

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

October 19, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
36 Lower Road, North Canaan, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to the tower and associated equipment on the ground adjacent to the tower. The tower was approved by the Town of North Canaan (“Town”) in April of 1998. Cellco’s use of the tower was approved by the Siting Council (“Council”) in December of 2006 (EM-VER-100-061115). A copy of the Town approval and Council’s EM-VER-100-061115 approval are included in [Attachment 1](#).

Cellco now intends to modify its facility by installing three (3) new Samsung MT6407-77A antennas on Cellco’s existing antenna platform. A set of project plans showing Cellco’s proposed facility modifications and new antennas 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 North Canaan’s Chief Elected Official and Land Use Officer. The Town of North Canaan is the owner of the Property.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounting system 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 is included in Attachment 6.

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

Melanie A. Bachman, Esq.
October 19, 2021
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Sincerely,

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

Kenneth C. Baldwin

Enclosures

Copy to:

Charles P. Perotti, North Canaan First Selectman
Steve Allyn, Planning and Zoning Commission Chairman
Litchfield County Dispatch
Karla Hanna, Verizon Wireless

ATTACHMENT 1

Permit # 5830 Building Inspector W Bonap
 Date 4-24-98

BUILDING PERMIT

ISSUED TO Litchfield County Dispatch
 TO _____
 AT LOCATION 38 Lour Rd

TOWN OF NORTH CANAAN, CONN.

THIS PERMIT EXPIRES ONE YEAR FROM DATE OF ISSUE
POST THIS CARD AT BUILDING SIGHT IN A DRY AREA AVAILABLE TO THE BUILDING OFFICIAL

Where applicable, separate permits are required for electrical, plumbing and mechanical installations.
 Work shall not proceed until the Inspector has approved the various stages of construction.

	Date Inspected	Date Inspected
Preliminary & or Excavation _____		Plumbing Rough-In _____
Footings & Foundations _____		HVAC Rough-In _____
Waterproofing/Foundation Coating _____		Electric Rough-In _____
Footing Drains _____		Fireplace & Masonry Chimneys _____
Electrical Service _____		Insulation Inspection _____
Framing Inspection _____		Sheetrock or Plaster _____
Roofing Inspection _____		Fuel Tanks and Lines _____

This Structure is Not to be Used in Whole or Part Until a Certificate of Occupancy is Issued

APPLICATION FOR BUILDING PERMIT

(APPLICATION MUST BE TYPED OR PRINTED)

TOWN OF North Canaan PERMIT NO. 5830

LOCATION OF JOB	FEE SCHEDULE	TYPE OF JOB
<u>38 LOWER Road</u> NO. STREET <u>N. CANAAN Ct 06018</u> TOWN STATE ZIP	FEE ESTIMATED VALUE \$12 FOR 1ST \$1000 (MINIMUM FEE). \$ 5 FOR EACH ADDITIONAL \$1000 OR PART THEREOF. BUILDING OFFICIAL MAY DEMAND AFFIDAVIT OF ACTUAL VALUE.	<input checked="" type="checkbox"/> ORIGINAL CONST. <input type="checkbox"/> REPAIR <input type="checkbox"/> ALTERATION <input type="checkbox"/> DEMOLITION <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF USE
OWNER	VALUE-FEES	REQUIREMENTS
<u>Litchfield County Dispatch Inc</u> NAME <u>452 Bantam Rd</u> NO. STREET <u>Litchfield Ct 06759</u> TOWN STATE ZIP	VALUE FEE ESTIMATED <u>\$750,000.00</u> <u>\$3,750.00</u> ACTUAL _____ DIFFERENCE _____ ADDITIONAL FEE _____	<input type="checkbox"/> BLUEPRINTS <input type="checkbox"/> TOWN ZONING <input type="checkbox"/> SANITATION APPLIC. <input type="checkbox"/> PLOT PLAN <input type="checkbox"/> OTHER _____
APPLICANT	DEPARTMENT DECISION	TYPE OF BUILDING
<u>Litchfield County Dispatch Inc</u> NAME <u>452 Bantam Rd</u> NO. STREET <u>Litchfield Ct 06759</u> TOWN STATE ZIP	APPLICATION IS HEREBY <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED <u>4-24-98</u> <u>W. Bond</u> DATE INSPECTOR	<input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> COMMERCIAL <input checked="" type="checkbox"/> <u>Emergency 911 Radio Tower and Transmitter Building -</u> OTHER



BUILDER-CONTRACTOR INFORMATION	
NAME _____ NO. STREET _____ TOWN STATE ZIP _____	CONTRACTOR LICENSE - REGISTRATION NUMBER _____ EXPIRATION DATE _____ CONTRACTOR TELEPHONE _____ CONTRACTOR SIGNATURE _____

MECHANICAL CONTRACTORS ARE REQUIRED TO OBTAIN PERMITS BEFORE STARTING ANY WORK. PERMITS EXPIRE ONE (1) YEAR FROM DATE OF ISSUE.

DISTANCE FROM EACH SIDE LOT LINE	1. DESCRIPTION OF STRUCTURE
NORTH _____ EAST _____ SOUTH _____ WEST _____	<u>Communication tower and 1 story Bldg</u> TYPE <u>3A</u> NO. OF STORIES <u>1957</u> 2. PROPOSED USE <u>911 Communication</u> USE GROUP <u>M</u> 3. TWO (2) COPIES OF PLANS AND SPECIFICATIONS ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO 4. PLOT PLAN ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO

REMARKS:
1. Seismic Requirement (see Spec Page 135) design will follow.
2. Plot Plan will follow.

This is to certify that I am the owner or authorized agent for the owner. All work covered by this application has been authorized by the owner of this property and will be done according to the Connecticut Basic Building Code. As the applicant I understand that a Certificate of Use and Occupancy document is required before occupancy.

4-24-98 Alan J. Ford "Manager"
 DATE APPLICANT SIGNATURE

December 21, 2006

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

RE: **EM-VER-100-061115** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 38 Lower Road, North Canaan, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on December 21, 2006, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated November 15, 2006, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. 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. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Daniel F. Caruso
Chairman
DFC/MP/laf

c: The Honorable Douglas E. Humes, Jr., First Selectman, Town of North Canaan
Martin McKay, Planning and Zoning Chairman, Town of North Canaan
Michele G. Briggs, New Cingular Wireless PCS, LLC
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
Christopher B. Fisher, Esq., Cuddy & Feder LLP

ATTACHMENT 2



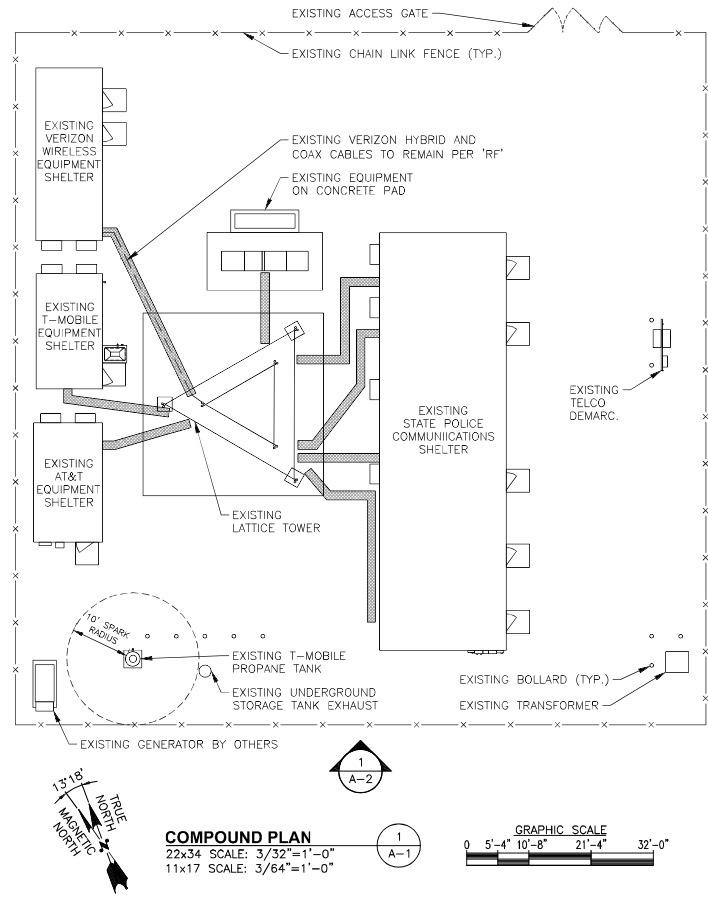
VICINITY MAP
SCALE: N.T.S.

APPROXIMATE LATITUDE: N42° 00' 52.76"
COORDINATES: LONGITUDE: W73° 19' 34.64"

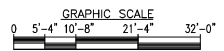
NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING IS BASED UPON THE LATEST MOUNT ASSESSMENT BY MASER CONSULTING CONNECTICUT

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC. DATED: AUGUST 16, 2021 (Rev.1)

NOTE:
PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:
DIMENSIONS H35.12"xW16.06"xD5.51"
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS.



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



SCOPE

- EXISTING (12) ANTENNAS TO REMAIN, INSTALL (3) PROPOSED ANTENNAS PER 'RF'.
- EXISTING (6) RRH'S TO REMAIN, INSTALL (3) PROPOSED RRH'S PER 'RF'.
- EXISTING (1) JUNCTION BOX TO REMAIN PER 'RF'.
- EXISTING (1) HYBRID CABLE TO REMAIN PER 'RF', EXISTING (6) COAX CABLES TO REMAIN PER 'RF'.
- ALL REPLACEMENT ANTENNAS TO MATCH EXISTING CONDITION & HEIGHTS.
- RECONFIGURE/RELOCATE EXISTING ANTENNA MOUNTS AS NECESSARY TO ACCOMMODATE HORIZONTAL SEPARATION, PROPOSED AZIMUTHS, AND ANTENNAS CONFIGURATION.

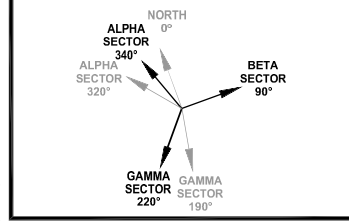
NEW ANTENNA CONFIGURATION

NOTE TO GENERAL CONTRACTOR:
'RF' DESIGN AND EQUIPMENT IS BASED UPON RFDS ISSUED BY VZW DATED: AUGUST 6, 2021 REVISION #1.
THE CONTRACTOR OF RECORD SHALL CONTACT VZW PRIOR TO ANY AND ALL ORDERING/PURCHASING/INSTALLATION OF EQUIPMENT TO VERIFY THAT THE 'RF' LISTED IN THE DRAWING SET IS CURRENT AND UP TO DATE.

NOTES

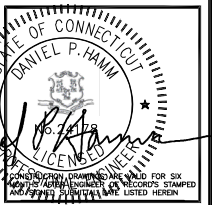
- NORTH SHOWN AS APPROXIMATE.
- SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- ANTENNAS WILL BE CAMOUFLAGED WITH 3M WRAP OR SHERWIN-WILLIAMS PRO INDUSTRIAL DTM ACRYLIC PAINT, AS NEEDED, PER VERIZON WIRELESS AND BUILDING OWNER'S APPROVAL.
- PRIOR TO COMMENCEMENT OF ANY WORK, PROPOSED ANTENNA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

ANTENNA ORIENTATION



FIELD INSPECTION DATE: 06-14-2021

PREPARED FOR: CELCO PARTNERSHIP D.B.A.



CHECKED BY: JX
APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	08/28/21	REVISION PER NEW RFDS	SF
0	07/15/21	FOR CONSTRUCTION	DS

SITE NAME:
NORTH CANAAN CT

SITE ADDRESS:
36 LOWER ROAD
CANAAAN, CT 06018

SHEET TITLE:
COMPOUND PLAN

SHEET NUMBER:
A-1

NOTE:
 PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:
 DIMENSIONS H35.12"xW16.06"xD5.51"
 WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS

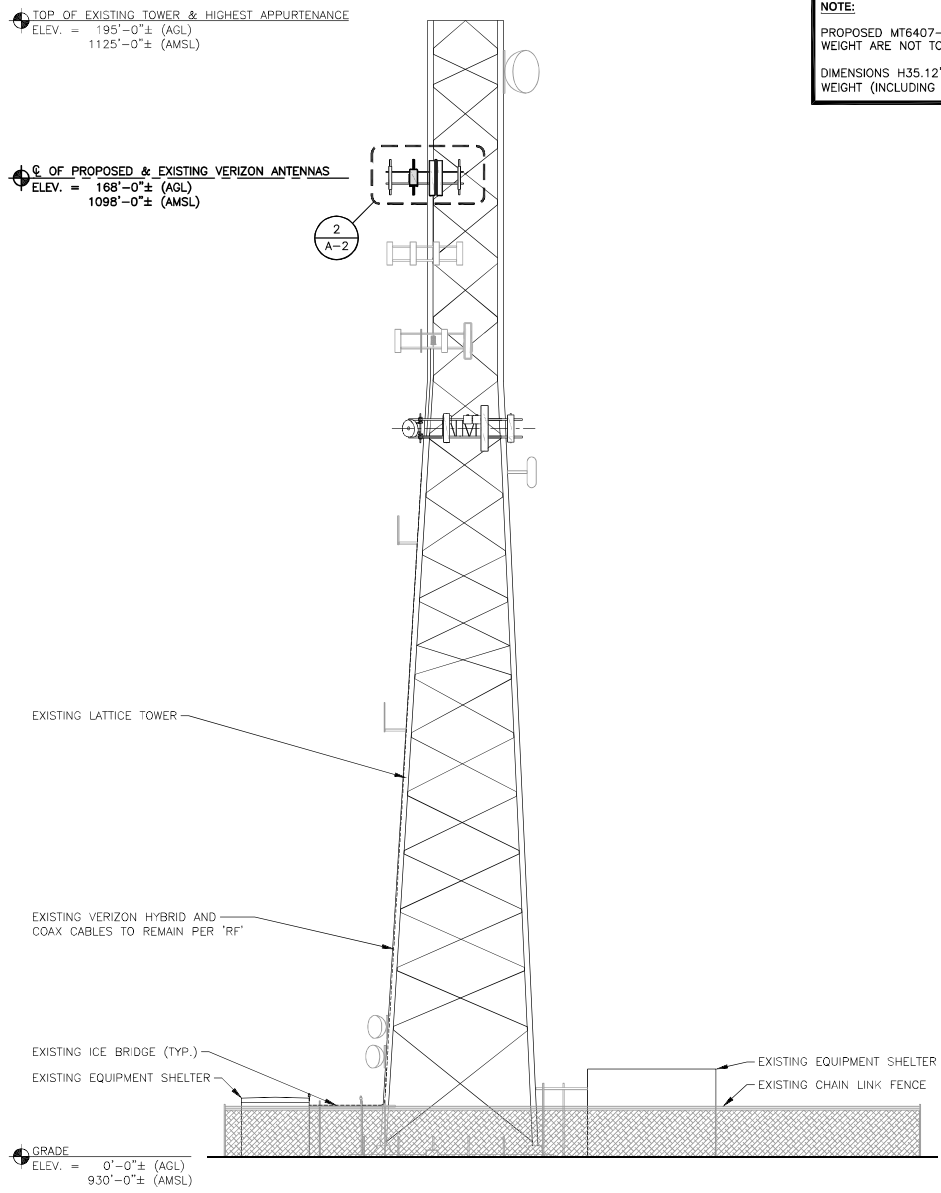
NOTE:
 AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC
 DATED: AUGUST 16, 2021 (Rev.1)

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

PREPARED FOR: CELCO PARTNERSHIP D.B.A.

