | Mx | .086 | 4.83 |
| 7 | MP3A | X | -61.325 | 1.33 |
| 8 | MP3A | Z | 35.406 | 1.33 |
| 9 | MP3A | Mx | .027 | 1.33 |
| 10 | MP3A | X | -61.325 | 4.83 |
| 11 | MP3A | Z | 35.406 | 4.83 |
| 12 | MP3A | Mx | .027 | 4.83 |
| 13 | MP1A | X | -32.637 | 1.17 |
| 14 | MP1A | Z | 18.843 | 1.17 |
| 15 | MP1A | Mx | .016 | 1.17 |
| 16 | MP1A | X | -32.637 | 3.17 |
| 17 | MP1A | Z | 18.843 | 3.17 |
| 18 | MP1A | Mx | .016 | 3.17 |
| 19 | M50 | X | -83.098 | 1.5 |
| 20 | M50 | Z | 47.977 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -37.314 | 2.17 |
| 23 | MP3A | Z | 21.543 | 2.17 |
| 24 | MP3A | Mx | -.019 | 2.17 |
| 25 | MP2A | X | -45.504 | 2.17 |
| 26 | MP2A | Z | 26.272 | 2.17 |
| 27 | MP2A | Mx | -.023 | 2.17 |

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

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

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -65.322 | 1.33 |
| 2 | MP3A | Z | 0 | 1.33 |
| 3 | MP3A | Mx | .06 | 1.33 |
| 4 | MP3A | X | -65.322 | 4.83 |
| 5 | MP3A | Z | 0 | 4.83 |
| 6 | MP3A | Mx | .06 | 4.83 |
| 7 | MP3A | X | -65.322 | 1.33 |
| 8 | MP3A | Z | 0 | 1.33 |
| 9 | MP3A | Mx | .06 | 1.33 |
| 10 | MP3A | X | -65.322 | 4.83 |
| 11 | MP3A | Z | 0 | 4.83 |
| 12 | MP3A | Mx | .06 | 4.83 |
| 13 | MP1A | X | -26.936 | 1.17 |
| 14 | MP1A | Z | 0 | 1.17 |
| 15 | MP1A | Mx | .013 | 1.17 |
| 16 | MP1A | X | -26.936 | 3.17 |
| 17 | MP1A | Z | 0 | 3.17 |
| 18 | MP1A | Mx | .013 | 3.17 |
| 19 | M50 | X | -88.942 | 1.5 |
| 20 | M50 | Z | 0 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -38.381 | 2.17 |
| 23 | MP3A | Z | 0 | 2.17 |
| 24 | MP3A | Mx | -.019 | 2.17 |
| 25 | MP2A | X | -47.054 | 2.17 |
| 26 | MP2A | Z | 0 | 2.17 |
| 27 | MP2A | Mx | -.024 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -61.325 | 1.33 |
| 2 | MP3A | Z | -35.406 | 1.33 |
| 3 | MP3A | Mx | .027 | 1.33 |
| 4 | MP3A | X | -61.325 | 4.83 |
| 5 | MP3A | Z | -35.406 | 4.83 |
| 6 | MP3A | Mx | .027 | 4.83 |
| 7 | MP3A | X | -61.325 | 1.33 |
| 8 | MP3A | Z | -35.406 | 1.33 |
| 9 | MP3A | Mx | .086 | 1.33 |
| 10 | MP3A | X | -61.325 | 4.83 |
| 11 | MP3A | Z | -35.406 | 4.83 |
| 12 | MP3A | Mx | .086 | 4.83 |
| 13 | MP1A | X | -32.637 | 1.17 |
| 14 | MP1A | Z | -18.843 | 1.17 |
| 15 | MP1A | Mx | .016 | 1.17 |
| 16 | MP1A | X | -32.637 | 3.17 |
| 17 | MP1A | Z | -18.843 | 3.17 |
| 18 | MP1A | Mx | .016 | 3.17 |
| 19 | M50 | X | -83.098 | 1.5 |
| 20 | M50 | Z | -47.977 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -37.314 | 2.17 |
| 23 | MP3A | Z | -21.543 | 2.17 |
| 24 | MP3A | Mx | -.019 | 2.17 |
| 25 | MP2A | X | -45.504 | 2.17 |
| 26 | MP2A | Z | -26.272 | 2.17 |
| 27 | MP2A | Mx | -.023 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -40.896 | 1.33 |
| 2 | MP3A | Z | -70.833 | 1.33 |
| 3 | MP3A | Mx | -.022 | 1.33 |
| 4 | MP3A | X | -40.896 | 4.83 |
| 5 | MP3A | Z | -70.833 | 4.83 |
| 6 | MP3A | Mx | -.022 | 4.83 |
| 7 | MP3A | X | -40.896 | 1.33 |
| 8 | MP3A | Z | -70.833 | 1.33 |
| 9 | MP3A | Mx | .097 | 1.33 |
| 10 | MP3A | X | -40.896 | 4.83 |
| 11 | MP3A | Z | -70.833 | 4.83 |
| 12 | MP3A | Mx | .097 | 4.83 |
| 13 | MP1A | X | -29.593 | 1.17 |
| 14 | MP1A | Z | -51.256 | 1.17 |
| 15 | MP1A | Mx | .015 | 1.17 |
| 16 | MP1A | X | -29.593 | 3.17 |
| 17 | MP1A | Z | -51.256 | 3.17 |
| 18 | MP1A | Mx | .015 | 3.17 |
| 19 | M50 | X | -54.989 | 1.5 |
| 20 | M50 | Z | -95.244 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -26.249 | 2.17 |
| 23 | MP3A | Z | -45.464 | 2.17 |
| 24 | MP3A | Mx | -.013 | 2.17 |
| 25 | MP2A | X | -31.762 | 2.17 |
| 26 | MP2A | Z | -55.013 | 2.17 |
| 27 | MP2A | Mx | -.016 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 0 | 1.33 |
| 2 | MP3A | Z | -31.779 | 1.33 |
| 3 | MP3A | Mx | -.026 | 1.33 |
| 4 | MP3A | X | 0 | 4.83 |
| 5 | MP3A | Z | -31.779 | 4.83 |
| 6 | MP3A | Mx | -.026 | 4.83 |
| 7 | MP3A | X | 0 | 1.33 |
| 8 | MP3A | Z | -31.779 | 1.33 |
| 9 | MP3A | Mx | .026 | 1.33 |
| 10 | MP3A | X | 0 | 4.83 |
| 11 | MP3A | Z | -31.779 | 4.83 |
| 12 | MP3A | Mx | .026 | 4.83 |
| 13 | MP1A | X | 0 | 1.17 |
| 14 | MP1A | Z | -12.793 | 1.17 |
| 15 | MP1A | Mx | 0 | 1.17 |
| 16 | MP1A | X | 0 | 3.17 |
| 17 | MP1A | Z | -12.793 | 3.17 |
| 18 | MP1A | Mx | 0 | 3.17 |
| 19 | M50 | X | 0 | 1.5 |
| 20 | M50 | Z | -25.437 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 0 | 2.17 |
| 23 | MP3A | Z | -13.214 | 2.17 |
| 24 | MP3A | Mx | 0 | 2.17 |
| 25 | MP2A | X | 0 | 2.17 |
| 26 | MP2A | Z | -13.214 | 2.17 |
| 27 | MP2A | Mx | 0 | 2.17 |

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

| Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--------------|-----------|--------------------|----------------|
|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 14.922 | 1.33 |
| 2 | MP3A | Z | -25.846 | 1.33 |
| 3 | MP3A | Mx | -.035 | 1.33 |
| 4 | MP3A | X | 14.922 | 4.83 |
| 5 | MP3A | Z | -25.846 | 4.83 |
| 6 | MP3A | Mx | -.035 | 4.83 |
| 7 | MP3A | X | 14.922 | 1.33 |
| 8 | MP3A | Z | -25.846 | 1.33 |
| 9 | MP3A | Mx | .008 | 1.33 |
| 10 | MP3A | X | 14.922 | 4.83 |
| 11 | MP3A | Z | -25.846 | 4.83 |
| 12 | MP3A | Mx | .008 | 4.83 |
| 13 | MP1A | X | 5.473 | 1.17 |
| 14 | MP1A | Z | -9.479 | 1.17 |
| 15 | MP1A | Mx | -.003 | 1.17 |
| 16 | MP1A | X | 5.473 | 3.17 |
| 17 | MP1A | Z | -9.479 | 3.17 |
| 18 | MP1A | Mx | -.003 | 3.17 |
| 19 | M50 | X | 11.714 | 1.5 |
| 20 | M50 | Z | -20.289 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 6.104 | 2.17 |
| 23 | MP3A | Z | -10.573 | 2.17 |
| 24 | MP3A | Mx | .003 | 2.17 |
| 25 | MP2A | X | 6.124 | 2.17 |
| 26 | MP2A | Z | -10.608 | 2.17 |
| 27 | MP2A | Mx | .003 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 22.496 | 1.33 |
| 2 | MP3A | Z | -12.988 | 1.33 |
| 3 | MP3A | Mx | -.031 | 1.33 |
| 4 | MP3A | X | 22.496 | 4.83 |
| 5 | MP3A | Z | -12.988 | 4.83 |
| 6 | MP3A | Mx | -.031 | 4.83 |
| 7 | MP3A | X | 22.496 | 1.33 |
| 8 | MP3A | Z | -12.988 | 1.33 |
| 9 | MP3A | Mx | -.01 | 1.33 |
| 10 | MP3A | X | 22.496 | 4.83 |
| 11 | MP3A | Z | -12.988 | 4.83 |
| 12 | MP3A | Mx | -.01 | 4.83 |
| 13 | MP1A | X | 6.279 | 1.17 |
| 14 | MP1A | Z | -3.625 | 1.17 |
| 15 | MP1A | Mx | -.003 | 1.17 |
| 16 | MP1A | X | 6.279 | 3.17 |
| 17 | MP1A | Z | -3.625 | 3.17 |
| 18 | MP1A | Mx | -.003 | 3.17 |
| 19 | M50 | X | 16.809 | 1.5 |
| 20 | M50 | Z | -9.705 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 8.831 | 2.17 |
| 23 | MP3A | Z | -5.099 | 2.17 |
| 24 | MP3A | Mx | .004 | 2.17 |
| 25 | MP2A | X | 8.936 | 2.17 |
| 26 | MP2A | Z | -5.159 | 2.17 |
| 27 | MP2A | Mx | .004 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 24.041 | 1.33 |
| 2 | MP3A | Z | 0 | 1.33 |
| 3 | MP3A | Mx | -.022 | 1.33 |
| 4 | MP3A | X | 24.041 | 4.83 |
| 5 | MP3A | Z | 0 | 4.83 |
| 6 | MP3A | Mx | -.022 | 4.83 |
| 7 | MP3A | X | 24.041 | 1.33 |
| 8 | MP3A | Z | 0 | 1.33 |
| 9 | MP3A | Mx | -.022 | 1.33 |
| 10 | MP3A | X | 24.041 | 4.83 |
| 11 | MP3A | Z | 0 | 4.83 |
| 12 | MP3A | Mx | -.022 | 4.83 |
| 13 | MP1A | X | 5.402 | 1.17 |
| 14 | MP1A | Z | 0 | 1.17 |
| 15 | MP1A | Mx | -.003 | 1.17 |
| 16 | MP1A | X | 5.402 | 3.17 |
| 17 | MP1A | Z | 0 | 3.17 |
| 18 | MP1A | Mx | -.003 | 3.17 |
| 19 | M50 | X | 17.4 | 1.5 |
| 20 | M50 | Z | 0 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 9.192 | 2.17 |
| 23 | MP3A | Z | 0 | 2.17 |
| 24 | MP3A | Mx | .005 | 2.17 |
| 25 | MP2A | X | 9.353 | 2.17 |
| 26 | MP2A | Z | 0 | 2.17 |
| 27 | MP2A | Mx | .005 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 22.496 | 1.33 |
| 2 | MP3A | Z | 12.988 | 1.33 |
| 3 | MP3A | Mx | -.01 | 1.33 |
| 4 | MP3A | X | 22.496 | 4.83 |
| 5 | MP3A | Z | 12.988 | 4.83 |
| 6 | MP3A | Mx | -.01 | 4.83 |
| 7 | MP3A | X | 22.496 | 1.33 |
| 8 | MP3A | Z | 12.988 | 1.33 |
| 9 | MP3A | Mx | -.031 | 1.33 |
| 10 | MP3A | X | 22.496 | 4.83 |
| 11 | MP3A | Z | 12.988 | 4.83 |
| 12 | MP3A | Mx | -.031 | 4.83 |
| 13 | MP1A | X | 6.279 | 1.17 |
| 14 | MP1A | Z | 3.625 | 1.17 |
| 15 | MP1A | Mx | -.003 | 1.17 |
| 16 | MP1A | X | 6.279 | 3.17 |
| 17 | MP1A | Z | 3.625 | 3.17 |
| 18 | MP1A | Mx | -.003 | 3.17 |
| 19 | M50 | X | 16.809 | 1.5 |
| 20 | M50 | Z | 9.705 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 8.831 | 2.17 |
| 23 | MP3A | Z | 5.099 | 2.17 |
| 24 | MP3A | Mx | .004 | 2.17 |
| 25 | MP2A | X | 8.936 | 2.17 |
| 26 | MP2A | Z | 5.159 | 2.17 |
| 27 | MP2A | Mx | .004 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 14.922 | 1.33 |
| 2 | MP3A | Z | 25.846 | 1.33 |
| 3 | MP3A | Mx | .008 | 1.33 |
| 4 | MP3A | X | 14.922 | 4.83 |
| 5 | MP3A | Z | 25.846 | 4.83 |
| 6 | MP3A | Mx | .008 | 4.83 |
| 7 | MP3A | X | 14.922 | 1.33 |
| 8 | MP3A | Z | 25.846 | 1.33 |
| 9 | MP3A | Mx | -.035 | 1.33 |
| 10 | MP3A | X | 14.922 | 4.83 |
| 11 | MP3A | Z | 25.846 | 4.83 |
| 12 | MP3A | Mx | -.035 | 4.83 |
| 13 | MP1A | X | 5.473 | 1.17 |
| 14 | MP1A | Z | 9.479 | 1.17 |
| 15 | MP1A | Mx | -.003 | 1.17 |
| 16 | MP1A | X | 5.473 | 3.17 |
| 17 | MP1A | Z | 9.479 | 3.17 |
| 18 | MP1A | Mx | -.003 | 3.17 |
| 19 | M50 | X | 11.714 | 1.5 |
| 20 | M50 | Z | 20.289 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 6.104 | 2.17 |
| 23 | MP3A | Z | 10.573 | 2.17 |
| 24 | MP3A | Mx | .003 | 2.17 |
| 25 | MP2A | X | 6.124 | 2.17 |
| 26 | MP2A | Z | 10.608 | 2.17 |
| 27 | MP2A | Mx | .003 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 0 | 1.33 |
| 2 | MP3A | Z | 31.779 | 1.33 |
| 3 | MP3A | Mx | .026 | 1.33 |
| 4 | MP3A | X | 0 | 4.83 |
| 5 | MP3A | Z | 31.779 | 4.83 |
| 6 | MP3A | Mx | .026 | 4.83 |
| 7 | MP3A | X | 0 | 1.33 |
| 8 | MP3A | Z | 31.779 | 1.33 |
| 9 | MP3A | Mx | -.026 | 1.33 |
| 10 | MP3A | X | 0 | 4.83 |
| 11 | MP3A | Z | 31.779 | 4.83 |
| 12 | MP3A | Mx | -.026 | 4.83 |
| 13 | MP1A | X | 0 | 1.17 |
| 14 | MP1A | Z | 12.793 | 1.17 |
| 15 | MP1A | Mx | 0 | 1.17 |
| 16 | MP1A | X | 0 | 3.17 |
| 17 | MP1A | Z | 12.793 | 3.17 |
| 18 | MP1A | Mx | 0 | 3.17 |
| 19 | M50 | X | 0 | 1.5 |
| 20 | M50 | Z | 25.437 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 0 | 2.17 |
| 23 | MP3A | Z | 13.214 | 2.17 |
| 24 | MP3A | Mx | 0 | 2.17 |
| 25 | MP2A | X | 0 | 2.17 |
| 26 | MP2A | Z | 13.214 | 2.17 |
| 27 | MP2A | Mx | 0 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -14.922 | 1.33 |
| 2 | MP3A | Z | 25.846 | 1.33 |
| 3 | MP3A | Mx | .035 | 1.33 |
| 4 | MP3A | X | -14.922 | 4.83 |
| 5 | MP3A | Z | 25.846 | 4.83 |
| 6 | MP3A | Mx | .035 | 4.83 |
| 7 | MP3A | X | -14.922 | 1.33 |
| 8 | MP3A | Z | 25.846 | 1.33 |
| 9 | MP3A | Mx | -.008 | 1.33 |
| 10 | MP3A | X | -14.922 | 4.83 |
| 11 | MP3A | Z | 25.846 | 4.83 |
| 12 | MP3A | Mx | -.008 | 4.83 |
| 13 | MP1A | X | -5.473 | 1.17 |
| 14 | MP1A | Z | 9.479 | 1.17 |
| 15 | MP1A | Mx | .003 | 1.17 |
| 16 | MP1A | X | -5.473 | 3.17 |
| 17 | MP1A | Z | 9.479 | 3.17 |
| 18 | MP1A | Mx | .003 | 3.17 |
| 19 | M50 | X | -11.714 | 1.5 |
| 20 | M50 | Z | 20.289 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -6.104 | 2.17 |
| 23 | MP3A | Z | 10.573 | 2.17 |
| 24 | MP3A | Mx | -.003 | 2.17 |
| 25 | MP2A | X | -6.124 | 2.17 |
| 26 | MP2A | Z | 10.608 | 2.17 |
| 27 | MP2A | Mx | -.003 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -22.496 | 1.33 |
| 2 | MP3A | Z | 12.988 | 1.33 |
| 3 | MP3A | Mx | .031 | 1.33 |
| 4 | MP3A | X | -22.496 | 4.83 |
| 5 | MP3A | Z | 12.988 | 4.83 |
| 6 | MP3A | Mx | .031 | 4.83 |
| 7 | MP3A | X | -22.496 | 1.33 |
| 8 | MP3A | Z | 12.988 | 1.33 |
| 9 | MP3A | Mx | .01 | 1.33 |
| 10 | MP3A | X | -22.496 | 4.83 |
| 11 | MP3A | Z | 12.988 | 4.83 |
| 12 | MP3A | Mx | .01 | 4.83 |
| 13 | MP1A | X | -6.279 | 1.17 |
| 14 | MP1A | Z | 3.625 | 1.17 |
| 15 | MP1A | Mx | .003 | 1.17 |
| 16 | MP1A | X | -6.279 | 3.17 |
| 17 | MP1A | Z | 3.625 | 3.17 |
| 18 | MP1A | Mx | .003 | 3.17 |
| 19 | M50 | X | -16.809 | 1.5 |
| 20 | M50 | Z | 9.705 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -8.831 | 2.17 |
| 23 | MP3A | Z | 5.099 | 2.17 |
| 24 | MP3A | Mx | -.004 | 2.17 |
| 25 | MP2A | X | -8.936 | 2.17 |
| 26 | MP2A | Z | 5.159 | 2.17 |
| 27 | MP2A | Mx | -.004 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -24.041 | 1.33 |
| 2 | MP3A | Z | 0 | 1.33 |
| 3 | MP3A | Mx | .022 | 1.33 |
| 4 | MP3A | X | -24.041 | 4.83 |
| 5 | MP3A | Z | 0 | 4.83 |
| 6 | MP3A | Mx | .022 | 4.83 |
| 7 | MP3A | X | -24.041 | 1.33 |
| 8 | MP3A | Z | 0 | 1.33 |
| 9 | MP3A | Mx | .022 | 1.33 |
| 10 | MP3A | X | -24.041 | 4.83 |
| 11 | MP3A | Z | 0 | 4.83 |
| 12 | MP3A | Mx | .022 | 4.83 |
| 13 | MP1A | X | -5.402 | 1.17 |
| 14 | MP1A | Z | 0 | 1.17 |
| 15 | MP1A | Mx | .003 | 1.17 |
| 16 | MP1A | X | -5.402 | 3.17 |
| 17 | MP1A | Z | 0 | 3.17 |
| 18 | MP1A | Mx | .003 | 3.17 |
| 19 | M50 | X | -17.4 | 1.5 |
| 20 | M50 | Z | 0 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -9.192 | 2.17 |
| 23 | MP3A | Z | 0 | 2.17 |
| 24 | MP3A | Mx | -.005 | 2.17 |
| 25 | MP2A | X | -9.353 | 2.17 |
| 26 | MP2A | Z | 0 | 2.17 |
| 27 | MP2A | Mx | -.005 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -22.496 | 1.33 |
| 2 | MP3A | Z | -12.988 | 1.33 |
| 3 | MP3A | Mx | .01 | 1.33 |
| 4 | MP3A | X | -22.496 | 4.83 |
| 5 | MP3A | Z | -12.988 | 4.83 |
| 6 | MP3A | Mx | .01 | 4.83 |
| 7 | MP3A | X | -22.496 | 1.33 |
| 8 | MP3A | Z | -12.988 | 1.33 |
| 9 | MP3A | Mx | .031 | 1.33 |
| 10 | MP3A | X | -22.496 | 4.83 |
| 11 | MP3A | Z | -12.988 | 4.83 |
| 12 | MP3A | Mx | .031 | 4.83 |
| 13 | MP1A | X | -6.279 | 1.17 |
| 14 | MP1A | Z | -3.625 | 1.17 |
| 15 | MP1A | Mx | .003 | 1.17 |
| 16 | MP1A | X | -6.279 | 3.17 |
| 17 | MP1A | Z | -3.625 | 3.17 |
| 18 | MP1A | Mx | .003 | 3.17 |
| 19 | M50 | X | -16.809 | 1.5 |
| 20 | M50 | Z | -9.705 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -8.831 | 2.17 |
| 23 | MP3A | Z | -5.099 | 2.17 |
| 24 | MP3A | Mx | -.004 | 2.17 |
| 25 | MP2A | X | -8.936 | 2.17 |
| 26 | MP2A | Z | -5.159 | 2.17 |
| 27 | MP2A | Mx | -.004 | 2.17 |

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

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

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -14.922 | 1.33 |
| 2 | MP3A | Z | -25.846 | 1.33 |
| 3 | MP3A | Mx | -.008 | 1.33 |
| 4 | MP3A | X | -14.922 | 4.83 |
| 5 | MP3A | Z | -25.846 | 4.83 |
| 6 | MP3A | Mx | -.008 | 4.83 |
| 7 | MP3A | X | -14.922 | 1.33 |
| 8 | MP3A | Z | -25.846 | 1.33 |
| 9 | MP3A | Mx | .035 | 1.33 |
| 10 | MP3A | X | -14.922 | 4.83 |
| 11 | MP3A | Z | -25.846 | 4.83 |
| 12 | MP3A | Mx | .035 | 4.83 |
| 13 | MP1A | X | -5.473 | 1.17 |
| 14 | MP1A | Z | -9.479 | 1.17 |
| 15 | MP1A | Mx | .003 | 1.17 |
| 16 | MP1A | X | -5.473 | 3.17 |
| 17 | MP1A | Z | -9.479 | 3.17 |
| 18 | MP1A | Mx | .003 | 3.17 |
| 19 | M50 | X | -11.714 | 1.5 |
| 20 | M50 | Z | -20.289 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -6.104 | 2.17 |
| 23 | MP3A | Z | -10.573 | 2.17 |
| 24 | MP3A | Mx | -.003 | 2.17 |
| 25 | MP2A | X | -6.124 | 2.17 |
| 26 | MP2A | Z | -10.608 | 2.17 |
| 27 | MP2A | Mx | -.003 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 0 | 1.33 |
| 2 | MP3A | Z | -5.027 | 1.33 |
| 3 | MP3A | Mx | -.004 | 1.33 |
| 4 | MP3A | X | 0 | 4.83 |
| 5 | MP3A | Z | -5.027 | 4.83 |
| 6 | MP3A | Mx | -.004 | 4.83 |
| 7 | MP3A | X | 0 | 1.33 |
| 8 | MP3A | Z | -5.027 | 1.33 |
| 9 | MP3A | Mx | .004 | 1.33 |
| 10 | MP3A | X | 0 | 4.83 |
| 11 | MP3A | Z | -5.027 | 4.83 |
| 12 | MP3A | Mx | .004 | 4.83 |
| 13 | MP1A | X | 0 | 1.17 |
| 14 | MP1A | Z | -4.028 | 1.17 |
| 15 | MP1A | Mx | 0 | 1.17 |
| 16 | MP1A | X | 0 | 3.17 |
| 17 | MP1A | Z | -4.028 | 3.17 |
| 18 | MP1A | Mx | 0 | 3.17 |
| 19 | M50 | X | 0 | 1.5 |
| 20 | M50 | Z | -6.739 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 0 | 2.17 |
| 23 | MP3A | Z | -3.295 | 2.17 |
| 24 | MP3A | Mx | 0 | 2.17 |
| 25 | MP2A | X | 0 | 2.17 |
| 26 | MP2A | Z | -3.975 | 2.17 |
| 27 | MP2A | Mx | 0 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP3A | X | 2.356 | 1.33 |
| 2 | MP3A | Z | -4.08 | 1.33 |
| 3 | MP3A | Mx | -.006 | 1.33 |
| 4 | MP3A | X | 2.356 | 4.83 |
| 5 | MP3A | Z | -4.08 | 4.83 |
| 6 | MP3A | Mx | -.006 | 4.83 |
| 7 | MP3A | X | 2.356 | 1.33 |
| 8 | MP3A | Z | -4.08 | 1.33 |
| 9 | MP3A | Mx | .001 | 1.33 |
| 10 | MP3A | X | 2.356 | 4.83 |
| 11 | MP3A | Z | -4.08 | 4.83 |
| 12 | MP3A | Mx | .001 | 4.83 |
| 13 | MP1A | X | 1.705 | 1.17 |
| 14 | MP1A | Z | -2.952 | 1.17 |
| 15 | MP1A | Mx | -.000853 | 1.17 |
| 16 | MP1A | X | 1.705 | 3.17 |
| 17 | MP1A | Z | -2.952 | 3.17 |
| 18 | MP1A | Mx | -.000853 | 3.17 |
| 19 | M50 | X | 3.167 | 1.5 |
| 20 | M50 | Z | -5.486 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 1.512 | 2.17 |
| 23 | MP3A | Z | -2.619 | 2.17 |
| 24 | MP3A | Mx | .000756 | 2.17 |
| 25 | MP2A | X | 1.829 | 2.17 |
| 26 | MP2A | Z | -3.169 | 2.17 |
| 27 | MP2A | Mx | .000914 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP3A | X | 3.532 | 1.33 |
| 2 | MP3A | Z | -2.039 | 1.33 |
| 3 | MP3A | Mx | -.005 | 1.33 |
| 4 | MP3A | X | 3.532 | 4.83 |
| 5 | MP3A | Z | -2.039 | 4.83 |
| 6 | MP3A | Mx | -.005 | 4.83 |
| 7 | MP3A | X | 3.532 | 1.33 |
| 8 | MP3A | Z | -2.039 | 1.33 |
| 9 | MP3A | Mx | -.002 | 1.33 |
| 10 | MP3A | X | 3.532 | 4.83 |
| 11 | MP3A | Z | -2.039 | 4.83 |
| 12 | MP3A | Mx | -.002 | 4.83 |
| 13 | MP1A | X | 1.88 | 1.17 |
| 14 | MP1A | Z | -1.085 | 1.17 |
| 15 | MP1A | Mx | -.00094 | 1.17 |
| 16 | MP1A | X | 1.88 | 3.17 |
| 17 | MP1A | Z | -1.085 | 3.17 |
| 18 | MP1A | Mx | -.00094 | 3.17 |
| 19 | M50 | X | 4.786 | 1.5 |
| 20 | M50 | Z | -2.763 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 2.149 | 2.17 |
| 23 | MP3A | Z | -1.241 | 2.17 |
| 24 | MP3A | Mx | .001 | 2.17 |
| 25 | MP2A | X | 2.621 | 2.17 |
| 26 | MP2A | Z | -1.513 | 2.17 |
| 27 | MP2A | Mx | .001 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|--|--------------|-----------|--------------------|-----------------|
|--|--------------|-----------|--------------------|-----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 3.763 | 1.33 |
| 2 | MP3A | Z | 0 | 1.33 |
| 3 | MP3A | Mx | -.003 | 1.33 |
| 4 | MP3A | X | 3.763 | 4.83 |
| 5 | MP3A | Z | 0 | 4.83 |
| 6 | MP3A | Mx | -.003 | 4.83 |
| 7 | MP3A | X | 3.763 | 1.33 |
| 8 | MP3A | Z | 0 | 1.33 |
| 9 | MP3A | Mx | -.003 | 1.33 |
| 10 | MP3A | X | 3.763 | 4.83 |
| 11 | MP3A | Z | 0 | 4.83 |
| 12 | MP3A | Mx | -.003 | 4.83 |
| 13 | MP1A | X | 1.551 | 1.17 |
| 14 | MP1A | Z | 0 | 1.17 |
| 15 | MP1A | Mx | -.000775 | 1.17 |
| 16 | MP1A | X | 1.551 | 3.17 |
| 17 | MP1A | Z | 0 | 3.17 |
| 18 | MP1A | Mx | -.000775 | 3.17 |
| 19 | M50 | X | 5.123 | 1.5 |
| 20 | M50 | Z | 0 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 2.211 | 2.17 |
| 23 | MP3A | Z | 0 | 2.17 |
| 24 | MP3A | Mx | .001 | 2.17 |
| 25 | MP2A | X | 2.71 | 2.17 |
| 26 | MP2A | Z | 0 | 2.17 |
| 27 | MP2A | Mx | .001 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | 3.532 | 1.33 |
| 2 | MP3A | Z | 2.039 | 1.33 |
| 3 | MP3A | Mx | -.002 | 1.33 |
| 4 | MP3A | X | 3.532 | 4.83 |
| 5 | MP3A | Z | 2.039 | 4.83 |
| 6 | MP3A | Mx | -.002 | 4.83 |
| 7 | MP3A | X | 3.532 | 1.33 |
| 8 | MP3A | Z | 2.039 | 1.33 |
| 9 | MP3A | Mx | -.005 | 1.33 |
| 10 | MP3A | X | 3.532 | 4.83 |
| 11 | MP3A | Z | 2.039 | 4.83 |
| 12 | MP3A | Mx | -.005 | 4.83 |
| 13 | MP1A | X | 1.88 | 1.17 |
| 14 | MP1A | Z | 1.085 | 1.17 |
| 15 | MP1A | Mx | -.00094 | 1.17 |
| 16 | MP1A | X | 1.88 | 3.17 |
| 17 | MP1A | Z | 1.085 | 3.17 |
| 18 | MP1A | Mx | -.00094 | 3.17 |
| 19 | M50 | X | 4.786 | 1.5 |
| 20 | M50 | Z | 2.763 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 2.149 | 2.17 |
| 23 | MP3A | Z | 1.241 | 2.17 |
| 24 | MP3A | Mx | .001 | 2.17 |
| 25 | MP2A | X | 2.621 | 2.17 |
| 26 | MP2A | Z | 1.513 | 2.17 |
| 27 | MP2A | Mx | .001 | 2.17 |

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

| Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--------------|-----------|--------------------|----------------|
|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP3A | X | 2.356 | 1.33 |
| 2 | MP3A | Z | 4.08 | 1.33 |
| 3 | MP3A | Mx | .001 | 1.33 |
| 4 | MP3A | X | 2.356 | 4.83 |
| 5 | MP3A | Z | 4.08 | 4.83 |
| 6 | MP3A | Mx | .001 | 4.83 |
| 7 | MP3A | X | 2.356 | 1.33 |
| 8 | MP3A | Z | 4.08 | 1.33 |
| 9 | MP3A | Mx | -.006 | 1.33 |
| 10 | MP3A | X | 2.356 | 4.83 |
| 11 | MP3A | Z | 4.08 | 4.83 |
| 12 | MP3A | Mx | -.006 | 4.83 |
| 13 | MP1A | X | 1.705 | 1.17 |
| 14 | MP1A | Z | 2.952 | 1.17 |
| 15 | MP1A | Mx | -.000853 | 1.17 |
| 16 | MP1A | X | 1.705 | 3.17 |
| 17 | MP1A | Z | 2.952 | 3.17 |
| 18 | MP1A | Mx | -.000853 | 3.17 |
| 19 | M50 | X | 3.167 | 1.5 |
| 20 | M50 | Z | 5.486 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 1.512 | 2.17 |
| 23 | MP3A | Z | 2.619 | 2.17 |
| 24 | MP3A | Mx | .000756 | 2.17 |
| 25 | MP2A | X | 1.829 | 2.17 |
| 26 | MP2A | Z | 3.169 | 2.17 |
| 27 | MP2A | Mx | .000914 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP3A | X | 0 | 1.33 |
| 2 | MP3A | Z | 5.027 | 1.33 |
| 3 | MP3A | Mx | .004 | 1.33 |
| 4 | MP3A | X | 0 | 4.83 |
| 5 | MP3A | Z | 5.027 | 4.83 |
| 6 | MP3A | Mx | .004 | 4.83 |
| 7 | MP3A | X | 0 | 1.33 |
| 8 | MP3A | Z | 5.027 | 1.33 |
| 9 | MP3A | Mx | -.004 | 1.33 |
| 10 | MP3A | X | 0 | 4.83 |
| 11 | MP3A | Z | 5.027 | 4.83 |
| 12 | MP3A | Mx | -.004 | 4.83 |
| 13 | MP1A | X | 0 | 1.17 |
| 14 | MP1A | Z | 4.028 | 1.17 |
| 15 | MP1A | Mx | 0 | 1.17 |
| 16 | MP1A | X | 0 | 3.17 |
| 17 | MP1A | Z | 4.028 | 3.17 |
| 18 | MP1A | Mx | 0 | 3.17 |
| 19 | M50 | X | 0 | 1.5 |
| 20 | M50 | Z | 6.739 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | 0 | 2.17 |
| 23 | MP3A | Z | 3.295 | 2.17 |
| 24 | MP3A | Mx | 0 | 2.17 |
| 25 | MP2A | X | 0 | 2.17 |
| 26 | MP2A | Z | 3.975 | 2.17 |
| 27 | MP2A | Mx | 0 | 2.17 |

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

| Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|--------------|-----------|--------------------|-----------------|
|--------------|-----------|--------------------|-----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -2.356 | 1.33 |
| 2 | MP3A | Z | 4.08 | 1.33 |
| 3 | MP3A | Mx | .006 | 1.33 |
| 4 | MP3A | X | -2.356 | 4.83 |
| 5 | MP3A | Z | 4.08 | 4.83 |
| 6 | MP3A | Mx | .006 | 4.83 |
| 7 | MP3A | X | -2.356 | 1.33 |
| 8 | MP3A | Z | 4.08 | 1.33 |
| 9 | MP3A | Mx | -.001 | 1.33 |
| 10 | MP3A | X | -2.356 | 4.83 |
| 11 | MP3A | Z | 4.08 | 4.83 |
| 12 | MP3A | Mx | -.001 | 4.83 |
| 13 | MP1A | X | -1.705 | 1.17 |
| 14 | MP1A | Z | 2.952 | 1.17 |
| 15 | MP1A | Mx | .000853 | 1.17 |
| 16 | MP1A | X | -1.705 | 3.17 |
| 17 | MP1A | Z | 2.952 | 3.17 |
| 18 | MP1A | Mx | .000853 | 3.17 |
| 19 | M50 | X | -3.167 | 1.5 |
| 20 | M50 | Z | 5.486 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -1.512 | 2.17 |
| 23 | MP3A | Z | 2.619 | 2.17 |
| 24 | MP3A | Mx | -.000756 | 2.17 |
| 25 | MP2A | X | -1.829 | 2.17 |
| 26 | MP2A | Z | 3.169 | 2.17 |
| 27 | MP2A | Mx | -.000914 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -3.532 | 1.33 |
| 2 | MP3A | Z | 2.039 | 1.33 |
| 3 | MP3A | Mx | .005 | 1.33 |
| 4 | MP3A | X | -3.532 | 4.83 |
| 5 | MP3A | Z | 2.039 | 4.83 |
| 6 | MP3A | Mx | .005 | 4.83 |
| 7 | MP3A | X | -3.532 | 1.33 |
| 8 | MP3A | Z | 2.039 | 1.33 |
| 9 | MP3A | Mx | .002 | 1.33 |
| 10 | MP3A | X | -3.532 | 4.83 |
| 11 | MP3A | Z | 2.039 | 4.83 |
| 12 | MP3A | Mx | .002 | 4.83 |
| 13 | MP1A | X | -1.88 | 1.17 |
| 14 | MP1A | Z | 1.085 | 1.17 |
| 15 | MP1A | Mx | .00094 | 1.17 |
| 16 | MP1A | X | -1.88 | 3.17 |
| 17 | MP1A | Z | 1.085 | 3.17 |
| 18 | MP1A | Mx | .00094 | 3.17 |
| 19 | M50 | X | -4.786 | 1.5 |
| 20 | M50 | Z | 2.763 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -2.149 | 2.17 |
| 23 | MP3A | Z | 1.241 | 2.17 |
| 24 | MP3A | Mx | -.001 | 2.17 |
| 25 | MP2A | X | -2.621 | 2.17 |
| 26 | MP2A | Z | 1.513 | 2.17 |
| 27 | MP2A | Mx | -.001 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -3.763 | 1.33 |
| 2 | MP3A | Z | 0 | 1.33 |
| 3 | MP3A | Mx | .003 | 1.33 |
| 4 | MP3A | X | -3.763 | 4.83 |
| 5 | MP3A | Z | 0 | 4.83 |
| 6 | MP3A | Mx | .003 | 4.83 |
| 7 | MP3A | X | -3.763 | 1.33 |
| 8 | MP3A | Z | 0 | 1.33 |
| 9 | MP3A | Mx | .003 | 1.33 |
| 10 | MP3A | X | -3.763 | 4.83 |
| 11 | MP3A | Z | 0 | 4.83 |
| 12 | MP3A | Mx | .003 | 4.83 |
| 13 | MP1A | X | -1.551 | 1.17 |
| 14 | MP1A | Z | 0 | 1.17 |
| 15 | MP1A | Mx | .000775 | 1.17 |
| 16 | MP1A | X | -1.551 | 3.17 |
| 17 | MP1A | Z | 0 | 3.17 |
| 18 | MP1A | Mx | .000775 | 3.17 |
| 19 | M50 | X | -5.123 | 1.5 |
| 20 | M50 | Z | 0 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -2.211 | 2.17 |
| 23 | MP3A | Z | 0 | 2.17 |
| 24 | MP3A | Mx | -.001 | 2.17 |
| 25 | MP2A | X | -2.71 | 2.17 |
| 26 | MP2A | Z | 0 | 2.17 |
| 27 | MP2A | Mx | -.001 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -3.532 | 1.33 |
| 2 | MP3A | Z | -2.039 | 1.33 |
| 3 | MP3A | Mx | .002 | 1.33 |
| 4 | MP3A | X | -3.532 | 4.83 |
| 5 | MP3A | Z | -2.039 | 4.83 |
| 6 | MP3A | Mx | .002 | 4.83 |
| 7 | MP3A | X | -3.532 | 1.33 |
| 8 | MP3A | Z | -2.039 | 1.33 |
| 9 | MP3A | Mx | .005 | 1.33 |
| 10 | MP3A | X | -3.532 | 4.83 |
| 11 | MP3A | Z | -2.039 | 4.83 |
| 12 | MP3A | Mx | .005 | 4.83 |
| 13 | MP1A | X | -1.88 | 1.17 |
| 14 | MP1A | Z | -1.085 | 1.17 |
| 15 | MP1A | Mx | .00094 | 1.17 |
| 16 | MP1A | X | -1.88 | 3.17 |
| 17 | MP1A | Z | -1.085 | 3.17 |
| 18 | MP1A | Mx | .00094 | 3.17 |
| 19 | M50 | X | -4.786 | 1.5 |
| 20 | M50 | Z | -2.763 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -2.149 | 2.17 |
| 23 | MP3A | Z | -1.241 | 2.17 |
| 24 | MP3A | Mx | -.001 | 2.17 |
| 25 | MP2A | X | -2.621 | 2.17 |
| 26 | MP2A | Z | -1.513 | 2.17 |
| 27 | MP2A | Mx | -.001 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|--|--------------|-----------|--------------------|----------------|
|--|--------------|-----------|--------------------|----------------|

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | X | -2.356 | 1.33 |
| 2 | MP3A | Z | -4.08 | 1.33 |
| 3 | MP3A | Mx | -.001 | 1.33 |
| 4 | MP3A | X | -2.356 | 4.83 |
| 5 | MP3A | Z | -4.08 | 4.83 |
| 6 | MP3A | Mx | -.001 | 4.83 |
| 7 | MP3A | X | -2.356 | 1.33 |
| 8 | MP3A | Z | -4.08 | 1.33 |
| 9 | MP3A | Mx | .006 | 1.33 |
| 10 | MP3A | X | -2.356 | 4.83 |
| 11 | MP3A | Z | -4.08 | 4.83 |
| 12 | MP3A | Mx | .006 | 4.83 |
| 13 | MP1A | X | -1.705 | 1.17 |
| 14 | MP1A | Z | -2.952 | 1.17 |
| 15 | MP1A | Mx | .000853 | 1.17 |
| 16 | MP1A | X | -1.705 | 3.17 |
| 17 | MP1A | Z | -2.952 | 3.17 |
| 18 | MP1A | Mx | .000853 | 3.17 |
| 19 | M50 | X | -3.167 | 1.5 |
| 20 | M50 | Z | -5.486 | 1.5 |
| 21 | M50 | Mx | 0 | 1.5 |
| 22 | MP3A | X | -1.512 | 2.17 |
| 23 | MP3A | Z | -2.619 | 2.17 |
| 24 | MP3A | Mx | -.000756 | 2.17 |
| 25 | MP2A | X | -1.829 | 2.17 |
| 26 | MP2A | Z | -3.169 | 2.17 |
| 27 | MP2A | Mx | -.000914 | 2.17 |

Member Point Loads (BLC 77 : Lm1)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M10 | Y | -500 | %98.13 |

Member Point Loads (BLC 78 : Lm2)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M10 | Y | -500 | %45 |

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft.%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP3A | Y | -.972 | 1.33 |
| 2 | MP3A | My | -.000891 | 1.33 |
| 3 | MP3A | Mz | .00081 | 1.33 |
| 4 | MP3A | Y | -.972 | 4.83 |
| 5 | MP3A | My | -.000891 | 4.83 |
| 6 | MP3A | Mz | .00081 | 4.83 |
| 7 | MP3A | Y | -.972 | 1.33 |
| 8 | MP3A | My | -.000891 | 1.33 |
| 9 | MP3A | Mz | -.00081 | 1.33 |
| 10 | MP3A | Y | -.972 | 4.83 |
| 11 | MP3A | My | -.000891 | 4.83 |
| 12 | MP3A | Mz | -.00081 | 4.83 |
| 13 | MP1A | Y | -1.21 | 1.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 14 | MP1A | My | -.000605 | 1.17 |
| 15 | MP1A | Mz | 0 | 1.17 |
| 16 | MP1A | Y | -1.21 | 3.17 |
| 17 | MP1A | Mv | -.000605 | 3.17 |
| 18 | MP1A | Mz | 0 | 3.17 |
| 19 | M50 | Y | -1.352 | 1.5 |
| 20 | M50 | My | 0 | 1.5 |
| 21 | M50 | Mz | 0 | 1.5 |
| 22 | MP3A | Y | -3.155 | 2.17 |
| 23 | MP3A | Mv | .002 | 2.17 |
| 24 | MP3A | Mz | 0 | 2.17 |
| 25 | MP2A | Y | -3.341 | 2.17 |
| 26 | MP2A | My | .002 | 2.17 |
| 27 | MP2A | Mz | 0 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP3A | Z | -2.429 | 1.33 |
| 2 | MP3A | Mx | -.002 | 1.33 |
| 3 | MP3A | Z | -2.429 | 4.83 |
| 4 | MP3A | Mx | -.002 | 4.83 |
| 5 | MP3A | Z | -2.429 | 1.33 |
| 6 | MP3A | Mx | .002 | 1.33 |
| 7 | MP3A | Z | -2.429 | 4.83 |
| 8 | MP3A | Mx | .002 | 4.83 |
| 9 | MP1A | Z | -3.025 | 1.17 |
| 10 | MP1A | Mx | 0 | 1.17 |
| 11 | MP1A | Z | -3.025 | 3.17 |
| 12 | MP1A | Mx | 0 | 3.17 |
| 13 | M50 | Z | -3.379 | 1.5 |
| 14 | M50 | Mx | 0 | 1.5 |
| 15 | MP3A | Z | -7.888 | 2.17 |
| 16 | MP3A | Mx | 0 | 2.17 |
| 17 | MP2A | Z | -8.353 | 2.17 |
| 18 | MP2A | Mx | 0 | 2.17 |

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

| | Member Label | Direction | Magnitude[lb.k-ft] | Location[ft. %] |
|----|--------------|-----------|--------------------|-----------------|
| 1 | MP3A | X | 2.429 | 1.33 |
| 2 | MP3A | Mx | -.002 | 1.33 |
| 3 | MP3A | X | 2.429 | 4.83 |
| 4 | MP3A | Mx | -.002 | 4.83 |
| 5 | MP3A | X | 2.429 | 1.33 |
| 6 | MP3A | Mx | -.002 | 1.33 |
| 7 | MP3A | X | 2.429 | 4.83 |
| 8 | MP3A | Mx | -.002 | 4.83 |
| 9 | MP1A | X | 3.025 | 1.17 |
| 10 | MP1A | Mx | -.002 | 1.17 |
| 11 | MP1A | X | 3.025 | 3.17 |
| 12 | MP1A | Mx | -.002 | 3.17 |
| 13 | M50 | X | 3.379 | 1.5 |
| 14 | M50 | Mx | 0 | 1.5 |
| 15 | MP3A | X | 7.888 | 2.17 |
| 16 | MP3A | Mx | .004 | 2.17 |
| 17 | MP2A | X | 8.353 | 2.17 |
| 18 | MP2A | Mx | .004 | 2.17 |

Joint Loads and Enforced Displacements

| Joint Label | L.D.M | Direction | Magnitude[(lb.k-ft), (in.rad), (lb*s^2/ft, lb*s^2/ft)] |
|----------------------|-------|-----------|--|
| No Data to Print ... | | | |

Member Distributed Loads (BLC 40 : Structure Di)

| | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 1 | M5 | Y | -7.319 | -7.319 | 0 | %100 |
| 2 | M6 | Y | -7.319 | -7.319 | 0 | %100 |
| 3 | M7 | Y | -5.687 | -5.687 | 0 | %100 |
| 4 | M8 | Y | -7.319 | -7.319 | 0 | %100 |
| 5 | M9 | Y | -7.319 | -7.319 | 0 | %100 |
| 6 | M10 | Y | -5.687 | -5.687 | 0 | %100 |
| 7 | M11 | Y | -4.982 | -4.982 | 0 | %100 |
| 8 | M12 | Y | -4.982 | -4.982 | 0 | %100 |
| 9 | M13 | Y | -4.982 | -4.982 | 0 | %100 |
| 10 | M14 | Y | -4.982 | -4.982 | 0 | %100 |
| 11 | M15 | Y | -5.896 | -5.896 | 0 | %100 |
| 12 | M16 | Y | -4.311 | -4.311 | 0 | %100 |
| 13 | M17 | Y | -5.896 | -5.896 | 0 | %100 |
| 14 | M18 | Y | -4.311 | -4.311 | 0 | %100 |
| 15 | M19 | Y | -5.896 | -5.896 | 0 | %100 |
| 16 | M20 | Y | -5.896 | -5.896 | 0 | %100 |
| 17 | M21 | Y | -5.896 | -5.896 | 0 | %100 |
| 18 | M22 | Y | -4.311 | -4.311 | 0 | %100 |
| 19 | M23 | Y | -4.311 | -4.311 | 0 | %100 |
| 20 | M24 | Y | -3.973 | -3.973 | 0 | %100 |
| 21 | M25 | Y | -5.896 | -5.896 | 0 | %100 |
| 22 | M26 | Y | -5.896 | -5.896 | 0 | %100 |
| 23 | M27 | Y | -4.311 | -4.311 | 0 | %100 |
| 24 | M28 | Y | -5.896 | -5.896 | 0 | %100 |
| 25 | M29 | Y | -4.311 | -4.311 | 0 | %100 |
| 26 | M30 | Y | -5.896 | -5.896 | 0 | %100 |
| 27 | M31 | Y | -5.896 | -5.896 | 0 | %100 |
| 28 | M32 | Y | -5.896 | -5.896 | 0 | %100 |
| 29 | M33 | Y | -4.311 | -4.311 | 0 | %100 |
| 30 | M34 | Y | -4.311 | -4.311 | 0 | %100 |
| 31 | M35 | Y | -3.973 | -3.973 | 0 | %100 |
| 32 | M36 | Y | -5.896 | -5.896 | 0 | %100 |
| 33 | MP4A | Y | -4.982 | -4.982 | 0 | %100 |
| 34 | MP3A | Y | -4.982 | -4.982 | 0 | %100 |
| 35 | MP1A | Y | -4.982 | -4.982 | 0 | %100 |
| 36 | M46 | Y | -6.569 | -6.569 | 0 | %100 |
| 37 | MP2A | Y | -4.982 | -4.982 | 0 | %100 |
| 38 | M50 | Y | -4.982 | -4.982 | 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[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 1 | M5 | X | 0 | 0 | 0 | %100 |
| 2 | M5 | Z | -.905 | -.905 | 0 | %100 |
| 3 | M6 | X | 0 | 0 | 0 | %100 |
| 4 | M6 | Z | -.905 | -.905 | 0 | %100 |
| 5 | M7 | X | 0 | 0 | 0 | %100 |
| 6 | M7 | Z | -10.61 | -10.61 | 0 | %100 |
| 7 | M8 | X | 0 | 0 | 0 | %100 |
| 8 | M8 | Z | -.905 | -.905 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | 0 | %100 |
| 10 | M9 | Z | -.905 | -.905 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | 0 | %100 |
| 12 | M10 | Z | -10.61 | -10.61 | 0 | %100 |
| 13 | M11 | X | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude(lb/ft.F.ksf) | End Magnitude(lb/ft.F.ksf) | Start Locationft. | End Locationft. |
|----|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 14 | M11 | Z | -4.299 | -4.299 | 0 | %100 |
| 15 | M12 | X | 0 | 0 | 0 | %100 |
| 16 | M12 | Z | -4.299 | -4.299 | 0 | %100 |
| 17 | M13 | X | 0 | 0 | 0 | %100 |
| 18 | M13 | Z | -4.299 | -4.299 | 0 | %100 |
| 19 | M14 | X | 0 | 0 | 0 | %100 |
| 20 | M14 | Z | -4.299 | -4.299 | 0 | %100 |
| 21 | M15 | X | 0 | 0 | 0 | %100 |
| 22 | M15 | Z | -1.461 | -1.461 | 0 | %100 |
| 23 | M16 | X | 0 | 0 | 0 | %100 |
| 24 | M16 | Z | -5.781 | -5.781 | 0 | %100 |
| 25 | M17 | X | 0 | 0 | 0 | %100 |
| 26 | M17 | Z | -1.461 | -1.461 | 0 | %100 |
| 27 | M18 | X | 0 | 0 | 0 | %100 |
| 28 | M18 | Z | -5.492 | -5.492 | 0 | %100 |
| 29 | M19 | X | 0 | 0 | 0 | %100 |
| 30 | M19 | Z | -1.961 | -1.961 | 0 | %100 |
| 31 | M20 | X | 0 | 0 | 0 | %100 |
| 32 | M20 | Z | -1.461 | -1.461 | 0 | %100 |
| 33 | M21 | X | 0 | 0 | 0 | %100 |
| 34 | M21 | Z | -1.461 | -1.461 | 0 | %100 |
| 35 | M22 | X | 0 | 0 | 0 | %100 |
| 36 | M22 | Z | -6.499 | -6.499 | 0 | %100 |
| 37 | M23 | X | 0 | 0 | 0 | %100 |
| 38 | M23 | Z | -6.499 | -6.499 | 0 | %100 |
| 39 | M24 | X | 0 | 0 | 0 | %100 |
| 40 | M24 | Z | -5.409 | -5.409 | 0 | %100 |
| 41 | M25 | X | 0 | 0 | 0 | %100 |
| 42 | M25 | Z | -1.961 | -1.961 | 0 | %100 |
| 43 | M26 | X | 0 | 0 | 0 | %100 |
| 44 | M26 | Z | -1.461 | -1.461 | 0 | %100 |
| 45 | M27 | X | 0 | 0 | 0 | %100 |
| 46 | M27 | Z | -5.781 | -5.781 | 0 | %100 |
| 47 | M28 | X | 0 | 0 | 0 | %100 |
| 48 | M28 | Z | -1.461 | -1.461 | 0 | %100 |
| 49 | M29 | X | 0 | 0 | 0 | %100 |
| 50 | M29 | Z | -5.492 | -5.492 | 0 | %100 |
| 51 | M30 | X | 0 | 0 | 0 | %100 |
| 52 | M30 | Z | -1.961 | -1.961 | 0 | %100 |
| 53 | M31 | X | 0 | 0 | 0 | %100 |
| 54 | M31 | Z | -1.461 | -1.461 | 0 | %100 |
| 55 | M32 | X | 0 | 0 | 0 | %100 |
| 56 | M32 | Z | -1.461 | -1.461 | 0 | %100 |
| 57 | M33 | X | 0 | 0 | 0 | %100 |
| 58 | M33 | Z | -6.499 | -6.499 | 0 | %100 |
| 59 | M34 | X | 0 | 0 | 0 | %100 |
| 60 | M34 | Z | -6.499 | -6.499 | 0 | %100 |
| 61 | M35 | X | 0 | 0 | 0 | %100 |
| 62 | M35 | Z | -5.409 | -5.409 | 0 | %100 |
| 63 | M36 | X | 0 | 0 | 0 | %100 |
| 64 | M36 | Z | -1.961 | -1.961 | 0 | %100 |
| 65 | MP4A | X | 0 | 0 | 0 | %100 |
| 66 | MP4A | Z | -8.765 | -8.765 | 0 | %100 |
| 67 | MP3A | X | 0 | 0 | 0 | %100 |
| 68 | MP3A | Z | -8.765 | -8.765 | 0 | %100 |
| 69 | MP1A | X | 0 | 0 | 0 | %100 |
| 70 | MP1A | Z | -8.765 | -8.765 | 0 | %100 |
| 71 | M46 | X | 0 | 0 | 0 | %100 |
| 72 | M46 | Z | -0.978 | -0.978 | 0 | %100 |
| 73 | MP2A | X | 0 | 0 | 0 | %100 |
| 74 | MP2A | Z | -8.765 | -8.765 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 75 | M50 | X | 0 | 0 | 0 | %100 |
| 76 | M50 | Z | -8.765 | -8.765 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 1 | M5 | X | .057 | .057 | 0 | %100 |
| 2 | M5 | Z | -.1 | -.1 | 0 | %100 |
| 3 | M6 | X | .856 | .856 | 0 | %100 |
| 4 | M6 | Z | -1.483 | -1.483 | 0 | %100 |
| 5 | M7 | X | 3.979 | 3.979 | 0 | %100 |
| 6 | M7 | Z | -6.892 | -6.892 | 0 | %100 |
| 7 | M8 | X | .057 | .057 | 0 | %100 |
| 8 | M8 | Z | -.1 | -.1 | 0 | %100 |
| 9 | M9 | X | .856 | .856 | 0 | %100 |
| 10 | M9 | Z | -1.483 | -1.483 | 0 | %100 |
| 11 | M10 | X | 3.979 | 3.979 | 0 | %100 |
| 12 | M10 | Z | -6.892 | -6.892 | 0 | %100 |
| 13 | M11 | X | .273 | .273 | 0 | %100 |
| 14 | M11 | Z | -.473 | -.473 | 0 | %100 |
| 15 | M12 | X | 4.068 | 4.068 | 0 | %100 |
| 16 | M12 | Z | -7.045 | -7.045 | 0 | %100 |
| 17 | M13 | X | .273 | .273 | 0 | %100 |
| 18 | M13 | Z | -.473 | -.473 | 0 | %100 |
| 19 | M14 | X | 4.068 | 4.068 | 0 | %100 |
| 20 | M14 | Z | -7.045 | -7.045 | 0 | %100 |
| 21 | M15 | X | 1.932 | 1.932 | 0 | %100 |
| 22 | M15 | Z | -3.346 | -3.346 | 0 | %100 |
| 23 | M16 | X | 3.419 | 3.419 | 0 | %100 |
| 24 | M16 | Z | -5.922 | -5.922 | 0 | %100 |
| 25 | M17 | X | 1.932 | 1.932 | 0 | %100 |
| 26 | M17 | Z | -3.346 | -3.346 | 0 | %100 |
| 27 | M18 | X | 3.35 | 3.35 | 0 | %100 |
| 28 | M18 | Z | -5.803 | -5.803 | 0 | %100 |
| 29 | M19 | X | 2.119 | 2.119 | 0 | %100 |
| 30 | M19 | Z | -3.671 | -3.671 | 0 | %100 |
| 31 | M20 | X | 1.932 | 1.932 | 0 | %100 |
| 32 | M20 | Z | -3.346 | -3.346 | 0 | %100 |
| 33 | M21 | X | 1.932 | 1.932 | 0 | %100 |
| 34 | M21 | Z | -3.346 | -3.346 | 0 | %100 |
| 35 | M22 | X | 3.25 | 3.25 | 0 | %100 |
| 36 | M22 | Z | -5.629 | -5.629 | 0 | %100 |
| 37 | M23 | X | 3.25 | 3.25 | 0 | %100 |
| 38 | M23 | Z | -5.629 | -5.629 | 0 | %100 |
| 39 | M24 | X | 2.704 | 2.704 | 0 | %100 |
| 40 | M24 | Z | -4.684 | -4.684 | 0 | %100 |
| 41 | M25 | X | 2.119 | 2.119 | 0 | %100 |
| 42 | M25 | Z | -3.671 | -3.671 | 0 | %100 |
| 43 | M26 | X | 1.932 | 1.932 | 0 | %100 |
| 44 | M26 | Z | -3.346 | -3.346 | 0 | %100 |
| 45 | M27 | X | 2.373 | 2.373 | 0 | %100 |
| 46 | M27 | Z | -4.111 | -4.111 | 0 | %100 |
| 47 | M28 | X | 1.932 | 1.932 | 0 | %100 |
| 48 | M28 | Z | -3.346 | -3.346 | 0 | %100 |
| 49 | M29 | X | 2.155 | 2.155 | 0 | %100 |
| 50 | M29 | Z | -3.732 | -3.732 | 0 | %100 |
| 51 | M30 | X | 2.119 | 2.119 | 0 | %100 |
| 52 | M30 | Z | -3.671 | -3.671 | 0 | %100 |
| 53 | M31 | X | 1.932 | 1.932 | 0 | %100 |
| 54 | M31 | Z | -3.346 | -3.346 | 0 | %100 |
| 55 | M32 | X | 1.932 | 1.932 | 0 | %100 |
| 56 | M32 | Z | -3.346 | -3.346 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f.. | End Location[ft.. |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 57 | M33 | X | 3.25 | 3.25 | 0 | %100 |
| 58 | M33 | Z | -5.629 | -5.629 | 0 | %100 |
| 59 | M34 | X | 3.25 | 3.25 | 0 | %100 |
| 60 | M34 | Z | -5.629 | -5.629 | 0 | %100 |
| 61 | M35 | X | 2.704 | 2.704 | 0 | %100 |
| 62 | M35 | Z | -4.684 | -4.684 | 0 | %100 |
| 63 | M36 | X | 2.119 | 2.119 | 0 | %100 |
| 64 | M36 | Z | -3.671 | -3.671 | 0 | %100 |
| 65 | MP4A | X | 4.383 | 4.383 | 0 | %100 |
| 66 | MP4A | Z | -7.591 | -7.591 | 0 | %100 |
| 67 | MP3A | X | 4.383 | 4.383 | 0 | %100 |
| 68 | MP3A | Z | -7.591 | -7.591 | 0 | %100 |
| 69 | MP1A | X | 4.383 | 4.383 | 0 | %100 |
| 70 | MP1A | Z | -7.591 | -7.591 | 0 | %100 |
| 71 | M46 | X | .379 | .379 | 0 | %100 |
| 72 | M46 | Z | -.657 | -.657 | 0 | %100 |
| 73 | MP2A | X | 4.383 | 4.383 | 0 | %100 |
| 74 | MP2A | Z | -7.591 | -7.591 | 0 | %100 |
| 75 | M50 | X | 4.383 | 4.383 | 0 | %100 |
| 76 | M50 | Z | -7.591 | -7.591 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f.. | End Location[ft.. |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 1 | M5 | X | .115 | .115 | 0 | %100 |
| 2 | M5 | Z | -.066 | -.066 | 0 | %100 |
| 3 | M6 | X | 1.498 | 1.498 | 0 | %100 |
| 4 | M6 | Z | -.865 | -.865 | 0 | %100 |
| 5 | M7 | X | 2.297 | 2.297 | 0 | %100 |
| 6 | M7 | Z | -1.326 | -1.326 | 0 | %100 |
| 7 | M8 | X | .115 | .115 | 0 | %100 |
| 8 | M8 | Z | -.066 | -.066 | 0 | %100 |
| 9 | M9 | X | 1.498 | 1.498 | 0 | %100 |
| 10 | M9 | Z | -.865 | -.865 | 0 | %100 |
| 11 | M10 | X | 2.297 | 2.297 | 0 | %100 |
| 12 | M10 | Z | -1.326 | -1.326 | 0 | %100 |
| 13 | M11 | X | .545 | .545 | 0 | %100 |
| 14 | M11 | Z | -.315 | -.315 | 0 | %100 |
| 15 | M12 | X | 7.118 | 7.118 | 0 | %100 |
| 16 | M12 | Z | -4.109 | -4.109 | 0 | %100 |
| 17 | M13 | X | .545 | .545 | 0 | %100 |
| 18 | M13 | Z | -.315 | -.315 | 0 | %100 |
| 19 | M14 | X | 7.118 | 7.118 | 0 | %100 |
| 20 | M14 | Z | -4.109 | -4.109 | 0 | %100 |
| 21 | M15 | X | 7.507 | 7.507 | 0 | %100 |
| 22 | M15 | Z | -4.334 | -4.334 | 0 | %100 |
| 23 | M16 | X | 5.942 | 5.942 | 0 | %100 |
| 24 | M16 | Z | -3.431 | -3.431 | 0 | %100 |
| 25 | M17 | X | 7.507 | 7.507 | 0 | %100 |
| 26 | M17 | Z | -4.334 | -4.334 | 0 | %100 |
| 27 | M18 | X | 5.825 | 5.825 | 0 | %100 |
| 28 | M18 | Z | -3.363 | -3.363 | 0 | %100 |
| 29 | M19 | X | 7.616 | 7.616 | 0 | %100 |
| 30 | M19 | Z | -4.397 | -4.397 | 0 | %100 |
| 31 | M20 | X | 7.507 | 7.507 | 0 | %100 |
| 32 | M20 | Z | -4.334 | -4.334 | 0 | %100 |
| 33 | M21 | X | 7.507 | 7.507 | 0 | %100 |
| 34 | M21 | Z | -4.334 | -4.334 | 0 | %100 |
| 35 | M22 | X | 5.629 | 5.629 | 0 | %100 |
| 36 | M22 | Z | -3.25 | -3.25 | 0 | %100 |
| 37 | M23 | X | 5.629 | 5.629 | 0 | %100 |
| 38 | M23 | Z | -3.25 | -3.25 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationft. | End Locationft. |
|----|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 39 | M24 | X | 4.684 | 4.684 | 0 | %100 |
| 40 | M24 | Z | -2.704 | -2.704 | 0 | %100 |
| 41 | M25 | X | 7.616 | 7.616 | 0 | %100 |
| 42 | M25 | Z | -4.397 | -4.397 | 0 | %100 |
| 43 | M26 | X | 7.507 | 7.507 | 0 | %100 |
| 44 | M26 | Z | -4.334 | -4.334 | 0 | %100 |
| 45 | M27 | X | 4.131 | 4.131 | 0 | %100 |
| 46 | M27 | Z | -2.385 | -2.385 | 0 | %100 |
| 47 | M28 | X | 7.507 | 7.507 | 0 | %100 |
| 48 | M28 | Z | -4.334 | -4.334 | 0 | %100 |
| 49 | M29 | X | 3.755 | 3.755 | 0 | %100 |
| 50 | M29 | Z | -2.168 | -2.168 | 0 | %100 |
| 51 | M30 | X | 7.616 | 7.616 | 0 | %100 |
| 52 | M30 | Z | -4.397 | -4.397 | 0 | %100 |
| 53 | M31 | X | 7.507 | 7.507 | 0 | %100 |
| 54 | M31 | Z | -4.334 | -4.334 | 0 | %100 |
| 55 | M32 | X | 7.507 | 7.507 | 0 | %100 |
| 56 | M32 | Z | -4.334 | -4.334 | 0 | %100 |
| 57 | M33 | X | 5.629 | 5.629 | 0 | %100 |
| 58 | M33 | Z | -3.25 | -3.25 | 0 | %100 |
| 59 | M34 | X | 5.629 | 5.629 | 0 | %100 |
| 60 | M34 | Z | -3.25 | -3.25 | 0 | %100 |
| 61 | M35 | X | 4.684 | 4.684 | 0 | %100 |
| 62 | M35 | Z | -2.704 | -2.704 | 0 | %100 |
| 63 | M36 | X | 7.616 | 7.616 | 0 | %100 |
| 64 | M36 | Z | -4.397 | -4.397 | 0 | %100 |
| 65 | MP4A | X | 7.591 | 7.591 | 0 | %100 |
| 66 | MP4A | Z | -4.383 | -4.383 | 0 | %100 |
| 67 | MP3A | X | 7.591 | 7.591 | 0 | %100 |
| 68 | MP3A | Z | -4.383 | -4.383 | 0 | %100 |
| 69 | MP1A | X | 7.591 | 7.591 | 0 | %100 |
| 70 | MP1A | Z | -4.383 | -4.383 | 0 | %100 |
| 71 | M46 | X | 5.403 | 5.403 | 0 | %100 |
| 72 | M46 | Z | -3.119 | -3.119 | 0 | %100 |
| 73 | MP2A | X | 7.591 | 7.591 | 0 | %100 |
| 74 | MP2A | Z | -4.383 | -4.383 | 0 | %100 |
| 75 | M50 | X | 7.591 | 7.591 | 0 | %100 |
| 76 | M50 | Z | -4.383 | -4.383 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationft. | End Locationft. |
|----|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 1 | M5 | X | .94 | .94 | 0 | %100 |
| 2 | M5 | Z | 0 | 0 | 0 | %100 |
| 3 | M6 | X | .94 | .94 | 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 | .94 | .94 | 0 | %100 |
| 8 | M8 | Z | 0 | 0 | 0 | %100 |
| 9 | M9 | X | .94 | .94 | 0 | %100 |
| 10 | M9 | Z | 0 | 0 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | 0 | %100 |
| 12 | M10 | Z | 0 | 0 | 0 | %100 |
| 13 | M11 | X | 4.466 | 4.466 | 0 | %100 |
| 14 | M11 | Z | 0 | 0 | 0 | %100 |
| 15 | M12 | X | 4.466 | 4.466 | 0 | %100 |
| 16 | M12 | Z | 0 | 0 | 0 | %100 |
| 17 | M13 | X | 4.466 | 4.466 | 0 | %100 |
| 18 | M13 | Z | 0 | 0 | 0 | %100 |
| 19 | M14 | X | 4.466 | 4.466 | 0 | %100 |
| 20 | M14 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationf... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 21 | M15 | X | 11.072 | 11.072 | 0 | %100 |
| 22 | M15 | Z | 0 | 0 | 0 | %100 |
| 23 | M16 | X | 5.827 | 5.827 | 0 | %100 |
| 24 | M16 | Z | 0 | 0 | 0 | %100 |
| 25 | M17 | X | 11.072 | 11.072 | 0 | %100 |
| 26 | M17 | Z | 0 | 0 | 0 | %100 |
| 27 | M18 | X | 5.544 | 5.544 | 0 | %100 |
| 28 | M18 | Z | 0 | 0 | 0 | %100 |
| 29 | M19 | X | 11.072 | 11.072 | 0 | %100 |
| 30 | M19 | Z | 0 | 0 | 0 | %100 |
| 31 | M20 | X | 11.072 | 11.072 | 0 | %100 |
| 32 | M20 | Z | 0 | 0 | 0 | %100 |
| 33 | M21 | X | 11.072 | 11.072 | 0 | %100 |
| 34 | M21 | Z | 0 | 0 | 0 | %100 |
| 35 | M22 | X | 6.499 | 6.499 | 0 | %100 |
| 36 | M22 | Z | 0 | 0 | 0 | %100 |
| 37 | M23 | X | 6.499 | 6.499 | 0 | %100 |
| 38 | M23 | Z | 0 | 0 | 0 | %100 |
| 39 | M24 | X | 5.409 | 5.409 | 0 | %100 |
| 40 | M24 | Z | 0 | 0 | 0 | %100 |
| 41 | M25 | X | 11.072 | 11.072 | 0 | %100 |
| 42 | M25 | Z | 0 | 0 | 0 | %100 |
| 43 | M26 | X | 11.072 | 11.072 | 0 | %100 |
| 44 | M26 | Z | 0 | 0 | 0 | %100 |
| 45 | M27 | X | 5.827 | 5.827 | 0 | %100 |
| 46 | M27 | Z | 0 | 0 | 0 | %100 |
| 47 | M28 | X | 11.072 | 11.072 | 0 | %100 |
| 48 | M28 | Z | 0 | 0 | 0 | %100 |
| 49 | M29 | X | 5.544 | 5.544 | 0 | %100 |
| 50 | M29 | Z | 0 | 0 | 0 | %100 |
| 51 | M30 | X | 11.072 | 11.072 | 0 | %100 |
| 52 | M30 | Z | 0 | 0 | 0 | %100 |
| 53 | M31 | X | 11.072 | 11.072 | 0 | %100 |
| 54 | M31 | Z | 0 | 0 | 0 | %100 |
| 55 | M32 | X | 11.072 | 11.072 | 0 | %100 |
| 56 | M32 | Z | 0 | 0 | 0 | %100 |
| 57 | M33 | X | 6.499 | 6.499 | 0 | %100 |
| 58 | M33 | Z | 0 | 0 | 0 | %100 |
| 59 | M34 | X | 6.499 | 6.499 | 0 | %100 |
| 60 | M34 | Z | 0 | 0 | 0 | %100 |
| 61 | M35 | X | 5.409 | 5.409 | 0 | %100 |
| 62 | M35 | Z | 0 | 0 | 0 | %100 |
| 63 | M36 | X | 11.072 | 11.072 | 0 | %100 |
| 64 | M36 | Z | 0 | 0 | 0 | %100 |
| 65 | MP4A | X | 8.765 | 8.765 | 0 | %100 |
| 66 | MP4A | Z | 0 | 0 | 0 | %100 |
| 67 | MP3A | X | 8.765 | 8.765 | 0 | %100 |
| 68 | MP3A | Z | 0 | 0 | 0 | %100 |
| 69 | MP1A | X | 8.765 | 8.765 | 0 | %100 |
| 70 | MP1A | Z | 0 | 0 | 0 | %100 |
| 71 | M46 | X | 11.939 | 11.939 | 0 | %100 |
| 72 | M46 | Z | 0 | 0 | 0 | %100 |
| 73 | MP2A | X | 8.765 | 8.765 | 0 | %100 |
| 74 | MP2A | Z | 0 | 0 | 0 | %100 |
| 75 | M50 | X | 8.765 | 8.765 | 0 | %100 |
| 76 | M50 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationf... | End Locationft... |
|---|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 1 | M5 | X | 1.498 | 1.498 | 0 | %100 |
| 2 | M5 | Z | .865 | .865 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[ft.] | End Location[ft.] |
|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 3 | M6 | X | .115 | .115 | 0 %100 |
| 4 | M6 | Z | .066 | .066 | 0 %100 |
| 5 | M7 | X | 2.297 | 2.297 | 0 %100 |
| 6 | M7 | Z | 1.326 | 1.326 | 0 %100 |
| 7 | M8 | X | 1.498 | 1.498 | 0 %100 |
| 8 | M8 | Z | .865 | .865 | 0 %100 |
| 9 | M9 | X | .115 | .115 | 0 %100 |
| 10 | M9 | Z | .066 | .066 | 0 %100 |
| 11 | M10 | X | 2.297 | 2.297 | 0 %100 |
| 12 | M10 | Z | 1.326 | 1.326 | 0 %100 |
| 13 | M11 | X | 7.118 | 7.118 | 0 %100 |
| 14 | M11 | Z | 4.109 | 4.109 | 0 %100 |
| 15 | M12 | X | .545 | .545 | 0 %100 |
| 16 | M12 | Z | .315 | .315 | 0 %100 |
| 17 | M13 | X | 7.118 | 7.118 | 0 %100 |
| 18 | M13 | Z | 4.109 | 4.109 | 0 %100 |
| 19 | M14 | X | .545 | .545 | 0 %100 |
| 20 | M14 | Z | .315 | .315 | 0 %100 |
| 21 | M15 | X | 7.507 | 7.507 | 0 %100 |
| 22 | M15 | Z | 4.334 | 4.334 | 0 %100 |
| 23 | M16 | X | 4.131 | 4.131 | 0 %100 |
| 24 | M16 | Z | 2.385 | 2.385 | 0 %100 |
| 25 | M17 | X | 7.507 | 7.507 | 0 %100 |
| 26 | M17 | Z | 4.334 | 4.334 | 0 %100 |
| 27 | M18 | X | 3.755 | 3.755 | 0 %100 |
| 28 | M18 | Z | 2.168 | 2.168 | 0 %100 |
| 29 | M19 | X | 7.616 | 7.616 | 0 %100 |
| 30 | M19 | Z | 4.397 | 4.397 | 0 %100 |
| 31 | M20 | X | 7.507 | 7.507 | 0 %100 |
| 32 | M20 | Z | 4.334 | 4.334 | 0 %100 |
| 33 | M21 | X | 7.507 | 7.507 | 0 %100 |
| 34 | M21 | Z | 4.334 | 4.334 | 0 %100 |
| 35 | M22 | X | 5.629 | 5.629 | 0 %100 |
| 36 | M22 | Z | 3.25 | 3.25 | 0 %100 |
| 37 | M23 | X | 5.629 | 5.629 | 0 %100 |
| 38 | M23 | Z | 3.25 | 3.25 | 0 %100 |
| 39 | M24 | X | 4.684 | 4.684 | 0 %100 |
| 40 | M24 | Z | 2.704 | 2.704 | 0 %100 |
| 41 | M25 | X | 7.616 | 7.616 | 0 %100 |
| 42 | M25 | Z | 4.397 | 4.397 | 0 %100 |
| 43 | M26 | X | 7.507 | 7.507 | 0 %100 |
| 44 | M26 | Z | 4.334 | 4.334 | 0 %100 |
| 45 | M27 | X | 5.942 | 5.942 | 0 %100 |
| 46 | M27 | Z | 3.431 | 3.431 | 0 %100 |
| 47 | M28 | X | 7.507 | 7.507 | 0 %100 |
| 48 | M28 | Z | 4.334 | 4.334 | 0 %100 |
| 49 | M29 | X | 5.825 | 5.825 | 0 %100 |
| 50 | M29 | Z | 3.363 | 3.363 | 0 %100 |
| 51 | M30 | X | 7.616 | 7.616 | 0 %100 |
| 52 | M30 | Z | 4.397 | 4.397 | 0 %100 |
| 53 | M31 | X | 7.507 | 7.507 | 0 %100 |
| 54 | M31 | Z | 4.334 | 4.334 | 0 %100 |
| 55 | M32 | X | 7.507 | 7.507 | 0 %100 |
| 56 | M32 | Z | 4.334 | 4.334 | 0 %100 |
| 57 | M33 | X | 5.629 | 5.629 | 0 %100 |
| 58 | M33 | Z | 3.25 | 3.25 | 0 %100 |
| 59 | M34 | X | 5.629 | 5.629 | 0 %100 |
| 60 | M34 | Z | 3.25 | 3.25 | 0 %100 |
| 61 | M35 | X | 4.684 | 4.684 | 0 %100 |
| 62 | M35 | Z | 2.704 | 2.704 | 0 %100 |
| 63 | M36 | X | 7.616 | 7.616 | 0 %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationft. | End Locationft. |
|----|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 64 | M36 | Z | 4.397 | 4.397 | 0 | %100 |
| 65 | MP4A | X | 7.591 | 7.591 | 0 | %100 |
| 66 | MP4A | Z | 4.383 | 4.383 | 0 | %100 |
| 67 | MP3A | X | 7.591 | 7.591 | 0 | %100 |
| 68 | MP3A | Z | 4.383 | 4.383 | 0 | %100 |
| 69 | MP1A | X | 7.591 | 7.591 | 0 | %100 |
| 70 | MP1A | Z | 4.383 | 4.383 | 0 | %100 |
| 71 | M46 | X | 10.529 | 10.529 | 0 | %100 |
| 72 | M46 | Z | 6.079 | 6.079 | 0 | %100 |
| 73 | MP2A | X | 7.591 | 7.591 | 0 | %100 |
| 74 | MP2A | Z | 4.383 | 4.383 | 0 | %100 |
| 75 | M50 | X | 7.591 | 7.591 | 0 | %100 |
| 76 | M50 | Z | 4.383 | 4.383 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationft. | End Locationft. |
|----|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 1 | M5 | X | .856 | .856 | 0 | %100 |
| 2 | M5 | Z | 1.483 | 1.483 | 0 | %100 |
| 3 | M6 | X | .057 | .057 | 0 | %100 |
| 4 | M6 | Z | .1 | .1 | 0 | %100 |
| 5 | M7 | X | 3.979 | 3.979 | 0 | %100 |
| 6 | M7 | Z | 6.892 | 6.892 | 0 | %100 |
| 7 | M8 | X | .856 | .856 | 0 | %100 |
| 8 | M8 | Z | 1.483 | 1.483 | 0 | %100 |
| 9 | M9 | X | .057 | .057 | 0 | %100 |
| 10 | M9 | Z | .1 | .1 | 0 | %100 |
| 11 | M10 | X | 3.979 | 3.979 | 0 | %100 |
| 12 | M10 | Z | 6.892 | 6.892 | 0 | %100 |
| 13 | M11 | X | 4.068 | 4.068 | 0 | %100 |
| 14 | M11 | Z | 7.045 | 7.045 | 0 | %100 |
| 15 | M12 | X | .273 | .273 | 0 | %100 |
| 16 | M12 | Z | .473 | .473 | 0 | %100 |
| 17 | M13 | X | 4.068 | 4.068 | 0 | %100 |
| 18 | M13 | Z | 7.045 | 7.045 | 0 | %100 |
| 19 | M14 | X | .273 | .273 | 0 | %100 |
| 20 | M14 | Z | .473 | .473 | 0 | %100 |
| 21 | M15 | X | 1.932 | 1.932 | 0 | %100 |
| 22 | M15 | Z | 3.346 | 3.346 | 0 | %100 |
| 23 | M16 | X | 2.373 | 2.373 | 0 | %100 |
| 24 | M16 | Z | 4.111 | 4.111 | 0 | %100 |
| 25 | M17 | X | 1.932 | 1.932 | 0 | %100 |
| 26 | M17 | Z | 3.346 | 3.346 | 0 | %100 |
| 27 | M18 | X | 2.155 | 2.155 | 0 | %100 |
| 28 | M18 | Z | 3.732 | 3.732 | 0 | %100 |
| 29 | M19 | X | 2.119 | 2.119 | 0 | %100 |
| 30 | M19 | Z | 3.671 | 3.671 | 0 | %100 |
| 31 | M20 | X | 1.932 | 1.932 | 0 | %100 |
| 32 | M20 | Z | 3.346 | 3.346 | 0 | %100 |
| 33 | M21 | X | 1.932 | 1.932 | 0 | %100 |
| 34 | M21 | Z | 3.346 | 3.346 | 0 | %100 |
| 35 | M22 | X | 3.25 | 3.25 | 0 | %100 |
| 36 | M22 | Z | 5.629 | 5.629 | 0 | %100 |
| 37 | M23 | X | 3.25 | 3.25 | 0 | %100 |
| 38 | M23 | Z | 5.629 | 5.629 | 0 | %100 |
| 39 | M24 | X | 2.704 | 2.704 | 0 | %100 |
| 40 | M24 | Z | 4.684 | 4.684 | 0 | %100 |
| 41 | M25 | X | 2.119 | 2.119 | 0 | %100 |
| 42 | M25 | Z | 3.671 | 3.671 | 0 | %100 |
| 43 | M26 | X | 1.932 | 1.932 | 0 | %100 |
| 44 | M26 | Z | 3.346 | 3.346 | 0 | %100 |
| 45 | M27 | X | 3.419 | 3.419 | 0 | %100 |