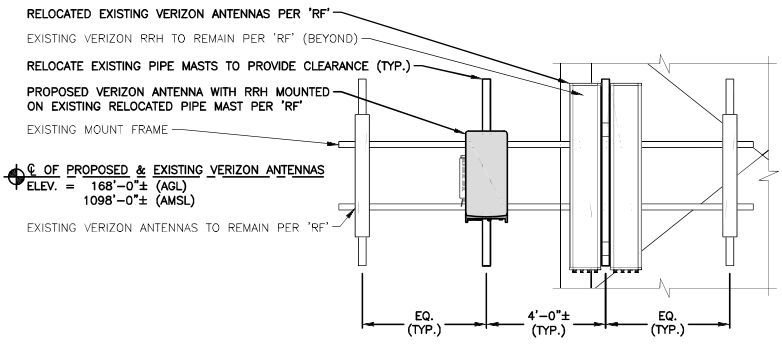


45 BEECHWOOD DRIVE TEL: (878) 557-5553
 N. ANDOVER, MA 01846 FAX: (878) 530-5504



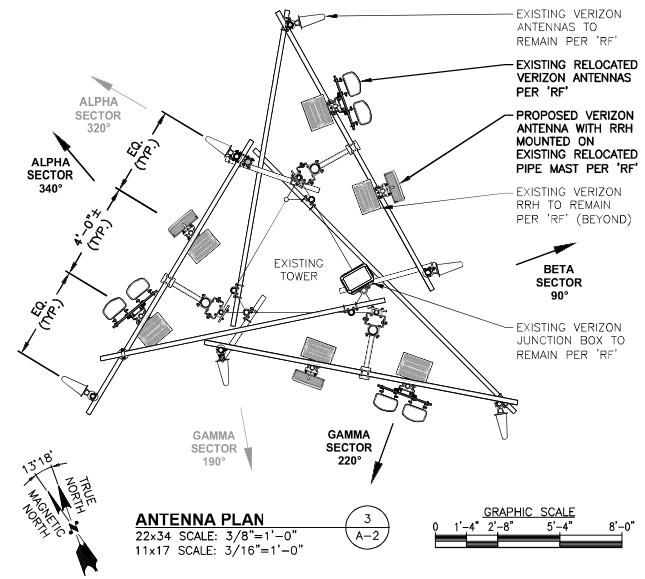
ELEVATION
 22x34 SCALE: 3/32"=1'-0"
 11x17 SCALE: 3/64"=1'-0"

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



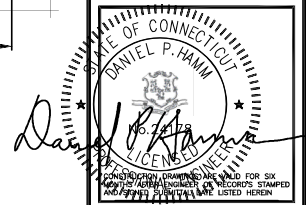
ENLARGED ELEVATION
 22x34 SCALE: 1/2"=1'-0"
 11x17 SCALE: 1/4"=1'-0"

GRAPHIC SCALE
 0 2 4 6 FEET



ANTENNA PLAN
 22x34 SCALE: 3/8"=1'-0"
 11x17 SCALE: 3/16"=1'-0"

GRAPHIC SCALE
 0 1'-4" 2'-8" 5'-4" 8'-0"



CHECKED BY: JX
 APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	08/20/21	REVIEW PER NEW RFDS	SF
0	07/15/21	FOR CONSTRUCTION	DS

SITE NAME:
 NORTH CANAAN CT

SITE ADDRESS:
 36 LOWER ROAD
 CANAAN, CT 06018

SHEET TITLE
 ELEVATION &
 ANTENNA PLAN

SHEET NUMBER
A-2

STRUCTURAL NOTES:

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

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

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

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

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

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

SPECIAL INSPECTION CHECKLIST
BEFORE CONSTRUCTION

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
N/A	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS ³

ADDITIONAL TESTING AND INSPECTIONS:
DURING CONSTRUCTION

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS ⁴
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT

ADDITIONAL TESTING AND INSPECTIONS:
AFTER CONSTRUCTION

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS

ADDITIONAL TESTING AND INSPECTIONS:

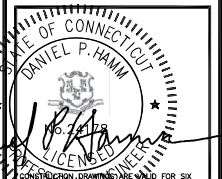
- NOTES:**
- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL BOLTS OR STEEL.
 - PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
 - PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
 - HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C.D 110MPH INSPECT FRAMING OF WALLS, ANCHORING,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

- NOTES:**
- ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"Ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
 - SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
 - SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
 - VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
 - CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
 - EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

PREPARED FOR: CELCO PARTNERSHIP D.B.A.



45 BEECHWOOD DRIVE TEL: (978) 557-5553
N. ANDOVER, MA 01846 FAX: (978) 530-5504



CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	08/29/21	REVISION PER NEW RFD'S	SF
0	07/15/21	FOR CONSTRUCTION	DS

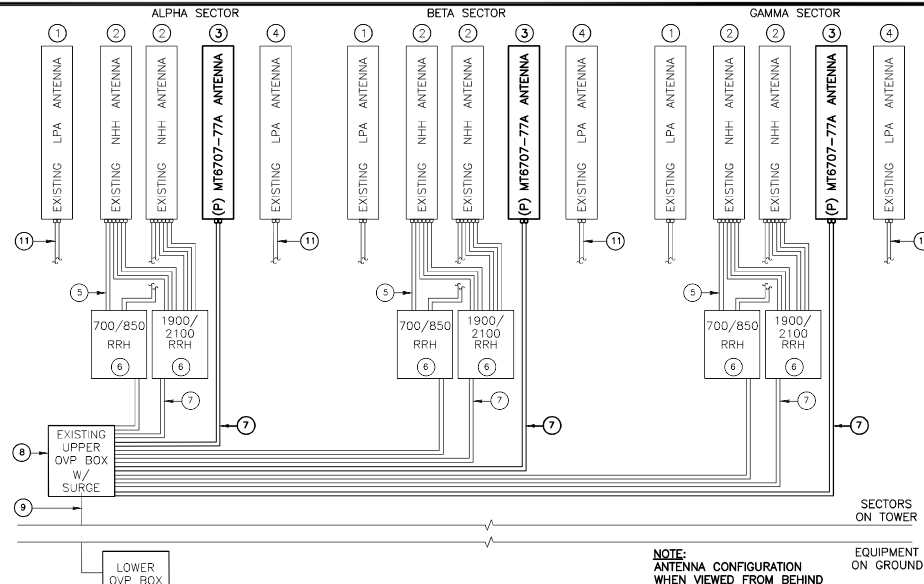
SITE NAME:
NORTH CANAAN CT

SITE ADDRESS:
36 LOWER ROAD
CANAAN, CT 06018

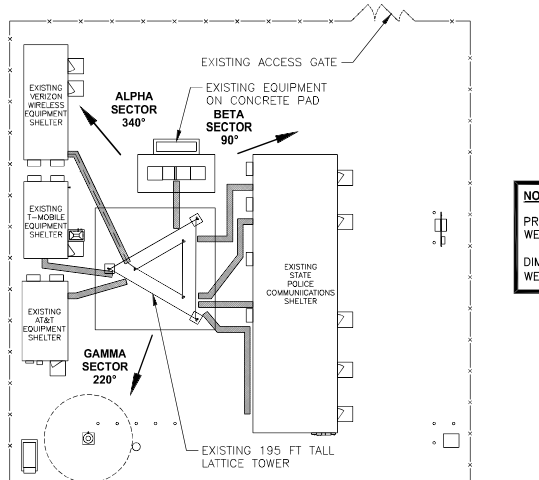
SHEET TITLE
STRUCTURAL NOTES
&
SPECIAL INSPECTIONS

SHEET NUMBER
SN-1

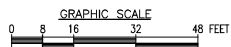
BILL OF MATERIAL				
SITE NAME: NORTH CANAAN CT				
ITEM	DESCRIPTION	QTY	LENGTH	COMMENTS
1	EXISTING LPA-80080-4CF-EDIN-4 ANTENNA	1		MOUNTED TO EXISTING PIPE MAST
1	EXISTING LPA-80090/4CF ANTENNA	2		MOUNTED TO EXISTING PIPE MAST
2	EXISTING NHH-65B-R2B ANTENNA	4		MOUNTED TO EXISTING PIPE MAST
2	EXISTING NHH-85B-R2B ANTENNA	2		MOUNTED TO EXISTING PIPE MAST
3	PROPOSED MT6407-77A ANTENNA	3		MOUNTED TO EXISTING PIPE MAST
4	EXISTING LPA-80080-4CF-EDIN-4 ANTENNA	1		MOUNTED TO EXISTING PIPE MAST
4	EXISTING LPA-80090/4CF ANTENNA	2		MOUNTED TO EXISTING PIPE MAST
5	EXISTING 1/2" TOP COAX JUMPERS	36	-	ROUTE FROM RRH TO ANTENNA
6	EXISTING SAMSUNG RRH B5/B13 RRH-BR04C	3		MOUNTED TO EXISTING PIPE MAST
6	EXISTING SAMSUNG RRH B2/B66A RRH-BR049	3		MOUNTED TO EXISTING PIPE MAST
7	PROPOSED SAMSUNG FIBER JUMPER CABLES	3	24 FT.	ROUTE FROM OVP TO PROPOSED RRH
7	PROPOSED SAMSUNG POWER JUMPER CABLES	3	24 FT.	ROUTE FROM OVP TO PROPOSED RRH
7	EXISTING SAMSUNG FIBER JUMPER CABLES	6	-	ROUTE FROM OVP TO RRH
7	EXISTING SAMSUNG POWER JUMPER CABLES	6	-	ROUTE FROM OVP TO RRH
8	EXISTING UPPER OVP	1		MOUNTED TO EXISTING PIPE MAST
9	EXISTING HYBRID CABLE	1	-	ROUTE FROM EQUIPMENT TO OVP
10	EXISTING LOWER OVP	1		RACK MOUNTED INSIDE CABINET
11	EXISTING COAX CABLE	6	-	ROUTE FROM EQUIPMENT TO ANTENNA SECTORS



THE ABOVE RF-BOM SHEET IS BASED ON INFORMATION LISTED ON ANTENNA RECOMMENDATION SHEET DATED 08/05/2021

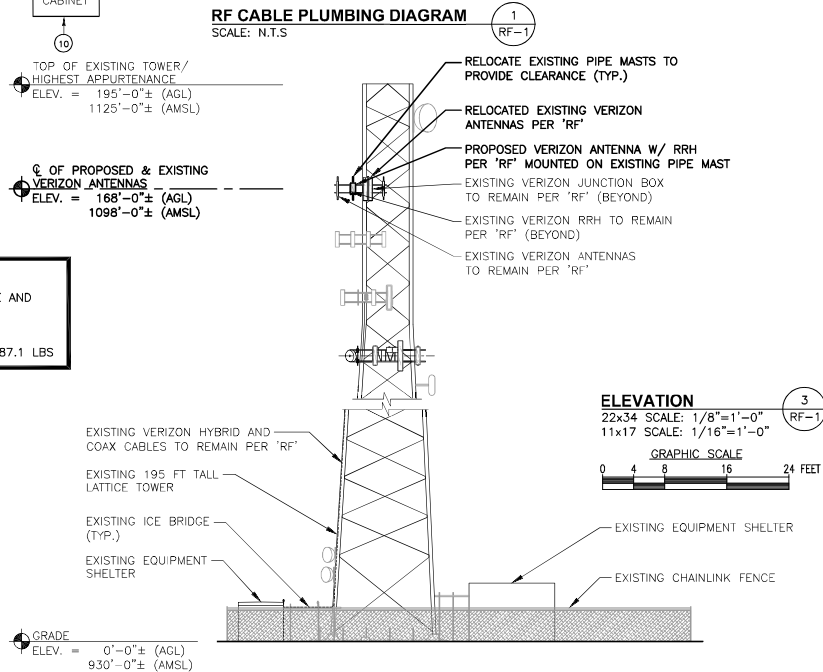


COMPOUND PLAN
22x34 SCALE: 1/16"=1'-0"
11x17 SCALE: 1/32"=1'-0"



NOTE:
PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:
DIMENSIONS H35.12"xW16.06"xD5.51"
WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS

RF CABLE PLUMBING DIAGRAM
SCALE: N.T.S



ELEVATION
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"
GRAPHIC SCALE
0 4 8 16 24 FEET

PREPARED FOR: CELCO PARTNERSHIP D.B.A.

45 BEECHWOOD DRIVE TEL: (978) 557-5553
N. ANDOVER, MA 01846 FAX: (978) 536-5504

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	08/28/21	REVISD PER NEW RFDS	SF
0	07/15/21	BILL OF MATERIAL	DS

SITE NAME:
NORTH CANAAN CT

SITE ADDRESS:
36 LOWER ROAD
CANAAAN, CT 06018

SHEET TITLE
RF PLUMBING
DIAGRAM & BILL OF
MATERIAL

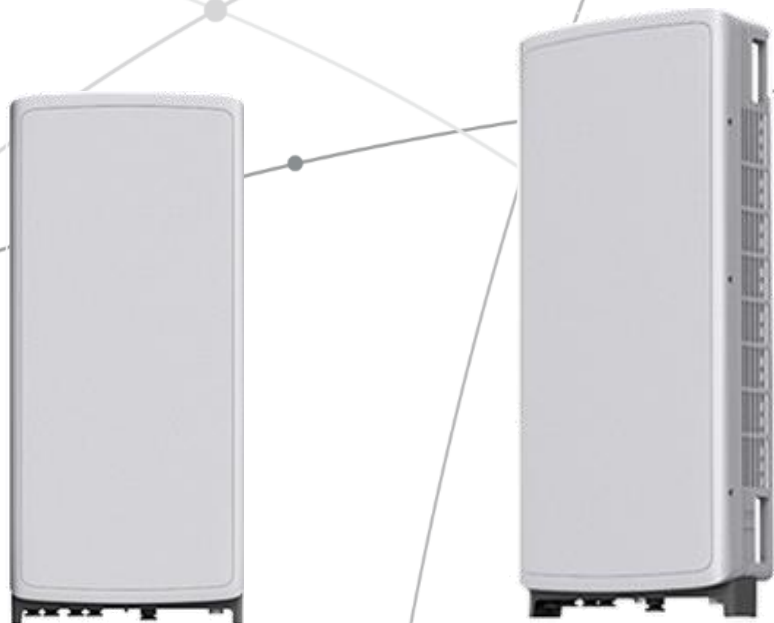
SHEET NUMBER
RF-1

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A



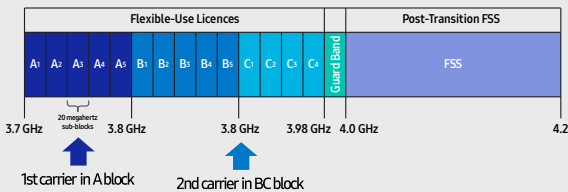
Points of Differentiation

Wide Bandwidth

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

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

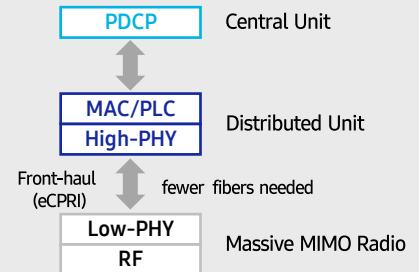
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

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

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

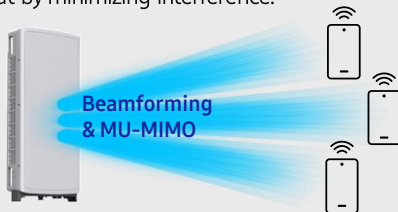


Enhanced Performance

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

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

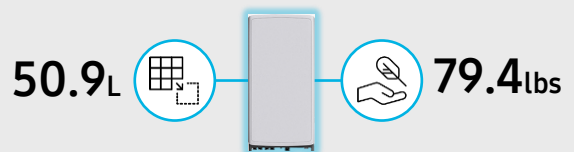
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

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

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



Technical Specifications

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



SAMSUNG



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

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

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ATTACHMENT 3

	General	Power	Density					
Site Name: North Canaan								
Tower Height: Verizon @ 168ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS. EXP.	FRACTION MPE	Total
*Sprint	2	310	154	850	0.0102	0.5667	0.18%	
*Sprint	5	495	154	1900	0.0406	1.0000	0.41%	
*Sprint	2	1236	154	1900	0.0406	1.0000	0.41%	
*Sprint	8	640	154	2500	0.0841	1.0000	0.84%	
*AT&T-GSM	1	500	140	850	0.0100	0.5667	0.18%	
*AT&T-GSM	1	1476	140	700	0.0296	0.4667	0.63%	
*AT&T-PCS-UMTS	1	2951	140	700	0.0591	0.4667	1.27%	
*AT&T-UMTS	1	1000	140	850	0.0200	0.5667	0.35%	
*AT&T-AWS-LTE	1	1000	140	850	0.0200	0.5667	0.35%	
*AT&T-LTE	2	4842	140	1900	0.1939	1.0000	1.94%	
*T-Mobile	2	2334	125	2100	0.1185	1.0000	1.19%	
*T-Mobile	2	2334	125	1900	0.1185	1.0000	1.19%	
*T-Mobile	2	1403	125	1900	0.0713	1.0000	0.71%	
*T-Mobile	1	679	125	700	0.0172	0.4667	0.37%	
*T-Mobile	1	1718	125	11000	0.0436	1.0000	0.44%	
VZW 700	4	655	168	751	0.0033	0.5007	0.67%	
VZW CDMA	2	404	168	878.49	0.0010	0.5857	0.18%	
VZW Cellular	4	681	168	874	0.0035	0.5827	0.60%	
VZW PCS	4	1363	168	1975	0.0069	1.0000	0.69%	
VZW AWS	4	1556	168	2127.5	0.0079	1.0000	0.79%	
VZW CBAND	4	6531	168	3730.08	0.0333	1.0000	3.33%	
								16.70%
* Source: Siting Council								

ATTACHMENT 4

(REVISED)
STRUCTURAL ANALYSIS REPORT

For

NORTH CANAAN CT

36 Lower Road
Canaan, CT 06018

Antennas Mounted on the Tower



Prepared for:

verizon[✓]

20 Alexander Drive
Wallingford CT 06492

Dated: August 16, 2021 (Rev.1)

June 28, 2021

Prepared by:

HGD | **HUDSON**
Design Group LLC

45 Beechwood Drive
North Andover, MA 01845
(P) 978.557.5553 (F) 978.336.5586
www.hudsondesigngroupllc.com





SCOPE OF WORK:

Hudson Design Group LLC (HDG) has been authorized by Verizon to conduct a structural evaluation of the 195' self-supporting tower supporting the proposed Verizon's antennas located at elevation 168' above the ground level.

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

The following documents were used for our reference:

- Structural Analysis prepared by Centek Engineering dated February 27, 2018.
- Previous HDG Structural Analysis dated January 9, 2019.
- Mount Structural Analysis prepared by Maser Consulting dated May 12, 2021.
- Tower Mapping Report prepared by Provertic LL dated June 17, 2021.

CONCLUSION SUMMARY:

Based on our evaluation, we have determined that the existing tower **is in conformance** with the ANSI/TIA-222-G Standard for the loading considered under the criteria listed in this report. The tower structure is rated at **86.3 %** - (Diagonals at Tower Section T13 from EL.0' to EL.20' Controlling).

FOUNDATION SUMMARY:

Based on our evaluation, we have determined that the existing foundation **is in conformance** with the ANSI/TIA-222-G Standard for the loading considered under the criteria listed in this report. The foundation is rated at **89.0 %** - (Rock Anchors Controlling).



APPURTENANCES CONFIGURATION:

Tenant	Appurtenances	Elev.	Mount
	6' Dish	188'	Tower Leg
	(4) OTG9-840	184'	Side Mount Standoff
	(1) ANTI50D3	184'	Side Mount Standoff
	(1) ANTI50F2	183'	Side Mount Standoff
	10' Dipole	168'	T - Frame
Verizon	(6) LPA-80090/4CF Antennas	168'	T - Frame
Verizon	(6) NHH-65B-R2B Antennas	168'	T - Frame
Verizon	(3) B5/B13 RRH-BR04C RRH's	168'	T - Frame
Verizon	(3) B2/B66A RRH-BR049 RRH's	168'	T - Frame
Verizon	(1) Junction Box	168'	T - Frame
Verizon	(3) MT6407-77A Antennas	168'	T - Frame
	(3) APXV9ERR18-C Antennas	154'	T - Frame
	(3) DT465B-2XR Antennas	154'	T - Frame
	(6) RRH-800 RRH's	154'	T - Frame
	(3) RRH-1900 RRH's	154'	T - Frame
	(3) TD-RRH8x20-25 RRH's	154'	T - Frame
	(3) 7770 Antennas	140'	T - Frame
	(6) TPA65R-BU6DA Antennas	140'	T - Frame
	(3) 4449 B5/B12 RRH'S	140'	T - Frame
	(3) B14 4478 RRH's	140'	T - Frame
	(3) RRUS-32 RRH's	140'	T - Frame
	(3) Diplexers	140'	T - Frame
	(1) DC6 Sure Arrestor	140'	T - Frame
	(2) Squid Surge Arrestors	140'	T - Frame
	(4) AIR 32 Antennas	125'	T - Frame
	(4) APXVAA24-43 Antennas	125'	T - Frame
	(4) APXV18-206517S Antennas	125'	T - Frame
	(4) RRUS-11 RRH's	125'	T - Frame
	(4) 4426 RRH's	125'	T - Frame
	(1) SC2-W100AB	125'	T - Frame
	(1) ANTI50D3	105'	Side Mount Standoff
	(1) Ice shield	101'	Tower Leg
	(1) PD458-2	98'	Side Mount Standoff
	(1) 6' Dish	97'	Tower Leg
	(1) PD220	78'	Side Mount Standoff
	(1) PD1142	78'	Side Mount Standoff
	(1) BCD-80609	78'	Side Mount Standoff
	(1) 6' Yagi	78'	Side Mount Standoff
	(1) DB222	78'	Side Mount Standoff
	(1) GPS	32'	Side Mount Standoff



VERIZON EXISTING COAX CABLES:

Tenant	Coax Cables	Elev.	Mount
Verizon	(6) 1 5/8" Cables	168'	Tower Face
Verizon	(1) 1 5/8" Hybrid Cable	168'	Tower Face

**Proposed Verizon Coax Cables shown in Bold.*

ANALYSIS RESULTS SUMMARY:

Component	Max. Stress Ratio	Elev. of Component (ft)	Pass/Fail	Comments
Legs	82.9 %	20 – 40	PASS	
Diagonals	86.3 %	0 – 20	PASS	Controlling
Top Girt	64.7 %	100 – 110	PASS	

FOUNDATION RESULTS SUMMARY:

	Stress Ratio	Pass/Fail	Comments
Bearing	28.2 %	PASS	
Overturning	-	PASS	
Sliding	37.6 %	PASS	
Shear	26.7 %	PASS	
Rock Anchors	89.0 %	PASS	Controlling



DESIGN CRITERIA:

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

County: Litchfield
Ultimate Wind Speed: 120 mph
Nominal Wind Speed: 93 mph
Structural Class: III
Exposure Category: C
Topographic Category: 1
Nominal Ice Thickness: 1 inch

2. Approximate height above grade to proposed antennas: 168'

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

ASSUMPTIONS:

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

SUPPORT RECOMMENDATIONS:

HDG recommends that the proposed antennas be mounted on the existing T-frame supported by the tower.

Reference HDG's Latest Construction Drawings for all component and connection requirements (attached).



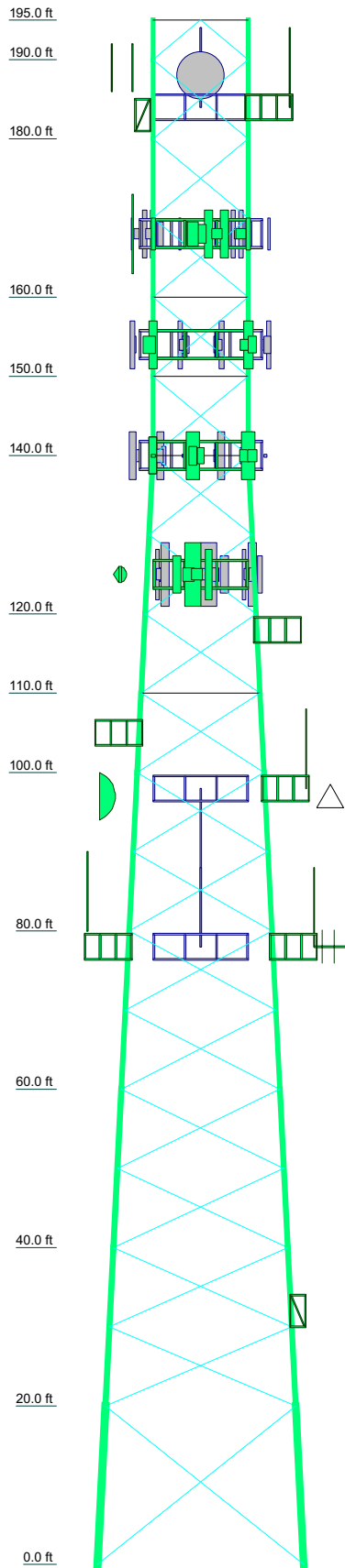
Photo 1: Photo illustrating the Tower with Appurtenances shown.



HUDSON
Design Group LLC

CALCULATIONS

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	12	
Legs	Pirod 105216	Pirod 105217	Pirod 105218	Pirod 105219	Pirod 105220	Pirod 105220	Pirod 105220	Pirod 105220	Pirod 105220	Pirod 105220	Pirod 105220	Pirod 105220	Pirod 105220	Pirod 105220	Pirod 105244
Leg Grade	A572-50														
Diagonals	L3x3x3/16														
Diagonal Grade	A36														
Top Girts	L3 1/2x3 1/2x3/8														
Face Width (ft)	14														
# Panels @ (ft)	17 @ 10														
Weight (lb) -48908.4	1001.6	2138.8	1698.5	1756.3	3655.6	1891.4	2139.4	5366.6	5904.8	7779.1	7489.8	6883.9	1 @ 20	909.5	

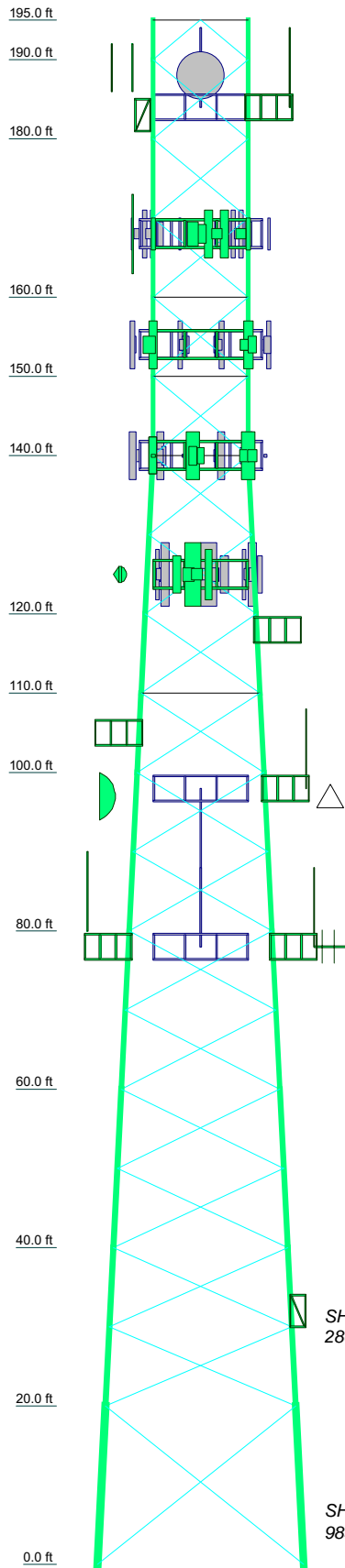


DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
PAR6-59	188	4449 B5/B12 RRH	140
OTG9-840	184	B14 4478 RRH	140
Pirod 6-8' Box Arm (1)	184	B14 4478 RRH	140
OTG9-840	184	B14 4478 RRH	140
OTG9-840	184	RRUS-32 RRH	140
Pirod 6-8' Box Arm (1)	184	RRUS-32 RRH	140
ANT150D3	184	RRUS-32 RRH	140
Pirod 6-8' Box Arm (1)	184	Diplexer	140
ANT150F2	184	Diplexer	140
ANT150D3	184	Diplexer	140
OTG9-840	184	DC6 Surge Arrestor	140
3' Side Mount Standoff	183	Squid Surge Arrestor	140
PIROD 12' T-Frame (Verizon)	168	Squid Surge Arrestor	140
PIROD 12' T-Frame	168	PIROD 12' T-Frame (ATI)	140
PIROD 12' T-Frame	168	PIROD 12' T-Frame	140
10' Dipole	168	PIROD 12' T-Frame	140
NHH-65B-R2B Antenna w/ Mounting Pipe	168	7770 Antenna w/ Mounting Pipe	140
NHH-65B-R2B Antenna w/ Mounting Pipe	168	7770 Antenna w/ Mounting Pipe	140
NHH-65B-R2B Antenna w/ Mounting Pipe	168	7770 Antenna w/ Mounting Pipe	140
NHH-65B-R2B Antenna w/ Mounting Pipe	168	TPA65R-BU6DA Antenna w/ Mounting Pipe	140
NHH-65B-R2B Antenna w/ Mounting Pipe	168	TPA65R-BU6DA Antenna w/ Mounting Pipe	140
NHH-65B-R2B Antenna w/ Mounting Pipe	168	TPA65R-BU6DA Antenna w/ Mounting Pipe	140
NHH-65B-R2B Antenna w/ Mounting Pipe	168	TPA65R-BU6DA Antenna w/ Mounting Pipe	140
NHH-65B-R2B Antenna w/ Mounting Pipe	168	TPA65R-BU6DA Antenna w/ Mounting Pipe	140
LPA-80090/4CF Antenna w/ Mounting Pipe	168	APXV18-206517S-C Antenna w/ Mounting Pipe	125
LPA-80090/4CF Antenna w/ Mounting Pipe	168	APXV18-206517S-C Antenna w/ Mounting Pipe	125
LPA-80090/4CF Antenna w/ Mounting Pipe	168	RRUS-11 RRH	125
LPA-80090/4CF Antenna w/ Mounting Pipe	168	RRUS-11 RRH	125
LPA-80090/4CF Antenna w/ Mounting Pipe	168	RRUS-11 RRH	125
LPA-80090/4CF Antenna w/ Mounting Pipe	168	RRUS-11 RRH	125
LPA-80090/4CF Antenna w/ Mounting Pipe	168	4426 RRH	125
LPA-80090/4CF Antenna w/ Mounting Pipe	168	4426 RRH	125
B2/B66A RRH-BR049 RRH	168	4426 RRH	125
B2/B66A RRH-BR049 RRH	168	4426 RRH	125
B5/13 RRH-BR04C RRH	168	Custom 4-Sided Sector Mount (North Canaan CT) (T-Mobile)	125
B5/13 RRH-BR04C RRH	168	AIR 32 B66A B2A Antenna w/ Mounting Pipe	125
B5/13 RRH-BR04C RRH	168	AIR 32 B66A B2A Antenna w/ Mounting Pipe	125
Junction Box	168	AIR 32 B66A B2A Antenna w/ Mounting Pipe	125
MT6407-77A Antenna w/ Mounting Pipe (Verizon - Proposed)	168	AIR 32 B66A B2A Antenna w/ Mounting Pipe	125
MT6407-77A Antenna w/ Mounting Pipe	168	AIR 32 B66A B2A Antenna w/ Mounting Pipe	125
MT6407-77A Antenna w/ Mounting Pipe	168	APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	125
800 RRH	154	APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	125
800 RRH	154	APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	125
800 RRH	154	APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	125
800 RRH	154	APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	125
1900 RRH	154	APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	125
1900 RRH	154	APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	125
1900 RRH	154	APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	125
RRH 8X20-25	154	APXV18-206517S-C Antenna w/ Mounting Pipe	125
RRH 8X20-25	154	APXV18-206517S-C Antenna w/ Mounting Pipe	125
RRH 8X20-25	154	APXV18-206517S-C Antenna w/ Mounting Pipe	125
PIROD 12' T-Frame (Sprint)	154	SC2-W100AB	125
PIROD 12' T-Frame	154	Pirod 6-8' Box Arm (1)	118
PIROD 12' T-Frame	154	Pirod 6-8' Box Arm (1)	105
APXV9ERR18-C Antenna w/ Mounting Pipe	154	Ice Shield 4'x8'	101
APXV9ERR18-C Antenna w/ Mounting Pipe	154	Pirod 6-8' Box Arm (1)	98
APXV9ERR18-C Antenna w/ Mounting Pipe	154	PD458-470	98
APXV9ERR18-C Antenna w/ Mounting Pipe	154	Pirod 6-8' Box Arm (1)	98
DT465B-2XR Antenna w/ Mounting Pipe	154	PAR6-59	97
DT465B-2XR Antenna w/ Mounting Pipe	154	PD220	78
DT465B-2XR Antenna w/ Mounting Pipe	154	PD1142-30	78
DT465B-2XR Antenna w/ Mounting Pipe	154	Pirod 6-8' Box Arm (1)	78
DT465B-2XR Antenna w/ Mounting Pipe	154	BCD-80609	78
800 RRH	154	6' Yagi	78
800 RRH	154	Pirod 6-8' Box Arm (1)	78
800 RRH	154	DB222	78
TPA65R-BU6DA Antenna w/ Mounting Pipe	140	Pirod 6-8' Box Arm (1)	78
4449 B5/B12 RRH	140	2' Side Mount Standoff	32
4449 B5/B12 RRH	140	GPS	32

Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job: NORTH CANAAN CT		
	Project: 195 ft SST		
	Client: Verizon	Drawn by: ID	App'd:
	Code: TIA-222-G	Date: 07/02/21	Scale: NTS
Path:	Dwg No. E-1		

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	
Legs	Pirod 105216		Pirod 105217		Pirod 105218		Pirod 105219		Pirod 105220		Pirod 112738		Pirod 112738	
Leg Grade	A572-50													
Diagonals	L3x3x3/16													
Diagonal Grade	A36													
Top Girts	N.A.		C		L3 1/2x3 1/2x3/8		N.A.		L3x3x5/16		N.A.		2L3 1/2x3 1/2x3/8	
Face Width (ft)	12		12		14		15		16		18		20	
# Panels @ (ft)	1 @ 5		17 @ 10		17 @ 10		22		24		1 @ 20		1 @ 20	
Weight (lb) -48908.4	1001.6	2138.8	1658.5	1756.3	3655.6	1831.4	2139.4	5366.6	5904.8	7179.1	7489.8	8683.9		



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	2L2 1/2x2 1/2x3/16	C	L3 1/2x3 1/2x1/4
B	L2 1/2x2 1/2x3/16		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

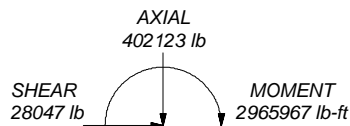
1. Tower is located in Litchfield County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 93 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class III.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 86.3%

ALL REACTIONS
ARE FACTORED

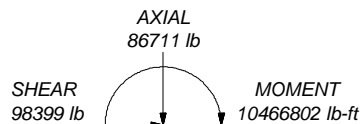
MAX. CORNER REACTIONS AT BASE:

DOWN: 493714 lb
SHEAR: 68878 lb

UPLIFT: -427125 lb
SHEAR: 60094 lb



TORQUE 3506 lb-ft
40 mph WIND - 1.0000 in ICE



TORQUE 9737 lb-ft
REACTIONS - 93 mph WIND

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	Project: 195 ft SST Client: Verizon Code: TIA-222-G Path:	Drawn by: ID Date: 07/02/21	App'd: Scale: NTS Dwg No. E-1

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Tower Input Data

The main tower is a 3x free standing tower with an overall height of 195.00 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 12.00 ft at the top and 26.00 ft at the base.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

Tower is located in Litchfield County, Connecticut.