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.] |
|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 46 | M27 | Z | 5.922 | 5.922 | 0 %100 |
| 47 | M28 | X | 1.932 | 1.932 | 0 %100 |
| 48 | M28 | Z | 3.346 | 3.346 | 0 %100 |
| 49 | M29 | X | 3.35 | 3.35 | 0 %100 |
| 50 | M29 | Z | 5.803 | 5.803 | 0 %100 |
| 51 | M30 | X | 2.119 | 2.119 | 0 %100 |
| 52 | M30 | Z | 3.671 | 3.671 | 0 %100 |
| 53 | M31 | X | 1.932 | 1.932 | 0 %100 |
| 54 | M31 | Z | 3.346 | 3.346 | 0 %100 |
| 55 | M32 | X | 1.932 | 1.932 | 0 %100 |
| 56 | M32 | Z | 3.346 | 3.346 | 0 %100 |
| 57 | M33 | X | 3.25 | 3.25 | 0 %100 |
| 58 | M33 | Z | 5.629 | 5.629 | 0 %100 |
| 59 | M34 | X | 3.25 | 3.25 | 0 %100 |
| 60 | M34 | Z | 5.629 | 5.629 | 0 %100 |
| 61 | M35 | X | 2.704 | 2.704 | 0 %100 |
| 62 | M35 | Z | 4.684 | 4.684 | 0 %100 |
| 63 | M36 | X | 2.119 | 2.119 | 0 %100 |
| 64 | M36 | Z | 3.671 | 3.671 | 0 %100 |
| 65 | MP4A | X | 4.383 | 4.383 | 0 %100 |
| 66 | MP4A | Z | 7.591 | 7.591 | 0 %100 |
| 67 | MP3A | X | 4.383 | 4.383 | 0 %100 |
| 68 | MP3A | Z | 7.591 | 7.591 | 0 %100 |
| 69 | MP1A | X | 4.383 | 4.383 | 0 %100 |
| 70 | MP1A | Z | 7.591 | 7.591 | 0 %100 |
| 71 | M46 | X | 3.339 | 3.339 | 0 %100 |
| 72 | M46 | Z | 5.783 | 5.783 | 0 %100 |
| 73 | MP2A | X | 4.383 | 4.383 | 0 %100 |
| 74 | MP2A | Z | 7.591 | 7.591 | 0 %100 |
| 75 | M50 | X | 4.383 | 4.383 | 0 %100 |
| 76 | M50 | Z | 7.591 | 7.591 | 0 %100 |

Member Distributed Loads (BLC 47 : Structure Wo (180 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 | .905 | .905 | 0 %100 |
| 3 | M6 | X | 0 | 0 | 0 %100 |
| 4 | M6 | Z | .905 | .905 | 0 %100 |
| 5 | M7 | X | 0 | 0 | 0 %100 |
| 6 | M7 | Z | 10.61 | 10.61 | 0 %100 |
| 7 | M8 | X | 0 | 0 | 0 %100 |
| 8 | M8 | Z | .905 | .905 | 0 %100 |
| 9 | M9 | X | 0 | 0 | 0 %100 |
| 10 | M9 | Z | .905 | .905 | 0 %100 |
| 11 | M10 | X | 0 | 0 | 0 %100 |
| 12 | M10 | Z | 10.61 | 10.61 | 0 %100 |
| 13 | M11 | X | 0 | 0 | 0 %100 |
| 14 | M11 | Z | 4.299 | 4.299 | 0 %100 |
| 15 | M12 | X | 0 | 0 | 0 %100 |
| 16 | M12 | Z | 4.299 | 4.299 | 0 %100 |
| 17 | M13 | X | 0 | 0 | 0 %100 |
| 18 | M13 | Z | 4.299 | 4.299 | 0 %100 |
| 19 | M14 | X | 0 | 0 | 0 %100 |
| 20 | M14 | Z | 4.299 | 4.299 | 0 %100 |
| 21 | M15 | X | 0 | 0 | 0 %100 |
| 22 | M15 | Z | 1.461 | 1.461 | 0 %100 |
| 23 | M16 | X | 0 | 0 | 0 %100 |
| 24 | M16 | Z | 5.781 | 5.781 | 0 %100 |
| 25 | M17 | X | 0 | 0 | 0 %100 |
| 26 | M17 | Z | 1.461 | 1.461 | 0 %100 |
| 27 | M18 | X | 0 | 0 | 0 %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationff | End Locationff |
|----|--------------|-----------|------------------------------|----------------------------|------------------|----------------|
| 28 | M18 | Z | 5.492 | 5.492 | 0 | %100 |
| 29 | M19 | X | 0 | 0 | 0 | %100 |
| 30 | M19 | Z | 1.961 | 1.961 | 0 | %100 |
| 31 | M20 | X | 0 | 0 | 0 | %100 |
| 32 | M20 | Z | 1.461 | 1.461 | 0 | %100 |
| 33 | M21 | X | 0 | 0 | 0 | %100 |
| 34 | M21 | Z | 1.461 | 1.461 | 0 | %100 |
| 35 | M22 | X | 0 | 0 | 0 | %100 |
| 36 | M22 | Z | 6.499 | 6.499 | 0 | %100 |
| 37 | M23 | X | 0 | 0 | 0 | %100 |
| 38 | M23 | Z | 6.499 | 6.499 | 0 | %100 |
| 39 | M24 | X | 0 | 0 | 0 | %100 |
| 40 | M24 | Z | 5.409 | 5.409 | 0 | %100 |
| 41 | M25 | X | 0 | 0 | 0 | %100 |
| 42 | M25 | Z | 1.961 | 1.961 | 0 | %100 |
| 43 | M26 | X | 0 | 0 | 0 | %100 |
| 44 | M26 | Z | 1.461 | 1.461 | 0 | %100 |
| 45 | M27 | X | 0 | 0 | 0 | %100 |
| 46 | M27 | Z | 5.781 | 5.781 | 0 | %100 |
| 47 | M28 | X | 0 | 0 | 0 | %100 |
| 48 | M28 | Z | 1.461 | 1.461 | 0 | %100 |
| 49 | M29 | X | 0 | 0 | 0 | %100 |
| 50 | M29 | Z | 5.492 | 5.492 | 0 | %100 |
| 51 | M30 | X | 0 | 0 | 0 | %100 |
| 52 | M30 | Z | 1.961 | 1.961 | 0 | %100 |
| 53 | M31 | X | 0 | 0 | 0 | %100 |
| 54 | M31 | Z | 1.461 | 1.461 | 0 | %100 |
| 55 | M32 | X | 0 | 0 | 0 | %100 |
| 56 | M32 | Z | 1.461 | 1.461 | 0 | %100 |
| 57 | M33 | X | 0 | 0 | 0 | %100 |
| 58 | M33 | Z | 6.499 | 6.499 | 0 | %100 |
| 59 | M34 | X | 0 | 0 | 0 | %100 |
| 60 | M34 | Z | 6.499 | 6.499 | 0 | %100 |
| 61 | M35 | X | 0 | 0 | 0 | %100 |
| 62 | M35 | Z | 5.409 | 5.409 | 0 | %100 |
| 63 | M36 | X | 0 | 0 | 0 | %100 |
| 64 | M36 | Z | 1.961 | 1.961 | 0 | %100 |
| 65 | MP4A | X | 0 | 0 | 0 | %100 |
| 66 | MP4A | Z | 8.765 | 8.765 | 0 | %100 |
| 67 | MP3A | X | 0 | 0 | 0 | %100 |
| 68 | MP3A | Z | 8.765 | 8.765 | 0 | %100 |
| 69 | MP1A | X | 0 | 0 | 0 | %100 |
| 70 | MP1A | Z | 8.765 | 8.765 | 0 | %100 |
| 71 | M46 | X | 0 | 0 | 0 | %100 |
| 72 | M46 | Z | .978 | .978 | 0 | %100 |
| 73 | MP2A | X | 0 | 0 | 0 | %100 |
| 74 | MP2A | Z | 8.765 | 8.765 | 0 | %100 |
| 75 | M50 | X | 0 | 0 | 0 | %100 |
| 76 | M50 | Z | 8.765 | 8.765 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationff | End Locationff |
|---|--------------|-----------|------------------------------|----------------------------|------------------|----------------|
| 1 | M5 | X | -.057 | -.057 | 0 | %100 |
| 2 | M5 | Z | .1 | .1 | 0 | %100 |
| 3 | M6 | X | -.856 | -.856 | 0 | %100 |
| 4 | M6 | Z | 1.483 | 1.483 | 0 | %100 |
| 5 | M7 | X | -3.979 | -3.979 | 0 | %100 |
| 6 | M7 | Z | 6.892 | 6.892 | 0 | %100 |
| 7 | M8 | X | -.057 | -.057 | 0 | %100 |
| 8 | M8 | Z | .1 | .1 | 0 | %100 |
| 9 | M9 | X | -.856 | -.856 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft,F,ksf] | End Magnitude[lb/ft,F,ksf] | Start Locationft. | End Locationft. |
|----|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 10 | M9 | Z | 1.483 | 1.483 | 0 | %100 |
| 11 | M10 | X | -3.979 | -3.979 | 0 | %100 |
| 12 | M10 | Z | 6.892 | 6.892 | 0 | %100 |
| 13 | M11 | X | -.273 | -.273 | 0 | %100 |
| 14 | M11 | Z | .473 | .473 | 0 | %100 |
| 15 | M12 | X | -4.068 | -4.068 | 0 | %100 |
| 16 | M12 | Z | 7.045 | 7.045 | 0 | %100 |
| 17 | M13 | X | -.273 | -.273 | 0 | %100 |
| 18 | M13 | Z | .473 | .473 | 0 | %100 |
| 19 | M14 | X | -4.068 | -4.068 | 0 | %100 |
| 20 | M14 | Z | 7.045 | 7.045 | 0 | %100 |
| 21 | M15 | X | -1.932 | -1.932 | 0 | %100 |
| 22 | M15 | Z | 3.346 | 3.346 | 0 | %100 |
| 23 | M16 | X | -3.419 | -3.419 | 0 | %100 |
| 24 | M16 | Z | 5.922 | 5.922 | 0 | %100 |
| 25 | M17 | X | -1.932 | -1.932 | 0 | %100 |
| 26 | M17 | Z | 3.346 | 3.346 | 0 | %100 |
| 27 | M18 | X | -3.35 | -3.35 | 0 | %100 |
| 28 | M18 | Z | 5.803 | 5.803 | 0 | %100 |
| 29 | M19 | X | -2.119 | -2.119 | 0 | %100 |
| 30 | M19 | Z | 3.671 | 3.671 | 0 | %100 |
| 31 | M20 | X | -1.932 | -1.932 | 0 | %100 |
| 32 | M20 | Z | 3.346 | 3.346 | 0 | %100 |
| 33 | M21 | X | -1.932 | -1.932 | 0 | %100 |
| 34 | M21 | Z | 3.346 | 3.346 | 0 | %100 |
| 35 | M22 | X | -3.25 | -3.25 | 0 | %100 |
| 36 | M22 | Z | 5.629 | 5.629 | 0 | %100 |
| 37 | M23 | X | -3.25 | -3.25 | 0 | %100 |
| 38 | M23 | Z | 5.629 | 5.629 | 0 | %100 |
| 39 | M24 | X | -2.704 | -2.704 | 0 | %100 |
| 40 | M24 | Z | 4.684 | 4.684 | 0 | %100 |
| 41 | M25 | X | -2.119 | -2.119 | 0 | %100 |
| 42 | M25 | Z | 3.671 | 3.671 | 0 | %100 |
| 43 | M26 | X | -1.932 | -1.932 | 0 | %100 |
| 44 | M26 | Z | 3.346 | 3.346 | 0 | %100 |
| 45 | M27 | X | -2.373 | -2.373 | 0 | %100 |
| 46 | M27 | Z | 4.111 | 4.111 | 0 | %100 |
| 47 | M28 | X | -1.932 | -1.932 | 0 | %100 |
| 48 | M28 | Z | 3.346 | 3.346 | 0 | %100 |
| 49 | M29 | X | -2.155 | -2.155 | 0 | %100 |
| 50 | M29 | Z | 3.732 | 3.732 | 0 | %100 |
| 51 | M30 | X | -2.119 | -2.119 | 0 | %100 |
| 52 | M30 | Z | 3.671 | 3.671 | 0 | %100 |
| 53 | M31 | X | -1.932 | -1.932 | 0 | %100 |
| 54 | M31 | Z | 3.346 | 3.346 | 0 | %100 |
| 55 | M32 | X | -1.932 | -1.932 | 0 | %100 |
| 56 | M32 | Z | 3.346 | 3.346 | 0 | %100 |
| 57 | M33 | X | -3.25 | -3.25 | 0 | %100 |
| 58 | M33 | Z | 5.629 | 5.629 | 0 | %100 |
| 59 | M34 | X | -3.25 | -3.25 | 0 | %100 |
| 60 | M34 | Z | 5.629 | 5.629 | 0 | %100 |
| 61 | M35 | X | -2.704 | -2.704 | 0 | %100 |
| 62 | M35 | Z | 4.684 | 4.684 | 0 | %100 |
| 63 | M36 | X | -2.119 | -2.119 | 0 | %100 |
| 64 | M36 | Z | 3.671 | 3.671 | 0 | %100 |
| 65 | MP4A | X | -4.383 | -4.383 | 0 | %100 |
| 66 | MP4A | Z | 7.591 | 7.591 | 0 | %100 |
| 67 | MP3A | X | -4.383 | -4.383 | 0 | %100 |
| 68 | MP3A | Z | 7.591 | 7.591 | 0 | %100 |
| 69 | MP1A | X | -4.383 | -4.383 | 0 | %100 |
| 70 | MP1A | Z | 7.591 | 7.591 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 71 | M46 | X | - .379 | - .379 | 0 | %100 |
| 72 | M46 | Z | .657 | .657 | 0 | %100 |
| 73 | MP2A | X | -4.383 | -4.383 | 0 | %100 |
| 74 | MP2A | Z | 7.591 | 7.591 | 0 | %100 |
| 75 | M50 | X | -4.383 | -4.383 | 0 | %100 |
| 76 | M50 | Z | 7.591 | 7.591 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 1 | M5 | X | - .115 | - .115 | 0 | %100 |
| 2 | M5 | Z | .066 | .066 | 0 | %100 |
| 3 | M6 | X | -1.498 | -1.498 | 0 | %100 |
| 4 | M6 | Z | .865 | .865 | 0 | %100 |
| 5 | M7 | X | -2.297 | -2.297 | 0 | %100 |
| 6 | M7 | Z | 1.326 | 1.326 | 0 | %100 |
| 7 | M8 | X | - .115 | - .115 | 0 | %100 |
| 8 | M8 | Z | .066 | .066 | 0 | %100 |
| 9 | M9 | X | -1.498 | -1.498 | 0 | %100 |
| 10 | M9 | Z | .865 | .865 | 0 | %100 |
| 11 | M10 | X | -2.297 | -2.297 | 0 | %100 |
| 12 | M10 | Z | 1.326 | 1.326 | 0 | %100 |
| 13 | M11 | X | - .545 | - .545 | 0 | %100 |
| 14 | M11 | Z | .315 | .315 | 0 | %100 |
| 15 | M12 | X | -7.118 | -7.118 | 0 | %100 |
| 16 | M12 | Z | 4.109 | 4.109 | 0 | %100 |
| 17 | M13 | X | - .545 | - .545 | 0 | %100 |
| 18 | M13 | Z | .315 | .315 | 0 | %100 |
| 19 | M14 | X | -7.118 | -7.118 | 0 | %100 |
| 20 | M14 | Z | 4.109 | 4.109 | 0 | %100 |
| 21 | M15 | X | -7.507 | -7.507 | 0 | %100 |
| 22 | M15 | Z | 4.334 | 4.334 | 0 | %100 |
| 23 | M16 | X | -5.942 | -5.942 | 0 | %100 |
| 24 | M16 | Z | 3.431 | 3.431 | 0 | %100 |
| 25 | M17 | X | -7.507 | -7.507 | 0 | %100 |
| 26 | M17 | Z | 4.334 | 4.334 | 0 | %100 |
| 27 | M18 | X | -5.825 | -5.825 | 0 | %100 |
| 28 | M18 | Z | 3.363 | 3.363 | 0 | %100 |
| 29 | M19 | X | -7.616 | -7.616 | 0 | %100 |
| 30 | M19 | Z | 4.397 | 4.397 | 0 | %100 |
| 31 | M20 | X | -7.507 | -7.507 | 0 | %100 |
| 32 | M20 | Z | 4.334 | 4.334 | 0 | %100 |
| 33 | M21 | X | -7.507 | -7.507 | 0 | %100 |
| 34 | M21 | Z | 4.334 | 4.334 | 0 | %100 |
| 35 | M22 | X | -5.629 | -5.629 | 0 | %100 |
| 36 | M22 | Z | 3.25 | 3.25 | 0 | %100 |
| 37 | M23 | X | -5.629 | -5.629 | 0 | %100 |
| 38 | M23 | Z | 3.25 | 3.25 | 0 | %100 |
| 39 | M24 | X | -4.684 | -4.684 | 0 | %100 |
| 40 | M24 | Z | 2.704 | 2.704 | 0 | %100 |
| 41 | M25 | X | -7.616 | -7.616 | 0 | %100 |
| 42 | M25 | Z | 4.397 | 4.397 | 0 | %100 |
| 43 | M26 | X | -7.507 | -7.507 | 0 | %100 |
| 44 | M26 | Z | 4.334 | 4.334 | 0 | %100 |
| 45 | M27 | X | -4.131 | -4.131 | 0 | %100 |
| 46 | M27 | Z | 2.385 | 2.385 | 0 | %100 |
| 47 | M28 | X | -7.507 | -7.507 | 0 | %100 |
| 48 | M28 | Z | 4.334 | 4.334 | 0 | %100 |
| 49 | M29 | X | -3.755 | -3.755 | 0 | %100 |
| 50 | M29 | Z | 2.168 | 2.168 | 0 | %100 |
| 51 | M30 | X | -7.616 | -7.616 | 0 | %100 |
| 52 | M30 | Z | 4.397 | 4.397 | 0 | %100 |