Basic wind speed of 93 mph.

Structure Class III.

Exposure Category C.

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 40 mph is used in combination with ice.

Temperature drop of 50 °F.

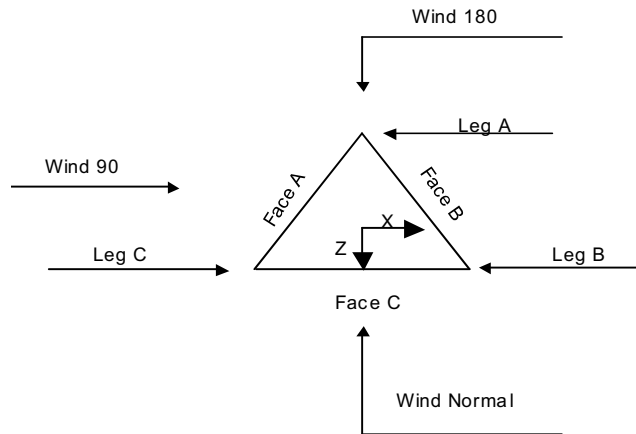
Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.



Triangular Tower

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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	195.00-190.00			12.00	1	5.00
T2	190.00-180.00			12.00	1	10.00
T3	180.00-160.00			12.00	1	20.00
T4	160.00-150.00			12.00	1	10.00
T5	150.00-140.00			12.00	1	10.00
T6	140.00-120.00			12.00	1	20.00
T7	120.00-110.00			14.00	1	10.00
T8	110.00-100.00			15.00	1	10.00
T9	100.00-80.00			16.00	1	20.00
T10	80.00-60.00			18.00	1	20.00
T11	60.00-40.00			20.00	1	20.00
T12	40.00-20.00			22.00	1	20.00
T13	20.00-0.00			24.00	1	20.00

Tower Section Geometry (cont'd)

<i>Tower Section</i>	<i>Tower Elevation</i>	<i>Diagonal Spacing</i>	<i>Bracing Type</i>	<i>Has K Brace End Panels</i>	<i>Has Horizontals</i>	<i>Top Girt Offset</i>	<i>Bottom Girt Offset</i>
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	195.00-190.00	5.00	K Brace Down	No	Yes	0.0000	0.0000
T2	190.00-180.00	10.00	X Brace	No	No	0.0000	0.0000
T3	180.00-160.00	10.00	X Brace	No	No	0.0000	0.0000
T4	160.00-150.00	10.00	X Brace	No	No	0.0000	0.0000
T5	150.00-140.00	10.00	X Brace	No	No	0.0000	0.0000
T6	140.00-120.00	10.00	X Brace	No	No	0.0000	0.0000
T7	120.00-110.00	10.00	X Brace	No	No	0.0000	0.0000
T8	110.00-100.00	10.00	X Brace	No	No	0.0000	0.0000
T9	100.00-80.00	10.00	X Brace	No	No	0.0000	0.0000
T10	80.00-60.00	10.00	X Brace	No	No	0.0000	0.0000
T11	60.00-40.00	10.00	X Brace	No	No	0.0000	0.0000
T12	40.00-20.00	10.00	X Brace	No	No	0.0000	0.0000
T13	20.00-0.00	20.00	X Brace	No	No	0.0000	0.0000

Tower Section Geometry (cont'd)

<i>Tower Elevation</i>	<i>Leg Type</i>	<i>Leg Size</i>	<i>Leg Grade</i>	<i>Diagonal Type</i>	<i>Diagonal Size</i>	<i>Diagonal Grade</i>
<i>ft</i>						
T1 195.00-190.00	Truss Leg	Pirod 105244	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16	A36 (36 ksi)
T2 190.00-180.00	Truss Leg	Pirod 105244	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T3 180.00-160.00	Truss Leg	Pirod 105216	A572-50 (50 ksi)	Equal Angle	L3x3x3/16	A36 (36 ksi)
T4 160.00-150.00	Truss Leg	Pirod 105217	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)
T5 150.00-140.00	Truss Leg	Pirod 105217	A572-50 (50 ksi)	Equal Angle	L3x3x5/16	A36 (36 ksi)
T6 140.00-120.00	Truss Leg	Pirod 105218	A572-50	Equal Angle	L3x3x5/16	A36

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Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T7 120.00-110.00	Truss Leg	Pirod 105218	(50 ksi) A572-50	Equal Angle	L3 1/2x3 1/2x5/16	(36 ksi) A36
T8 110.00-100.00	Truss Leg	Pirod 105218	(50 ksi) A572-50	Equal Angle	L3 1/2x3 1/2x5/16	(36 ksi) A36
T9 100.00-80.00	Truss Leg	Pirod 105219	(50 ksi) A572-50	Equal Angle	L4x4x7/16	(36 ksi) A36
T10 80.00-60.00	Truss Leg	Pirod 105219	(50 ksi) A572-50	Equal Angle	L4x4x7/16	(36 ksi) A36
T11 60.00-40.00	Truss Leg	Pirod 105220	(50 ksi) A572-50	Equal Angle	L5x5x7/16	(36 ksi) A36
T12 40.00-20.00	Truss Leg	Pirod 105220	(50 ksi) A572-50	Equal Angle	L5x5x7/16	(36 ksi) A36
T13 20.00-0.00	Truss Leg	Pirod 112738	(50 ksi) A572-50	Double Equal Angle	2L3 1/2x3 1/2x3/8	(36 ksi) A36

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 195.00-190.00	Double Angle	2L2 1/2x2 1/2x3/16	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T4 160.00-150.00	Equal Angle	L3 1/2x3 1/2x1/4	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T5 150.00-140.00	Equal Angle	L3 1/2x3 1/2x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T6 140.00-120.00	Equal Angle	L3 1/2x3 1/2x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T8 110.00-100.00	Equal Angle	L3x3x5/16	A36 (36 ksi)	Solid Round		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
T1 195.00-190.00	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16	A36 (36 ksi)

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight plf
1 1/4" Hybrid Cable (Sprint)	A	No	Yes	CaAa (In Face)	154.00 - 8.00	3	No Ice 1/2" Ice 1" Ice	0.13 0.23 0.32	1.45 2.52 4.20
1	A	No	Yes	CaAa (In Face)	154.00 - 8.00	1	No Ice	0.13	0.58

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf
				Face)			1/2" Ice	0.23	1.65
							1" Ice	0.32	3.33
1/2	A	No	Yes	CaAa (In Face)	154.00 - 8.00	1	No Ice	0.06	0.25
							1/2" Ice	0.16	0.91
							1" Ice	0.26	2.18
3/8	A	No	Yes	CaAa (In Face)	154.00 - 8.00	10	No Ice	0.09	0.40
							1/2" Ice	0.19	1.24
							1" Ice	0.29	2.70
1/2	A	No	Yes	CaAa (In Face)	154.00 - 8.00	2	No Ice	0.06	0.25
							1/2" Ice	0.16	0.91
							1" Ice	0.26	2.18
3/8	A	No	Yes	CaAa (In Face)	154.00 - 8.00	1	No Ice	0.09	0.40
							1/2" Ice	0.19	1.24
							1" Ice	0.29	2.70
**									
1 5/8 (Verizon)	A	No	Yes	CaAa (In Face)	168.00 - 8.00	6	No Ice	0.20	1.04
							1/2" Ice	0.30	2.55
							1" Ice	0.40	4.68
1 5/8	A	No	Yes	CaAa (In Face)	168.00 - 8.00	1	No Ice	0.20	1.04
							1/2" Ice	0.30	2.55
							1" Ice	0.40	4.68
**									
1 5/8	B	No	Yes	CaAa (In Face)	188.00 - 8.00	6	No Ice	0.20	1.04
							1/2" Ice	0.30	2.55
							1" Ice	0.40	4.68
1 1/4	B	No	Yes	CaAa (In Face)	188.00 - 8.00	2	No Ice	0.16	0.66
							1/2" Ice	0.25	1.91
							1" Ice	0.35	3.78
7/8	B	No	Yes	CaAa (In Face)	188.00 - 8.00	2	No Ice	0.11	0.54
							1/2" Ice	0.21	1.52
							1" Ice	0.31	3.12
**									
1 5/8 (AT&T)	C	No	Yes	CaAa (In Face)	140.00 - 8.00	12	No Ice	0.20	1.04
							1/2" Ice	0.30	2.55
							1" Ice	0.40	4.68
DC Cable	C	No	Yes	CaAa (In Face)	140.00 - 8.00	6	No Ice	0.10	1.70
							1/2" Ice	0.20	2.59
							1" Ice	0.30	4.09
Fiber	C	No	Yes	CaAa (In Face)	140.00 - 8.00	3	No Ice	0.13	0.48
							1/2" Ice	0.23	1.55
							1" Ice	0.32	3.23
**									
1 1/2 (T-Mobile)	C	No	Yes	CaAa (In Face)	125.00 - 8.00	2	No Ice	0.20	1.04
							1/2" Ice	0.30	2.55
							1" Ice	0.40	4.68
1 1/4	C	No	Yes	CaAa (In Face)	125.00 - 8.00	2	No Ice	0.16	0.66
							1/2" Ice	0.25	1.91
							1" Ice	0.35	3.78

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Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
OTG9-840	A	From Leg	6.00	0.0000	184.00	No Ice	3.41	3.41	22.00
			0.00			1/2" Ice	4.58	4.58	46.71
			5.00			1" Ice	5.77	5.77	78.82
OTG9-840	A	From Leg	6.00	0.0000	184.00	No Ice	3.41	3.41	22.00
			0.00			1/2" Ice	4.58	4.58	46.71
			5.00			1" Ice	5.77	5.77	78.82
Pirod 6-8' Box Arm (1)	A	From Leg	3.00	0.0000	184.00	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
OTG9-840	B	From Leg	6.00	0.0000	184.00	No Ice	3.41	3.41	22.00
			0.00			1/2" Ice	4.58	4.58	46.71
			5.00			1" Ice	5.77	5.77	78.82
OTG9-840	B	From Leg	6.00	0.0000	184.00	No Ice	3.41	3.41	22.00
			0.00			1/2" Ice	4.58	4.58	46.71
			5.00			1" Ice	5.77	5.77	78.82
Pirod 6-8' Box Arm (1)	B	From Leg	3.00	0.0000	184.00	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
ANT150D3	C	From Leg	6.00	0.0000	184.00	No Ice	1.60	1.60	18.00
			0.00			1/2" Ice	2.88	2.88	23.40
			5.00			1" Ice	4.16	4.16	28.80
Pirod 6-8' Box Arm (1)	B	From Leg	3.00	0.0000	184.00	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
ANT150F2	C	From Leg	3.00	0.0000	184.00	No Ice	1.29	1.29	7.00
			0.00			1/2" Ice	1.60	1.60	17.28
			5.00			1" Ice	1.91	1.91	31.06
3' Side Mount Standoff	C	From Leg	1.50	0.0000	183.00	No Ice	1.50	1.50	45.00
			0.00			1/2" Ice	2.20	2.20	70.00
			0.00			1" Ice	2.90	2.90	95.00
Pirod 6-8' Box Arm (1)	B	From Leg	3.00	0.0000	118.00	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
ANT150D3	C	From Leg	6.00	0.0000	184.00	No Ice	1.60	1.60	18.00
			0.00			1/2" Ice	2.88	2.88	23.40
			5.00			1" Ice	4.16	4.16	28.80
Pirod 6-8' Box Arm (1)	C	From Leg	3.00	0.0000	105.00	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
Ice Shield 4'x8'	C	From Leg	3.00	0.0000	101.00	No Ice	7.20	7.20	550.00
			0.00			1/2" Ice	7.79	7.20	787.55
			5.00			1" Ice	8.38	5.28	1035.98
Pirod 6-8' Box Arm (1)	A	From Leg	3.00	0.0000	98.00	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
PD458-470	B	From Leg	6.00	0.0000	98.00	No Ice	3.83	3.83	21.00
			0.00			1/2" Ice	5.75	5.75	32.00
			5.00			1" Ice	7.67	7.67	43.00
Pirod 6-8' Box Arm (1)	B	From Leg	3.00	0.0000	98.00	No Ice	4.50	4.50	214.00
			0.00			1/2" Ice	9.87	9.87	275.00
			0.00			1" Ice	15.24	15.24	336.00
PD220	A	From Leg	6.00	0.0000	78.00	No Ice	3.56	3.56	23.00
			0.00			1/2" Ice	7.13	7.13	46.00
			10.00			1" Ice	10.70	10.70	69.00

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
PD1142-30	A	From Leg	6.00	0.0000		78.00	No Ice 0.14	0.14	10.00
			0.00				1/2" Ice 1.49	1.49	110.00
			5.00				1" Ice 2.84	2.84	210.00
PiROD 6-8' Box Arm (1)	A	From Leg	3.00	0.0000		78.00	No Ice 4.50	4.50	214.00
			0.00				1/2" Ice 9.87	9.87	275.00
			0.00				1" Ice 15.24	15.24	336.00
BCD-80609	B	From Leg	6.00	0.0000		78.00	No Ice 2.95	2.95	27.00
			0.00				1/2" Ice 4.11	4.11	48.79
			5.00				1" Ice 5.29	5.29	77.92
6' Yagi	B	From Leg	6.00	0.0000		78.00	No Ice 1.20	0.30	35.00
			0.00				1/2" Ice 1.61	0.41	85.85
			0.00				1" Ice 2.04	0.54	142.85
PiROD 6-8' Box Arm (1)	B	From Leg	3.00	0.0000		78.00	No Ice 4.50	4.50	214.00
			0.00				1/2" Ice 9.87	9.87	275.00
			0.00				1" Ice 15.24	15.24	336.00
DB222	C	From Leg	6.00	0.0000		78.00	No Ice 1.59	1.59	16.00
			0.00				1/2" Ice 2.67	2.67	29.09
			7.00				1" Ice 3.76	3.76	48.95
PiROD 6-8' Box Arm (1)	C	From Leg	3.00	0.0000		78.00	No Ice 4.50	4.50	214.00
			0.00				1/2" Ice 9.87	9.87	275.00
			0.00				1" Ice 15.24	15.24	336.00
GPS	B	From Leg	2.00	0.0000		32.00	No Ice 0.21	0.21	5.00
			0.00				1/2" Ice 0.32	0.32	7.52
			0.00				1" Ice 0.44	0.44	11.31
2' Side Mount Standoff	B	From Leg	1.00	0.0000		32.00	No Ice 1.00	1.00	30.00
			0.00				1/2" Ice 1.50	1.50	50.00
			0.00				1" Ice 2.00	2.00	70.00
**									
PiROD 12' T-Frame (Sprint)	A	From Face	2.00	0.0000		154.00	No Ice 12.20	12.20	360.00
			0.00				1/2" Ice 17.60	17.60	490.00
			0.00				1" Ice 23.00	23.00	620.00
PiROD 12' T-Frame	B	From Face	2.00	0.0000		154.00	No Ice 12.20	12.20	360.00
			0.00				1/2" Ice 17.60	17.60	490.00
			0.00				1" Ice 23.00	23.00	620.00
PiROD 12' T-Frame	C	From Face	2.00	0.0000		154.00	No Ice 12.20	12.20	360.00
			0.00				1/2" Ice 17.60	17.60	490.00
			0.00				1" Ice 23.00	23.00	620.00
APXV9ERR18-C Antenna w/ Mounting Pipe	A	From Face	3.00	0.0000		154.00	No Ice 8.08	7.23	50.10
			6.00				1/2" Ice 8.53	8.19	118.24
			0.00				1" Ice 9.00	9.02	194.20
APXV9ERR18-C Antenna w/ Mounting Pipe	B	From Face	3.00	0.0000		154.00	No Ice 8.08	7.23	50.10
			6.00				1/2" Ice 8.53	8.19	118.24
			0.00				1" Ice 9.00	9.02	194.20
APXV9ERR18-C Antenna w/ Mounting Pipe	C	From Face	3.00	0.0000		154.00	No Ice 8.08	7.23	50.10
			6.00				1/2" Ice 8.53	8.19	118.24
			0.00				1" Ice 9.00	9.02	194.20
DT465B-2XR Antenna w/ Mounting Pipe	A	From Face	3.00	0.0000		154.00	No Ice 9.11	7.41	79.90
			-6.00				1/2" Ice 9.58	8.37	153.87
			0.00				1" Ice 10.05	9.20	235.80
DT465B-2XR Antenna w/ Mounting Pipe	B	From Face	3.00	0.0000		154.00	No Ice 9.11	7.41	79.90
			-6.00				1/2" Ice 9.58	8.37	153.87
			0.00				1" Ice 10.05	9.20	235.80
DT465B-2XR Antenna w/ Mounting Pipe	C	From Face	3.00	0.0000		154.00	No Ice 9.11	7.41	79.90
			-6.00				1/2" Ice 9.58	8.37	153.87
			0.00				1" Ice 10.05	9.20	235.80
800 RRH	A	From Face	2.50	0.0000		154.00	No Ice 1.71	1.84	64.00
			5.50				1/2" Ice 1.88	2.01	85.14

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	Client	Verizon	Designed by	ID

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	lb	
800 RRH	A	From Face	0.00		0.0000	154.00	1" Ice	2.05	2.19	109.25
			2.50				No Ice	1.71	1.84	64.00
			5.50				1/2" Ice	1.88	2.01	85.14
800 RRH	B	From Face	0.00		0.0000	154.00	1" Ice	2.05	2.19	109.25
			2.50				No Ice	1.71	1.84	64.00
			5.50				1/2" Ice	1.88	2.01	85.14
800 RRH	B	From Face	0.00		0.0000	154.00	1" Ice	2.05	2.19	109.25
			2.50				No Ice	1.71	1.84	64.00
			-5.50				1/2" Ice	1.88	2.01	85.14
800 RRH	C	From Face	0.00		0.0000	154.00	1" Ice	2.05	2.19	109.25
			2.50				No Ice	1.71	1.84	64.00
			-5.50				1/2" Ice	1.88	2.01	85.14
800 RRH	C	From Face	0.00		0.0000	154.00	1" Ice	2.05	2.19	109.25
			2.50				No Ice	1.71	1.84	64.00
			-5.50				1/2" Ice	1.88	2.01	85.14
1900 RRH	A	From Face	0.00		0.0000	154.00	1" Ice	2.05	2.19	109.25
			2.50				No Ice	2.31	2.38	60.00
			-6.50				1/2" Ice	2.52	2.58	83.90
1900 RRH	B	From Face	0.00		0.0000	154.00	1" Ice	2.73	2.79	111.08
			2.50				No Ice	2.31	2.38	60.00
			-6.50				1/2" Ice	2.52	2.58	83.90
1900 RRH	C	From Face	0.00		0.0000	154.00	1" Ice	2.73	2.79	111.08
			2.50				No Ice	2.31	2.38	60.00
			-6.50				1/2" Ice	2.52	2.58	83.90
RRH 8X20-25	A	From Face	0.00		0.0000	154.00	1" Ice	2.73	2.79	111.08
			2.50				No Ice	4.05	1.53	70.00
			6.50				1/2" Ice	4.30	1.71	97.14
RRH 8X20-25	B	From Face	0.00		0.0000	154.00	1" Ice	4.56	1.90	127.80
			2.50				No Ice	4.05	1.53	70.00
			6.50				1/2" Ice	4.30	1.71	97.14
RRH 8X20-25	C	From Face	0.00		0.0000	154.00	1" Ice	4.56	1.90	127.80
			2.50				No Ice	4.05	1.53	70.00
			6.50				1/2" Ice	4.30	1.71	97.14
**										
PiROD 12' T-Frame (AT&T)	A	From Face	2.00		0.0000	140.00	No Ice	12.20	12.20	360.00
			0.00				1/2" Ice	17.60	17.60	490.00
			0.00				1" Ice	23.00	23.00	620.00
PiROD 12' T-Frame	B	From Face	2.00		0.0000	140.00	No Ice	12.20	12.20	360.00
			0.00				1/2" Ice	17.60	17.60	490.00
			0.00				1" Ice	23.00	23.00	620.00
PiROD 12' T-Frame	C	From Face	2.00		0.0000	140.00	No Ice	12.20	12.20	360.00
			0.00				1/2" Ice	17.60	17.60	490.00
			0.00				1" Ice	23.00	23.00	620.00
7770 Antenna w/ Mounting Pipe	C	From Face	3.00		0.0000	140.00	No Ice	5.84	4.35	56.90
			6.00				1/2" Ice	6.32	5.20	105.42
			0.00				1" Ice	6.77	5.92	160.42
7770 Antenna w/ Mounting Pipe	C	From Face	3.00		0.0000	140.00	No Ice	5.84	4.35	56.90
			6.00				1/2" Ice	6.32	5.20	105.42
			0.00				1" Ice	6.77	5.92	160.42
7770 Antenna w/ Mounting Pipe	C	From Face	3.00		0.0000	140.00	No Ice	5.84	4.35	56.90
			6.00				1/2" Ice	6.32	5.20	105.42
			0.00				1" Ice	6.77	5.92	160.42
TPA65R-BU6DA Antenna w/ Mounting Pipe	A	From Face	3.00		0.0000	140.00	No Ice	12.73	7.04	90.90
			-6.00				1/2" Ice	13.23	7.99	180.74
			0.00				1" Ice	13.73	8.82	278.91
TPA65R-BU6DA Antenna w/	B	From Face	3.00		0.0000	140.00	No Ice	12.73	7.04	90.90

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	Client		Verizon				Designed by		ID

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
Mounting Pipe			-6.00			1/2" Ice	13.23	7.99	180.74
			0.00			1" Ice	13.73	8.82	278.91
TPA65R-BU6DA Antenna w/ Mounting Pipe	C	From Face	3.00	0.0000	140.00	No Ice	12.73	7.04	90.90
			-6.00			1/2" Ice	13.23	7.99	180.74
			0.00			1" Ice	13.73	8.82	278.91
TPA65R-BU6DA Antenna w/ Mounting Pipe	A	From Face	3.00	0.0000	140.00	No Ice	12.73	7.04	90.90
			1.00			1/2" Ice	13.23	7.99	180.74
			0.00			1" Ice	13.73	8.82	278.91
TPA65R-BU6DA Antenna w/ Mounting Pipe	B	From Face	3.00	0.0000	140.00	No Ice	12.73	7.04	90.90
			1.00			1/2" Ice	13.23	7.99	180.74
			0.00			1" Ice	13.73	8.82	278.91
TPA65R-BU6DA Antenna w/ Mounting Pipe	C	From Face	3.00	0.0000	140.00	No Ice	12.73	7.04	90.90
			1.00			1/2" Ice	13.23	7.99	180.74
			0.00			1" Ice	13.73	8.82	278.91
4449 B5/B12 RRH	A	From Face	2.50	0.0000	140.00	No Ice	1.97	1.40	7.20
			-5.50			1/2" Ice	2.15	1.56	25.68
			0.00			1" Ice	2.33	1.72	46.97
4449 B5/B12 RRH	B	From Face	2.50	0.0000	140.00	No Ice	1.97	1.40	7.20
			-5.50			1/2" Ice	2.15	1.56	25.68
			0.00			1" Ice	2.33	1.72	46.97
4449 B5/B12 RRH	C	From Face	2.50	0.0000	140.00	No Ice	1.97	1.40	7.20
			-5.50			1/2" Ice	2.15	1.56	25.68
			0.00			1" Ice	2.33	1.72	46.97
B14 4478 RRH	A	From Face	2.50	0.0000	140.00	No Ice	2.02	1.25	60.00
			-6.50			1/2" Ice	2.20	1.40	77.66
			0.00			1" Ice	2.39	1.56	98.08
B14 4478 RRH	B	From Face	2.50	0.0000	140.00	No Ice	2.02	1.25	60.00
			-6.50			1/2" Ice	2.20	1.40	77.66
			0.00			1" Ice	2.39	1.56	98.08
B14 4478 RRH	C	From Face	2.50	0.0000	140.00	No Ice	2.02	1.25	60.00
			-6.50			1/2" Ice	2.20	1.40	77.66
			0.00			1" Ice	2.39	1.56	98.08
RRUS-32 RRH	A	From Face	2.50	0.0000	140.00	No Ice	2.74	1.67	60.00
			1.00			1/2" Ice	2.96	1.86	81.11
			0.00			1" Ice	3.19	2.05	105.42
RRUS-32 RRH	B	From Face	2.50	0.0000	140.00	No Ice	2.74	1.67	60.00
			1.00			1/2" Ice	2.96	1.86	81.11
			0.00			1" Ice	3.19	2.05	105.42
RRUS-32 RRH	C	From Face	2.50	0.0000	140.00	No Ice	2.74	1.67	60.00
			1.00			1/2" Ice	2.96	1.86	81.11
			0.00			1" Ice	3.19	2.05	105.42
Diplexer	A	From Face	2.50	0.0000	140.00	No Ice	0.24	0.10	6.00
			6.00			1/2" Ice	0.31	0.14	8.47
			0.00			1" Ice	0.38	0.20	12.04
Diplexer	B	From Face	2.50	0.0000	140.00	No Ice	0.24	0.10	6.00
			6.00			1/2" Ice	0.31	0.14	8.47
			0.00			1" Ice	0.38	0.20	12.04
Diplexer	C	From Face	2.50	0.0000	140.00	No Ice	0.24	0.10	6.00
			6.00			1/2" Ice	0.31	0.14	8.47
			0.00			1" Ice	0.38	0.20	12.04
DC6 Surge Arrestor	A	From Face	2.50	0.0000	140.00	No Ice	3.05	1.10	44.00
			0.00			1/2" Ice	3.26	1.24	65.28
			0.00			1" Ice	3.49	1.40	89.65
Squid Surge Arrestor	B	From Face	2.50	0.0000	140.00	No Ice	0.81	0.81	33.00
			0.00			1/2" Ice	1.30	1.30	48.38
			0.00			1" Ice	1.48	1.48	66.11
Squid Surge Arrestor	C	From Face	2.50	0.0000	140.00	No Ice	0.81	0.81	33.00

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight	
			ft ft ft	°	ft	ft ²	ft ²	lb	
			0.00		1/2" Ice	1.30	1.30	48.38	
			0.00		1" Ice	1.48	1.48	66.11	
**									
Custom 4-Sided Sector Mount (North Canaan CT) (T-Mobile)	C	None		0.0000	125.00	No Ice	36.00	36.00	3000.00
						1/2" Ice	42.00	42.00	3300.00
						1" Ice	48.00	48.00	3600.00
AIR 32 B66A B2A Antenna w/ Mounting Pipe	A	From Face	3.00	0.0000	125.00	No Ice	6.81	6.14	154.90
			3.00			1/2" Ice	7.30	6.99	216.61
			0.00			1" Ice	7.76	7.73	285.26
AIR 32 B66A B2A Antenna w/ Mounting Pipe	B	From Face	3.00	0.0000	125.00	No Ice	6.81	6.14	154.90
			3.00			1/2" Ice	7.30	6.99	216.61
			0.00			1" Ice	7.76	7.73	285.26
AIR 32 B66A B2A Antenna w/ Mounting Pipe	C	From Face	3.00	0.0000	125.00	No Ice	6.81	6.14	154.90
			3.00			1/2" Ice	7.30	6.99	216.61
			0.00			1" Ice	7.76	7.73	285.26
AIR 32 B66A B2A Antenna w/ Mounting Pipe	A	From Leg	3.00	0.0000	125.00	No Ice	6.81	6.14	154.90
			3.00			1/2" Ice	7.30	6.99	216.61
			0.00			1" Ice	7.76	7.73	285.26
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	A	From Face	3.00	0.0000	125.00	No Ice	20.24	10.79	157.20
			3.00			1/2" Ice	20.89	12.21	290.89
			0.00			1" Ice	21.55	13.49	435.20
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	B	From Face	3.00	0.0000	125.00	No Ice	20.24	10.79	157.20
			1.00			1/2" Ice	20.89	12.21	290.89
			0.00			1" Ice	21.55	13.49	435.20
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	C	From Face	3.00	0.0000	125.00	No Ice	20.24	10.79	157.20
			1.00			1/2" Ice	20.89	12.21	290.89
			0.00			1" Ice	21.55	13.49	435.20
APXVAARR24_43-U-NA20 Antenna w/ Mounting Pipe	A	From Leg	3.00	0.0000	125.00	No Ice	20.24	10.79	157.20
			1.00			1/2" Ice	20.89	12.21	290.89
			0.00			1" Ice	21.55	13.49	435.20
APXV18-206517S-C Antenna w/ Mounting Pipe	A	From Face	3.00	0.0000	125.00	No Ice	7.03	7.42	54.90
			1.00			1/2" Ice	7.52	8.40	117.20
			0.00			1" Ice	8.02	9.26	187.43
APXV18-206517S-C Antenna w/ Mounting Pipe	B	From Face	3.00	0.0000	125.00	No Ice	7.03	7.42	54.90
			-1.00			1/2" Ice	7.52	8.40	117.20
			0.00			1" Ice	8.02	9.26	187.43
APXV18-206517S-C Antenna w/ Mounting Pipe	C	From Face	3.00	0.0000	125.00	No Ice	7.03	7.42	54.90
			-1.00			1/2" Ice	7.52	8.40	117.20
			0.00			1" Ice	8.02	9.26	187.43
APXV18-206517S-C Antenna w/ Mounting Pipe	A	From Leg	3.00	0.0000	125.00	No Ice	7.03	7.42	54.90
			-1.00			1/2" Ice	7.52	8.40	117.20
			0.00			1" Ice	8.02	9.26	187.43
RRUS-11 RRH	A	From Face	2.50	0.0000	125.00	No Ice	2.79	1.19	51.00
			1.50			1/2" Ice	3.00	1.34	71.87
			0.00			1" Ice	3.21	1.50	95.78
RRUS-11 RRH	B	From Face	2.50	0.0000	125.00	No Ice	2.79	1.19	51.00
			1.50			1/2" Ice	3.00	1.34	71.87
			0.00			1" Ice	3.21	1.50	95.78
RRUS-11 RRH	C	From Face	2.50	0.0000	125.00	No Ice	2.79	1.19	51.00
			1.50			1/2" Ice	3.00	1.34	71.87
			0.00			1" Ice	3.21	1.50	95.78
RRUS-11 RRH	A	From Leg	2.50	0.0000	125.00	No Ice	2.79	1.19	51.00
			1.50			1/2" Ice	3.00	1.34	71.87
			0.00			1" Ice	3.21	1.50	95.78
4426 RRH	A	From Face	2.50	0.0000	125.00	No Ice	2.14	1.69	104.00
			0.50			1/2" Ice	2.32	1.85	126.16
			0.00			1" Ice	2.51	2.02	151.36

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert</i>	<i>Azimuth Adjustment</i>	<i>Placement</i>	<i>CAAA Front</i>	<i>CAAA Side</i>	<i>Weight</i>	
			<i>ft</i> <i>ft</i> <i>ft</i>	<i>°</i>	<i>ft</i>	<i>ft²</i>	<i>ft²</i>	<i>lb</i>	
4426 RRH	B	From Face	2.50 0.50 0.00	0.0000	125.00	No Ice 1/2" Ice 1" Ice	2.14 2.32 2.02	1.69 1.85 2.02	104.00 126.16 151.36
4426 RRH	C	From Face	2.50 0.50 0.00	0.0000	125.00	No Ice 1/2" Ice 1" Ice	2.14 2.32 2.02	1.69 1.85 2.02	104.00 126.16 151.36
4426 RRH	A	From Leg	2.50 0.50 0.00	0.0000	125.00	No Ice 1/2" Ice 1" Ice	2.14 2.32 2.02	1.69 1.85 2.02	104.00 126.16 151.36