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[f..] | End Location[ft..] |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|--------------------|
| 53 | M31 | X | -7.507 | -7.507 | 0 | %100 |
| 54 | M31 | Z | 4.334 | 4.334 | 0 | %100 |
| 55 | M32 | X | -7.507 | -7.507 | 0 | %100 |
| 56 | M32 | Z | 4.334 | 4.334 | 0 | %100 |
| 57 | M33 | X | -5.629 | -5.629 | 0 | %100 |
| 58 | M33 | Z | 3.25 | 3.25 | 0 | %100 |
| 59 | M34 | X | -5.629 | -5.629 | 0 | %100 |
| 60 | M34 | Z | 3.25 | 3.25 | 0 | %100 |
| 61 | M35 | X | -4.684 | -4.684 | 0 | %100 |
| 62 | M35 | Z | 2.704 | 2.704 | 0 | %100 |
| 63 | M36 | X | -7.616 | -7.616 | 0 | %100 |
| 64 | M36 | Z | 4.397 | 4.397 | 0 | %100 |
| 65 | MP4A | X | -7.591 | -7.591 | 0 | %100 |
| 66 | MP4A | Z | 4.383 | 4.383 | 0 | %100 |
| 67 | MP3A | X | -7.591 | -7.591 | 0 | %100 |
| 68 | MP3A | Z | 4.383 | 4.383 | 0 | %100 |
| 69 | MP1A | X | -7.591 | -7.591 | 0 | %100 |
| 70 | MP1A | Z | 4.383 | 4.383 | 0 | %100 |
| 71 | M46 | X | -5.403 | -5.403 | 0 | %100 |
| 72 | M46 | Z | 3.119 | 3.119 | 0 | %100 |
| 73 | MP2A | X | -7.591 | -7.591 | 0 | %100 |
| 74 | MP2A | Z | 4.383 | 4.383 | 0 | %100 |
| 75 | M50 | X | -7.591 | -7.591 | 0 | %100 |
| 76 | M50 | Z | 4.383 | 4.383 | 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[f..] | End Location[ft..] |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|--------------------|
| 1 | M5 | X | -.94 | -.94 | 0 | %100 |
| 2 | M5 | Z | 0 | 0 | 0 | %100 |
| 3 | M6 | X | -.94 | -.94 | 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 | -.94 | -.94 | 0 | %100 |
| 8 | M8 | Z | 0 | 0 | 0 | %100 |
| 9 | M9 | X | -.94 | -.94 | 0 | %100 |
| 10 | M9 | Z | 0 | 0 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | 0 | %100 |
| 12 | M10 | Z | 0 | 0 | 0 | %100 |
| 13 | M11 | X | -4.466 | -4.466 | 0 | %100 |
| 14 | M11 | Z | 0 | 0 | 0 | %100 |
| 15 | M12 | X | -4.466 | -4.466 | 0 | %100 |
| 16 | M12 | Z | 0 | 0 | 0 | %100 |
| 17 | M13 | X | -4.466 | -4.466 | 0 | %100 |
| 18 | M13 | Z | 0 | 0 | 0 | %100 |
| 19 | M14 | X | -4.466 | -4.466 | 0 | %100 |
| 20 | M14 | Z | 0 | 0 | 0 | %100 |
| 21 | M15 | X | -11.072 | -11.072 | 0 | %100 |
| 22 | M15 | Z | 0 | 0 | 0 | %100 |
| 23 | M16 | X | -5.827 | -5.827 | 0 | %100 |
| 24 | M16 | Z | 0 | 0 | 0 | %100 |
| 25 | M17 | X | -11.072 | -11.072 | 0 | %100 |
| 26 | M17 | Z | 0 | 0 | 0 | %100 |
| 27 | M18 | X | -5.544 | -5.544 | 0 | %100 |
| 28 | M18 | Z | 0 | 0 | 0 | %100 |
| 29 | M19 | X | -11.072 | -11.072 | 0 | %100 |
| 30 | M19 | Z | 0 | 0 | 0 | %100 |
| 31 | M20 | X | -11.072 | -11.072 | 0 | %100 |
| 32 | M20 | Z | 0 | 0 | 0 | %100 |
| 33 | M21 | X | -11.072 | -11.072 | 0 | %100 |
| 34 | M21 | Z | 0 | 0 | 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[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 35 | M22 | X | -6.499 | -6.499 | 0 | %100 |
| 36 | M22 | Z | 0 | 0 | 0 | %100 |
| 37 | M23 | X | -6.499 | -6.499 | 0 | %100 |
| 38 | M23 | Z | 0 | 0 | 0 | %100 |
| 39 | M24 | X | -5.409 | -5.409 | 0 | %100 |
| 40 | M24 | Z | 0 | 0 | 0 | %100 |
| 41 | M25 | X | -11.072 | -11.072 | 0 | %100 |
| 42 | M25 | Z | 0 | 0 | 0 | %100 |
| 43 | M26 | X | -11.072 | -11.072 | 0 | %100 |
| 44 | M26 | Z | 0 | 0 | 0 | %100 |
| 45 | M27 | X | -5.827 | -5.827 | 0 | %100 |
| 46 | M27 | Z | 0 | 0 | 0 | %100 |
| 47 | M28 | X | -11.072 | -11.072 | 0 | %100 |
| 48 | M28 | Z | 0 | 0 | 0 | %100 |
| 49 | M29 | X | -5.544 | -5.544 | 0 | %100 |
| 50 | M29 | Z | 0 | 0 | 0 | %100 |
| 51 | M30 | X | -11.072 | -11.072 | 0 | %100 |
| 52 | M30 | Z | 0 | 0 | 0 | %100 |
| 53 | M31 | X | -11.072 | -11.072 | 0 | %100 |
| 54 | M31 | Z | 0 | 0 | 0 | %100 |
| 55 | M32 | X | -11.072 | -11.072 | 0 | %100 |
| 56 | M32 | Z | 0 | 0 | 0 | %100 |
| 57 | M33 | X | -6.499 | -6.499 | 0 | %100 |
| 58 | M33 | Z | 0 | 0 | 0 | %100 |
| 59 | M34 | X | -6.499 | -6.499 | 0 | %100 |
| 60 | M34 | Z | 0 | 0 | 0 | %100 |
| 61 | M35 | X | -5.409 | -5.409 | 0 | %100 |
| 62 | M35 | Z | 0 | 0 | 0 | %100 |
| 63 | M36 | X | -11.072 | -11.072 | 0 | %100 |
| 64 | M36 | Z | 0 | 0 | 0 | %100 |
| 65 | MP4A | X | -8.765 | -8.765 | 0 | %100 |
| 66 | MP4A | Z | 0 | 0 | 0 | %100 |
| 67 | MP3A | X | -8.765 | -8.765 | 0 | %100 |
| 68 | MP3A | Z | 0 | 0 | 0 | %100 |
| 69 | MP1A | X | -8.765 | -8.765 | 0 | %100 |
| 70 | MP1A | Z | 0 | 0 | 0 | %100 |
| 71 | M46 | X | -11.939 | -11.939 | 0 | %100 |
| 72 | M46 | Z | 0 | 0 | 0 | %100 |
| 73 | MP2A | X | -8.765 | -8.765 | 0 | %100 |
| 74 | MP2A | Z | 0 | 0 | 0 | %100 |
| 75 | M50 | X | -8.765 | -8.765 | 0 | %100 |
| 76 | M50 | 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[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 1 | M5 | X | -1.498 | -1.498 | 0 | %100 |
| 2 | M5 | Z | -.865 | -.865 | 0 | %100 |
| 3 | M6 | X | -.115 | -.115 | 0 | %100 |
| 4 | M6 | Z | -.066 | -.066 | 0 | %100 |
| 5 | M7 | X | -2.297 | -2.297 | 0 | %100 |
| 6 | M7 | Z | -1.326 | -1.326 | 0 | %100 |
| 7 | M8 | X | -1.498 | -1.498 | 0 | %100 |
| 8 | M8 | Z | -.865 | -.865 | 0 | %100 |
| 9 | M9 | X | -.115 | -.115 | 0 | %100 |
| 10 | M9 | Z | -.066 | -.066 | 0 | %100 |
| 11 | M10 | X | -2.297 | -2.297 | 0 | %100 |
| 12 | M10 | Z | -1.326 | -1.326 | 0 | %100 |
| 13 | M11 | X | -7.118 | -7.118 | 0 | %100 |
| 14 | M11 | Z | -4.109 | -4.109 | 0 | %100 |
| 15 | M12 | X | -.545 | -.545 | 0 | %100 |
| 16 | M12 | Z | -.315 | -.315 | 0 | %100 |

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.] |
|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 17 | M13 | X | -7.118 | -7.118 | 0 %100 |
| 18 | M13 | Z | -4.109 | -4.109 | 0 %100 |
| 19 | M14 | X | -.545 | -.545 | 0 %100 |
| 20 | M14 | Z | -.315 | -.315 | 0 %100 |
| 21 | M15 | X | -7.507 | -7.507 | 0 %100 |
| 22 | M15 | Z | -4.334 | -4.334 | 0 %100 |
| 23 | M16 | X | -4.131 | -4.131 | 0 %100 |
| 24 | M16 | Z | -2.385 | -2.385 | 0 %100 |
| 25 | M17 | X | -7.507 | -7.507 | 0 %100 |
| 26 | M17 | Z | -4.334 | -4.334 | 0 %100 |
| 27 | M18 | X | -3.755 | -3.755 | 0 %100 |
| 28 | M18 | Z | -2.168 | -2.168 | 0 %100 |
| 29 | M19 | X | -7.616 | -7.616 | 0 %100 |
| 30 | M19 | Z | -4.397 | -4.397 | 0 %100 |
| 31 | M20 | X | -7.507 | -7.507 | 0 %100 |
| 32 | M20 | Z | -4.334 | -4.334 | 0 %100 |
| 33 | M21 | X | -7.507 | -7.507 | 0 %100 |
| 34 | M21 | Z | -4.334 | -4.334 | 0 %100 |
| 35 | M22 | X | -5.629 | -5.629 | 0 %100 |
| 36 | M22 | Z | -3.25 | -3.25 | 0 %100 |
| 37 | M23 | X | -5.629 | -5.629 | 0 %100 |
| 38 | M23 | Z | -3.25 | -3.25 | 0 %100 |
| 39 | M24 | X | -4.684 | -4.684 | 0 %100 |
| 40 | M24 | Z | -2.704 | -2.704 | 0 %100 |
| 41 | M25 | X | -7.616 | -7.616 | 0 %100 |
| 42 | M25 | Z | -4.397 | -4.397 | 0 %100 |
| 43 | M26 | X | -7.507 | -7.507 | 0 %100 |
| 44 | M26 | Z | -4.334 | -4.334 | 0 %100 |
| 45 | M27 | X | -5.942 | -5.942 | 0 %100 |
| 46 | M27 | Z | -3.431 | -3.431 | 0 %100 |
| 47 | M28 | X | -7.507 | -7.507 | 0 %100 |
| 48 | M28 | Z | -4.334 | -4.334 | 0 %100 |
| 49 | M29 | X | -5.825 | -5.825 | 0 %100 |
| 50 | M29 | Z | -3.363 | -3.363 | 0 %100 |
| 51 | M30 | X | -7.616 | -7.616 | 0 %100 |
| 52 | M30 | Z | -4.397 | -4.397 | 0 %100 |
| 53 | M31 | X | -7.507 | -7.507 | 0 %100 |
| 54 | M31 | Z | -4.334 | -4.334 | 0 %100 |
| 55 | M32 | X | -7.507 | -7.507 | 0 %100 |
| 56 | M32 | Z | -4.334 | -4.334 | 0 %100 |
| 57 | M33 | X | -5.629 | -5.629 | 0 %100 |
| 58 | M33 | Z | -3.25 | -3.25 | 0 %100 |
| 59 | M34 | X | -5.629 | -5.629 | 0 %100 |
| 60 | M34 | Z | -3.25 | -3.25 | 0 %100 |
| 61 | M35 | X | -4.684 | -4.684 | 0 %100 |
| 62 | M35 | Z | -2.704 | -2.704 | 0 %100 |
| 63 | M36 | X | -7.616 | -7.616 | 0 %100 |
| 64 | M36 | Z | -4.397 | -4.397 | 0 %100 |
| 65 | MP4A | X | -7.591 | -7.591 | 0 %100 |
| 66 | MP4A | Z | -4.383 | -4.383 | 0 %100 |
| 67 | MP3A | X | -7.591 | -7.591 | 0 %100 |
| 68 | MP3A | Z | -4.383 | -4.383 | 0 %100 |
| 69 | MP1A | X | -7.591 | -7.591 | 0 %100 |
| 70 | MP1A | Z | -4.383 | -4.383 | 0 %100 |
| 71 | M46 | X | -10.529 | -10.529 | 0 %100 |
| 72 | M46 | Z | -6.079 | -6.079 | 0 %100 |
| 73 | MP2A | X | -7.591 | -7.591 | 0 %100 |
| 74 | MP2A | Z | -4.383 | -4.383 | 0 %100 |
| 75 | M50 | X | -7.591 | -7.591 | 0 %100 |
| 76 | M50 | Z | -4.383 | -4.383 | 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 | - .856 | - .856 | 0 | %100 |
| 2 | M5 | Z | -1.483 | -1.483 | 0 | %100 |
| 3 | M6 | X | -.057 | -.057 | 0 | %100 |
| 4 | M6 | Z | -.1 | -.1 | 0 | %100 |
| 5 | M7 | X | -3.979 | -3.979 | 0 | %100 |
| 6 | M7 | Z | -6.892 | -6.892 | 0 | %100 |
| 7 | M8 | X | -.856 | -.856 | 0 | %100 |
| 8 | M8 | Z | -1.483 | -1.483 | 0 | %100 |
| 9 | M9 | X | -.057 | -.057 | 0 | %100 |
| 10 | M9 | Z | -.1 | -.1 | 0 | %100 |
| 11 | M10 | X | -3.979 | -3.979 | 0 | %100 |
| 12 | M10 | Z | -6.892 | -6.892 | 0 | %100 |
| 13 | M11 | X | -4.068 | -4.068 | 0 | %100 |
| 14 | M11 | Z | -7.045 | -7.045 | 0 | %100 |
| 15 | M12 | X | -.273 | -.273 | 0 | %100 |
| 16 | M12 | Z | -.473 | -.473 | 0 | %100 |
| 17 | M13 | X | -4.068 | -4.068 | 0 | %100 |
| 18 | M13 | Z | -7.045 | -7.045 | 0 | %100 |
| 19 | M14 | X | -.273 | -.273 | 0 | %100 |
| 20 | M14 | Z | -.473 | -.473 | 0 | %100 |
| 21 | M15 | X | -1.932 | -1.932 | 0 | %100 |
| 22 | M15 | Z | -3.346 | -3.346 | 0 | %100 |
| 23 | M16 | X | -2.373 | -2.373 | 0 | %100 |
| 24 | M16 | Z | -4.111 | -4.111 | 0 | %100 |
| 25 | M17 | X | -1.932 | -1.932 | 0 | %100 |
| 26 | M17 | Z | -3.346 | -3.346 | 0 | %100 |
| 27 | M18 | X | -2.155 | -2.155 | 0 | %100 |
| 28 | M18 | Z | -3.732 | -3.732 | 0 | %100 |
| 29 | M19 | X | -2.119 | -2.119 | 0 | %100 |
| 30 | M19 | Z | -3.671 | -3.671 | 0 | %100 |
| 31 | M20 | X | -1.932 | -1.932 | 0 | %100 |
| 32 | M20 | Z | -3.346 | -3.346 | 0 | %100 |
| 33 | M21 | X | -1.932 | -1.932 | 0 | %100 |
| 34 | M21 | Z | -3.346 | -3.346 | 0 | %100 |
| 35 | M22 | X | -3.25 | -3.25 | 0 | %100 |
| 36 | M22 | Z | -5.629 | -5.629 | 0 | %100 |
| 37 | M23 | X | -3.25 | -3.25 | 0 | %100 |
| 38 | M23 | Z | -5.629 | -5.629 | 0 | %100 |
| 39 | M24 | X | -2.704 | -2.704 | 0 | %100 |
| 40 | M24 | Z | -4.684 | -4.684 | 0 | %100 |
| 41 | M25 | X | -2.119 | -2.119 | 0 | %100 |
| 42 | M25 | Z | -3.671 | -3.671 | 0 | %100 |
| 43 | M26 | X | -1.932 | -1.932 | 0 | %100 |
| 44 | M26 | Z | -3.346 | -3.346 | 0 | %100 |
| 45 | M27 | X | -3.419 | -3.419 | 0 | %100 |
| 46 | M27 | Z | -5.922 | -5.922 | 0 | %100 |
| 47 | M28 | X | -1.932 | -1.932 | 0 | %100 |
| 48 | M28 | Z | -3.346 | -3.346 | 0 | %100 |
| 49 | M29 | X | -3.35 | -3.35 | 0 | %100 |
| 50 | M29 | Z | -5.803 | -5.803 | 0 | %100 |
| 51 | M30 | X | -2.119 | -2.119 | 0 | %100 |
| 52 | M30 | Z | -3.671 | -3.671 | 0 | %100 |
| 53 | M31 | X | -1.932 | -1.932 | 0 | %100 |
| 54 | M31 | Z | -3.346 | -3.346 | 0 | %100 |
| 55 | M32 | X | -1.932 | -1.932 | 0 | %100 |
| 56 | M32 | Z | -3.346 | -3.346 | 0 | %100 |
| 57 | M33 | X | -3.25 | -3.25 | 0 | %100 |
| 58 | M33 | Z | -5.629 | -5.629 | 0 | %100 |
| 59 | M34 | X | -3.25 | -3.25 | 0 | %100 |
| 60 | M34 | Z | -5.629 | -5.629 | 0 | %100 |
| 61 | M35 | X | -2.704 | -2.704 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[ft.] | End Location[ft.] |
|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 62 | M35 | Z | -4.684 | 0 | %100 |
| 63 | M36 | X | -2.119 | 0 | %100 |
| 64 | M36 | Z | -3.671 | 0 | %100 |
| 65 | MP4A | X | -4.383 | 0 | %100 |
| 66 | MP4A | Z | -7.591 | 0 | %100 |
| 67 | MP3A | X | -4.383 | 0 | %100 |
| 68 | MP3A | Z | -7.591 | 0 | %100 |
| 69 | MP1A | X | -4.383 | 0 | %100 |
| 70 | MP1A | Z | -7.591 | 0 | %100 |
| 71 | M46 | X | -3.339 | 0 | %100 |
| 72 | M46 | Z | -5.783 | 0 | %100 |
| 73 | MP2A | X | -4.383 | 0 | %100 |
| 74 | MP2A | Z | -7.591 | 0 | %100 |
| 75 | M50 | X | -4.383 | 0 | %100 |
| 76 | M50 | Z | -7.591 | 0 | %100 |

Member Distributed Loads (BLC 53 : Structure Wi (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 | %100 |
| 2 | M5 | Z | -.535 | 0 | %100 |
| 3 | M6 | X | 0 | 0 | %100 |
| 4 | M6 | Z | -.535 | 0 | %100 |
| 5 | M7 | X | 0 | 0 | %100 |
| 6 | M7 | Z | -3.062 | 0 | %100 |
| 7 | M8 | X | 0 | 0 | %100 |
| 8 | M8 | Z | -.535 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M9 | Z | -.535 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | %100 |
| 12 | M10 | Z | -3.062 | 0 | %100 |
| 13 | M11 | X | 0 | 0 | %100 |
| 14 | M11 | Z | -1.357 | 0 | %100 |
| 15 | M12 | X | 0 | 0 | %100 |
| 16 | M12 | Z | -1.357 | 0 | %100 |
| 17 | M13 | X | 0 | 0 | %100 |
| 18 | M13 | Z | -1.357 | 0 | %100 |
| 19 | M14 | X | 0 | 0 | %100 |
| 20 | M14 | Z | -1.357 | 0 | %100 |
| 21 | M15 | X | 0 | 0 | %100 |
| 22 | M15 | Z | -1.029 | 0 | %100 |
| 23 | M16 | X | 0 | 0 | %100 |
| 24 | M16 | Z | -1.974 | 0 | %100 |
| 25 | M17 | X | 0 | 0 | %100 |
| 26 | M17 | Z | -1.029 | 0 | %100 |
| 27 | M18 | X | 0 | 0 | %100 |
| 28 | M18 | Z | -1.861 | 0 | %100 |
| 29 | M19 | X | 0 | 0 | %100 |
| 30 | M19 | Z | -1.112 | 0 | %100 |
| 31 | M20 | X | 0 | 0 | %100 |
| 32 | M20 | Z | -1.029 | 0 | %100 |
| 33 | M21 | X | 0 | 0 | %100 |
| 34 | M21 | Z | -1.029 | 0 | %100 |
| 35 | M22 | X | 0 | 0 | %100 |
| 36 | M22 | Z | -2.21 | 0 | %100 |
| 37 | M23 | X | 0 | 0 | %100 |
| 38 | M23 | Z | -2.21 | 0 | %100 |
| 39 | M24 | X | 0 | 0 | %100 |
| 40 | M24 | Z | -1.937 | 0 | %100 |
| 41 | M25 | X | 0 | 0 | %100 |
| 42 | M25 | Z | -1.112 | 0 | %100 |
| 43 | M26 | X | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationf... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 44 | M26 | Z | -1.029 | -1.029 | 0 | %100 |
| 45 | M27 | X | 0 | 0 | 0 | %100 |
| 46 | M27 | Z | -1.974 | -1.974 | 0 | %100 |
| 47 | M28 | X | 0 | 0 | 0 | %100 |
| 48 | M28 | Z | -1.029 | -1.029 | 0 | %100 |
| 49 | M29 | X | 0 | 0 | 0 | %100 |
| 50 | M29 | Z | -1.861 | -1.861 | 0 | %100 |
| 51 | M30 | X | 0 | 0 | 0 | %100 |
| 52 | M30 | Z | -1.112 | -1.112 | 0 | %100 |
| 53 | M31 | X | 0 | 0 | 0 | %100 |
| 54 | M31 | Z | -1.029 | -1.029 | 0 | %100 |
| 55 | M32 | X | 0 | 0 | 0 | %100 |
| 56 | M32 | Z | -1.029 | -1.029 | 0 | %100 |
| 57 | M33 | X | 0 | 0 | 0 | %100 |
| 58 | M33 | Z | -2.21 | -2.21 | 0 | %100 |
| 59 | M34 | X | 0 | 0 | 0 | %100 |
| 60 | M34 | Z | -2.21 | -2.21 | 0 | %100 |
| 61 | M35 | X | 0 | 0 | 0 | %100 |
| 62 | M35 | Z | -1.937 | -1.937 | 0 | %100 |
| 63 | M36 | X | 0 | 0 | 0 | %100 |
| 64 | M36 | Z | -1.112 | -1.112 | 0 | %100 |
| 65 | MP4A | X | 0 | 0 | 0 | %100 |
| 66 | MP4A | Z | -2.766 | -2.766 | 0 | %100 |
| 67 | MP3A | X | 0 | 0 | 0 | %100 |
| 68 | MP3A | Z | -2.766 | -2.766 | 0 | %100 |
| 69 | MP1A | X | 0 | 0 | 0 | %100 |
| 70 | MP1A | Z | -2.766 | -2.766 | 0 | %100 |
| 71 | M46 | X | 0 | 0 | 0 | %100 |
| 72 | M46 | Z | -.26 | -.26 | 0 | %100 |
| 73 | MP2A | X | 0 | 0 | 0 | %100 |
| 74 | MP2A | Z | -2.766 | -2.766 | 0 | %100 |
| 75 | M50 | X | 0 | 0 | 0 | %100 |
| 76 | M50 | Z | -2.766 | -2.766 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationf... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 1 | M5 | X | .034 | .034 | 0 | %100 |
| 2 | M5 | Z | -.059 | -.059 | 0 | %100 |
| 3 | M6 | X | .506 | .506 | 0 | %100 |
| 4 | M6 | Z | -.877 | -.877 | 0 | %100 |
| 5 | M7 | X | 1.148 | 1.148 | 0 | %100 |
| 6 | M7 | Z | -1.989 | -1.989 | 0 | %100 |
| 7 | M8 | X | .034 | .034 | 0 | %100 |
| 8 | M8 | Z | -.059 | -.059 | 0 | %100 |
| 9 | M9 | X | .506 | .506 | 0 | %100 |
| 10 | M9 | Z | -.877 | -.877 | 0 | %100 |
| 11 | M10 | X | 1.148 | 1.148 | 0 | %100 |
| 12 | M10 | Z | -1.989 | -1.989 | 0 | %100 |
| 13 | M11 | X | .086 | .086 | 0 | %100 |
| 14 | M11 | Z | -.149 | -.149 | 0 | %100 |
| 15 | M12 | X | 1.284 | 1.284 | 0 | %100 |
| 16 | M12 | Z | -2.224 | -2.224 | 0 | %100 |
| 17 | M13 | X | .086 | .086 | 0 | %100 |
| 18 | M13 | Z | -.149 | -.149 | 0 | %100 |
| 19 | M14 | X | 1.284 | 1.284 | 0 | %100 |
| 20 | M14 | Z | -2.224 | -2.224 | 0 | %100 |
| 21 | M15 | X | .707 | .707 | 0 | %100 |
| 22 | M15 | Z | -1.224 | -1.224 | 0 | %100 |
| 23 | M16 | X | 1.168 | 1.168 | 0 | %100 |
| 24 | M16 | Z | -2.023 | -2.023 | 0 | %100 |
| 25 | M17 | X | .707 | .707 | 0 | %100 |

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 Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 26 | M17 | Z | -1.224 | -1.224 | 0 | %100 |
| 27 | M18 | X | 1.135 | 1.135 | 0 | %100 |
| 28 | M18 | Z | -1.966 | -1.966 | 0 | %100 |
| 29 | M19 | X | .738 | .738 | 0 | %100 |
| 30 | M19 | Z | -1.279 | -1.279 | 0 | %100 |
| 31 | M20 | X | .707 | .707 | 0 | %100 |
| 32 | M20 | Z | -1.224 | -1.224 | 0 | %100 |
| 33 | M21 | X | .707 | .707 | 0 | %100 |
| 34 | M21 | Z | -1.224 | -1.224 | 0 | %100 |
| 35 | M22 | X | 1.105 | 1.105 | 0 | %100 |
| 36 | M22 | Z | -1.914 | -1.914 | 0 | %100 |
| 37 | M23 | X | 1.105 | 1.105 | 0 | %100 |
| 38 | M23 | Z | -1.914 | -1.914 | 0 | %100 |
| 39 | M24 | X | .968 | .968 | 0 | %100 |
| 40 | M24 | Z | -1.677 | -1.677 | 0 | %100 |
| 41 | M25 | X | .738 | .738 | 0 | %100 |
| 42 | M25 | Z | -1.279 | -1.279 | 0 | %100 |
| 43 | M26 | X | .707 | .707 | 0 | %100 |
| 44 | M26 | Z | -1.224 | -1.224 | 0 | %100 |
| 45 | M27 | X | .811 | .811 | 0 | %100 |
| 46 | M27 | Z | -1.404 | -1.404 | 0 | %100 |
| 47 | M28 | X | .707 | .707 | 0 | %100 |
| 48 | M28 | Z | -1.224 | -1.224 | 0 | %100 |
| 49 | M29 | X | .73 | .73 | 0 | %100 |
| 50 | M29 | Z | -1.265 | -1.265 | 0 | %100 |
| 51 | M30 | X | .738 | .738 | 0 | %100 |
| 52 | M30 | Z | -1.279 | -1.279 | 0 | %100 |
| 53 | M31 | X | .707 | .707 | 0 | %100 |
| 54 | M31 | Z | -1.224 | -1.224 | 0 | %100 |
| 55 | M32 | X | .707 | .707 | 0 | %100 |
| 56 | M32 | Z | -1.224 | -1.224 | 0 | %100 |
| 57 | M33 | X | 1.105 | 1.105 | 0 | %100 |
| 58 | M33 | Z | -1.914 | -1.914 | 0 | %100 |
| 59 | M34 | X | 1.105 | 1.105 | 0 | %100 |
| 60 | M34 | Z | -1.914 | -1.914 | 0 | %100 |
| 61 | M35 | X | .968 | .968 | 0 | %100 |
| 62 | M35 | Z | -1.677 | -1.677 | 0 | %100 |
| 63 | M36 | X | .738 | .738 | 0 | %100 |
| 64 | M36 | Z | -1.279 | -1.279 | 0 | %100 |
| 65 | MP4A | X | 1.383 | 1.383 | 0 | %100 |
| 66 | MP4A | Z | -2.396 | -2.396 | 0 | %100 |
| 67 | MP3A | X | 1.383 | 1.383 | 0 | %100 |
| 68 | MP3A | Z | -2.396 | -2.396 | 0 | %100 |
| 69 | MP1A | X | 1.383 | 1.383 | 0 | %100 |
| 70 | MP1A | Z | -2.396 | -2.396 | 0 | %100 |
| 71 | M46 | X | .101 | .101 | 0 | %100 |
| 72 | M46 | Z | -.175 | -.175 | 0 | %100 |
| 73 | MP2A | X | 1.383 | 1.383 | 0 | %100 |
| 74 | MP2A | Z | -2.396 | -2.396 | 0 | %100 |
| 75 | M50 | X | 1.383 | 1.383 | 0 | %100 |
| 76 | M50 | Z | -2.396 | -2.396 | 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 Locationft... | End Locationft... |
|---|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 1 | M5 | X | .068 | .068 | 0 | %100 |
| 2 | M5 | Z | -.039 | -.039 | 0 | %100 |
| 3 | M6 | X | .886 | .886 | 0 | %100 |
| 4 | M6 | Z | -.511 | -.511 | 0 | %100 |
| 5 | M7 | X | .663 | .663 | 0 | %100 |
| 6 | M7 | Z | -.383 | -.383 | 0 | %100 |
| 7 | M8 | X | .068 | .068 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb./ft.F.ksfl] | End Magnitude[lb./ft.F.ksfl] | Start Locationlf. | End Locationlf. |
|----|--------------|-----------|--------------------------------|------------------------------|-------------------|-----------------|
| 8 | M8 | Z | -.039 | -.039 | 0 | %100 |
| 9 | M9 | X | .886 | .886 | 0 | %100 |
| 10 | M9 | Z | -.511 | -.511 | 0 | %100 |
| 11 | M10 | X | .663 | .663 | 0 | %100 |
| 12 | M10 | Z | -.383 | -.383 | 0 | %100 |
| 13 | M11 | X | .172 | .172 | 0 | %100 |
| 14 | M11 | Z | -.099 | -.099 | 0 | %100 |
| 15 | M12 | X | 2.247 | 2.247 | 0 | %100 |
| 16 | M12 | Z | -1.297 | -1.297 | 0 | %100 |
| 17 | M13 | X | .172 | .172 | 0 | %100 |
| 18 | M13 | Z | -.099 | -.099 | 0 | %100 |
| 19 | M14 | X | 2.247 | 2.247 | 0 | %100 |
| 20 | M14 | Z | -1.297 | -1.297 | 0 | %100 |
| 21 | M15 | X | 1.89 | 1.89 | 0 | %100 |
| 22 | M15 | Z | -1.091 | -1.091 | 0 | %100 |
| 23 | M16 | X | 2.029 | 2.029 | 0 | %100 |
| 24 | M16 | Z | -1.172 | -1.172 | 0 | %100 |
| 25 | M17 | X | 1.89 | 1.89 | 0 | %100 |
| 26 | M17 | Z | -1.091 | -1.091 | 0 | %100 |
| 27 | M18 | X | 1.974 | 1.974 | 0 | %100 |
| 28 | M18 | Z | -1.14 | -1.14 | 0 | %100 |
| 29 | M19 | X | 1.91 | 1.91 | 0 | %100 |
| 30 | M19 | Z | -1.103 | -1.103 | 0 | %100 |
| 31 | M20 | X | 1.89 | 1.89 | 0 | %100 |
| 32 | M20 | Z | -1.091 | -1.091 | 0 | %100 |
| 33 | M21 | X | 1.89 | 1.89 | 0 | %100 |
| 34 | M21 | Z | -1.091 | -1.091 | 0 | %100 |
| 35 | M22 | X | 1.914 | 1.914 | 0 | %100 |
| 36 | M22 | Z | -1.105 | -1.105 | 0 | %100 |
| 37 | M23 | X | 1.914 | 1.914 | 0 | %100 |
| 38 | M23 | Z | -1.105 | -1.105 | 0 | %100 |
| 39 | M24 | X | 1.677 | 1.677 | 0 | %100 |
| 40 | M24 | Z | -.968 | -.968 | 0 | %100 |
| 41 | M25 | X | 1.91 | 1.91 | 0 | %100 |
| 42 | M25 | Z | -1.103 | -1.103 | 0 | %100 |
| 43 | M26 | X | 1.89 | 1.89 | 0 | %100 |
| 44 | M26 | Z | -1.091 | -1.091 | 0 | %100 |
| 45 | M27 | X | 1.411 | 1.411 | 0 | %100 |
| 46 | M27 | Z | -.814 | -.814 | 0 | %100 |
| 47 | M28 | X | 1.89 | 1.89 | 0 | %100 |
| 48 | M28 | Z | -1.091 | -1.091 | 0 | %100 |
| 49 | M29 | X | 1.272 | 1.272 | 0 | %100 |
| 50 | M29 | Z | -.735 | -.735 | 0 | %100 |
| 51 | M30 | X | 1.91 | 1.91 | 0 | %100 |
| 52 | M30 | Z | -1.103 | -1.103 | 0 | %100 |
| 53 | M31 | X | 1.89 | 1.89 | 0 | %100 |
| 54 | M31 | Z | -1.091 | -1.091 | 0 | %100 |
| 55 | M32 | X | 1.89 | 1.89 | 0 | %100 |
| 56 | M32 | Z | -1.091 | -1.091 | 0 | %100 |
| 57 | M33 | X | 1.914 | 1.914 | 0 | %100 |
| 58 | M33 | Z | -1.105 | -1.105 | 0 | %100 |
| 59 | M34 | X | 1.914 | 1.914 | 0 | %100 |
| 60 | M34 | Z | -1.105 | -1.105 | 0 | %100 |
| 61 | M35 | X | 1.677 | 1.677 | 0 | %100 |
| 62 | M35 | Z | -.968 | -.968 | 0 | %100 |
| 63 | M36 | X | 1.91 | 1.91 | 0 | %100 |
| 64 | M36 | Z | -1.103 | -1.103 | 0 | %100 |
| 65 | MP4A | X | 2.396 | 2.396 | 0 | %100 |
| 66 | MP4A | Z | -1.383 | -1.383 | 0 | %100 |
| 67 | MP3A | X | 2.396 | 2.396 | 0 | %100 |
| 68 | MP3A | Z | -1.383 | -1.383 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 69 | MP1A | X | 2.396 | 2.396 | 0 | %100 |
| 70 | MP1A | Z | -1.383 | -1.383 | 0 | %100 |
| 71 | M46 | X | 1.435 | 1.435 | 0 | %100 |
| 72 | M46 | Z | -829 | -829 | 0 | %100 |
| 73 | MP2A | X | 2.396 | 2.396 | 0 | %100 |
| 74 | MP2A | Z | -1.383 | -1.383 | 0 | %100 |
| 75 | M50 | X | 2.396 | 2.396 | 0 | %100 |
| 76 | M50 | Z | -1.383 | -1.383 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 1 | M5 | X | .556 | .556 | 0 | %100 |
| 2 | M5 | Z | 0 | 0 | 0 | %100 |
| 3 | M6 | X | .556 | .556 | 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 | .556 | .556 | 0 | %100 |
| 8 | M8 | Z | 0 | 0 | 0 | %100 |
| 9 | M9 | X | .556 | .556 | 0 | %100 |
| 10 | M9 | Z | 0 | 0 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | 0 | %100 |
| 12 | M10 | Z | 0 | 0 | 0 | %100 |
| 13 | M11 | X | 1.41 | 1.41 | 0 | %100 |
| 14 | M11 | Z | 0 | 0 | 0 | %100 |
| 15 | M12 | X | 1.41 | 1.41 | 0 | %100 |
| 16 | M12 | Z | 0 | 0 | 0 | %100 |
| 17 | M13 | X | 1.41 | 1.41 | 0 | %100 |
| 18 | M13 | Z | 0 | 0 | 0 | %100 |
| 19 | M14 | X | 1.41 | 1.41 | 0 | %100 |
| 20 | M14 | Z | 0 | 0 | 0 | %100 |
| 21 | M15 | X | 2.567 | 2.567 | 0 | %100 |
| 22 | M15 | Z | 0 | 0 | 0 | %100 |
| 23 | M16 | X | 1.99 | 1.99 | 0 | %100 |
| 24 | M16 | Z | 0 | 0 | 0 | %100 |
| 25 | M17 | X | 2.567 | 2.567 | 0 | %100 |
| 26 | M17 | Z | 0 | 0 | 0 | %100 |
| 27 | M18 | X | 1.879 | 1.879 | 0 | %100 |
| 28 | M18 | Z | 0 | 0 | 0 | %100 |
| 29 | M19 | X | 2.57 | 2.57 | 0 | %100 |
| 30 | M19 | Z | 0 | 0 | 0 | %100 |
| 31 | M20 | X | 2.567 | 2.567 | 0 | %100 |
| 32 | M20 | Z | 0 | 0 | 0 | %100 |
| 33 | M21 | X | 2.567 | 2.567 | 0 | %100 |
| 34 | M21 | Z | 0 | 0 | 0 | %100 |
| 35 | M22 | X | 2.21 | 2.21 | 0 | %100 |
| 36 | M22 | Z | 0 | 0 | 0 | %100 |
| 37 | M23 | X | 2.21 | 2.21 | 0 | %100 |
| 38 | M23 | Z | 0 | 0 | 0 | %100 |
| 39 | M24 | X | 1.937 | 1.937 | 0 | %100 |
| 40 | M24 | Z | 0 | 0 | 0 | %100 |
| 41 | M25 | X | 2.57 | 2.57 | 0 | %100 |
| 42 | M25 | Z | 0 | 0 | 0 | %100 |
| 43 | M26 | X | 2.567 | 2.567 | 0 | %100 |
| 44 | M26 | Z | 0 | 0 | 0 | %100 |
| 45 | M27 | X | 1.99 | 1.99 | 0 | %100 |
| 46 | M27 | Z | 0 | 0 | 0 | %100 |
| 47 | M28 | X | 2.567 | 2.567 | 0 | %100 |
| 48 | M28 | Z | 0 | 0 | 0 | %100 |
| 49 | M29 | X | 1.879 | 1.879 | 0 | %100 |
| 50 | M29 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[ft] | End Location[ft] |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|------------------|
| 51 | M30 | X | 2.57 | 2.57 | 0 | %100 |
| 52 | M30 | Z | 0 | 0 | 0 | %100 |
| 53 | M31 | X | 2.567 | 2.567 | 0 | %100 |
| 54 | M31 | Z | 0 | 0 | 0 | %100 |
| 55 | M32 | X | 2.567 | 2.567 | 0 | %100 |
| 56 | M32 | Z | 0 | 0 | 0 | %100 |
| 57 | M33 | X | 2.21 | 2.21 | 0 | %100 |
| 58 | M33 | Z | 0 | 0 | 0 | %100 |
| 59 | M34 | X | 2.21 | 2.21 | 0 | %100 |
| 60 | M34 | Z | 0 | 0 | 0 | %100 |
| 61 | M35 | X | 1.937 | 1.937 | 0 | %100 |
| 62 | M35 | Z | 0 | 0 | 0 | %100 |
| 63 | M36 | X | 2.57 | 2.57 | 0 | %100 |
| 64 | M36 | Z | 0 | 0 | 0 | %100 |
| 65 | MP4A | X | 2.766 | 2.766 | 0 | %100 |
| 66 | MP4A | Z | 0 | 0 | 0 | %100 |
| 67 | MP3A | X | 2.766 | 2.766 | 0 | %100 |
| 68 | MP3A | Z | 0 | 0 | 0 | %100 |
| 69 | MP1A | X | 2.766 | 2.766 | 0 | %100 |
| 70 | MP1A | Z | 0 | 0 | 0 | %100 |
| 71 | M46 | X | 3.171 | 3.171 | 0 | %100 |
| 72 | M46 | Z | 0 | 0 | 0 | %100 |
| 73 | MP2A | X | 2.766 | 2.766 | 0 | %100 |
| 74 | MP2A | Z | 0 | 0 | 0 | %100 |
| 75 | M50 | X | 2.766 | 2.766 | 0 | %100 |
| 76 | M50 | Z | 0 | 0 | 0 | %100 |