PiROD 12' T-Frame (Verizon)	A	From Face	2.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	12.20 17.60 23.00	12.20 17.60 23.00	360.00 490.00 620.00
PiROD 12' T-Frame	B	From Face	2.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	12.20 17.60 23.00	12.20 17.60 23.00	360.00 490.00 620.00
PiROD 12' T-Frame	C	From Face	2.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	12.20 17.60 23.00	12.20 17.60 23.00	360.00 490.00 620.00
10' Dipole	C	From Leg	3.00 0.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	6.67 7.82 8.65	6.67 7.82 8.65	25.00 60.81 105.11
NHH-65B-R2B Antenna w/ Mounting Pipe	A	From Face	3.00 -1.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	A	From Face	3.00 -3.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	B	From Face	3.00 -1.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	B	From Face	3.00 -3.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	C	From Face	3.00 -1.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
NHH-65B-R2B Antenna w/ Mounting Pipe	C	From Face	3.00 -3.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	8.08 8.53 9.00	6.77 7.72 8.55	65.90 131.84 205.55
LPA-80090/4CF Antenna w/ Mounting Pipe	B	From Face	3.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	3.11 3.58 4.02	5.47 6.28 6.96	32.90 75.30 123.60
LPA-80090/4CF Antenna w/ Mounting Pipe	B	From Face	3.00 6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	3.11 3.58 4.02	5.47 6.28 6.96	32.90 75.30 123.60
LPA-80090/4CF Antenna w/ Mounting Pipe	A	From Face	3.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	3.11 3.58 4.02	5.47 6.28 6.96	32.90 75.30 123.60
LPA-80090/4CF Antenna w/ Mounting Pipe	A	From Face	3.00 6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	3.11 3.58 4.02	5.47 6.28 6.96	32.90 75.30 123.60
LPA-80090/4CF Antenna w/ Mounting Pipe	C	From Face	3.00 -6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	3.11 3.58 4.02	5.47 6.28 6.96	32.90 75.30 123.60
LPA-80090/4CF Antenna w/ Mounting Pipe	C	From Face	3.00 6.00 0.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice	3.11 3.58 4.02	5.47 6.28 6.96	32.90 75.30 123.60

tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	NORTH CANAAN CT	Page	11 of 12
	Project	195 ft SST	Date	11:50:38 07/02/21
	Client	Verizon	Designed by	ID

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight			
			Horz	Lateral						Vert		
			ft	ft	°	ft	ft ²	ft ²	lb			
B2/B66A RRH-BR049 RRH	A	From Face	0.00		0.0000	168.00	1" Ice	4.02	6.96	123.60		
			3.00				No Ice	1.88	1.25	98.00		
			-2.00				1/2" Ice	2.05	1.39	116.34		
B2/B66A RRH-BR049 RRH	B	From Face	0.00		0.0000	168.00	1" Ice	2.22	1.54	137.47		
			3.00				No Ice	1.88	1.25	98.00		
			-2.00				1/2" Ice	2.05	1.39	116.34		
B2/B66A RRH-BR049 RRH	C	From Face	0.00		0.0000	168.00	1" Ice	2.22	1.54	137.47		
			3.00				No Ice	1.88	1.25	98.00		
			-2.00				1/2" Ice	2.05	1.39	116.34		
B5/13 RRH-BR04C RRH	A	From Face	0.00		0.0000	168.00	1" Ice	2.22	1.54	137.47		
			3.00				No Ice	1.88	1.01	82.00		
			-5.00				1/2" Ice	2.05	1.14	98.43		
B5/13 RRH-BR04C RRH	B	From Face	0.00		0.0000	168.00	1" Ice	2.22	1.28	117.53		
			3.00				No Ice	1.88	1.01	82.00		
			-5.00				1/2" Ice	2.05	1.14	98.43		
B5/13 RRH-BR04CRRH	C	From Face	0.00		0.0000	168.00	1" Ice	2.22	1.28	117.53		
			3.00				No Ice	1.88	1.01	82.00		
			-5.00				1/2" Ice	2.05	1.14	98.43		
Junction Box	C	From Face	0.00		0.0000	168.00	1" Ice	2.22	1.28	117.53		
			0.00				No Ice	3.78	2.51	32.00		
			0.00				1/2" Ice	4.03	2.72	63.40		
**			0.00				1" Ice	4.29	2.94	98.56		
MT6407-77AA nenna w/ Mounting Pipe	A	From Face	3.00		0.0000	168.00	No Ice	5.43	3.27	109.00		
			1.00				1/2" Ice	5.97	3.99	154.17		
			0.00				1" Ice	6.46	4.59	204.90		
MT6407-77AA nenna w/ Mounting Pipe	B	From Face	3.00		0.0000	168.00	No Ice	5.43	3.27	109.00		
			1.00				1/2" Ice	5.97	3.99	154.17		
			0.00				1" Ice	6.46	4.59	204.90		
MT6407-77A Antenna w/ Mounting Pipe	C	From Face	3.00		0.0000	168.00	No Ice	5.43	3.27	109.00		
			1.00				1/2" Ice	5.97	3.99	154.17		
			0.00				1" Ice	6.46	4.59	204.90		

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz	Lateral							Vert
			ft	ft	°	°	ft	ft	ft ²	lb		
SC2-W100AB	C	Paraboloid w/Radome	From Leg	3.00		0.0000		125.00	2.00	No Ice	3.14	22.00
				0.00						1/2" Ice	3.41	39.50
				0.00						1" Ice	3.68	57.01
PAR6-59	C	Paraboloid w/o Radome	From Leg	3.00		0.0000		97.00	6.00	No Ice	28.27	143.00
				0.00						1/2" Ice	29.05	292.13
				0.00						1" Ice	29.83	441.25
PAR6-59	A	Paraboloid w/o Radome	From Leg	3.00		0.0000		188.00	6.00	No Ice	28.27	143.00
				0.00						1/2" Ice	29.05	292.13
				0.00						1" Ice	29.83	441.25

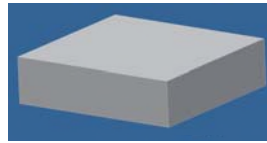
tnxTower Hudson Design Group 45 Beechwood Drive North Andover, MA Phone: 978.557.5553 FAX: 978.336.5586	Job	NORTH CANAAN CT	Page	12 of 12
	Project	195 ft SST	Date	11:50:38 07/02/21
	Client	Verizon	Designed by	ID

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T1	195 - 190	Leg	Pirod 105244	3	-673.44	142493.00	9.6	Pass
		Diagonal	2L2 1/2x2 1/2x3/16	9	-553.09	30691.50	1.8	Pass
		Top Girt	2L2 1/2x2 1/2x3/16	4	-151.05	36194.40	0.7	Pass
T2	190 - 180	Leg	Pirod 105244	15	-5847.34	142493.00	27.5	Pass
		Diagonal	L2 1/2x2 1/2x3/16	19	-1693.58	6764.59	25.0	Pass
T3	180 - 160	Leg	Pirod 105216	22	-16756.90	142493.00	47.3	Pass
		Diagonal	L3x3x3/16	28	-5627.87	11850.70	47.5	Pass
T4	160 - 150	Leg	Pirod 105217	38	-29654.20	214859.00	28.8	Pass
		Diagonal	L3x3x5/16	46	-8519.31	18900.60	45.1	Pass
		Top Girt	L3 1/2x3 1/2x1/4	40	-462.91	10553.50	4.4	Pass
T5	150 - 140	Leg	Pirod 105217	51	-56709.10	214859.00	26.4	Pass
		Diagonal	L3x3x5/16	58	-11551.50	18900.60	61.1	Pass
		Top Girt	L3 1/2x3 1/2x3/8	52	-1740.38	15176.00	11.5	Pass
T6	140 - 120	Leg	Pirod 105218	61	56897.10	324713.00	53.1	Pass
		Diagonal	L3x3x5/16	68	-12234.70	14801.00	82.7	Pass
		Top Girt	L3 1/2x3 1/2x3/8	64	-877.35	15176.00	5.8	Pass
T7	120 - 110	Leg	Pirod 105218	81	-142822.00	300681.00	47.5	Pass
		Diagonal	L3 1/2x3 1/2x5/16	85	-14889.90	21583.50	69.0	Pass
T8	110 - 100	Leg	Pirod 105218	90	-173278.00	300681.00	57.6	Pass
		Diagonal	L3 1/2x3 1/2x5/16	97	-14950.70	19590.60	76.3	Pass
		Top Girt	L3x3x5/16	91	-3199.78	4942.79	64.7	Pass
T9	100 - 80	Leg	Pirod 105219	102	-236937.00	399868.00	59.3	Pass
		Diagonal	L4x4x7/16	104	-16693.30	33380.60	50.0	Pass
T10	80 - 60	Leg	Pirod 105219	117	-299469.00	399868.00	74.9	Pass
		Diagonal	L4x4x7/16	119	-17895.10	28068.50	63.8	Pass
T11	60 - 40	Leg	Pirod 105220	132	-361507.00	512375.00	70.6	Pass
		Diagonal	L5x5x7/16	134	-18638.20	47534.40	39.2	Pass
T12	40 - 20	Leg	Pirod 105220	147	-424732.00	512375.00	82.9	Pass
		Diagonal	L5x5x7/16	158	-21064.10	43964.30	47.9	Pass
T13	20 - 0	Leg	Pirod 112738	162	-455138.00	613145.00	74.2	Pass
		Diagonal	2L3 1/2x3 1/2x3/8	167	-31296.10	36260.20	86.3	Pass
Summary								
Leg (T12)							82.9	Pass
Diagonal (T13)							86.3	Pass
Top Girt (T8)							64.7	Pass
RATING =							86.3	Pass

Unit Base Foundation

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



Site Name: NORTH CANAAN CT

TIA-222 Revision: **G**

Design Reactions		
Shear, S:	98.45	kips
Moment, M:	10466.80	ft-kips
Compression/leg, Ca:	493.71	kips
Uplift/leg, Ua:	427.13	kips
Tower Weight, Wt:	86.71	kips
Tower Height, H:	195	ft
Base Face Width, w':	26	ft

Block Properties		
Depth, D:	4.0	ft
Pad Width, W:	31.5	ft
Ext. Above Grade, E:	0.5	ft
Neglected Depth, N:		ft
Pad Rebar Size, Sp:		
Pad Rebar Quantity, mp:		29

Base Plate Dimensions		
Base Plate Width, di:		in

Material Properties		
Rebar Tensile, Fy:	60000	psi
Concrete Strength, F'c:	5000	psi
Concrete Density, δc:	150	pcf
Clear Cover, cc:	3	in

Soil Properties		
Soil Unit Weight, γ:	120	pcf
Ultimate Bearing, Bc:	20.000	ksf
Cohesion, Co:	1.000	ksf
Friction Angle, φ:	35	degrees
Base Sliding, μ:	0.5	

Design Checks			
	Capacity/Availability	Demand/Limits	Check
Base Sliding (kips):	261.83	98.45	37.6%
Overturning (k-ft):	9810.95	(See Next Page)	
Bearing (ksf):	15.00	4.23	28.2%
1-way Shear (kips):	1984.60	62.61	3.2%
2-way Shear (kips):	1731.89	493.71	28.5%

Tower centroid is offset from foundation centroid

TIA-222 Revision: **G**

Design Reactions		
Shear, S:	98.45	kips
Moment, M:	10466.80	ft-kips
Resisting Moment, Mr:	9810.95	ft-kips
Compression/leg, Ca:	493.71	kips
Uplift/leg, Ua:	427.13	kips
Tower Weight, Wt:	86.71	kips
Tower Height, H:	195	ft
Base Face Width, w':	26	ft
Center of Fnd. to Tower Leg, D:	15	ft

Rock Anchor Properties		
Rock Anchor Quantity:	4	per leg
Rock Anchor Ultimate Strength:	150	ksi
Rock Anchor Diameter:	1.375	in
Rock Anchor Lock Off Load:	133	kips

Calculations		
Remaining Moment, Mu:	655.85	ft-kips
Remaining Uplift, Mu/D + Ua:	470.85	kips
Remaining Uplift/bolt, Ub:	117.71	kips

Design Checks			
	Capacity/ Availability	Demand/ Limits	Check
<i>Rock Anchor Lock Off Load (kips)</i>	133.00	117.71	89%
<i>Overturning (k-ft):</i>	-	-	OK <input type="checkbox"/>

(Williams R71-11 Rock Anchor, per Centek Structural Analysis Report 2/17/2018)



HUDSON
Design Group LLC

REFERENCE DOCUMENTS

Structural Analysis Report

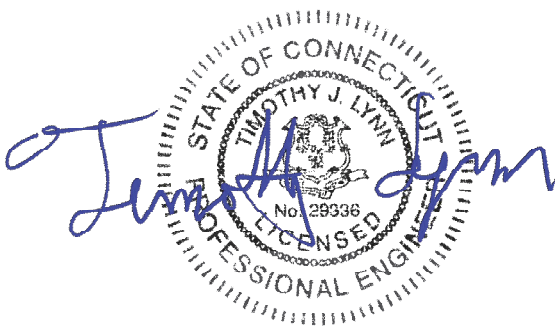
195-ft Existing Pirod Lattice Tower

Site Ref: CTNH550A

*38 Lower Road
North Canaan, CT*

CEN TEK Project No. 18025.00

Date: February 27, 2018



Prepared for:
T-Mobile USA
35 Griffin Road
Bloomfield, CT 06002

Foundation Analysis:

Input Data:

Max Pier Reactions:

	Inner Tower	
Overtuming =	Overtuming _{In} 3665 ft kips	<i>user input</i>
BaseShear =	Shear _{In} 45 kips	<i>user input</i>
Base Compression =	Axial _{In} 41 kips	<i>user input</i>

Max Pier Reactions:

	Outter Tower	
Overtuming =	Overtuming _{Out} 7625 ft kips	<i>user input</i>
Shear =	Shear _{Out} 72 kips	<i>user input</i>
Compression =	Axial _{Out} 77 kips	<i>user input</i>
Leg Compression =	Uplift _{leg} 307 kips	<i>user input</i>
Leg Uplift =	Comp _{leg} 364 kips	<i>user input</i>

Concrete Mat

Footing Width =	B _{ftg} 31.5ft	<i>user input</i>
Footing Length =	L _{ftg} 31.5ft	<i>user input</i>
Footing Thickness =	T _{ftg} 4.00ft	<i>user input</i>
Internal FrictionAngle =	35deg	<i>user input</i>
Unit Weight of Earth =	γ_{earth} 120pcf	<i>user input</i>
Unit Weight of Rock =	γ_{rock} 165pcf	<i>user input</i>
Unit Weight of Conc =	γ_{conc} 150pcf	<i>user input</i>
Ultimate Bearing =	q _u 20000 psf	<i>user input</i>

RockAnchor Properties:

Number of Anc hors =	N _{anchor} 4	<i>user input</i>	Per Leg
RockAnchor Ultimate Strength =	F _{u anchor} 150.0ksi	<i>user input</i>	Williams R71-11 1-3/8' dia. 150ksi
RockAnchor Diameter =	d _{ra} 1.375in	<i>user input</i>	
Required Factor of Safety =	F _S 1.0	<i>user input</i>	
RockAnchor Lock off Load =	Anchor _{LL} 133 kips		



Maser Consulting Connecticut
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Mt. Laurel, NJ 08054
856.797.0412
peter.albano@colliersengineering.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10076118
Maser Consulting Connecticut Project #: 21777317A

June 24, 2021

Site Information

Site ID: 468204-VZW / NORTH CANAAN CT
Site Name: NORTH CANAAN CT
Carrier Name: Verizon Wireless
Address: 38 Lower Rd
Canaan, Connecticut 06018
Litchfield County
Latitude: 42.014658°
Longitude: -73.326289°

Structure Information

Tower Type: Self-Support
Mount Type: 13.67-Ft T-Frame

FUZE ID # 16272010

Analysis Results

T-Frame: 90.8% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

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

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Jared Adkins



Digitally signed by Justin Linette
Date: 2021.06.25 09:34:41-04'00

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 324531, dated February 8, 2021</i>
<i>Mount Mapping Report</i>	<i>Roaming Networks Inc., Site ID: VZW: 468204, dated March 31, 2021</i>
<i>Email Correspondence</i>	<i>Dated June 3, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 113 mph Ice Wind Speed (3-sec. Gust): 40 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.966
Seismic Parameters:	S_s : 0.165 S_1 : 0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
167.40	168.00	3	Samsung	MT6407-77A	Added
		2	Amphenol Antel	LPA-80090-4CF-EDIN-4	Retained
		4	Antel	LPA-80090/4CF	
		4	Commscope	NHH-65B-R2B	
		2	Commscope	NHH-85B-R2B	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RHSDC-6627-PF-48*	

* Equipment is flush mounted directly to the Self Support Tower. It is not mounted on T-Frame mounts and is not included in this mount analysis.

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	90.8%	Pass
Standoff Arm	44.5%	Pass
Standoff Vertical	7.7%	Pass
Mast Pipe	30.9%	Pass
End Bar	60.8%	Pass
Mount Pipe	35.9%	Pass
Tieback	67.2%	Pass
Connection Check	19.6%	Pass
Structure Rating – (Controlling Utilization of all Components)		90.8%

Recommendation:

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

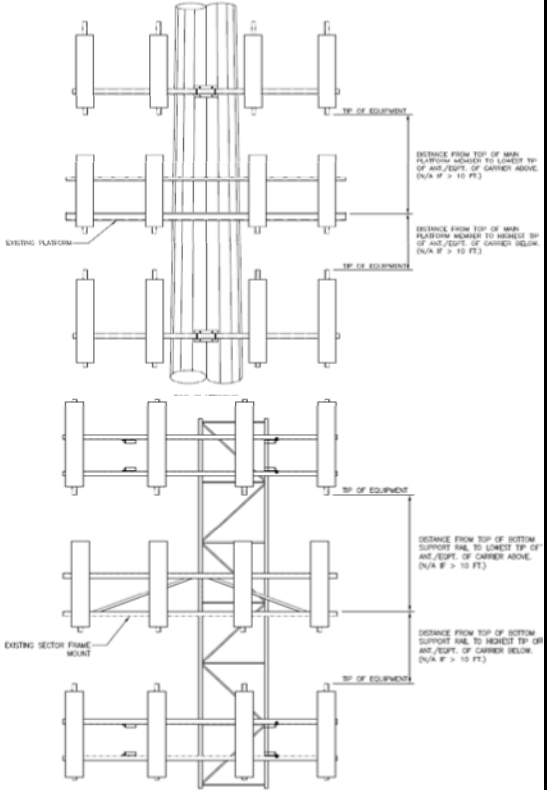
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

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



Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector		Sector B										
Sector A:	90,00	Deg	Leg A:	31,00	Deg	Ant _{1a}	LPA-80080-4CF-EDIN-	13,20	5,50	47,20		170,237	35,00	14,00	186,00	183
Sector B:	210,00	Deg	Leg B:		Deg	Ant _{1b}										
Sector C:	330,00	Deg	Leg C:		Deg	Ant _{1c}										
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	RFV01U-D2N Samsun	15,88	10,03	19,73						184
Climbing Facility Information						Ant _{2b}										
Location:		Deg	Sector A			Ant _{2c}	2x NHH-65B-R2B	11,85	7,09	71,97		170,237	39,00	10,00	208,00	184
Climbing Facility	Corrosion Type:		Good condition.			Ant _{3a}										
	Access:		Climbing path was unobstructed.			Ant _{3b}										
	Condition:		Good condition.			Ant _{3c}										
						Ant _{4a}										
						Ant _{4b}										
						Ant _{4c}										
						Ant _{4d}										
						Ant _{5a}	LPA-80080-4CF-EDIN-	13,20	5,50	47,20		170,237	35,00	14,00	186,00	184
						Ant _{5b}										
						Ant _{5c}						#REF!				
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
Sector C																
						Ant _{1a}	LPA-80080-4CF-EDIN-	13,20	5,50	47,20		170,237	35,00	14,00	338,00	193
						Ant _{1b}										
						Ant _{1c}										
						Ant _{2a}	RFV01U-D2N Samsun	15,88	10,03	19,73		173,153				193
						Ant _{2b}										
						Ant _{2c}										
						Ant _{3a}	2x NHH-65B-R2B	11,85	7,09	71,97		170,237	39,00	10,00	348,00	194
						Ant _{3b}										
						Ant _{3c}										
						Ant _{4a}										
						Ant _{4b}										
						Ant _{4c}										
						Ant _{4d}										
						Ant _{5a}	LPA-80080-4CF-EDIN-	13,20	5,50	47,20		170,237	35,00	14,00	338,00	194
						Ant _{5b}										
						Ant _{5c}										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
Sector D																
						Ant _{1a}										
						Ant _{1b}										
						Ant _{1c}										
						Ant _{2a}										
						Ant _{2b}										
						Ant _{2c}										
						Ant _{3a}										
						Ant _{3b}										
						Ant _{3c}										
						Ant _{4a}										
						Ant _{4b}										
						Ant _{4c}										
						Ant _{5a}										
						Ant _{5b}										
						Ant _{5c}										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										



Observed Safety and Structural Issues During the Mount Mapping

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

Mapping Notes

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

Standard Conditions

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



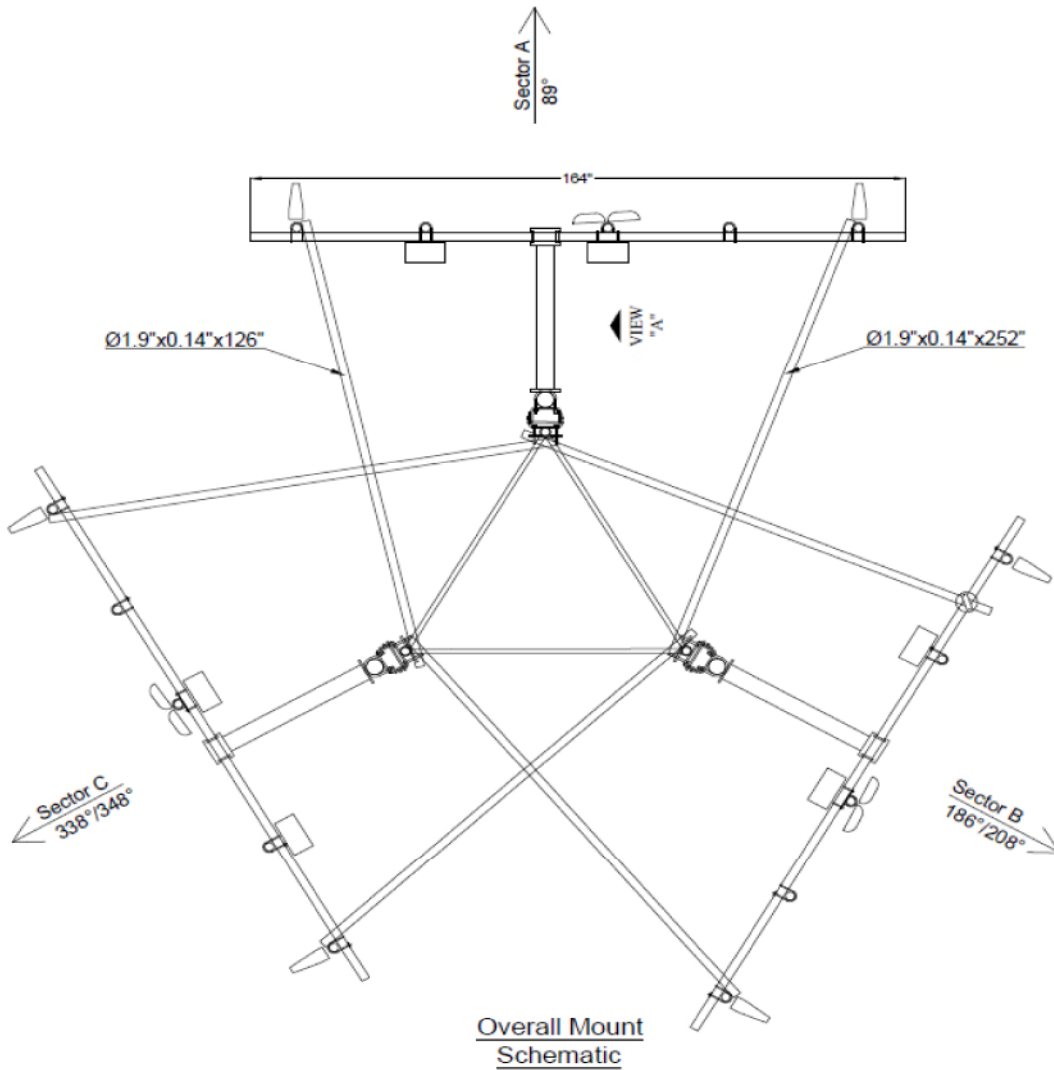
Antenna Mount Mapping Form (PATENT PENDING)

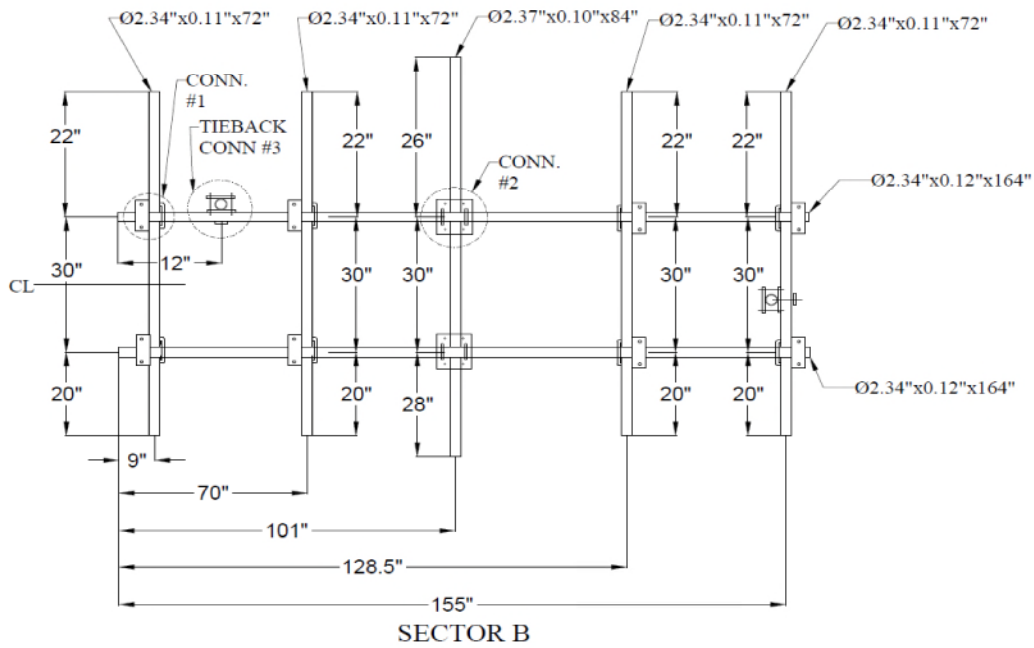
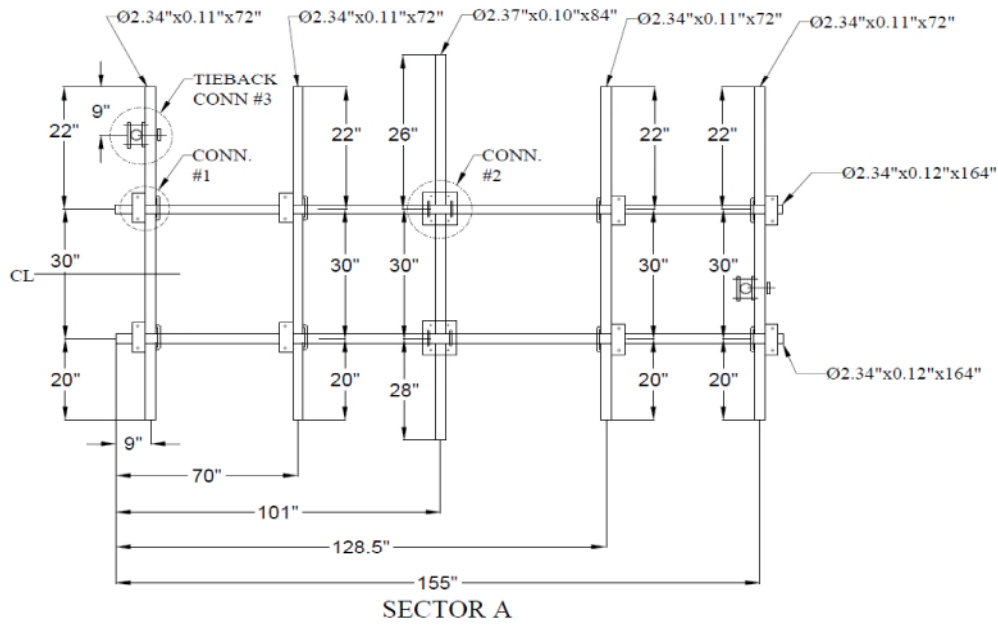
FCC #
N/A

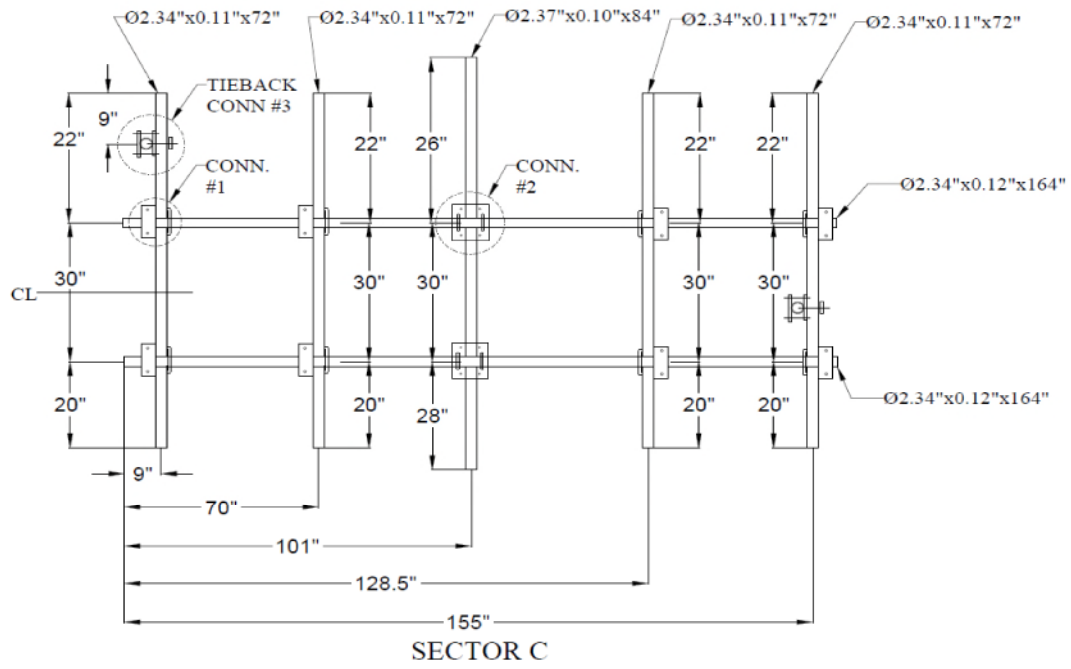
Tower Owner:	Litchfield Couty Dispatch	Mapping Date:	31-03-21
Site Name:	VZW:NORTH CANAAN CT	Tower Type:	Self Support
Site Number or ID:	VZW:468204	Tower Height (FT):	N/A
Mapping Contractor:	Roaming Networks Inc.	Mount Elevation (Ft.):	171.32

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.