Member Distributed Loads (BLC 57 : Structure Wi (120 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 | .886 | .886 | 0 | %100 |
| 2 | M5 | Z | .511 | .511 | 0 | %100 |
| 3 | M6 | X | .068 | .068 | 0 | %100 |
| 4 | M6 | Z | .039 | .039 | 0 | %100 |
| 5 | M7 | X | .663 | .663 | 0 | %100 |
| 6 | M7 | Z | .383 | .383 | 0 | %100 |
| 7 | M8 | X | .886 | .886 | 0 | %100 |
| 8 | M8 | Z | .511 | .511 | 0 | %100 |
| 9 | M9 | X | .068 | .068 | 0 | %100 |
| 10 | M9 | Z | .039 | .039 | 0 | %100 |
| 11 | M10 | X | .663 | .663 | 0 | %100 |
| 12 | M10 | Z | .383 | .383 | 0 | %100 |
| 13 | M11 | X | 2.247 | 2.247 | 0 | %100 |
| 14 | M11 | Z | 1.297 | 1.297 | 0 | %100 |
| 15 | M12 | X | .172 | .172 | 0 | %100 |
| 16 | M12 | Z | .099 | .099 | 0 | %100 |
| 17 | M13 | X | 2.247 | 2.247 | 0 | %100 |
| 18 | M13 | Z | 1.297 | 1.297 | 0 | %100 |
| 19 | M14 | X | .172 | .172 | 0 | %100 |
| 20 | M14 | Z | .099 | .099 | 0 | %100 |
| 21 | M15 | X | 1.89 | 1.89 | 0 | %100 |
| 22 | M15 | Z | 1.091 | 1.091 | 0 | %100 |
| 23 | M16 | X | 1.411 | 1.411 | 0 | %100 |
| 24 | M16 | Z | .814 | .814 | 0 | %100 |
| 25 | M17 | X | 1.89 | 1.89 | 0 | %100 |
| 26 | M17 | Z | 1.091 | 1.091 | 0 | %100 |
| 27 | M18 | X | 1.272 | 1.272 | 0 | %100 |
| 28 | M18 | Z | .735 | .735 | 0 | %100 |
| 29 | M19 | X | 1.91 | 1.91 | 0 | %100 |
| 30 | M19 | Z | 1.103 | 1.103 | 0 | %100 |
| 31 | M20 | X | 1.89 | 1.89 | 0 | %100 |
| 32 | M20 | Z | 1.091 | 1.091 | 0 | %100 |

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[f.. | End Location[ft.. |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 33 | M21 | X | 1.89 | 1.89 | 0 | %100 |
| 34 | M21 | Z | 1.091 | 1.091 | 0 | %100 |
| 35 | M22 | X | 1.914 | 1.914 | 0 | %100 |
| 36 | M22 | Z | 1.105 | 1.105 | 0 | %100 |
| 37 | M23 | X | 1.914 | 1.914 | 0 | %100 |
| 38 | M23 | Z | 1.105 | 1.105 | 0 | %100 |
| 39 | M24 | X | 1.677 | 1.677 | 0 | %100 |
| 40 | M24 | Z | .968 | .968 | 0 | %100 |
| 41 | M25 | X | 1.91 | 1.91 | 0 | %100 |
| 42 | M25 | Z | 1.103 | 1.103 | 0 | %100 |
| 43 | M26 | X | 1.89 | 1.89 | 0 | %100 |
| 44 | M26 | Z | 1.091 | 1.091 | 0 | %100 |
| 45 | M27 | X | 2.029 | 2.029 | 0 | %100 |
| 46 | M27 | Z | 1.172 | 1.172 | 0 | %100 |
| 47 | M28 | X | 1.89 | 1.89 | 0 | %100 |
| 48 | M28 | Z | 1.091 | 1.091 | 0 | %100 |
| 49 | M29 | X | 1.974 | 1.974 | 0 | %100 |
| 50 | M29 | Z | 1.14 | 1.14 | 0 | %100 |
| 51 | M30 | X | 1.91 | 1.91 | 0 | %100 |
| 52 | M30 | Z | 1.103 | 1.103 | 0 | %100 |
| 53 | M31 | X | 1.89 | 1.89 | 0 | %100 |
| 54 | M31 | Z | 1.091 | 1.091 | 0 | %100 |
| 55 | M32 | X | 1.89 | 1.89 | 0 | %100 |
| 56 | M32 | Z | 1.091 | 1.091 | 0 | %100 |
| 57 | M33 | X | 1.914 | 1.914 | 0 | %100 |
| 58 | M33 | Z | 1.105 | 1.105 | 0 | %100 |
| 59 | M34 | X | 1.914 | 1.914 | 0 | %100 |
| 60 | M34 | Z | 1.105 | 1.105 | 0 | %100 |
| 61 | M35 | X | 1.677 | 1.677 | 0 | %100 |
| 62 | M35 | Z | .968 | .968 | 0 | %100 |
| 63 | M36 | X | 1.91 | 1.91 | 0 | %100 |
| 64 | M36 | Z | 1.103 | 1.103 | 0 | %100 |
| 65 | MP4A | X | 2.396 | 2.396 | 0 | %100 |
| 66 | MP4A | Z | 1.383 | 1.383 | 0 | %100 |
| 67 | MP3A | X | 2.396 | 2.396 | 0 | %100 |
| 68 | MP3A | Z | 1.383 | 1.383 | 0 | %100 |
| 69 | MP1A | X | 2.396 | 2.396 | 0 | %100 |
| 70 | MP1A | Z | 1.383 | 1.383 | 0 | %100 |
| 71 | M46 | X | 2.797 | 2.797 | 0 | %100 |
| 72 | M46 | Z | 1.615 | 1.615 | 0 | %100 |
| 73 | MP2A | X | 2.396 | 2.396 | 0 | %100 |
| 74 | MP2A | Z | 1.383 | 1.383 | 0 | %100 |
| 75 | M50 | X | 2.396 | 2.396 | 0 | %100 |
| 76 | M50 | Z | 1.383 | 1.383 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Location[f.. | End Location[ft.. |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 1 | M5 | X | .506 | .506 | 0 | %100 |
| 2 | M5 | Z | .877 | .877 | 0 | %100 |
| 3 | M6 | X | .034 | .034 | 0 | %100 |
| 4 | M6 | Z | .059 | .059 | 0 | %100 |
| 5 | M7 | X | 1.148 | 1.148 | 0 | %100 |
| 6 | M7 | Z | 1.989 | 1.989 | 0 | %100 |
| 7 | M8 | X | .506 | .506 | 0 | %100 |
| 8 | M8 | Z | .877 | .877 | 0 | %100 |
| 9 | M9 | X | .034 | .034 | 0 | %100 |
| 10 | M9 | Z | .059 | .059 | 0 | %100 |
| 11 | M10 | X | 1.148 | 1.148 | 0 | %100 |
| 12 | M10 | Z | 1.989 | 1.989 | 0 | %100 |
| 13 | M11 | X | 1.284 | 1.284 | 0 | %100 |
| 14 | M11 | Z | 2.224 | 2.224 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f..] | End Location[ft..] |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|--------------------|
| 15 | M12 | X | .086 | .086 | 0 | %100 |
| 16 | M12 | Z | .149 | .149 | 0 | %100 |
| 17 | M13 | X | 1.284 | 1.284 | 0 | %100 |
| 18 | M13 | Z | 2.224 | 2.224 | 0 | %100 |
| 19 | M14 | X | .086 | .086 | 0 | %100 |
| 20 | M14 | Z | .149 | .149 | 0 | %100 |
| 21 | M15 | X | .707 | .707 | 0 | %100 |
| 22 | M15 | Z | 1.224 | 1.224 | 0 | %100 |
| 23 | M16 | X | .811 | .811 | 0 | %100 |
| 24 | M16 | Z | 1.404 | 1.404 | 0 | %100 |
| 25 | M17 | X | .707 | .707 | 0 | %100 |
| 26 | M17 | Z | 1.224 | 1.224 | 0 | %100 |
| 27 | M18 | X | .73 | .73 | 0 | %100 |
| 28 | M18 | Z | 1.265 | 1.265 | 0 | %100 |
| 29 | M19 | X | .738 | .738 | 0 | %100 |
| 30 | M19 | Z | 1.279 | 1.279 | 0 | %100 |
| 31 | M20 | X | .707 | .707 | 0 | %100 |
| 32 | M20 | Z | 1.224 | 1.224 | 0 | %100 |
| 33 | M21 | X | .707 | .707 | 0 | %100 |
| 34 | M21 | Z | 1.224 | 1.224 | 0 | %100 |
| 35 | M22 | X | 1.105 | 1.105 | 0 | %100 |
| 36 | M22 | Z | 1.914 | 1.914 | 0 | %100 |
| 37 | M23 | X | 1.105 | 1.105 | 0 | %100 |
| 38 | M23 | Z | 1.914 | 1.914 | 0 | %100 |
| 39 | M24 | X | .968 | .968 | 0 | %100 |
| 40 | M24 | Z | 1.677 | 1.677 | 0 | %100 |
| 41 | M25 | X | .738 | .738 | 0 | %100 |
| 42 | M25 | Z | 1.279 | 1.279 | 0 | %100 |
| 43 | M26 | X | .707 | .707 | 0 | %100 |
| 44 | M26 | Z | 1.224 | 1.224 | 0 | %100 |
| 45 | M27 | X | 1.168 | 1.168 | 0 | %100 |
| 46 | M27 | Z | 2.023 | 2.023 | 0 | %100 |
| 47 | M28 | X | .707 | .707 | 0 | %100 |
| 48 | M28 | Z | 1.224 | 1.224 | 0 | %100 |
| 49 | M29 | X | 1.135 | 1.135 | 0 | %100 |
| 50 | M29 | Z | 1.966 | 1.966 | 0 | %100 |
| 51 | M30 | X | .738 | .738 | 0 | %100 |
| 52 | M30 | Z | 1.279 | 1.279 | 0 | %100 |
| 53 | M31 | X | .707 | .707 | 0 | %100 |
| 54 | M31 | Z | 1.224 | 1.224 | 0 | %100 |
| 55 | M32 | X | .707 | .707 | 0 | %100 |
| 56 | M32 | Z | 1.224 | 1.224 | 0 | %100 |
| 57 | M33 | X | 1.105 | 1.105 | 0 | %100 |
| 58 | M33 | Z | 1.914 | 1.914 | 0 | %100 |
| 59 | M34 | X | 1.105 | 1.105 | 0 | %100 |
| 60 | M34 | Z | 1.914 | 1.914 | 0 | %100 |
| 61 | M35 | X | .968 | .968 | 0 | %100 |
| 62 | M35 | Z | 1.677 | 1.677 | 0 | %100 |
| 63 | M36 | X | .738 | .738 | 0 | %100 |
| 64 | M36 | Z | 1.279 | 1.279 | 0 | %100 |
| 65 | MP4A | X | 1.383 | 1.383 | 0 | %100 |
| 66 | MP4A | Z | 2.396 | 2.396 | 0 | %100 |
| 67 | MP3A | X | 1.383 | 1.383 | 0 | %100 |
| 68 | MP3A | Z | 2.396 | 2.396 | 0 | %100 |
| 69 | MP1A | X | 1.383 | 1.383 | 0 | %100 |
| 70 | MP1A | Z | 2.396 | 2.396 | 0 | %100 |
| 71 | M46 | X | .887 | .887 | 0 | %100 |
| 72 | M46 | Z | 1.536 | 1.536 | 0 | %100 |
| 73 | MP2A | X | 1.383 | 1.383 | 0 | %100 |
| 74 | MP2A | Z | 2.396 | 2.396 | 0 | %100 |
| 75 | M50 | X | 1.383 | 1.383 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 76 | M50 | Z | 2.396 | 2.396 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 1 | M5 | X | 0 | 0 | 0 | %100 |
| 2 | M5 | Z | .535 | .535 | 0 | %100 |
| 3 | M6 | X | 0 | 0 | 0 | %100 |
| 4 | M6 | Z | .535 | .535 | 0 | %100 |
| 5 | M7 | X | 0 | 0 | 0 | %100 |
| 6 | M7 | Z | 3.062 | 3.062 | 0 | %100 |
| 7 | M8 | X | 0 | 0 | 0 | %100 |
| 8 | M8 | Z | .535 | .535 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | 0 | %100 |
| 10 | M9 | Z | .535 | .535 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | 0 | %100 |
| 12 | M10 | Z | 3.062 | 3.062 | 0 | %100 |
| 13 | M11 | X | 0 | 0 | 0 | %100 |
| 14 | M11 | Z | 1.357 | 1.357 | 0 | %100 |
| 15 | M12 | X | 0 | 0 | 0 | %100 |
| 16 | M12 | Z | 1.357 | 1.357 | 0 | %100 |
| 17 | M13 | X | 0 | 0 | 0 | %100 |
| 18 | M13 | Z | 1.357 | 1.357 | 0 | %100 |
| 19 | M14 | X | 0 | 0 | 0 | %100 |
| 20 | M14 | Z | 1.357 | 1.357 | 0 | %100 |
| 21 | M15 | X | 0 | 0 | 0 | %100 |
| 22 | M15 | Z | 1.029 | 1.029 | 0 | %100 |
| 23 | M16 | X | 0 | 0 | 0 | %100 |
| 24 | M16 | Z | 1.974 | 1.974 | 0 | %100 |
| 25 | M17 | X | 0 | 0 | 0 | %100 |
| 26 | M17 | Z | 1.029 | 1.029 | 0 | %100 |
| 27 | M18 | X | 0 | 0 | 0 | %100 |
| 28 | M18 | Z | 1.861 | 1.861 | 0 | %100 |
| 29 | M19 | X | 0 | 0 | 0 | %100 |
| 30 | M19 | Z | 1.112 | 1.112 | 0 | %100 |
| 31 | M20 | X | 0 | 0 | 0 | %100 |
| 32 | M20 | Z | 1.029 | 1.029 | 0 | %100 |
| 33 | M21 | X | 0 | 0 | 0 | %100 |
| 34 | M21 | Z | 1.029 | 1.029 | 0 | %100 |
| 35 | M22 | X | 0 | 0 | 0 | %100 |
| 36 | M22 | Z | 2.21 | 2.21 | 0 | %100 |
| 37 | M23 | X | 0 | 0 | 0 | %100 |
| 38 | M23 | Z | 2.21 | 2.21 | 0 | %100 |
| 39 | M24 | X | 0 | 0 | 0 | %100 |
| 40 | M24 | Z | 1.937 | 1.937 | 0 | %100 |
| 41 | M25 | X | 0 | 0 | 0 | %100 |
| 42 | M25 | Z | 1.112 | 1.112 | 0 | %100 |
| 43 | M26 | X | 0 | 0 | 0 | %100 |
| 44 | M26 | Z | 1.029 | 1.029 | 0 | %100 |
| 45 | M27 | X | 0 | 0 | 0 | %100 |
| 46 | M27 | Z | 1.974 | 1.974 | 0 | %100 |
| 47 | M28 | X | 0 | 0 | 0 | %100 |
| 48 | M28 | Z | 1.029 | 1.029 | 0 | %100 |
| 49 | M29 | X | 0 | 0 | 0 | %100 |
| 50 | M29 | Z | 1.861 | 1.861 | 0 | %100 |
| 51 | M30 | X | 0 | 0 | 0 | %100 |
| 52 | M30 | Z | 1.112 | 1.112 | 0 | %100 |
| 53 | M31 | X | 0 | 0 | 0 | %100 |
| 54 | M31 | Z | 1.029 | 1.029 | 0 | %100 |
| 55 | M32 | X | 0 | 0 | 0 | %100 |
| 56 | M32 | Z | 1.029 | 1.029 | 0 | %100 |
| 57 | M33 | X | 0 | 0 | 0 | %100 |

Member Distributed Loads (BLC 59 : Structure Wi (180 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 | 2.21 | 2.21 | 0 | %100 |
| 59 | M34 | X | 0 | 0 | 0 | %100 |
| 60 | M34 | Z | 2.21 | 2.21 | 0 | %100 |
| 61 | M35 | X | 0 | 0 | 0 | %100 |
| 62 | M35 | Z | 1.937 | 1.937 | 0 | %100 |
| 63 | M36 | X | 0 | 0 | 0 | %100 |
| 64 | M36 | Z | 1.112 | 1.112 | 0 | %100 |
| 65 | MP4A | X | 0 | 0 | 0 | %100 |
| 66 | MP4A | Z | 2.766 | 2.766 | 0 | %100 |
| 67 | MP3A | X | 0 | 0 | 0 | %100 |
| 68 | MP3A | Z | 2.766 | 2.766 | 0 | %100 |
| 69 | MP1A | X | 0 | 0 | 0 | %100 |
| 70 | MP1A | Z | 2.766 | 2.766 | 0 | %100 |
| 71 | M46 | X | 0 | 0 | 0 | %100 |
| 72 | M46 | Z | .26 | .26 | 0 | %100 |
| 73 | MP2A | X | 0 | 0 | 0 | %100 |
| 74 | MP2A | Z | 2.766 | 2.766 | 0 | %100 |
| 75 | M50 | X | 0 | 0 | 0 | %100 |
| 76 | M50 | Z | 2.766 | 2.766 | 0 | %100 |

Member Distributed Loads (BLC 60 : Structure Wi (210 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 | -.034 | -.034 | 0 | %100 |
| 2 | M5 | Z | .059 | .059 | 0 | %100 |
| 3 | M6 | X | -.506 | -.506 | 0 | %100 |
| 4 | M6 | Z | .877 | .877 | 0 | %100 |
| 5 | M7 | X | -1.148 | -1.148 | 0 | %100 |
| 6 | M7 | Z | 1.989 | 1.989 | 0 | %100 |
| 7 | M8 | X | -.034 | -.034 | 0 | %100 |
| 8 | M8 | Z | .059 | .059 | 0 | %100 |
| 9 | M9 | X | -.506 | -.506 | 0 | %100 |
| 10 | M9 | Z | .877 | .877 | 0 | %100 |
| 11 | M10 | X | -1.148 | -1.148 | 0 | %100 |
| 12 | M10 | Z | 1.989 | 1.989 | 0 | %100 |
| 13 | M11 | X | -.086 | -.086 | 0 | %100 |
| 14 | M11 | Z | .149 | .149 | 0 | %100 |
| 15 | M12 | X | -1.284 | -1.284 | 0 | %100 |
| 16 | M12 | Z | 2.224 | 2.224 | 0 | %100 |
| 17 | M13 | X | -.086 | -.086 | 0 | %100 |
| 18 | M13 | Z | .149 | .149 | 0 | %100 |
| 19 | M14 | X | -1.284 | -1.284 | 0 | %100 |
| 20 | M14 | Z | 2.224 | 2.224 | 0 | %100 |
| 21 | M15 | X | -.707 | -.707 | 0 | %100 |
| 22 | M15 | Z | 1.224 | 1.224 | 0 | %100 |
| 23 | M16 | X | -1.168 | -1.168 | 0 | %100 |
| 24 | M16 | Z | 2.023 | 2.023 | 0 | %100 |
| 25 | M17 | X | -.707 | -.707 | 0 | %100 |
| 26 | M17 | Z | 1.224 | 1.224 | 0 | %100 |
| 27 | M18 | X | -1.135 | -1.135 | 0 | %100 |
| 28 | M18 | Z | 1.966 | 1.966 | 0 | %100 |
| 29 | M19 | X | -.738 | -.738 | 0 | %100 |
| 30 | M19 | Z | 1.279 | 1.279 | 0 | %100 |
| 31 | M20 | X | -.707 | -.707 | 0 | %100 |
| 32 | M20 | Z | 1.224 | 1.224 | 0 | %100 |
| 33 | M21 | X | -.707 | -.707 | 0 | %100 |
| 34 | M21 | Z | 1.224 | 1.224 | 0 | %100 |
| 35 | M22 | X | -1.105 | -1.105 | 0 | %100 |
| 36 | M22 | Z | 1.914 | 1.914 | 0 | %100 |
| 37 | M23 | X | -1.105 | -1.105 | 0 | %100 |
| 38 | M23 | Z | 1.914 | 1.914 | 0 | %100 |
| 39 | M24 | X | -.968 | -.968 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[ft.] | End Location[ft.] |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 40 | M24 | Z | 1.677 | 1.677 | 0 | %100 |
| 41 | M25 | X | -.738 | -.738 | 0 | %100 |
| 42 | M25 | Z | 1.279 | 1.279 | 0 | %100 |
| 43 | M26 | X | -.707 | -.707 | 0 | %100 |
| 44 | M26 | Z | 1.224 | 1.224 | 0 | %100 |
| 45 | M27 | X | -.811 | -.811 | 0 | %100 |
| 46 | M27 | Z | 1.404 | 1.404 | 0 | %100 |
| 47 | M28 | X | -.707 | -.707 | 0 | %100 |
| 48 | M28 | Z | 1.224 | 1.224 | 0 | %100 |
| 49 | M29 | X | -.73 | -.73 | 0 | %100 |
| 50 | M29 | Z | 1.265 | 1.265 | 0 | %100 |
| 51 | M30 | X | -.738 | -.738 | 0 | %100 |
| 52 | M30 | Z | 1.279 | 1.279 | 0 | %100 |
| 53 | M31 | X | -.707 | -.707 | 0 | %100 |
| 54 | M31 | Z | 1.224 | 1.224 | 0 | %100 |
| 55 | M32 | X | -.707 | -.707 | 0 | %100 |
| 56 | M32 | Z | 1.224 | 1.224 | 0 | %100 |
| 57 | M33 | X | -1.105 | -1.105 | 0 | %100 |
| 58 | M33 | Z | 1.914 | 1.914 | 0 | %100 |
| 59 | M34 | X | -1.105 | -1.105 | 0 | %100 |
| 60 | M34 | Z | 1.914 | 1.914 | 0 | %100 |
| 61 | M35 | X | -.968 | -.968 | 0 | %100 |
| 62 | M35 | Z | 1.677 | 1.677 | 0 | %100 |
| 63 | M36 | X | -.738 | -.738 | 0 | %100 |
| 64 | M36 | Z | 1.279 | 1.279 | 0 | %100 |
| 65 | MP4A | X | -1.383 | -1.383 | 0 | %100 |
| 66 | MP4A | Z | 2.396 | 2.396 | 0 | %100 |
| 67 | MP3A | X | -1.383 | -1.383 | 0 | %100 |
| 68 | MP3A | Z | 2.396 | 2.396 | 0 | %100 |
| 69 | MP1A | X | -1.383 | -1.383 | 0 | %100 |
| 70 | MP1A | Z | 2.396 | 2.396 | 0 | %100 |
| 71 | M46 | X | -.101 | -.101 | 0 | %100 |
| 72 | M46 | Z | .175 | .175 | 0 | %100 |
| 73 | MP2A | X | -1.383 | -1.383 | 0 | %100 |
| 74 | MP2A | Z | 2.396 | 2.396 | 0 | %100 |
| 75 | M50 | X | -1.383 | -1.383 | 0 | %100 |
| 76 | M50 | Z | 2.396 | 2.396 | 0 | %100 |

Member Distributed Loads (BLC 61 : Structure Wi (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 | -.068 | -.068 | 0 | %100 |
| 2 | M5 | Z | .039 | .039 | 0 | %100 |
| 3 | M6 | X | -.886 | -.886 | 0 | %100 |
| 4 | M6 | Z | .511 | .511 | 0 | %100 |
| 5 | M7 | X | -.663 | -.663 | 0 | %100 |
| 6 | M7 | Z | .383 | .383 | 0 | %100 |
| 7 | M8 | X | -.068 | -.068 | 0 | %100 |
| 8 | M8 | Z | .039 | .039 | 0 | %100 |
| 9 | M9 | X | -.886 | -.886 | 0 | %100 |
| 10 | M9 | Z | .511 | .511 | 0 | %100 |
| 11 | M10 | X | -.663 | -.663 | 0 | %100 |
| 12 | M10 | Z | .383 | .383 | 0 | %100 |
| 13 | M11 | X | -.172 | -.172 | 0 | %100 |
| 14 | M11 | Z | .099 | .099 | 0 | %100 |
| 15 | M12 | X | -2.247 | -2.247 | 0 | %100 |
| 16 | M12 | Z | 1.297 | 1.297 | 0 | %100 |
| 17 | M13 | X | -.172 | -.172 | 0 | %100 |
| 18 | M13 | Z | .099 | .099 | 0 | %100 |
| 19 | M14 | X | -2.247 | -2.247 | 0 | %100 |
| 20 | M14 | Z | 1.297 | 1.297 | 0 | %100 |
| 21 | M15 | X | -1.89 | -1.89 | 0 | %100 |

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.. |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 22 | M15 | Z | 1.091 | 1.091 | 0 | %100 |
| 23 | M16 | X | -2.029 | -2.029 | 0 | %100 |
| 24 | M16 | Z | 1.172 | 1.172 | 0 | %100 |
| 25 | M17 | X | -1.89 | -1.89 | 0 | %100 |
| 26 | M17 | Z | 1.091 | 1.091 | 0 | %100 |
| 27 | M18 | X | -1.974 | -1.974 | 0 | %100 |
| 28 | M18 | Z | 1.14 | 1.14 | 0 | %100 |
| 29 | M19 | X | -1.91 | -1.91 | 0 | %100 |
| 30 | M19 | Z | 1.103 | 1.103 | 0 | %100 |
| 31 | M20 | X | -1.89 | -1.89 | 0 | %100 |
| 32 | M20 | Z | 1.091 | 1.091 | 0 | %100 |
| 33 | M21 | X | -1.89 | -1.89 | 0 | %100 |
| 34 | M21 | Z | 1.091 | 1.091 | 0 | %100 |
| 35 | M22 | X | -1.914 | -1.914 | 0 | %100 |
| 36 | M22 | Z | 1.105 | 1.105 | 0 | %100 |
| 37 | M23 | X | -1.914 | -1.914 | 0 | %100 |
| 38 | M23 | Z | 1.105 | 1.105 | 0 | %100 |
| 39 | M24 | X | -1.677 | -1.677 | 0 | %100 |
| 40 | M24 | Z | .968 | .968 | 0 | %100 |
| 41 | M25 | X | -1.91 | -1.91 | 0 | %100 |
| 42 | M25 | Z | 1.103 | 1.103 | 0 | %100 |
| 43 | M26 | X | -1.89 | -1.89 | 0 | %100 |
| 44 | M26 | Z | 1.091 | 1.091 | 0 | %100 |
| 45 | M27 | X | -1.411 | -1.411 | 0 | %100 |
| 46 | M27 | Z | .814 | .814 | 0 | %100 |
| 47 | M28 | X | -1.89 | -1.89 | 0 | %100 |
| 48 | M28 | Z | 1.091 | 1.091 | 0 | %100 |
| 49 | M29 | X | -1.272 | -1.272 | 0 | %100 |
| 50 | M29 | Z | .735 | .735 | 0 | %100 |
| 51 | M30 | X | -1.91 | -1.91 | 0 | %100 |
| 52 | M30 | Z | 1.103 | 1.103 | 0 | %100 |
| 53 | M31 | X | -1.89 | -1.89 | 0 | %100 |
| 54 | M31 | Z | 1.091 | 1.091 | 0 | %100 |
| 55 | M32 | X | -1.89 | -1.89 | 0 | %100 |
| 56 | M32 | Z | 1.091 | 1.091 | 0 | %100 |
| 57 | M33 | X | -1.914 | -1.914 | 0 | %100 |
| 58 | M33 | Z | 1.105 | 1.105 | 0 | %100 |
| 59 | M34 | X | -1.914 | -1.914 | 0 | %100 |
| 60 | M34 | Z | 1.105 | 1.105 | 0 | %100 |
| 61 | M35 | X | -1.677 | -1.677 | 0 | %100 |
| 62 | M35 | Z | .968 | .968 | 0 | %100 |
| 63 | M36 | X | -1.91 | -1.91 | 0 | %100 |
| 64 | M36 | Z | 1.103 | 1.103 | 0 | %100 |
| 65 | MP4A | X | -2.396 | -2.396 | 0 | %100 |
| 66 | MP4A | Z | 1.383 | 1.383 | 0 | %100 |
| 67 | MP3A | X | -2.396 | -2.396 | 0 | %100 |
| 68 | MP3A | Z | 1.383 | 1.383 | 0 | %100 |
| 69 | MP1A | X | -2.396 | -2.396 | 0 | %100 |
| 70 | MP1A | Z | 1.383 | 1.383 | 0 | %100 |
| 71 | M46 | X | -1.435 | -1.435 | 0 | %100 |
| 72 | M46 | Z | .829 | .829 | 0 | %100 |
| 73 | MP2A | X | -2.396 | -2.396 | 0 | %100 |
| 74 | MP2A | Z | 1.383 | 1.383 | 0 | %100 |
| 75 | M50 | X | -2.396 | -2.396 | 0 | %100 |
| 76 | M50 | Z | 1.383 | 1.383 | 0 | %100 |