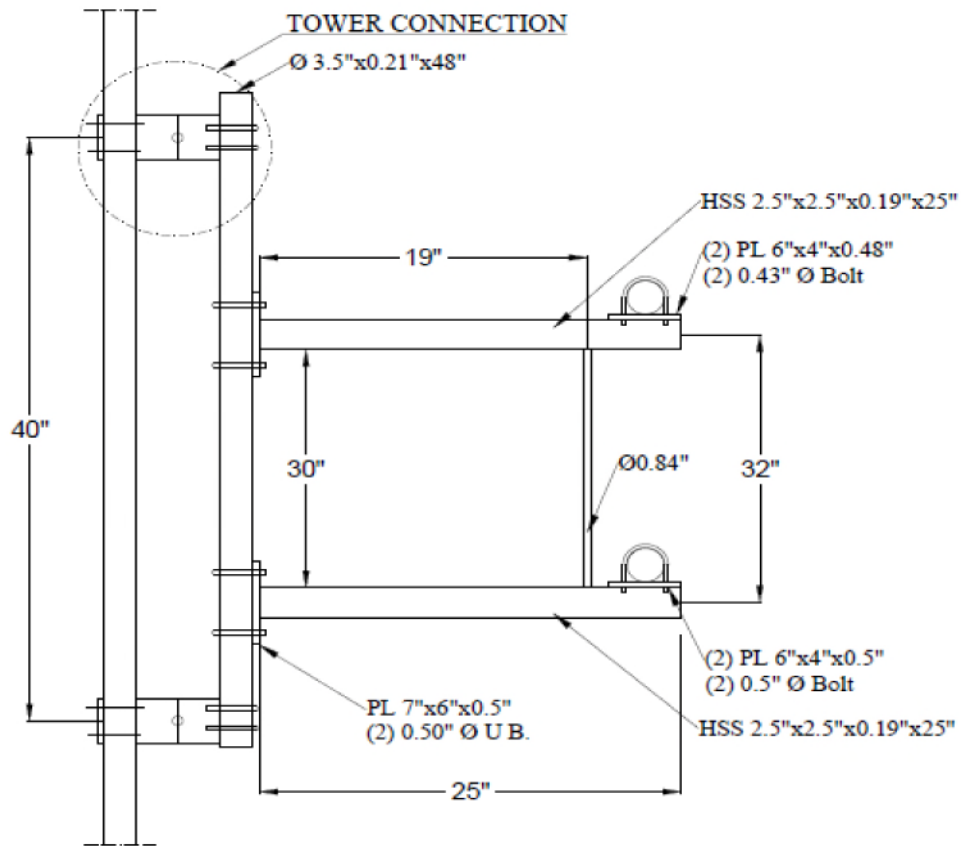
Please Insert Sketches of the Antenna Mount



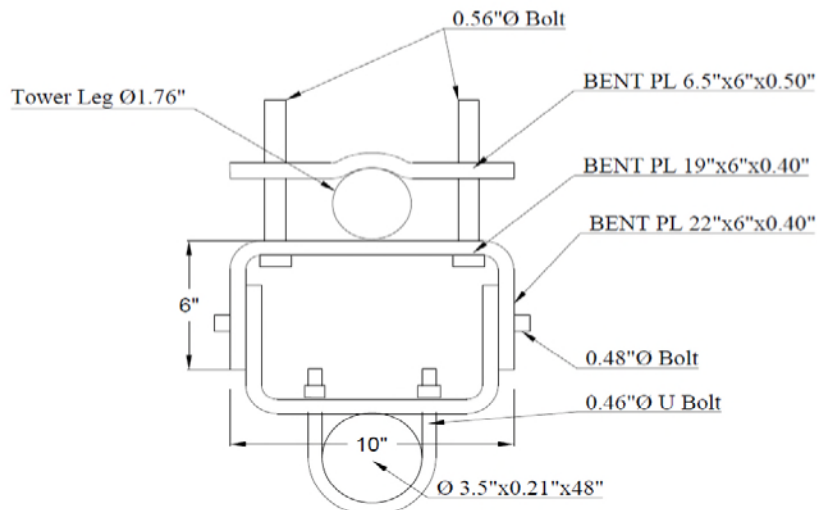




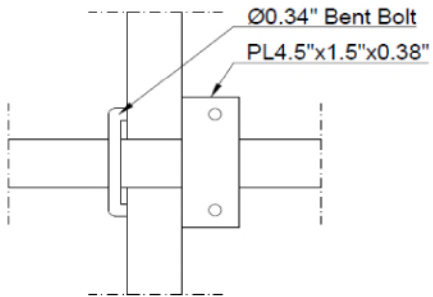
VIEW "A"



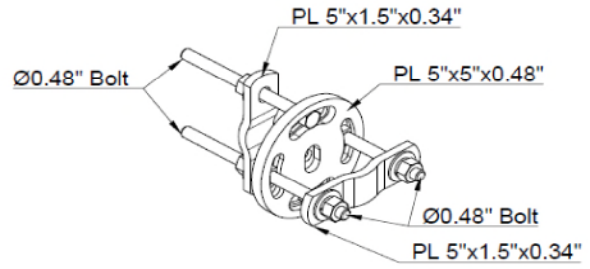
TOWER CONNECTION



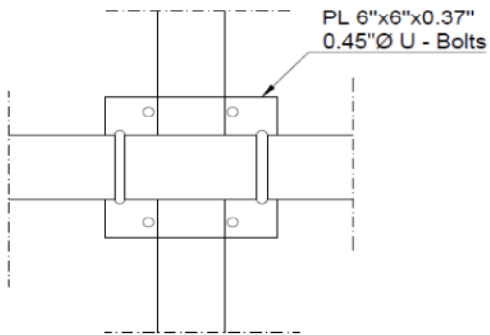
CONN. #1

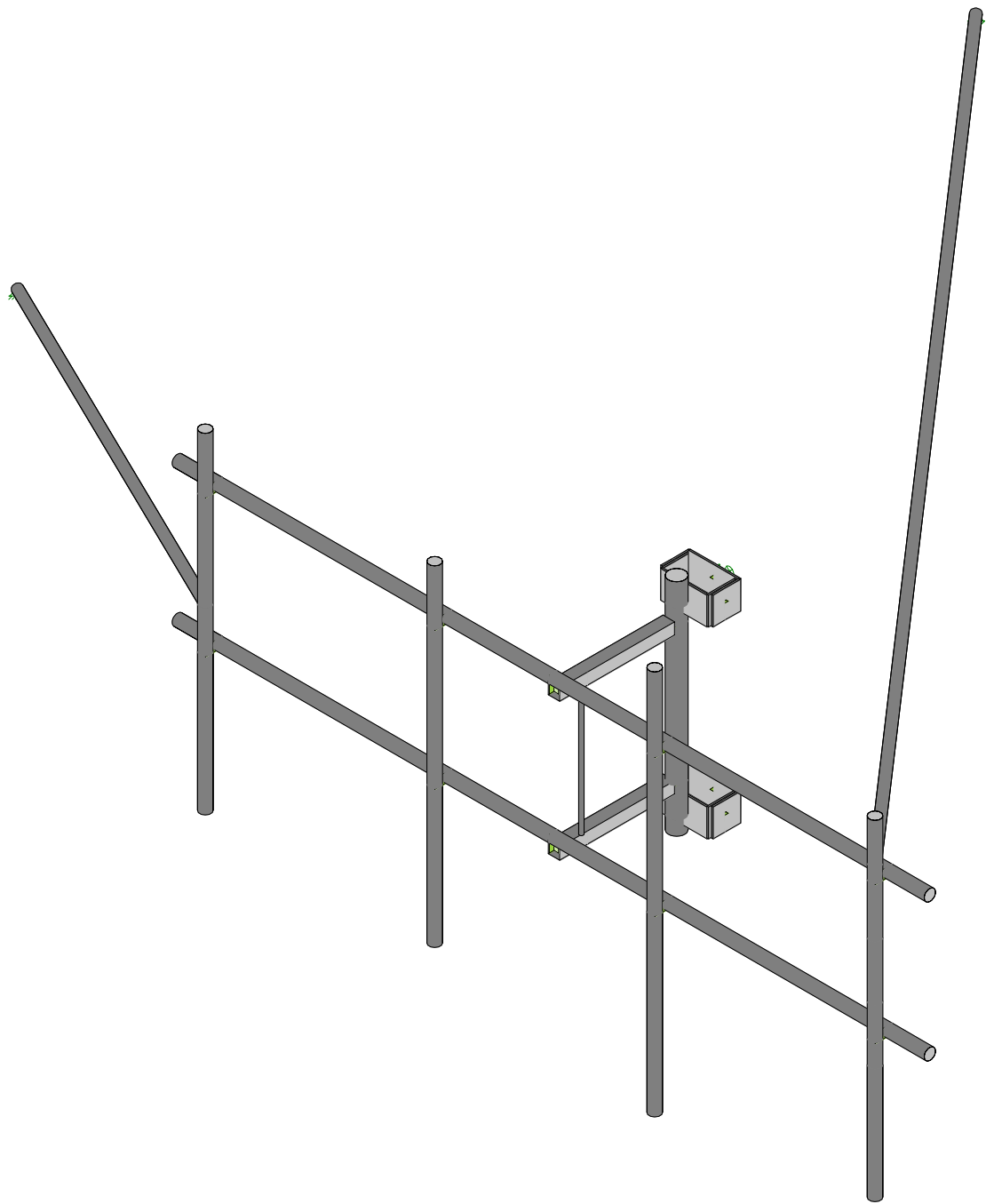


CONN. #3



CONN. #2

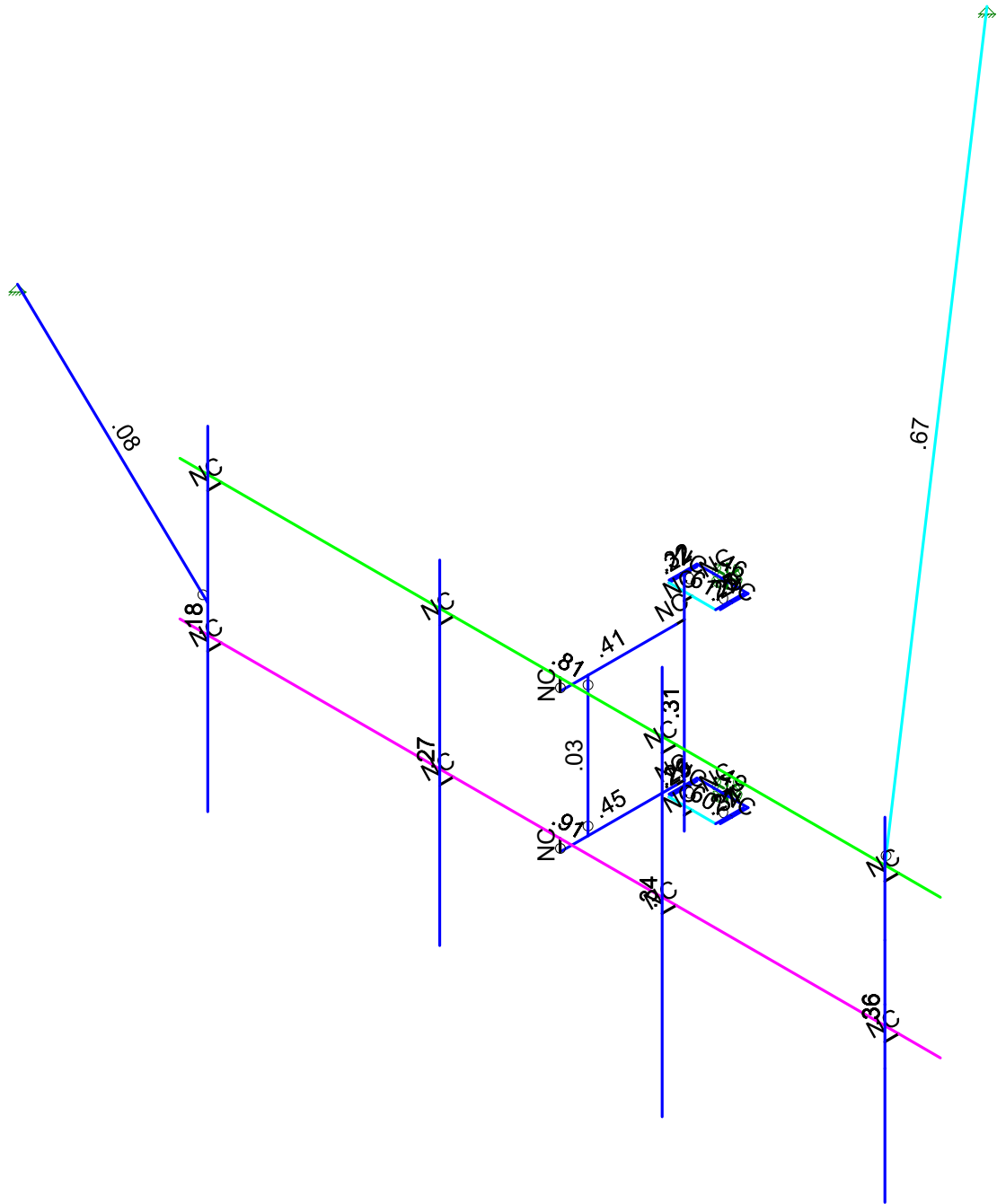
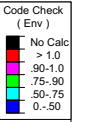




Maser Consulting

468204-VZW_MT_LOT_SectorA_H

SK - 1
June 24, 2021 at 10:29 PM
468204-VZW_MT_LOT_A_H.r3d

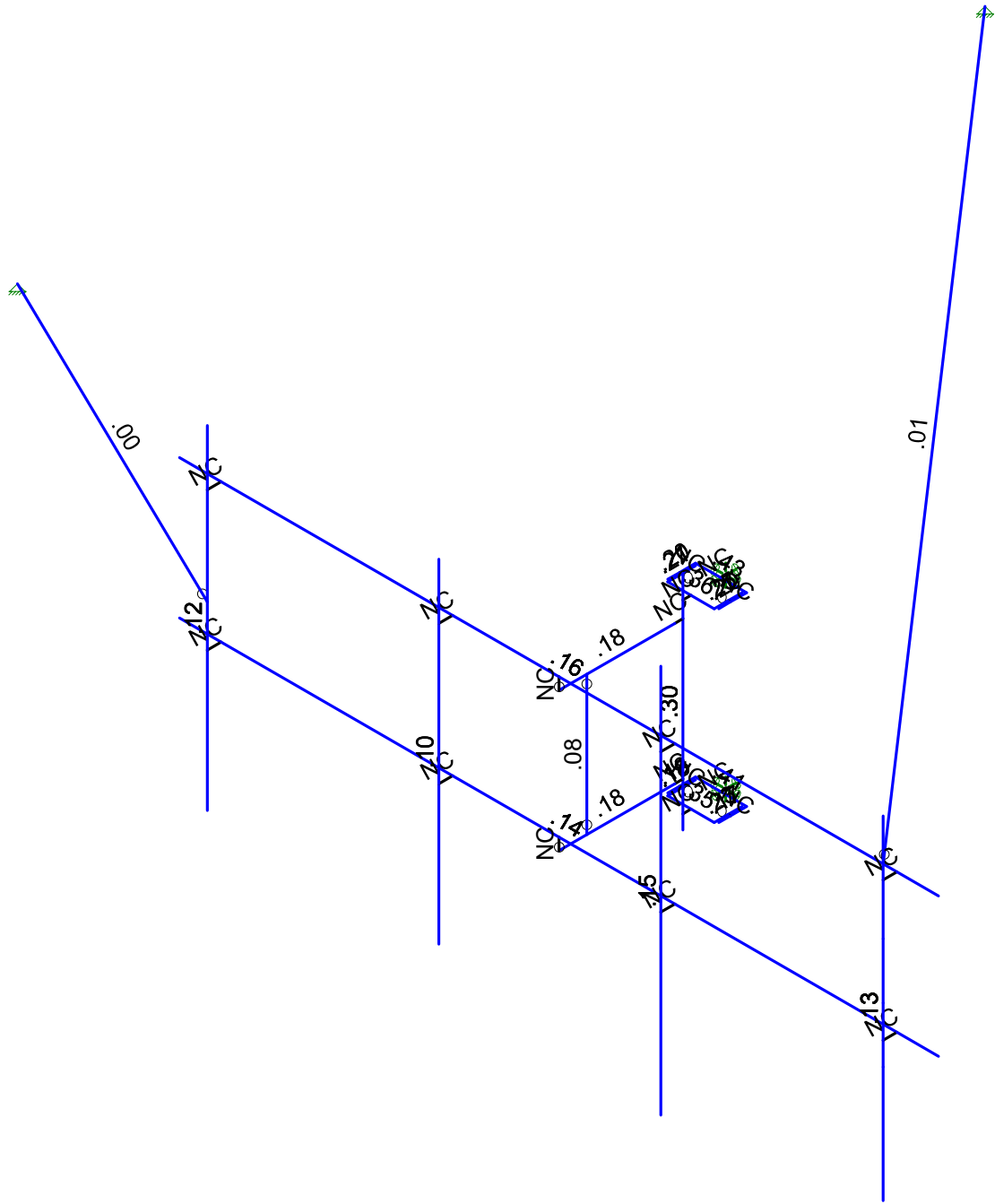
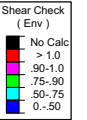


Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting

468204-VZW_MT_LOT_SectorA_H

SK - 2
June 24, 2021 at 10:30 PM
468204-VZW_MT_LOT_A_H.r3d



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

Maser Consulting	468204-VZW_MT_LOT_SectorA_H	SK - 3
		June 24, 2021 at 10:30 PM
		468204-VZW_MT_LOT_A_H.r3d



Basic Load Cases

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



Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
52	Structure Wo (330 D...	None						48	
53	Structure Wi (0 Deg)	None						48	
54	Structure Wi (30 Deg)	None						48	
55	Structure Wi (60 Deg)	None						48	
56	Structure Wi (90 Deg)	None						48	
57	Structure Wi (120 De...	None						48	
58	Structure Wi (150 De...	None						48	
59	Structure