Member Distributed Loads (BLC 62 : Structure Wi (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 | -.556 | -.556 | 0 | %100 |
| 2 | M5 | Z | 0 | 0 | 0 | %100 |
| 3 | M6 | X | -.556 | -.556 | 0 | %100 |

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 Locationft. | End Locationft. |
|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 4 | M6 | Z | 0 | 0 | %100 |
| 5 | M7 | X | 0 | 0 | %100 |
| 6 | M7 | Z | 0 | 0 | %100 |
| 7 | M8 | X | -556 | -556 | 0 |
| 8 | M8 | Z | 0 | 0 | %100 |
| 9 | M9 | X | -556 | -556 | 0 |
| 10 | M9 | Z | 0 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | %100 |
| 12 | M10 | Z | 0 | 0 | %100 |
| 13 | M11 | X | -1.41 | -1.41 | 0 |
| 14 | M11 | Z | 0 | 0 | %100 |
| 15 | M12 | X | -1.41 | -1.41 | 0 |
| 16 | M12 | Z | 0 | 0 | %100 |
| 17 | M13 | X | -1.41 | -1.41 | 0 |
| 18 | M13 | Z | 0 | 0 | %100 |
| 19 | M14 | X | -1.41 | -1.41 | 0 |
| 20 | M14 | Z | 0 | 0 | %100 |
| 21 | M15 | X | -2.567 | -2.567 | 0 |
| 22 | M15 | Z | 0 | 0 | %100 |
| 23 | M16 | X | -1.99 | -1.99 | 0 |
| 24 | M16 | Z | 0 | 0 | %100 |
| 25 | M17 | X | -2.567 | -2.567 | 0 |
| 26 | M17 | Z | 0 | 0 | %100 |
| 27 | M18 | X | -1.879 | -1.879 | 0 |
| 28 | M18 | Z | 0 | 0 | %100 |
| 29 | M19 | X | -2.57 | -2.57 | 0 |
| 30 | M19 | Z | 0 | 0 | %100 |
| 31 | M20 | X | -2.567 | -2.567 | 0 |
| 32 | M20 | Z | 0 | 0 | %100 |
| 33 | M21 | X | -2.567 | -2.567 | 0 |
| 34 | M21 | Z | 0 | 0 | %100 |
| 35 | M22 | X | -2.21 | -2.21 | 0 |
| 36 | M22 | Z | 0 | 0 | %100 |
| 37 | M23 | X | -2.21 | -2.21 | 0 |
| 38 | M23 | Z | 0 | 0 | %100 |
| 39 | M24 | X | -1.937 | -1.937 | 0 |
| 40 | M24 | Z | 0 | 0 | %100 |
| 41 | M25 | X | -2.57 | -2.57 | 0 |
| 42 | M25 | Z | 0 | 0 | %100 |
| 43 | M26 | X | -2.567 | -2.567 | 0 |
| 44 | M26 | Z | 0 | 0 | %100 |
| 45 | M27 | X | -1.99 | -1.99 | 0 |
| 46 | M27 | Z | 0 | 0 | %100 |
| 47 | M28 | X | -2.567 | -2.567 | 0 |
| 48 | M28 | Z | 0 | 0 | %100 |
| 49 | M29 | X | -1.879 | -1.879 | 0 |
| 50 | M29 | Z | 0 | 0 | %100 |
| 51 | M30 | X | -2.57 | -2.57 | 0 |
| 52 | M30 | Z | 0 | 0 | %100 |
| 53 | M31 | X | -2.567 | -2.567 | 0 |
| 54 | M31 | Z | 0 | 0 | %100 |
| 55 | M32 | X | -2.567 | -2.567 | 0 |
| 56 | M32 | Z | 0 | 0 | %100 |
| 57 | M33 | X | -2.21 | -2.21 | 0 |
| 58 | M33 | Z | 0 | 0 | %100 |
| 59 | M34 | X | -2.21 | -2.21 | 0 |
| 60 | M34 | Z | 0 | 0 | %100 |
| 61 | M35 | X | -1.937 | -1.937 | 0 |
| 62 | M35 | Z | 0 | 0 | %100 |
| 63 | M36 | X | -2.57 | -2.57 | 0 |
| 64 | M36 | Z | 0 | 0 | %100 |

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[f.. | End Location[ft.. |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 65 | MP4A | X | -2.766 | -2.766 | 0 | %100 |
| 66 | MP4A | Z | 0 | 0 | 0 | %100 |
| 67 | MP3A | X | -2.766 | -2.766 | 0 | %100 |
| 68 | MP3A | Z | 0 | 0 | 0 | %100 |
| 69 | MP1A | X | -2.766 | -2.766 | 0 | %100 |
| 70 | MP1A | Z | 0 | 0 | 0 | %100 |
| 71 | M46 | X | -3.171 | -3.171 | 0 | %100 |
| 72 | M46 | Z | 0 | 0 | 0 | %100 |
| 73 | MP2A | X | -2.766 | -2.766 | 0 | %100 |
| 74 | MP2A | Z | 0 | 0 | 0 | %100 |
| 75 | M50 | X | -2.766 | -2.766 | 0 | %100 |
| 76 | M50 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f.. | End Location[ft.. |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|-------------------|
| 1 | M5 | X | -886 | -886 | 0 | %100 |
| 2 | M5 | Z | -511 | -511 | 0 | %100 |
| 3 | M6 | X | -068 | -068 | 0 | %100 |
| 4 | M6 | Z | -039 | -039 | 0 | %100 |
| 5 | M7 | X | -663 | -663 | 0 | %100 |
| 6 | M7 | Z | -383 | -383 | 0 | %100 |
| 7 | M8 | X | -886 | -886 | 0 | %100 |
| 8 | M8 | Z | -511 | -511 | 0 | %100 |
| 9 | M9 | X | -068 | -068 | 0 | %100 |
| 10 | M9 | Z | -039 | -039 | 0 | %100 |
| 11 | M10 | X | -663 | -663 | 0 | %100 |
| 12 | M10 | Z | -383 | -383 | 0 | %100 |
| 13 | M11 | X | -2.247 | -2.247 | 0 | %100 |
| 14 | M11 | Z | -1.297 | -1.297 | 0 | %100 |
| 15 | M12 | X | -172 | -172 | 0 | %100 |
| 16 | M12 | Z | -099 | -099 | 0 | %100 |
| 17 | M13 | X | -2.247 | -2.247 | 0 | %100 |
| 18 | M13 | Z | -1.297 | -1.297 | 0 | %100 |
| 19 | M14 | X | -172 | -172 | 0 | %100 |
| 20 | M14 | Z | -099 | -099 | 0 | %100 |
| 21 | M15 | X | -1.89 | -1.89 | 0 | %100 |
| 22 | M15 | Z | -1.091 | -1.091 | 0 | %100 |
| 23 | M16 | X | -1.411 | -1.411 | 0 | %100 |
| 24 | M16 | Z | -814 | -814 | 0 | %100 |
| 25 | M17 | X | -1.89 | -1.89 | 0 | %100 |
| 26 | M17 | Z | -1.091 | -1.091 | 0 | %100 |
| 27 | M18 | X | -1.272 | -1.272 | 0 | %100 |
| 28 | M18 | Z | -735 | -735 | 0 | %100 |
| 29 | M19 | X | -1.91 | -1.91 | 0 | %100 |
| 30 | M19 | Z | -1.103 | -1.103 | 0 | %100 |
| 31 | M20 | X | -1.89 | -1.89 | 0 | %100 |
| 32 | M20 | Z | -1.091 | -1.091 | 0 | %100 |
| 33 | M21 | X | -1.89 | -1.89 | 0 | %100 |
| 34 | M21 | Z | -1.091 | -1.091 | 0 | %100 |
| 35 | M22 | X | -1.914 | -1.914 | 0 | %100 |
| 36 | M22 | Z | -1.105 | -1.105 | 0 | %100 |
| 37 | M23 | X | -1.914 | -1.914 | 0 | %100 |
| 38 | M23 | Z | -1.105 | -1.105 | 0 | %100 |
| 39 | M24 | X | -1.677 | -1.677 | 0 | %100 |
| 40 | M24 | Z | -968 | -968 | 0 | %100 |
| 41 | M25 | X | -1.91 | -1.91 | 0 | %100 |
| 42 | M25 | Z | -1.103 | -1.103 | 0 | %100 |
| 43 | M26 | X | -1.89 | -1.89 | 0 | %100 |
| 44 | M26 | Z | -1.091 | -1.091 | 0 | %100 |
| 45 | M27 | X | -2.029 | -2.029 | 0 | %100 |
| 46 | M27 | Z | -1.172 | -1.172 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[ft] | End Location[ft] |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|------------------|
| 47 | M28 | X | -1.89 | -1.89 | 0 | %100 |
| 48 | M28 | Z | -1.091 | -1.091 | 0 | %100 |
| 49 | M29 | X | -1.974 | -1.974 | 0 | %100 |
| 50 | M29 | Z | -1.14 | -1.14 | 0 | %100 |
| 51 | M30 | X | -1.91 | -1.91 | 0 | %100 |
| 52 | M30 | Z | -1.103 | -1.103 | 0 | %100 |
| 53 | M31 | X | -1.89 | -1.89 | 0 | %100 |
| 54 | M31 | Z | -1.091 | -1.091 | 0 | %100 |
| 55 | M32 | X | -1.89 | -1.89 | 0 | %100 |
| 56 | M32 | Z | -1.091 | -1.091 | 0 | %100 |
| 57 | M33 | X | -1.914 | -1.914 | 0 | %100 |
| 58 | M33 | Z | -1.105 | -1.105 | 0 | %100 |
| 59 | M34 | X | -1.914 | -1.914 | 0 | %100 |
| 60 | M34 | Z | -1.105 | -1.105 | 0 | %100 |
| 61 | M35 | X | -1.677 | -1.677 | 0 | %100 |
| 62 | M35 | Z | -.968 | -.968 | 0 | %100 |
| 63 | M36 | X | -1.91 | -1.91 | 0 | %100 |
| 64 | M36 | Z | -1.103 | -1.103 | 0 | %100 |
| 65 | MP4A | X | -2.396 | -2.396 | 0 | %100 |
| 66 | MP4A | Z | -1.383 | -1.383 | 0 | %100 |
| 67 | MP3A | X | -2.396 | -2.396 | 0 | %100 |
| 68 | MP3A | Z | -1.383 | -1.383 | 0 | %100 |
| 69 | MP1A | X | -2.396 | -2.396 | 0 | %100 |
| 70 | MP1A | Z | -1.383 | -1.383 | 0 | %100 |
| 71 | M46 | X | -2.797 | -2.797 | 0 | %100 |
| 72 | M46 | Z | -1.615 | -1.615 | 0 | %100 |
| 73 | MP2A | X | -2.396 | -2.396 | 0 | %100 |
| 74 | MP2A | Z | -1.383 | -1.383 | 0 | %100 |
| 75 | M50 | X | -2.396 | -2.396 | 0 | %100 |
| 76 | M50 | Z | -1.383 | -1.383 | 0 | %100 |

Member Distributed Loads (BLC 64 : Structure Wi (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 | -.506 | -.506 | 0 | %100 |
| 2 | M5 | Z | -.877 | -.877 | 0 | %100 |
| 3 | M6 | X | -.034 | -.034 | 0 | %100 |
| 4 | M6 | Z | -.059 | -.059 | 0 | %100 |
| 5 | M7 | X | -1.148 | -1.148 | 0 | %100 |
| 6 | M7 | Z | -1.989 | -1.989 | 0 | %100 |
| 7 | M8 | X | -.506 | -.506 | 0 | %100 |
| 8 | M8 | Z | -.877 | -.877 | 0 | %100 |
| 9 | M9 | X | -.034 | -.034 | 0 | %100 |
| 10 | M9 | Z | -.059 | -.059 | 0 | %100 |
| 11 | M10 | X | -1.148 | -1.148 | 0 | %100 |
| 12 | M10 | Z | -1.989 | -1.989 | 0 | %100 |
| 13 | M11 | X | -1.284 | -1.284 | 0 | %100 |
| 14 | M11 | Z | -2.224 | -2.224 | 0 | %100 |
| 15 | M12 | X | -.086 | -.086 | 0 | %100 |
| 16 | M12 | Z | -.149 | -.149 | 0 | %100 |
| 17 | M13 | X | -1.284 | -1.284 | 0 | %100 |
| 18 | M13 | Z | -2.224 | -2.224 | 0 | %100 |
| 19 | M14 | X | -.086 | -.086 | 0 | %100 |
| 20 | M14 | Z | -.149 | -.149 | 0 | %100 |
| 21 | M15 | X | -.707 | -.707 | 0 | %100 |
| 22 | M15 | Z | -1.224 | -1.224 | 0 | %100 |
| 23 | M16 | X | -.811 | -.811 | 0 | %100 |
| 24 | M16 | Z | -1.404 | -1.404 | 0 | %100 |
| 25 | M17 | X | -.707 | -.707 | 0 | %100 |
| 26 | M17 | Z | -1.224 | -1.224 | 0 | %100 |
| 27 | M18 | X | -.73 | -.73 | 0 | %100 |
| 28 | M18 | Z | -1.265 | -1.265 | 0 | %100 |

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] |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|------------------|
| 29 | M19 | X | -738 | -738 | 0 | %100 |
| 30 | M19 | Z | -1.279 | -1.279 | 0 | %100 |
| 31 | M20 | X | -707 | -707 | 0 | %100 |
| 32 | M20 | Z | -1.224 | -1.224 | 0 | %100 |
| 33 | M21 | X | -707 | -707 | 0 | %100 |
| 34 | M21 | Z | -1.224 | -1.224 | 0 | %100 |
| 35 | M22 | X | -1.105 | -1.105 | 0 | %100 |
| 36 | M22 | Z | -1.914 | -1.914 | 0 | %100 |
| 37 | M23 | X | -1.105 | -1.105 | 0 | %100 |
| 38 | M23 | Z | -1.914 | -1.914 | 0 | %100 |
| 39 | M24 | X | -968 | -968 | 0 | %100 |
| 40 | M24 | Z | -1.677 | -1.677 | 0 | %100 |
| 41 | M25 | X | -738 | -738 | 0 | %100 |
| 42 | M25 | Z | -1.279 | -1.279 | 0 | %100 |
| 43 | M26 | X | -707 | -707 | 0 | %100 |
| 44 | M26 | Z | -1.224 | -1.224 | 0 | %100 |
| 45 | M27 | X | -1.168 | -1.168 | 0 | %100 |
| 46 | M27 | Z | -2.023 | -2.023 | 0 | %100 |
| 47 | M28 | X | -707 | -707 | 0 | %100 |
| 48 | M28 | Z | -1.224 | -1.224 | 0 | %100 |
| 49 | M29 | X | -1.135 | -1.135 | 0 | %100 |
| 50 | M29 | Z | -1.966 | -1.966 | 0 | %100 |
| 51 | M30 | X | -738 | -738 | 0 | %100 |
| 52 | M30 | Z | -1.279 | -1.279 | 0 | %100 |
| 53 | M31 | X | -707 | -707 | 0 | %100 |
| 54 | M31 | Z | -1.224 | -1.224 | 0 | %100 |
| 55 | M32 | X | -707 | -707 | 0 | %100 |
| 56 | M32 | Z | -1.224 | -1.224 | 0 | %100 |
| 57 | M33 | X | -1.105 | -1.105 | 0 | %100 |
| 58 | M33 | Z | -1.914 | -1.914 | 0 | %100 |
| 59 | M34 | X | -1.105 | -1.105 | 0 | %100 |
| 60 | M34 | Z | -1.914 | -1.914 | 0 | %100 |
| 61 | M35 | X | -968 | -968 | 0 | %100 |
| 62 | M35 | Z | -1.677 | -1.677 | 0 | %100 |
| 63 | M36 | X | -738 | -738 | 0 | %100 |
| 64 | M36 | Z | -1.279 | -1.279 | 0 | %100 |
| 65 | MP4A | X | -1.383 | -1.383 | 0 | %100 |
| 66 | MP4A | Z | -2.396 | -2.396 | 0 | %100 |
| 67 | MP3A | X | -1.383 | -1.383 | 0 | %100 |
| 68 | MP3A | Z | -2.396 | -2.396 | 0 | %100 |
| 69 | MP1A | X | -1.383 | -1.383 | 0 | %100 |
| 70 | MP1A | Z | -2.396 | -2.396 | 0 | %100 |
| 71 | M46 | X | -887 | -887 | 0 | %100 |
| 72 | M46 | Z | -1.536 | -1.536 | 0 | %100 |
| 73 | MP2A | X | -1.383 | -1.383 | 0 | %100 |
| 74 | MP2A | Z | -2.396 | -2.396 | 0 | %100 |
| 75 | M50 | X | -1.383 | -1.383 | 0 | %100 |
| 76 | M50 | Z | -2.396 | -2.396 | 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 | -0.052 | -0.052 | 0 | %100 |
| 3 | M6 | X | 0 | 0 | 0 | %100 |
| 4 | M6 | Z | -0.052 | -0.052 | 0 | %100 |
| 5 | M7 | X | 0 | 0 | 0 | %100 |
| 6 | M7 | Z | -0.611 | -0.611 | 0 | %100 |
| 7 | M8 | X | 0 | 0 | 0 | %100 |
| 8 | M8 | Z | -0.052 | -0.052 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | 0 | %100 |
| 10 | M9 | Z | -0.052 | -0.052 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(lb/ft.F.ksf) | End Magnitude(lb/ft.F.ksf) | Start Locationft. | End Locationft. |
|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 11 | M10 | X | 0 | 0 | %100 |
| 12 | M10 | Z | -611 | -611 | 0 |
| 13 | M11 | X | 0 | 0 | %100 |
| 14 | M11 | Z | -248 | -248 | 0 |
| 15 | M12 | X | 0 | 0 | %100 |
| 16 | M12 | Z | -248 | -248 | 0 |
| 17 | M13 | X | 0 | 0 | %100 |
| 18 | M13 | Z | -248 | -248 | 0 |
| 19 | M14 | X | 0 | 0 | %100 |
| 20 | M14 | Z | -248 | -248 | 0 |
| 21 | M15 | X | 0 | 0 | %100 |
| 22 | M15 | Z | -084 | -084 | 0 |
| 23 | M16 | X | 0 | 0 | %100 |
| 24 | M16 | Z | -333 | -333 | 0 |
| 25 | M17 | X | 0 | 0 | %100 |
| 26 | M17 | Z | -084 | -084 | 0 |
| 27 | M18 | X | 0 | 0 | %100 |
| 28 | M18 | Z | -316 | -316 | 0 |
| 29 | M19 | X | 0 | 0 | %100 |
| 30 | M19 | Z | -113 | -113 | 0 |
| 31 | M20 | X | 0 | 0 | %100 |
| 32 | M20 | Z | -084 | -084 | 0 |
| 33 | M21 | X | 0 | 0 | %100 |
| 34 | M21 | Z | -084 | -084 | 0 |
| 35 | M22 | X | 0 | 0 | %100 |
| 36 | M22 | Z | -374 | -374 | 0 |
| 37 | M23 | X | 0 | 0 | %100 |
| 38 | M23 | Z | -374 | -374 | 0 |
| 39 | M24 | X | 0 | 0 | %100 |
| 40 | M24 | Z | -312 | -312 | 0 |
| 41 | M25 | X | 0 | 0 | %100 |
| 42 | M25 | Z | -113 | -113 | 0 |
| 43 | M26 | X | 0 | 0 | %100 |
| 44 | M26 | Z | -084 | -084 | 0 |
| 45 | M27 | X | 0 | 0 | %100 |
| 46 | M27 | Z | -333 | -333 | 0 |
| 47 | M28 | X | 0 | 0 | %100 |
| 48 | M28 | Z | -084 | -084 | 0 |
| 49 | M29 | X | 0 | 0 | %100 |
| 50 | M29 | Z | -316 | -316 | 0 |
| 51 | M30 | X | 0 | 0 | %100 |
| 52 | M30 | Z | -113 | -113 | 0 |
| 53 | M31 | X | 0 | 0 | %100 |
| 54 | M31 | Z | -084 | -084 | 0 |
| 55 | M32 | X | 0 | 0 | %100 |
| 56 | M32 | Z | -084 | -084 | 0 |
| 57 | M33 | X | 0 | 0 | %100 |
| 58 | M33 | Z | -374 | -374 | 0 |
| 59 | M34 | X | 0 | 0 | %100 |
| 60 | M34 | Z | -374 | -374 | 0 |
| 61 | M35 | X | 0 | 0 | %100 |
| 62 | M35 | Z | -312 | -312 | 0 |
| 63 | M36 | X | 0 | 0 | %100 |
| 64 | M36 | Z | -113 | -113 | 0 |
| 65 | MP4A | X | 0 | 0 | %100 |
| 66 | MP4A | Z | -505 | -505 | 0 |
| 67 | MP3A | X | 0 | 0 | %100 |
| 68 | MP3A | Z | -505 | -505 | 0 |
| 69 | MP1A | X | 0 | 0 | %100 |
| 70 | MP1A | Z | -505 | -505 | 0 |
| 71 | M46 | X | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[ft.] | End Location[ft.] |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 72 | M46 | Z | -.056 | -.056 | 0 | %100 |
| 73 | MP2A | X | 0 | 0 | 0 | %100 |
| 74 | MP2A | Z | -.505 | -.505 | 0 | %100 |
| 75 | M50 | X | 0 | 0 | 0 | %100 |
| 76 | M50 | Z | -.505 | -.505 | 0 | %100 |

Member Distributed Loads (BLC 66 : Structure Wm (30 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 | .003 | .003 | 0 | %100 |
| 2 | M5 | Z | -.006 | -.006 | 0 | %100 |
| 3 | M6 | X | .049 | .049 | 0 | %100 |
| 4 | M6 | Z | -.085 | -.085 | 0 | %100 |
| 5 | M7 | X | .229 | .229 | 0 | %100 |
| 6 | M7 | Z | -.397 | -.397 | 0 | %100 |
| 7 | M8 | X | .003 | .003 | 0 | %100 |
| 8 | M8 | Z | -.006 | -.006 | 0 | %100 |
| 9 | M9 | X | .049 | .049 | 0 | %100 |
| 10 | M9 | Z | -.085 | -.085 | 0 | %100 |
| 11 | M10 | X | .229 | .229 | 0 | %100 |
| 12 | M10 | Z | -.397 | -.397 | 0 | %100 |
| 13 | M11 | X | .016 | .016 | 0 | %100 |
| 14 | M11 | Z | -.027 | -.027 | 0 | %100 |
| 15 | M12 | X | .234 | .234 | 0 | %100 |
| 16 | M12 | Z | -.406 | -.406 | 0 | %100 |
| 17 | M13 | X | .016 | .016 | 0 | %100 |
| 18 | M13 | Z | -.027 | -.027 | 0 | %100 |
| 19 | M14 | X | .234 | .234 | 0 | %100 |
| 20 | M14 | Z | -.406 | -.406 | 0 | %100 |
| 21 | M15 | X | .111 | .111 | 0 | %100 |
| 22 | M15 | Z | -.193 | -.193 | 0 | %100 |
| 23 | M16 | X | .197 | .197 | 0 | %100 |
| 24 | M16 | Z | -.341 | -.341 | 0 | %100 |
| 25 | M17 | X | .111 | .111 | 0 | %100 |
| 26 | M17 | Z | -.193 | -.193 | 0 | %100 |
| 27 | M18 | X | .193 | .193 | 0 | %100 |
| 28 | M18 | Z | -.334 | -.334 | 0 | %100 |
| 29 | M19 | X | .122 | .122 | 0 | %100 |
| 30 | M19 | Z | -.211 | -.211 | 0 | %100 |
| 31 | M20 | X | .111 | .111 | 0 | %100 |
| 32 | M20 | Z | -.193 | -.193 | 0 | %100 |
| 33 | M21 | X | .111 | .111 | 0 | %100 |
| 34 | M21 | Z | -.193 | -.193 | 0 | %100 |
| 35 | M22 | X | .187 | .187 | 0 | %100 |
| 36 | M22 | Z | -.324 | -.324 | 0 | %100 |
| 37 | M23 | X | .187 | .187 | 0 | %100 |
| 38 | M23 | Z | -.324 | -.324 | 0 | %100 |
| 39 | M24 | X | .156 | .156 | 0 | %100 |
| 40 | M24 | Z | -.27 | -.27 | 0 | %100 |
| 41 | M25 | X | .122 | .122 | 0 | %100 |
| 42 | M25 | Z | -.211 | -.211 | 0 | %100 |
| 43 | M26 | X | .111 | .111 | 0 | %100 |
| 44 | M26 | Z | -.193 | -.193 | 0 | %100 |
| 45 | M27 | X | .137 | .137 | 0 | %100 |
| 46 | M27 | Z | -.237 | -.237 | 0 | %100 |
| 47 | M28 | X | .111 | .111 | 0 | %100 |
| 48 | M28 | Z | -.193 | -.193 | 0 | %100 |
| 49 | M29 | X | .124 | .124 | 0 | %100 |
| 50 | M29 | Z | -.215 | -.215 | 0 | %100 |
| 51 | M30 | X | .122 | .122 | 0 | %100 |
| 52 | M30 | Z | -.211 | -.211 | 0 | %100 |
| 53 | M31 | X | .111 | .111 | 0 | %100 |

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 Locationft. | End Locationft. |
|----|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 54 | M31 | Z | -.193 | -.193 | 0 | %100 |
| 55 | M32 | X | .111 | .111 | 0 | %100 |
| 56 | M32 | Z | -.193 | -.193 | 0 | %100 |
| 57 | M33 | X | .187 | .187 | 0 | %100 |
| 58 | M33 | Z | -.324 | -.324 | 0 | %100 |
| 59 | M34 | X | .187 | .187 | 0 | %100 |
| 60 | M34 | Z | -.324 | -.324 | 0 | %100 |
| 61 | M35 | X | .156 | .156 | 0 | %100 |
| 62 | M35 | Z | -.27 | -.27 | 0 | %100 |
| 63 | M36 | X | .122 | .122 | 0 | %100 |
| 64 | M36 | Z | -.211 | -.211 | 0 | %100 |
| 65 | MP4A | X | .252 | .252 | 0 | %100 |
| 66 | MP4A | Z | -.437 | -.437 | 0 | %100 |
| 67 | MP3A | X | .252 | .252 | 0 | %100 |
| 68 | MP3A | Z | -.437 | -.437 | 0 | %100 |
| 69 | MP1A | X | .252 | .252 | 0 | %100 |
| 70 | MP1A | Z | -.437 | -.437 | 0 | %100 |
| 71 | M46 | X | .022 | .022 | 0 | %100 |
| 72 | M46 | Z | -.038 | -.038 | 0 | %100 |
| 73 | MP2A | X | .252 | .252 | 0 | %100 |
| 74 | MP2A | Z | -.437 | -.437 | 0 | %100 |
| 75 | M50 | X | .252 | .252 | 0 | %100 |
| 76 | M50 | Z | -.437 | -.437 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Locationft. | End Locationft. |
|----|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 1 | M5 | X | .007 | .007 | 0 | %100 |
| 2 | M5 | Z | -.004 | -.004 | 0 | %100 |
| 3 | M6 | X | .086 | .086 | 0 | %100 |
| 4 | M6 | Z | -.05 | -.05 | 0 | %100 |
| 5 | M7 | X | .132 | .132 | 0 | %100 |
| 6 | M7 | Z | -.076 | -.076 | 0 | %100 |
| 7 | M8 | X | .007 | .007 | 0 | %100 |
| 8 | M8 | Z | -.004 | -.004 | 0 | %100 |
| 9 | M9 | X | .086 | .086 | 0 | %100 |
| 10 | M9 | Z | -.05 | -.05 | 0 | %100 |
| 11 | M10 | X | .132 | .132 | 0 | %100 |
| 12 | M10 | Z | -.076 | -.076 | 0 | %100 |
| 13 | M11 | X | .031 | .031 | 0 | %100 |
| 14 | M11 | Z | -.018 | -.018 | 0 | %100 |
| 15 | M12 | X | .41 | .41 | 0 | %100 |
| 16 | M12 | Z | -.237 | -.237 | 0 | %100 |
| 17 | M13 | X | .031 | .031 | 0 | %100 |
| 18 | M13 | Z | -.018 | -.018 | 0 | %100 |
| 19 | M14 | X | .41 | .41 | 0 | %100 |
| 20 | M14 | Z | -.237 | -.237 | 0 | %100 |
| 21 | M15 | X | .432 | .432 | 0 | %100 |
| 22 | M15 | Z | -.25 | -.25 | 0 | %100 |
| 23 | M16 | X | .342 | .342 | 0 | %100 |
| 24 | M16 | Z | -.198 | -.198 | 0 | %100 |
| 25 | M17 | X | .432 | .432 | 0 | %100 |
| 26 | M17 | Z | -.25 | -.25 | 0 | %100 |
| 27 | M18 | X | .336 | .336 | 0 | %100 |
| 28 | M18 | Z | -.194 | -.194 | 0 | %100 |
| 29 | M19 | X | .439 | .439 | 0 | %100 |
| 30 | M19 | Z | -.253 | -.253 | 0 | %100 |
| 31 | M20 | X | .432 | .432 | 0 | %100 |
| 32 | M20 | Z | -.25 | -.25 | 0 | %100 |
| 33 | M21 | X | .432 | .432 | 0 | %100 |
| 34 | M21 | Z | -.25 | -.25 | 0 | %100 |
| 35 | M22 | X | .324 | .324 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[ft.] | End Location[ft.] |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 36 | M22 | Z | -.187 | -.187 | 0 | %100 |
| 37 | M23 | X | .324 | .324 | 0 | %100 |
| 38 | M23 | Z | -.187 | -.187 | 0 | %100 |
| 39 | M24 | X | .27 | .27 | 0 | %100 |
| 40 | M24 | Z | -.156 | -.156 | 0 | %100 |
| 41 | M25 | X | .439 | .439 | 0 | %100 |
| 42 | M25 | Z | -.253 | -.253 | 0 | %100 |
| 43 | M26 | X | .432 | .432 | 0 | %100 |
| 44 | M26 | Z | -.25 | -.25 | 0 | %100 |
| 45 | M27 | X | .238 | .238 | 0 | %100 |
| 46 | M27 | Z | -.137 | -.137 | 0 | %100 |
| 47 | M28 | X | .432 | .432 | 0 | %100 |
| 48 | M28 | Z | -.25 | -.25 | 0 | %100 |
| 49 | M29 | X | .216 | .216 | 0 | %100 |
| 50 | M29 | Z | -.125 | -.125 | 0 | %100 |
| 51 | M30 | X | .439 | .439 | 0 | %100 |
| 52 | M30 | Z | -.253 | -.253 | 0 | %100 |
| 53 | M31 | X | .432 | .432 | 0 | %100 |
| 54 | M31 | Z | -.25 | -.25 | 0 | %100 |
| 55 | M32 | X | .432 | .432 | 0 | %100 |
| 56 | M32 | Z | -.25 | -.25 | 0 | %100 |
| 57 | M33 | X | .324 | .324 | 0 | %100 |
| 58 | M33 | Z | -.187 | -.187 | 0 | %100 |
| 59 | M34 | X | .324 | .324 | 0 | %100 |
| 60 | M34 | Z | -.187 | -.187 | 0 | %100 |
| 61 | M35 | X | .27 | .27 | 0 | %100 |
| 62 | M35 | Z | -.156 | -.156 | 0 | %100 |
| 63 | M36 | X | .439 | .439 | 0 | %100 |
| 64 | M36 | Z | -.253 | -.253 | 0 | %100 |
| 65 | MP4A | X | .437 | .437 | 0 | %100 |
| 66 | MP4A | Z | -.252 | -.252 | 0 | %100 |
| 67 | MP3A | X | .437 | .437 | 0 | %100 |
| 68 | MP3A | Z | -.252 | -.252 | 0 | %100 |
| 69 | MP1A | X | .437 | .437 | 0 | %100 |
| 70 | MP1A | Z | -.252 | -.252 | 0 | %100 |
| 71 | M46 | X | .311 | .311 | 0 | %100 |
| 72 | M46 | Z | -.18 | -.18 | 0 | %100 |
| 73 | MP2A | X | .437 | .437 | 0 | %100 |
| 74 | MP2A | Z | -.252 | -.252 | 0 | %100 |
| 75 | M50 | X | .437 | .437 | 0 | %100 |
| 76 | M50 | Z | -.252 | -.252 | 0 | %100 |

Member Distributed Loads (BLC 68 : Structure Wm (90 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 | .054 | .054 | 0 | %100 |
| 2 | M5 | Z | 0 | 0 | 0 | %100 |
| 3 | M6 | X | .054 | .054 | 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 | .054 | .054 | 0 | %100 |
| 8 | M8 | Z | 0 | 0 | 0 | %100 |
| 9 | M9 | X | .054 | .054 | 0 | %100 |
| 10 | M9 | Z | 0 | 0 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | 0 | %100 |
| 12 | M10 | Z | 0 | 0 | 0 | %100 |
| 13 | M11 | X | .257 | .257 | 0 | %100 |
| 14 | M11 | Z | 0 | 0 | 0 | %100 |
| 15 | M12 | X | .257 | .257 | 0 | %100 |
| 16 | M12 | Z | 0 | 0 | 0 | %100 |
| 17 | M13 | X | .257 | .257 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude lb./ft.F.ksfl | End Magnitude lb./ft.F.ksfl | Start Location ft. | End Location ft. |
|----|--------------|-----------|-------------------------------|-----------------------------|--------------------|------------------|
| 18 | M13 | Z | 0 | 0 | 0 | %100 |
| 19 | M14 | X | .257 | .257 | 0 | %100 |
| 20 | M14 | Z | 0 | 0 | 0 | %100 |
| 21 | M15 | X | .638 | .638 | 0 | %100 |
| 22 | M15 | Z | 0 | 0 | 0 | %100 |
| 23 | M16 | X | .336 | .336 | 0 | %100 |
| 24 | M16 | Z | 0 | 0 | 0 | %100 |
| 25 | M17 | X | .638 | .638 | 0 | %100 |
| 26 | M17 | Z | 0 | 0 | 0 | %100 |
| 27 | M18 | X | .319 | .319 | 0 | %100 |
| 28 | M18 | Z | 0 | 0 | 0 | %100 |
| 29 | M19 | X | .638 | .638 | 0 | %100 |
| 30 | M19 | Z | 0 | 0 | 0 | %100 |
| 31 | M20 | X | .638 | .638 | 0 | %100 |
| 32 | M20 | Z | 0 | 0 | 0 | %100 |
| 33 | M21 | X | .638 | .638 | 0 | %100 |
| 34 | M21 | Z | 0 | 0 | 0 | %100 |
| 35 | M22 | X | .374 | .374 | 0 | %100 |
| 36 | M22 | Z | 0 | 0 | 0 | %100 |
| 37 | M23 | X | .374 | .374 | 0 | %100 |
| 38 | M23 | Z | 0 | 0 | 0 | %100 |
| 39 | M24 | X | .312 | .312 | 0 | %100 |
| 40 | M24 | Z | 0 | 0 | 0 | %100 |
| 41 | M25 | X | .638 | .638 | 0 | %100 |
| 42 | M25 | Z | 0 | 0 | 0 | %100 |
| 43 | M26 | X | .638 | .638 | 0 | %100 |
| 44 | M26 | Z | 0 | 0 | 0 | %100 |
| 45 | M27 | X | .336 | .336 | 0 | %100 |
| 46 | M27 | Z | 0 | 0 | 0 | %100 |
| 47 | M28 | X | .638 | .638 | 0 | %100 |
| 48 | M28 | Z | 0 | 0 | 0 | %100 |
| 49 | M29 | X | .319 | .319 | 0 | %100 |
| 50 | M29 | Z | 0 | 0 | 0 | %100 |
| 51 | M30 | X | .638 | .638 | 0 | %100 |
| 52 | M30 | Z | 0 | 0 | 0 | %100 |
| 53 | M31 | X | .638 | .638 | 0 | %100 |
| 54 | M31 | Z | 0 | 0 | 0 | %100 |
| 55 | M32 | X | .638 | .638 | 0 | %100 |
| 56 | M32 | Z | 0 | 0 | 0 | %100 |
| 57 | M33 | X | .374 | .374 | 0 | %100 |
| 58 | M33 | Z | 0 | 0 | 0 | %100 |
| 59 | M34 | X | .374 | .374 | 0 | %100 |
| 60 | M34 | Z | 0 | 0 | 0 | %100 |
| 61 | M35 | X | .312 | .312 | 0 | %100 |
| 62 | M35 | Z | 0 | 0 | 0 | %100 |
| 63 | M36 | X | .638 | .638 | 0 | %100 |
| 64 | M36 | Z | 0 | 0 | 0 | %100 |
| 65 | MP4A | X | .505 | .505 | 0 | %100 |
| 66 | MP4A | Z | 0 | 0 | 0 | %100 |
| 67 | MP3A | X | .505 | .505 | 0 | %100 |
| 68 | MP3A | Z | 0 | 0 | 0 | %100 |
| 69 | MP1A | X | .505 | .505 | 0 | %100 |
| 70 | MP1A | Z | 0 | 0 | 0 | %100 |
| 71 | M46 | X | .688 | .688 | 0 | %100 |
| 72 | M46 | Z | 0 | 0 | 0 | %100 |
| 73 | MP2A | X | .505 | .505 | 0 | %100 |
| 74 | MP2A | Z | 0 | 0 | 0 | %100 |
| 75 | M50 | X | .505 | .505 | 0 | %100 |
| 76 | M50 | Z | 0 | 0 | 0 | %100 |

Member Distributed Loads (BLC 69 : Structure Wm (120 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 | .086 | .086 | 0 %100 |
| 2 | M5 | Z | .05 | .05 | 0 %100 |
| 3 | M6 | X | .007 | .007 | 0 %100 |
| 4 | M6 | Z | .004 | .004 | 0 %100 |
| 5 | M7 | X | .132 | .132 | 0 %100 |
| 6 | M7 | Z | .076 | .076 | 0 %100 |
| 7 | M8 | X | .086 | .086 | 0 %100 |
| 8 | M8 | Z | .05 | .05 | 0 %100 |
| 9 | M9 | X | .007 | .007 | 0 %100 |
| 10 | M9 | Z | .004 | .004 | 0 %100 |
| 11 | M10 | X | .132 | .132 | 0 %100 |
| 12 | M10 | Z | .076 | .076 | 0 %100 |
| 13 | M11 | X | .41 | .41 | 0 %100 |
| 14 | M11 | Z | .237 | .237 | 0 %100 |
| 15 | M12 | X | .031 | .031 | 0 %100 |
| 16 | M12 | Z | .018 | .018 | 0 %100 |
| 17 | M13 | X | .41 | .41 | 0 %100 |
| 18 | M13 | Z | .237 | .237 | 0 %100 |
| 19 | M14 | X | .031 | .031 | 0 %100 |
| 20 | M14 | Z | .018 | .018 | 0 %100 |
| 21 | M15 | X | .432 | .432 | 0 %100 |
| 22 | M15 | Z | .25 | .25 | 0 %100 |
| 23 | M16 | X | .238 | .238 | 0 %100 |
| 24 | M16 | Z | .137 | .137 | 0 %100 |
| 25 | M17 | X | .432 | .432 | 0 %100 |
| 26 | M17 | Z | .25 | .25 | 0 %100 |
| 27 | M18 | X | .216 | .216 | 0 %100 |
| 28 | M18 | Z | .125 | .125 | 0 %100 |
| 29 | M19 | X | .439 | .439 | 0 %100 |
| 30 | M19 | Z | .253 | .253 | 0 %100 |
| 31 | M20 | X | .432 | .432 | 0 %100 |
| 32 | M20 | Z | .25 | .25 | 0 %100 |
| 33 | M21 | X | .432 | .432 | 0 %100 |
| 34 | M21 | Z | .25 | .25 | 0 %100 |
| 35 | M22 | X | .324 | .324 | 0 %100 |
| 36 | M22 | Z | .187 | .187 | 0 %100 |
| 37 | M23 | X | .324 | .324 | 0 %100 |
| 38 | M23 | Z | .187 | .187 | 0 %100 |
| 39 | M24 | X | .27 | .27 | 0 %100 |
| 40 | M24 | Z | .156 | .156 | 0 %100 |
| 41 | M25 | X | .439 | .439 | 0 %100 |
| 42 | M25 | Z | .253 | .253 | 0 %100 |
| 43 | M26 | X | .432 | .432 | 0 %100 |
| 44 | M26 | Z | .25 | .25 | 0 %100 |
| 45 | M27 | X | .342 | .342 | 0 %100 |
| 46 | M27 | Z | .198 | .198 | 0 %100 |
| 47 | M28 | X | .432 | .432 | 0 %100 |
| 48 | M28 | Z | .25 | .25 | 0 %100 |
| 49 | M29 | X | .336 | .336 | 0 %100 |
| 50 | M29 | Z | .194 | .194 | 0 %100 |
| 51 | M30 | X | .439 | .439 | 0 %100 |
| 52 | M30 | Z | .253 | .253 | 0 %100 |
| 53 | M31 | X | .432 | .432 | 0 %100 |
| 54 | M31 | Z | .25 | .25 | 0 %100 |
| 55 | M32 | X | .432 | .432 | 0 %100 |
| 56 | M32 | Z | .25 | .25 | 0 %100 |
| 57 | M33 | X | .324 | .324 | 0 %100 |
| 58 | M33 | Z | .187 | .187 | 0 %100 |
| 59 | M34 | X | .324 | .324 | 0 %100 |
| 60 | M34 | Z | .187 | .187 | 0 %100 |
| 61 | M35 | X | .27 | .27 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Locationff. | End Locationff. |
|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 62 | M35 | Z | .156 | .156 | 0 %100 |
| 63 | M36 | X | .439 | .439 | 0 %100 |
| 64 | M36 | Z | .253 | .253 | 0 %100 |
| 65 | MP4A | X | .437 | .437 | 0 %100 |
| 66 | MP4A | Z | .252 | .252 | 0 %100 |
| 67 | MP3A | X | .437 | .437 | 0 %100 |
| 68 | MP3A | Z | .252 | .252 | 0 %100 |
| 69 | MP1A | X | .437 | .437 | 0 %100 |
| 70 | MP1A | Z | .252 | .252 | 0 %100 |
| 71 | M46 | X | .606 | .606 | 0 %100 |
| 72 | M46 | Z | .35 | .35 | 0 %100 |
| 73 | MP2A | X | .437 | .437 | 0 %100 |
| 74 | MP2A | Z | .252 | .252 | 0 %100 |
| 75 | M50 | X | .437 | .437 | 0 %100 |
| 76 | M50 | Z | .252 | .252 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/ft.F,ksf] | End Magnitude[lb/ft.F,ksf] | Start Locationff. | End Locationff. |
|--------------|-----------|------------------------------|----------------------------|-------------------|-----------------|
| 1 | M5 | X | .049 | .049 | 0 %100 |
| 2 | M5 | Z | .085 | .085 | 0 %100 |
| 3 | M6 | X | .003 | .003 | 0 %100 |
| 4 | M6 | Z | .006 | .006 | 0 %100 |
| 5 | M7 | X | .229 | .229 | 0 %100 |
| 6 | M7 | Z | .397 | .397 | 0 %100 |
| 7 | M8 | X | .049 | .049 | 0 %100 |
| 8 | M8 | Z | .085 | .085 | 0 %100 |
| 9 | M9 | X | .003 | .003 | 0 %100 |
| 10 | M9 | Z | .006 | .006 | 0 %100 |
| 11 | M10 | X | .229 | .229 | 0 %100 |
| 12 | M10 | Z | .397 | .397 | 0 %100 |
| 13 | M11 | X | .234 | .234 | 0 %100 |
| 14 | M11 | Z | .406 | .406 | 0 %100 |
| 15 | M12 | X | .016 | .016 | 0 %100 |
| 16 | M12 | Z | .027 | .027 | 0 %100 |
| 17 | M13 | X | .234 | .234 | 0 %100 |
| 18 | M13 | Z | .406 | .406 | 0 %100 |
| 19 | M14 | X | .016 | .016 | 0 %100 |
| 20 | M14 | Z | .027 | .027 | 0 %100 |
| 21 | M15 | X | .111 | .111 | 0 %100 |
| 22 | M15 | Z | .193 | .193 | 0 %100 |
| 23 | M16 | X | .137 | .137 | 0 %100 |
| 24 | M16 | Z | .237 | .237 | 0 %100 |
| 25 | M17 | X | .111 | .111 | 0 %100 |
| 26 | M17 | Z | .193 | .193 | 0 %100 |
| 27 | M18 | X | .124 | .124 | 0 %100 |
| 28 | M18 | Z | .215 | .215 | 0 %100 |
| 29 | M19 | X | .122 | .122 | 0 %100 |
| 30 | M19 | Z | .211 | .211 | 0 %100 |
| 31 | M20 | X | .111 | .111 | 0 %100 |
| 32 | M20 | Z | .193 | .193 | 0 %100 |
| 33 | M21 | X | .111 | .111 | 0 %100 |
| 34 | M21 | Z | .193 | .193 | 0 %100 |
| 35 | M22 | X | .187 | .187 | 0 %100 |
| 36 | M22 | Z | .324 | .324 | 0 %100 |
| 37 | M23 | X | .187 | .187 | 0 %100 |
| 38 | M23 | Z | .324 | .324 | 0 %100 |
| 39 | M24 | X | .156 | .156 | 0 %100 |
| 40 | M24 | Z | .27 | .27 | 0 %100 |
| 41 | M25 | X | .122 | .122 | 0 %100 |
| 42 | M25 | Z | .211 | .211 | 0 %100 |
| 43 | M26 | X | .111 | .111 | 0 %100 |

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.. |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 44 | M26 | Z | .193 | .193 | 0 | %100 |
| 45 | M27 | X | .197 | .197 | 0 | %100 |
| 46 | M27 | Z | .341 | .341 | 0 | %100 |
| 47 | M28 | X | .111 | .111 | 0 | %100 |
| 48 | M28 | Z | .193 | .193 | 0 | %100 |
| 49 | M29 | X | .193 | .193 | 0 | %100 |
| 50 | M29 | Z | .334 | .334 | 0 | %100 |
| 51 | M30 | X | .122 | .122 | 0 | %100 |
| 52 | M30 | Z | .211 | .211 | 0 | %100 |
| 53 | M31 | X | .111 | .111 | 0 | %100 |
| 54 | M31 | Z | .193 | .193 | 0 | %100 |
| 55 | M32 | X | .111 | .111 | 0 | %100 |
| 56 | M32 | Z | .193 | .193 | 0 | %100 |
| 57 | M33 | X | .187 | .187 | 0 | %100 |
| 58 | M33 | Z | .324 | .324 | 0 | %100 |
| 59 | M34 | X | .187 | .187 | 0 | %100 |
| 60 | M34 | Z | .324 | .324 | 0 | %100 |
| 61 | M35 | X | .156 | .156 | 0 | %100 |
| 62 | M35 | Z | .27 | .27 | 0 | %100 |
| 63 | M36 | X | .122 | .122 | 0 | %100 |
| 64 | M36 | Z | .211 | .211 | 0 | %100 |
| 65 | MP4A | X | .252 | .252 | 0 | %100 |
| 66 | MP4A | Z | .437 | .437 | 0 | %100 |
| 67 | MP3A | X | .252 | .252 | 0 | %100 |
| 68 | MP3A | Z | .437 | .437 | 0 | %100 |
| 69 | MP1A | X | .252 | .252 | 0 | %100 |
| 70 | MP1A | Z | .437 | .437 | 0 | %100 |
| 71 | M46 | X | .192 | .192 | 0 | %100 |
| 72 | M46 | Z | .333 | .333 | 0 | %100 |
| 73 | MP2A | X | .252 | .252 | 0 | %100 |
| 74 | MP2A | Z | .437 | .437 | 0 | %100 |
| 75 | M50 | X | .252 | .252 | 0 | %100 |
| 76 | M50 | Z | .437 | .437 | 0 | %100 |

Member Distributed Loads (BLC 71 : Structure Wm (180 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 | .052 | .052 | 0 | %100 |
| 3 | M6 | X | 0 | 0 | 0 | %100 |
| 4 | M6 | Z | .052 | .052 | 0 | %100 |
| 5 | M7 | X | 0 | 0 | 0 | %100 |
| 6 | M7 | Z | .611 | .611 | 0 | %100 |
| 7 | M8 | X | 0 | 0 | 0 | %100 |
| 8 | M8 | Z | .052 | .052 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | 0 | %100 |
| 10 | M9 | Z | .052 | .052 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | 0 | %100 |
| 12 | M10 | Z | .611 | .611 | 0 | %100 |
| 13 | M11 | X | 0 | 0 | 0 | %100 |
| 14 | M11 | Z | .248 | .248 | 0 | %100 |
| 15 | M12 | X | 0 | 0 | 0 | %100 |
| 16 | M12 | Z | .248 | .248 | 0 | %100 |
| 17 | M13 | X | 0 | 0 | 0 | %100 |
| 18 | M13 | Z | .248 | .248 | 0 | %100 |
| 19 | M14 | X | 0 | 0 | 0 | %100 |
| 20 | M14 | Z | .248 | .248 | 0 | %100 |
| 21 | M15 | X | 0 | 0 | 0 | %100 |
| 22 | M15 | Z | .084 | .084 | 0 | %100 |
| 23 | M16 | X | 0 | 0 | 0 | %100 |
| 24 | M16 | Z | .333 | .333 | 0 | %100 |
| 25 | M17 | X | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f...] | End Location[ft...] |
|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 26 | M17 | Z | .084 | .084 | 0 %100 |
| 27 | M18 | X | 0 | 0 | 0 %100 |
| 28 | M18 | Z | .316 | .316 | 0 %100 |
| 29 | M19 | X | 0 | 0 | 0 %100 |
| 30 | M19 | Z | .113 | .113 | 0 %100 |
| 31 | M20 | X | 0 | 0 | 0 %100 |
| 32 | M20 | Z | .084 | .084 | 0 %100 |
| 33 | M21 | X | 0 | 0 | 0 %100 |
| 34 | M21 | Z | .084 | .084 | 0 %100 |
| 35 | M22 | X | 0 | 0 | 0 %100 |
| 36 | M22 | Z | .374 | .374 | 0 %100 |
| 37 | M23 | X | 0 | 0 | 0 %100 |
| 38 | M23 | Z | .374 | .374 | 0 %100 |
| 39 | M24 | X | 0 | 0 | 0 %100 |
| 40 | M24 | Z | .312 | .312 | 0 %100 |
| 41 | M25 | X | 0 | 0 | 0 %100 |
| 42 | M25 | Z | .113 | .113 | 0 %100 |
| 43 | M26 | X | 0 | 0 | 0 %100 |
| 44 | M26 | Z | .084 | .084 | 0 %100 |
| 45 | M27 | X | 0 | 0 | 0 %100 |
| 46 | M27 | Z | .333 | .333 | 0 %100 |
| 47 | M28 | X | 0 | 0 | 0 %100 |
| 48 | M28 | Z | .084 | .084 | 0 %100 |
| 49 | M29 | X | 0 | 0 | 0 %100 |
| 50 | M29 | Z | .316 | .316 | 0 %100 |
| 51 | M30 | X | 0 | 0 | 0 %100 |
| 52 | M30 | Z | .113 | .113 | 0 %100 |
| 53 | M31 | X | 0 | 0 | 0 %100 |
| 54 | M31 | Z | .084 | .084 | 0 %100 |
| 55 | M32 | X | 0 | 0 | 0 %100 |
| 56 | M32 | Z | .084 | .084 | 0 %100 |
| 57 | M33 | X | 0 | 0 | 0 %100 |
| 58 | M33 | Z | .374 | .374 | 0 %100 |
| 59 | M34 | X | 0 | 0 | 0 %100 |
| 60 | M34 | Z | .374 | .374 | 0 %100 |
| 61 | M35 | X | 0 | 0 | 0 %100 |
| 62 | M35 | Z | .312 | .312 | 0 %100 |
| 63 | M36 | X | 0 | 0 | 0 %100 |
| 64 | M36 | Z | .113 | .113 | 0 %100 |
| 65 | MP4A | X | 0 | 0 | 0 %100 |
| 66 | MP4A | Z | .505 | .505 | 0 %100 |
| 67 | MP3A | X | 0 | 0 | 0 %100 |
| 68 | MP3A | Z | .505 | .505 | 0 %100 |
| 69 | MP1A | X | 0 | 0 | 0 %100 |
| 70 | MP1A | Z | .505 | .505 | 0 %100 |
| 71 | M46 | X | 0 | 0 | 0 %100 |
| 72 | M46 | Z | .056 | .056 | 0 %100 |
| 73 | MP2A | X | 0 | 0 | 0 %100 |
| 74 | MP2A | Z | .505 | .505 | 0 %100 |
| 75 | M50 | X | 0 | 0 | 0 %100 |
| 76 | M50 | Z | .505 | .505 | 0 %100 |

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

| Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f...] | End Location[ft...] |
|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 1 | M5 | X | -.003 | -.003 | 0 %100 |
| 2 | M5 | Z | .006 | .006 | 0 %100 |
| 3 | M6 | X | -.049 | -.049 | 0 %100 |
| 4 | M6 | Z | .085 | .085 | 0 %100 |
| 5 | M7 | X | -.229 | -.229 | 0 %100 |
| 6 | M7 | Z | .397 | .397 | 0 %100 |
| 7 | M8 | X | -.003 | -.003 | 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 Locationft. | End Locationft. |
|----|--------------|-----------|--------------------------------|------------------------------|-------------------|-----------------|
| 8 | M8 | Z | .006 | .006 | 0 | %100 |
| 9 | M9 | X | -.049 | -.049 | 0 | %100 |
| 10 | M9 | Z | .085 | .085 | 0 | %100 |
| 11 | M10 | X | -.229 | -.229 | 0 | %100 |
| 12 | M10 | Z | .397 | .397 | 0 | %100 |
| 13 | M11 | X | -.016 | -.016 | 0 | %100 |
| 14 | M11 | Z | .027 | .027 | 0 | %100 |
| 15 | M12 | X | -.234 | -.234 | 0 | %100 |
| 16 | M12 | Z | .406 | .406 | 0 | %100 |
| 17 | M13 | X | -.016 | -.016 | 0 | %100 |
| 18 | M13 | Z | .027 | .027 | 0 | %100 |
| 19 | M14 | X | -.234 | -.234 | 0 | %100 |
| 20 | M14 | Z | .406 | .406 | 0 | %100 |
| 21 | M15 | X | -.111 | -.111 | 0 | %100 |
| 22 | M15 | Z | .193 | .193 | 0 | %100 |
| 23 | M16 | X | -.197 | -.197 | 0 | %100 |
| 24 | M16 | Z | .341 | .341 | 0 | %100 |
| 25 | M17 | X | -.111 | -.111 | 0 | %100 |
| 26 | M17 | Z | .193 | .193 | 0 | %100 |
| 27 | M18 | X | -.193 | -.193 | 0 | %100 |
| 28 | M18 | Z | .334 | .334 | 0 | %100 |
| 29 | M19 | X | -.122 | -.122 | 0 | %100 |
| 30 | M19 | Z | .211 | .211 | 0 | %100 |
| 31 | M20 | X | -.111 | -.111 | 0 | %100 |
| 32 | M20 | Z | .193 | .193 | 0 | %100 |
| 33 | M21 | X | -.111 | -.111 | 0 | %100 |
| 34 | M21 | Z | .193 | .193 | 0 | %100 |
| 35 | M22 | X | -.187 | -.187 | 0 | %100 |
| 36 | M22 | Z | .324 | .324 | 0 | %100 |
| 37 | M23 | X | -.187 | -.187 | 0 | %100 |
| 38 | M23 | Z | .324 | .324 | 0 | %100 |
| 39 | M24 | X | -.156 | -.156 | 0 | %100 |
| 40 | M24 | Z | .27 | .27 | 0 | %100 |
| 41 | M25 | X | -.122 | -.122 | 0 | %100 |
| 42 | M25 | Z | .211 | .211 | 0 | %100 |
| 43 | M26 | X | -.111 | -.111 | 0 | %100 |
| 44 | M26 | Z | .193 | .193 | 0 | %100 |
| 45 | M27 | X | -.137 | -.137 | 0 | %100 |
| 46 | M27 | Z | .237 | .237 | 0 | %100 |
| 47 | M28 | X | -.111 | -.111 | 0 | %100 |
| 48 | M28 | Z | .193 | .193 | 0 | %100 |
| 49 | M29 | X | -.124 | -.124 | 0 | %100 |
| 50 | M29 | Z | .215 | .215 | 0 | %100 |
| 51 | M30 | X | -.122 | -.122 | 0 | %100 |
| 52 | M30 | Z | .211 | .211 | 0 | %100 |
| 53 | M31 | X | -.111 | -.111 | 0 | %100 |
| 54 | M31 | Z | .193 | .193 | 0 | %100 |
| 55 | M32 | X | -.111 | -.111 | 0 | %100 |
| 56 | M32 | Z | .193 | .193 | 0 | %100 |
| 57 | M33 | X | -.187 | -.187 | 0 | %100 |
| 58 | M33 | Z | .324 | .324 | 0 | %100 |
| 59 | M34 | X | -.187 | -.187 | 0 | %100 |
| 60 | M34 | Z | .324 | .324 | 0 | %100 |
| 61 | M35 | X | -.156 | -.156 | 0 | %100 |
| 62 | M35 | Z | .27 | .27 | 0 | %100 |
| 63 | M36 | X | -.122 | -.122 | 0 | %100 |
| 64 | M36 | Z | .211 | .211 | 0 | %100 |
| 65 | MP4A | X | -.252 | -.252 | 0 | %100 |
| 66 | MP4A | Z | .437 | .437 | 0 | %100 |
| 67 | MP3A | X | -.252 | -.252 | 0 | %100 |
| 68 | MP3A | Z | .437 | .437 | 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[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 69 | MP1A | X | -.252 | -.252 | 0 | %100 |
| 70 | MP1A | Z | .437 | .437 | 0 | %100 |
| 71 | M46 | X | -.022 | -.022 | 0 | %100 |
| 72 | M46 | Z | .038 | .038 | 0 | %100 |
| 73 | MP2A | X | -.252 | -.252 | 0 | %100 |
| 74 | MP2A | Z | .437 | .437 | 0 | %100 |
| 75 | M50 | X | -.252 | -.252 | 0 | %100 |
| 76 | M50 | Z | .437 | .437 | 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[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 1 | M5 | X | -.007 | -.007 | 0 | %100 |
| 2 | M5 | Z | .004 | .004 | 0 | %100 |
| 3 | M6 | X | -.086 | -.086 | 0 | %100 |
| 4 | M6 | Z | .05 | .05 | 0 | %100 |
| 5 | M7 | X | -.132 | -.132 | 0 | %100 |
| 6 | M7 | Z | .076 | .076 | 0 | %100 |
| 7 | M8 | X | -.007 | -.007 | 0 | %100 |
| 8 | M8 | Z | .004 | .004 | 0 | %100 |
| 9 | M9 | X | -.086 | -.086 | 0 | %100 |
| 10 | M9 | Z | .05 | .05 | 0 | %100 |
| 11 | M10 | X | -.132 | -.132 | 0 | %100 |
| 12 | M10 | Z | .076 | .076 | 0 | %100 |
| 13 | M11 | X | -.031 | -.031 | 0 | %100 |
| 14 | M11 | Z | .018 | .018 | 0 | %100 |
| 15 | M12 | X | -.41 | -.41 | 0 | %100 |
| 16 | M12 | Z | .237 | .237 | 0 | %100 |
| 17 | M13 | X | -.031 | -.031 | 0 | %100 |
| 18 | M13 | Z | .018 | .018 | 0 | %100 |
| 19 | M14 | X | -.41 | -.41 | 0 | %100 |
| 20 | M14 | Z | .237 | .237 | 0 | %100 |
| 21 | M15 | X | -.432 | -.432 | 0 | %100 |
| 22 | M15 | Z | .25 | .25 | 0 | %100 |
| 23 | M16 | X | -.342 | -.342 | 0 | %100 |
| 24 | M16 | Z | .198 | .198 | 0 | %100 |
| 25 | M17 | X | -.432 | -.432 | 0 | %100 |
| 26 | M17 | Z | .25 | .25 | 0 | %100 |
| 27 | M18 | X | -.336 | -.336 | 0 | %100 |
| 28 | M18 | Z | .194 | .194 | 0 | %100 |
| 29 | M19 | X | -.439 | -.439 | 0 | %100 |
| 30 | M19 | Z | .253 | .253 | 0 | %100 |
| 31 | M20 | X | -.432 | -.432 | 0 | %100 |
| 32 | M20 | Z | .25 | .25 | 0 | %100 |
| 33 | M21 | X | -.432 | -.432 | 0 | %100 |
| 34 | M21 | Z | .25 | .25 | 0 | %100 |
| 35 | M22 | X | -.324 | -.324 | 0 | %100 |
| 36 | M22 | Z | .187 | .187 | 0 | %100 |
| 37 | M23 | X | -.324 | -.324 | 0 | %100 |
| 38 | M23 | Z | .187 | .187 | 0 | %100 |
| 39 | M24 | X | -.27 | -.27 | 0 | %100 |
| 40 | M24 | Z | .156 | .156 | 0 | %100 |
| 41 | M25 | X | -.439 | -.439 | 0 | %100 |
| 42 | M25 | Z | .253 | .253 | 0 | %100 |
| 43 | M26 | X | -.432 | -.432 | 0 | %100 |
| 44 | M26 | Z | .25 | .25 | 0 | %100 |
| 45 | M27 | X | -.238 | -.238 | 0 | %100 |
| 46 | M27 | Z | .137 | .137 | 0 | %100 |
| 47 | M28 | X | -.432 | -.432 | 0 | %100 |
| 48 | M28 | Z | .25 | .25 | 0 | %100 |
| 49 | M29 | X | -.216 | -.216 | 0 | %100 |
| 50 | M29 | Z | .125 | .125 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 51 | M30 | X | -.439 | -.439 | 0 | %100 |
| 52 | M30 | Z | .253 | .253 | 0 | %100 |
| 53 | M31 | X | -.432 | -.432 | 0 | %100 |
| 54 | M31 | Z | .25 | .25 | 0 | %100 |
| 55 | M32 | X | -.432 | -.432 | 0 | %100 |
| 56 | M32 | Z | .25 | .25 | 0 | %100 |
| 57 | M33 | X | -.324 | -.324 | 0 | %100 |
| 58 | M33 | Z | .187 | .187 | 0 | %100 |
| 59 | M34 | X | -.324 | -.324 | 0 | %100 |
| 60 | M34 | Z | .187 | .187 | 0 | %100 |
| 61 | M35 | X | -.27 | -.27 | 0 | %100 |
| 62 | M35 | Z | .156 | .156 | 0 | %100 |
| 63 | M36 | X | -.439 | -.439 | 0 | %100 |
| 64 | M36 | Z | .253 | .253 | 0 | %100 |
| 65 | MP4A | X | -.437 | -.437 | 0 | %100 |
| 66 | MP4A | Z | .252 | .252 | 0 | %100 |
| 67 | MP3A | X | -.437 | -.437 | 0 | %100 |
| 68 | MP3A | Z | .252 | .252 | 0 | %100 |
| 69 | MP1A | X | -.437 | -.437 | 0 | %100 |
| 70 | MP1A | Z | .252 | .252 | 0 | %100 |
| 71 | M46 | X | -.311 | -.311 | 0 | %100 |
| 72 | M46 | Z | .18 | .18 | 0 | %100 |
| 73 | MP2A | X | -.437 | -.437 | 0 | %100 |
| 74 | MP2A | Z | .252 | .252 | 0 | %100 |
| 75 | M50 | X | -.437 | -.437 | 0 | %100 |
| 76 | M50 | Z | .252 | .252 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 1 | M5 | X | -.054 | -.054 | 0 | %100 |
| 2 | M5 | Z | 0 | 0 | 0 | %100 |
| 3 | M6 | X | -.054 | -.054 | 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 | -.054 | -.054 | 0 | %100 |
| 8 | M8 | Z | 0 | 0 | 0 | %100 |
| 9 | M9 | X | -.054 | -.054 | 0 | %100 |
| 10 | M9 | Z | 0 | 0 | 0 | %100 |
| 11 | M10 | X | 0 | 0 | 0 | %100 |
| 12 | M10 | Z | 0 | 0 | 0 | %100 |
| 13 | M11 | X | -.257 | -.257 | 0 | %100 |
| 14 | M11 | Z | 0 | 0 | 0 | %100 |
| 15 | M12 | X | -.257 | -.257 | 0 | %100 |
| 16 | M12 | Z | 0 | 0 | 0 | %100 |
| 17 | M13 | X | -.257 | -.257 | 0 | %100 |
| 18 | M13 | Z | 0 | 0 | 0 | %100 |
| 19 | M14 | X | -.257 | -.257 | 0 | %100 |
| 20 | M14 | Z | 0 | 0 | 0 | %100 |
| 21 | M15 | X | -.638 | -.638 | 0 | %100 |
| 22 | M15 | Z | 0 | 0 | 0 | %100 |
| 23 | M16 | X | -.336 | -.336 | 0 | %100 |
| 24 | M16 | Z | 0 | 0 | 0 | %100 |
| 25 | M17 | X | -.638 | -.638 | 0 | %100 |
| 26 | M17 | Z | 0 | 0 | 0 | %100 |
| 27 | M18 | X | -.319 | -.319 | 0 | %100 |
| 28 | M18 | Z | 0 | 0 | 0 | %100 |
| 29 | M19 | X | -.638 | -.638 | 0 | %100 |
| 30 | M19 | Z | 0 | 0 | 0 | %100 |
| 31 | M20 | X | -.638 | -.638 | 0 | %100 |
| 32 | M20 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 33 | M21 | X | -638 | -638 | 0 | %100 |
| 34 | M21 | Z | 0 | 0 | 0 | %100 |
| 35 | M22 | X | -374 | -374 | 0 | %100 |
| 36 | M22 | Z | 0 | 0 | 0 | %100 |
| 37 | M23 | X | -374 | -374 | 0 | %100 |
| 38 | M23 | Z | 0 | 0 | 0 | %100 |
| 39 | M24 | X | -312 | -312 | 0 | %100 |
| 40 | M24 | Z | 0 | 0 | 0 | %100 |
| 41 | M25 | X | -638 | -638 | 0 | %100 |
| 42 | M25 | Z | 0 | 0 | 0 | %100 |
| 43 | M26 | X | -638 | -638 | 0 | %100 |
| 44 | M26 | Z | 0 | 0 | 0 | %100 |
| 45 | M27 | X | -336 | -336 | 0 | %100 |
| 46 | M27 | Z | 0 | 0 | 0 | %100 |
| 47 | M28 | X | -638 | -638 | 0 | %100 |
| 48 | M28 | Z | 0 | 0 | 0 | %100 |
| 49 | M29 | X | -319 | -319 | 0 | %100 |
| 50 | M29 | Z | 0 | 0 | 0 | %100 |
| 51 | M30 | X | -638 | -638 | 0 | %100 |
| 52 | M30 | Z | 0 | 0 | 0 | %100 |
| 53 | M31 | X | -638 | -638 | 0 | %100 |
| 54 | M31 | Z | 0 | 0 | 0 | %100 |
| 55 | M32 | X | -638 | -638 | 0 | %100 |
| 56 | M32 | Z | 0 | 0 | 0 | %100 |
| 57 | M33 | X | -374 | -374 | 0 | %100 |
| 58 | M33 | Z | 0 | 0 | 0 | %100 |
| 59 | M34 | X | -374 | -374 | 0 | %100 |
| 60 | M34 | Z | 0 | 0 | 0 | %100 |
| 61 | M35 | X | -312 | -312 | 0 | %100 |
| 62 | M35 | Z | 0 | 0 | 0 | %100 |
| 63 | M36 | X | -638 | -638 | 0 | %100 |
| 64 | M36 | Z | 0 | 0 | 0 | %100 |
| 65 | MP4A | X | -505 | -505 | 0 | %100 |
| 66 | MP4A | Z | 0 | 0 | 0 | %100 |
| 67 | MP3A | X | -505 | -505 | 0 | %100 |
| 68 | MP3A | Z | 0 | 0 | 0 | %100 |
| 69 | MP1A | X | -505 | -505 | 0 | %100 |
| 70 | MP1A | Z | 0 | 0 | 0 | %100 |
| 71 | M46 | X | -688 | -688 | 0 | %100 |
| 72 | M46 | Z | 0 | 0 | 0 | %100 |
| 73 | MP2A | X | -505 | -505 | 0 | %100 |
| 74 | MP2A | Z | 0 | 0 | 0 | %100 |
| 75 | M50 | X | -505 | -505 | 0 | %100 |
| 76 | M50 | Z | 0 | 0 | 0 | %100 |

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

| | Member Label | Direction | Start Magnitude[lb/ft.F.ksf] | End Magnitude[lb/ft.F.ksf] | Start Location[f...] | End Location[ft...] |
|----|--------------|-----------|------------------------------|----------------------------|----------------------|---------------------|
| 1 | M5 | X | -086 | -086 | 0 | %100 |
| 2 | M5 | Z | -05 | -05 | 0 | %100 |
| 3 | M6 | X | -007 | -007 | 0 | %100 |
| 4 | M6 | Z | -004 | -004 | 0 | %100 |
| 5 | M7 | X | -132 | -132 | 0 | %100 |
| 6 | M7 | Z | -076 | -076 | 0 | %100 |
| 7 | M8 | X | -086 | -086 | 0 | %100 |
| 8 | M8 | Z | -05 | -05 | 0 | %100 |
| 9 | M9 | X | -007 | -007 | 0 | %100 |
| 10 | M9 | Z | -004 | -004 | 0 | %100 |
| 11 | M10 | X | -132 | -132 | 0 | %100 |
| 12 | M10 | Z | -076 | -076 | 0 | %100 |
| 13 | M11 | X | -41 | -41 | 0 | %100 |
| 14 | M11 | Z | -237 | -237 | 0 | %100 |

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] |
|----|--------------|-----------|------------------------------|----------------------------|--------------------|------------------|
| 15 | M12 | X | -.031 | -.031 | 0 | %100 |
| 16 | M12 | Z | -.018 | -.018 | 0 | %100 |
| 17 | M13 | X | -.41 | -.41 | 0 | %100 |
| 18 | M13 | Z | -.237 | -.237 | 0 | %100 |
| 19 | M14 | X | -.031 | -.031 | 0 | %100 |
| 20 | M14 | Z | -.018 | -.018 | 0 | %100 |
| 21 | M15 | X | -.432 | -.432 | 0 | %100 |
| 22 | M15 | Z | -.25 | -.25 | 0 | %100 |
| 23 | M16 | X | -.238 | -.238 | 0 | %100 |
| 24 | M16 | Z | -.137 | -.137 | 0 | %100 |
| 25 | M17 | X | -.432 | -.432 | 0 | %100 |
| 26 | M17 | Z | -.25 | -.25 | 0 | %100 |
| 27 | M18 | X | -.216 | -.216 | 0 | %100 |
| 28 | M18 | Z | -.125 | -.125 | 0 | %100 |
| 29 | M19 | X | -.439 | -.439 | 0 | %100 |
| 30 | M19 | Z | -.253 | -.253 | 0 | %100 |
| 31 | M20 | X | -.432 | -.432 | 0 | %100 |
| 32 | M20 | Z | -.25 | -.25 | 0 | %100 |
| 33 | M21 | X | -.432 | -.432 | 0 | %100 |
| 34 | M21 | Z | -.25 | -.25 | 0 | %100 |
| 35 | M22 | X | -.324 | -.324 | 0 | %100 |
| 36 | M22 | Z | -.187 | -.187 | 0 | %100 |
| 37 | M23 | X | -.324 | -.324 | 0 | %100 |
| 38 | M23 | Z | -.187 | -.187 | 0 | %100 |
| 39 | M24 | X | -.27 | -.27 | 0 | %100 |
| 40 | M24 | Z | -.156 | -.156 | 0 | %100 |
| 41 | M25 | X | -.439 | -.439 | 0 | %100 |
| 42 | M25 | Z | -.253 | -.253 | 0 | %100 |
| 43 | M26 | X | -.432 | -.432 | 0 | %100 |
| 44 | M26 | Z | -.25 | -.25 | 0 | %100 |
| 45 | M27 | X | -.342 | -.342 | 0 | %100 |
| 46 | M27 | Z | -.198 | -.198 | 0 | %100 |
| 47 | M28 | X | -.432 | -.432 | 0 | %100 |
| 48 | M28 | Z | -.25 | -.25 | 0 | %100 |
| 49 | M29 | X | -.336 | -.336 | 0 | %100 |
| 50 | M29 | Z | -.194 | -.194 | 0 | %100 |
| 51 | M30 | X | -.439 | -.439 | 0 | %100 |
| 52 | M30 | Z | -.253 | -.253 | 0 | %100 |
| 53 | M31 | X | -.432 | -.432 | 0 | %100 |
| 54 | M31 | Z | -.25 | -.25 | 0 | %100 |
| 55 | M32 | X | -.432 | -.432 | 0 | %100 |
| 56 | M32 | Z | -.25 | -.25 | 0 | %100 |
| 57 | M33 | X | -.324 | -.324 | 0 | %100 |
| 58 | M33 | Z | -.187 | -.187 | 0 | %100 |
| 59 | M34 | X | -.324 | -.324 | 0 | %100 |
| 60 | M34 | Z | -.187 | -.187 | 0 | %100 |
| 61 | M35 | X | -.27 | -.27 | 0 | %100 |
| 62 | M35 | Z | -.156 | -.156 | 0 | %100 |
| 63 | M36 | X | -.439 | -.439 | 0 | %100 |
| 64 | M36 | Z | -.253 | -.253 | 0 | %100 |
| 65 | MP4A | X | -.437 | -.437 | 0 | %100 |
| 66 | MP4A | Z | -.252 | -.252 | 0 | %100 |
| 67 | MP3A | X | -.437 | -.437 | 0 | %100 |
| 68 | MP3A | Z | -.252 | -.252 | 0 | %100 |
| 69 | MP1A | X | -.437 | -.437 | 0 | %100 |
| 70 | MP1A | Z | -.252 | -.252 | 0 | %100 |
| 71 | M46 | X | -.606 | -.606 | 0 | %100 |
| 72 | M46 | Z | -.35 | -.35 | 0 | %100 |
| 73 | MP2A | X | -.437 | -.437 | 0 | %100 |
| 74 | MP2A | Z | -.252 | -.252 | 0 | %100 |
| 75 | M50 | X | -.437 | -.437 | 0 | %100 |

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 Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 76 | M50 | Z | - .252 | - .252 | 0 | %100 |

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 Locationft... | End Locationft... |
|----|--------------|-----------|------------------------------|----------------------------|---------------------|-------------------|
| 1 | M5 | X | -.049 | -.049 | 0 | %100 |
| 2 | M5 | Z | -.085 | -.085 | 0 | %100 |
| 3 | M6 | X | -.003 | -.003 | 0 | %100 |
| 4 | M6 | Z | -.006 | -.006 | 0 | %100 |
| 5 | M7 | X | -.229 | -.229 | 0 | %100 |
| 6 | M7 | Z | -.397 | -.397 | 0 | %100 |
| 7 | M8 | X | -.049 | -.049 | 0 | %100 |
| 8 | M8 | Z | -.085 | -.085 | 0 | %100 |
| 9 | M9 | X | -.003 | -.003 | 0 | %100 |
| 10 | M9 | Z | -.006 | -.006 | 0 | %100 |
| 11 | M10 | X | -.229 | -.229 | 0 | %100 |
| 12 | M10 | Z | -.397 | -.397 | 0 | %100 |
| 13 | M11 | X | -.234 | -.234 | 0 | %100 |
| 14 | M11 | Z | -.406 | -.406 | 0 | %100 |
| 15 | M12 | X | -.016 | -.016 | 0 | %100 |
| 16 | M12 | Z | -.027 | -.027 | 0 | %100 |
| 17 | M13 | X | -.234 | -.234 | 0 | %100 |
| 18 | M13 | Z | -.406 | -.406 | 0 | %100 |
| 19 | M14 | X | -.016 | -.016 | 0 | %100 |
| 20 | M14 | Z | -.027 | -.027 | 0 | %100 |
| 21 | M15 | X | -.111 | -.111 | 0 | %100 |
| 22 | M15 | Z | -.193 | -.193 | 0 | %100 |
| 23 | M16 | X | -.137 | -.137 | 0 | %100 |
| 24 | M16 | Z | -.237 | -.237 | 0 | %100 |
| 25 | M17 | X | -.111 | -.111 | 0 | %100 |
| 26 | M17 | Z | -.193 | -.193 | 0 | %100 |
| 27 | M18 | X | -.124 | -.124 | 0 | %100 |
| 28 | M18 | Z | -.215 | -.215 | 0 | %100 |
| 29 | M19 | X | -.122 | -.122 | 0 | %100 |
| 30 | M19 | Z | -.211 | -.211 | 0 | %100 |
| 31 | M20 | X | -.111 | -.111 | 0 | %100 |
| 32 | M20 | Z | -.193 | -.193 | 0 | %100 |
| 33 | M21 | X | -.111 | -.111 | 0 | %100 |
| 34 | M21 | Z | -.193 | -.193 | 0 | %100 |
| 35 | M22 | X | -.187 | -.187 | 0 | %100 |
| 36 | M22 | Z | -.324 | -.324 | 0 | %100 |
| 37 | M23 | X | -.187 | -.187 | 0 | %100 |
| 38 | M23 | Z | -.324 | -.324 | 0 | %100 |
| 39 | M24 | X | -.156 | -.156 | 0 | %100 |
| 40 | M24 | Z | -.27 | -.27 | 0 | %100 |
| 41 | M25 | X | -.122 | -.122 | 0 | %100 |
| 42 | M25 | Z | -.211 | -.211 | 0 | %100 |
| 43 | M26 | X | -.111 | -.111 | 0 | %100 |
| 44 | M26 | Z | -.193 | -.193 | 0 | %100 |
| 45 | M27 | X | -.197 | -.197 | 0 | %100 |
| 46 | M27 | Z | -.341 | -.341 | 0 | %100 |
| 47 | M28 | X | -.111 | -.111 | 0 | %100 |
| 48 | M28 | Z | -.193 | -.193 | 0 | %100 |
| 49 | M29 | X | -.193 | -.193 | 0 | %100 |
| 50 | M29 | Z | -.334 | -.334 | 0 | %100 |
| 51 | M30 | X | -.122 | -.122 | 0 | %100 |
| 52 | M30 | Z | -.211 | -.211 | 0 | %100 |
| 53 | M31 | X | -.111 | -.111 | 0 | %100 |
| 54 | M31 | Z | -.193 | -.193 | 0 | %100 |
| 55 | M32 | X | -.111 | -.111 | 0 | %100 |
| 56 | M32 | Z | -.193 | -.193 | 0 | %100 |
| 57 | M33 | X | -.187 | -.187 | 0 | %100 |

Member Distributed Loads (BLC 76 : Structure Wm (330 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 | -.324 | 0 | %100 |
| 59 | M34 | X | -.187 | 0 | %100 |
| 60 | M34 | Z | -.324 | 0 | %100 |
| 61 | M35 | X | -.156 | 0 | %100 |
| 62 | M35 | Z | -.27 | 0 | %100 |
| 63 | M36 | X | -.122 | 0 | %100 |
| 64 | M36 | Z | -.211 | 0 | %100 |
| 65 | MP4A | X | -.252 | 0 | %100 |
| 66 | MP4A | Z | -.437 | 0 | %100 |
| 67 | MP3A | X | -.252 | 0 | %100 |
| 68 | MP3A | Z | -.437 | 0 | %100 |
| 69 | MP1A | X | -.252 | 0 | %100 |
| 70 | MP1A | Z | -.437 | 0 | %100 |
| 71 | M46 | X | -.192 | 0 | %100 |
| 72 | M46 | Z | -.333 | 0 | %100 |
| 73 | MP2A | X | -.252 | 0 | %100 |
| 74 | MP2A | Z | -.437 | 0 | %100 |
| 75 | M50 | X | -.252 | 0 | %100 |
| 76 | M50 | Z | -.437 | 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 | 778.487 | 10 | 1139.91 | 21 | 433.512 | 2 | -.113 | 74 | 0 | 75 |
| 2 | | min | -1445.34 | 28 | 350.902 | 66 | -2658.607 | 20 | -.368 | 15 | 0 | 1 |
| 3 | N65 | max | 1436.997 | 34 | 962.191 | 15 | 2634.76 | 14 | -.098 | 75 | 0 | 75 |
| 4 | | min | -632.022 | 4 | 301.68 | 72 | -253.487 | 8 | -.313 | 19 | 0 | 1 |
| 5 | N75 | max | 458.309 | 3 | 58.179 | 16 | 1680.002 | 11 | 0 | 75 | 0 | 75 |
| 6 | | min | -465.995 | 9 | 23.081 | 73 | -1691.295 | 3 | 0 | 1 | 0 | 1 |
| 7 | Totals: | max | 1206.522 | 10 | 2154.43 | 22 | 1615.636 | 1 | | | | |
| 8 | | min | -1206.52 | 4 | 677.002 | 67 | -1615.644 | 7 | | | | |

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

| Member | Shape | Code Check | L... | LC | Shear Check | Loc. | Dir | LC | phi*Pn... | phi*Pnt... | phi*Mn... | phi*Mn... | Cb | Eqn |
|--------|-------|-------------|------|------|-------------|------|--------|----|-----------|------------|-----------|-----------|-------|-----------|
| 1 | M5 | PL3/8X3.3.. | .414 | 0 | 20 | .106 | 25 | y | 30 | 39381.... | 41006.... | .32 | 2.883 | 1.. H1-1b |
| 2 | M6 | PL3/8X3.3.. | .544 | 0 | 30 | .105 | 0 | y | 32 | 39381.... | 41006.... | .32 | 2.883 | 1.. H1-1b |
| 3 | M7 | PIPE 2.5 | .133 | 5.. | 44 | .037 | 10.9.. | | 19 | 12795.... | 72450 | 5.138 | 5.138 | 2.. H1-1b |
| 4 | M8 | PL3/8X3.3.. | .361 | 0 | 14 | .098 | 0 | y | 31 | 39381.... | 41006.... | .32 | 2.883 | 1.. H1-1b |
| 5 | M9 | PL3/8X3.3.. | .502 | 0 | 25 | .113 | 0 | y | 26 | 39381.... | 41006.... | .32 | 2.883 | 1.. H1-1b |
| 6 | M10 | PIPE 2.5 | .134 | 5.. | 37 | .059 | 11.1.. | | 25 | 12795.... | 72450 | 5.138 | 5.138 | 2.. H1-1b |
| 7 | M11 | PIPE 2.0 | .137 | | 21 | .071 | 5.381 | | 9 | 25094.... | 45900 | 2.674 | 2.674 | 2.. H1-1b |
| 8 | M12 | PIPE 2.0 | .173 | | 30 | .062 | 0 | | 33 | 25094.... | 45900 | 2.674 | 2.674 | 2.. H1-1b |
| 9 | M13 | PIPE 2.0 | .140 | | 15 | .072 | 5.381 | | 3 | 25094.... | 45900 | 2.674 | 2.674 | 1.. H1-1b |
| 10 | M14 | PIPE 2.0 | .194 | | 25 | .065 | 5.381 | | 33 | 25094.... | 45900 | 2.674 | 2.674 | 2.. H1-1b |
| 11 | M15 | PL3/8X3 | .096 | | 25 | .135 | 0 | y | 30 | 36078.... | 36450 | .284 | 2.279 | 1.. H1-1b |
| 12 | M16 | HSS1.500.. | .088 | 2.. | 25 | .009 | 4.117 | | 12 | 6372.8.. | 12701.... | .485 | .485 | 1.. H1-1b |
| 13 | M17 | PL3/8X3 | .067 | | 19 | .081 | .125 | y | 36 | 36078.... | 36450 | .284 | 2.279 | 1.. H1-1b |
| 14 | M18 | HSS1.500.. | .074 | 1.. | 25 | .008 | 0 | | 8 | 7014.8.. | 12701.... | .485 | .485 | 1.. H1-1b |
| 15 | M19 | PL3/8x3.5 | .237 | .5 | 26 | .081 | 0 | y | 25 | 23018.... | 31201.2 | .138 | 2.273 | 1.. H1-1b |
| 16 | M20 | PL3/8X3 | .038 | | 15 | .050 | .125 | y | 31 | 36078.... | 36450 | .284 | 2.279 | 1.. H1-1b |
| 17 | M21 | PL3/8X3 | .080 | 0 | 15 | .094 | 0 | y | 30 | 36078.... | 36450 | .284 | 2.279 | 1.. H1-1b |
| 18 | M22 | HSS1.500.. | .362 | 0 | 29 | .034 | 3.333 | | 30 | 8082.0.. | 12701.... | .485 | .485 | 1.. H1-1b |
| 19 | M23 | HSS1.500.. | .399 | 3.. | 25 | .026 | 0 | | 35 | 8082.0.. | 12701.... | .485 | .485 | 2.. H1-1b |
| 20 | M24 | PIPE 2.0 | .191 | 0 | 25 | .012 | 2.583 | | 35 | 40942.... | 45900 | 2.674 | 2.674 | 1.. H1-1b |

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

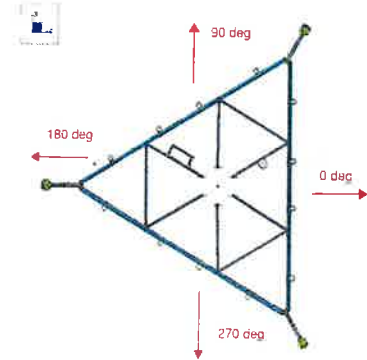
| Member | Shape | Code Check | L... | LC | Shear Check | Locf | Dir | LC | phi*Pn... | phi*Pnt... | phi*Mn... | phi*Mn... | Cb | Egn |
|--------|-------|------------|------|------|-------------|------|-------|----|-----------|------------|-----------|-----------|-------|------------|
| 21 | M25 | PL3/8x3.5 | .058 | 0 | 33 | .015 | .5 | v | 33 | 23018... | 31201.2 | .138 | 2.273 | 1.. H1-1b |
| 22 | M26 | PL3/8X3 | .074 | | 18 | .072 | 0 | v | 50 | 36078... | 36450 | .284 | 2.279 | 1.. H1-1b |
| 23 | M27 | HSS1.500.. | .081 | 2.. | 16 | .013 | 0 | | 5 | 6372.8... | 12701.... | .485 | .485 | 1.. H1-1b |
| 24 | M28 | PL3/8X3 | .056 | | 42 | .043 | 0 | v | 50 | 36078... | 36450 | .284 | 2.279 | 1.. H1-1b |
| 25 | M29 | HSS1.500.. | .052 | 1.. | 24 | .019 | 0 | | 5 | 7014.8... | 12701.... | .485 | .485 | 1.. H1-1b |
| 26 | M30 | PL3/8x3.5 | .883 | .5 | 3 | .073 | 0 | v | 4 | 23018... | 31201.2 | .138 | 2.273 | 1.. H1-1b |
| 27 | M31 | PL3/8X3 | .020 | 0 | 50 | .047 | .125 | v | 30 | 36078... | 36450 | .284 | 2.279 | 1.. H1-1b |
| 28 | M32 | PL3/8X3 | .066 | 0 | 24 | .059 | .125 | v | 15 | 36078... | 36450 | .284 | 2.279 | 1.. H1-1b |
| 29 | M33 | HSS1.500.. | .256 | 0 | 17 | .025 | 3.333 | | 31 | 8082.0... | 12701.... | .485 | .485 | 1.. H1-1b |
| 30 | M34 | HSS1.500.. | .268 | 3.. | 15 | .016 | 0 | | 16 | 8082.0... | 12701.... | .485 | .485 | 2.. H1-1b |
| 31 | M35 | PIPE 2.0 | .589 | 1.. | 3 | .068 | 0 | | 9 | 40942.... | 45900 | 2.674 | 2.674 | 1.. H1-1b |
| 32 | M36 | PL3/8x3.5 | .897 | 0 | 3 | .078 | .5 | v | 5 | 23018... | 31201.2 | .138 | 2.273 | 1.. H1-1b |
| 33 | MP4A | PIPE 2.0 | .134 | 1 | 50 | .026 | 4.563 | | 38 | 20866... | 32130 | 1.872 | 1.872 | 1.. H1-1b |
| 34 | MP3A | PIPE 2.0 | .128 | 4.. | 24 | .087 | 4.625 | | 4 | 20866... | 32130 | 1.872 | 1.872 | 1.. H1-1b |
| 35 | MP1A | PIPE 2.0 | .258 | 1 | 30 | .034 | 1 | | 6 | 20866... | 32130 | 1.872 | 1.872 | 1.. H1-1b |
| 36 | M46 | PIPE 3.0 | .037 | 0 | 9 | .003 | 7.653 | | 23 | 47657.... | 65205 | 5.749 | 5.749 | 1.. H1-1b* |
| 37 | MP2A | PIPE 2.0 | .174 | 1.. | 42 | .033 | 1.917 | | 29 | 14916... | 32130 | 1.872 | 1.872 | 2.. H1-1b |
| 38 | M50 | PIPE 2.0 | .053 | 1.. | 41 | .016 | 5.5 | | 32 | 20866... | 32130 | 1.872 | 1.872 | 1.. H1-1b |

I. Mount-to-Tower Connection Check

Custom Orientation Required

Yes

| Nodes (labeled per Risa) | Orientation (per graphic of typical platform) |
|-----------------------------|--|
| N4 | 0 |
| N65 | 0 |
| | |
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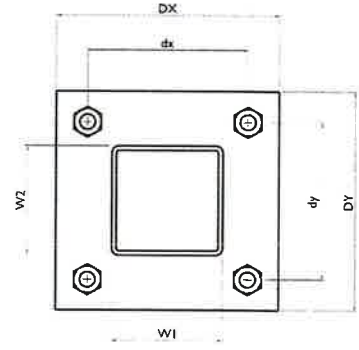
Tower Connection Bolt Checks

Yes

Bolt Orientation

Parallel

| | |
|--|-------|
| Bolt Quantity per Reaction: | 4 |
| d _x (in) (Delta X of typ. bolt config. sketch): | 3 |
| d _y (in) (Delta Y of typ. bolt config. sketch): | 2 |
| Bolt Type: | A36 |
| Bolt Diameter (in): | 0.5 |
| Required Tensile Strength / bolt (kips): | 2.0 |
| Required Shear Strength / bolt (kips): | 0.3 |
| Tensile Capacity / bolt (kips): | 6.4 |
| Shear Capacity / bolt (kips): | 3.8 |
| Bolt Overall Utilization: | 31.9% |



Tower Connection Baseplate Checks

No

VzW
SMART ToolSM
Vendor

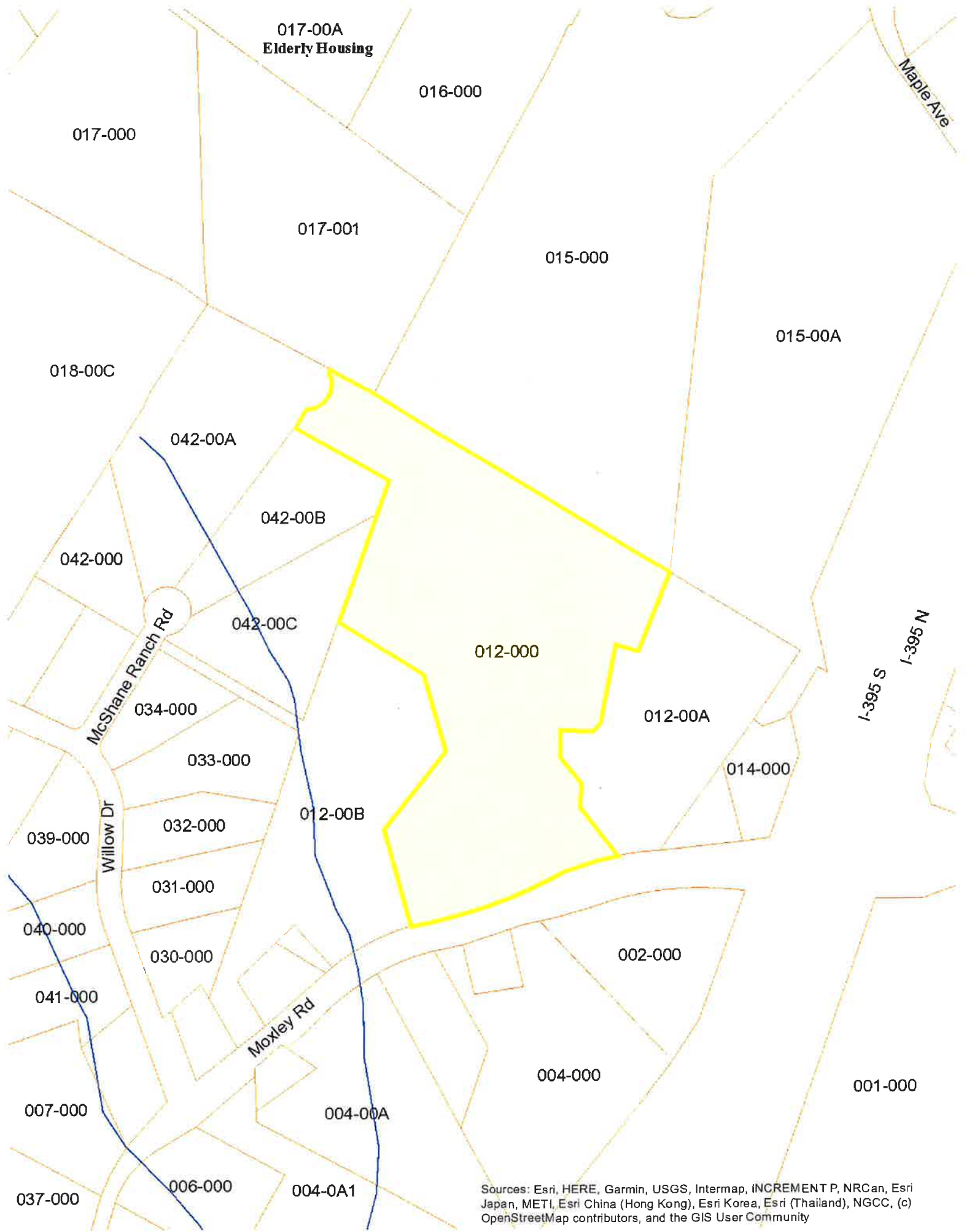
| | | | |
|------------|------------------|-------|------------|
| Client: | Verizon Wireless | Date: | 11/27/2023 |
| Site Name: | Uncasville CT | | |
| PSLC #: | 5000243394 | | |
| Fuze ID #: | 16272079 | Page: | 2 |

Version 1.01

Tower Connection Weld Checks

No

ATTACHMENT 5



017-00A
Elderly Housing

016-000

017-000

017-001

015-000

015-00A

018-00C

042-00A

042-00B

042-000

042-00C

012-000

012-00A

034-000

033-000

014-000

032-000

012-00B

Willow Dr

039-000

031-000

030-000

040-000

041-000

Moxley Rd

002-000

007-000

004-000

001-000

006-000

004-00A

004-0A1

037-000

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



Property Card: 71 MOXLEY RD
Town of Montville, CT

Parcel Information

| | | | | | |
|------------|--------------|----------------|----------------|----------------|-------------|
| Location: | 71 MOXLEY RD | Property Use: | Use Assessment | Primary Use: | Residential |
| Unique ID: | W0061700 | Map Block Lot: | 017-012-000 | Acres: | 14.34 |
| | | Zone: | R40 | Volume / Page: | 0151/1005 |
| | | Sale Date: | 03/23/1983 | Sale Price: | \$0 |

Value Information

| | Appraised Value | Assessed Value |
|-----------------------|-----------------|----------------|
| Land | 35850 | 6730 |
| Buildings | 0 | 0 |
| Detached Outbuildings | 207290 | 145100 |
| Total | 243140 | 151830 |

Owner's Information

| Owner's Data |
|---|
| WAINWRIGHT ERNEST C & WALTER N JR 149 GREAT NECK RD WATERFORD, CT 06385 |




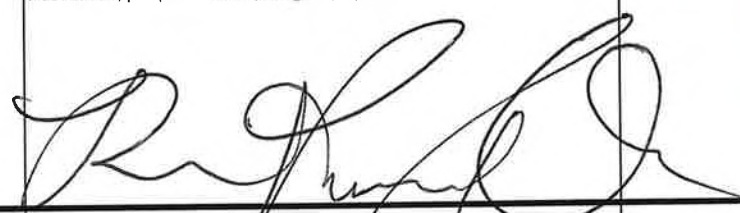
www.cai-tech.com

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ATTACHMENT 6

Certificate of Mailing — Firm



| | | | |
|--|--|---|---|
| Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103 | TOTAL NO. of Pieces Listed by Sender <p style="text-align: center; font-size: 2em;">3</p> | TOTAL NO. of Pieces Received at Post Office™ <p style="text-align: center; font-size: 2em;">3</p> | Affix Stamp Here Postmark with Date of Receipt. <div style="text-align: right;">  </div> |
| | Postmaster, per (name of receiving employee)  | | |

| USPS® Tracking Number Firm-specific Identifier | Address (Name, Street, City, State, and ZIP Code™) | Postage | Fee | Special Handling | Parcel Airlift |
|---|---|---------|-----|------------------|----------------|
| 1. | Leonard Bunnell Sr., Mayor Town of Montville 310 Norwich – New London Turnpike Uncasville, CT 06382 | | | | |
| 2. | Meredith Badalucca, Assistant Planner Town of Montville 310 Norwich – New London Turnpike Uncasville, CT 06382 | | | | |
| 3. | Ernest and Walter Wainwright 149 Great Neck Road Waterford, CT 06385 | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |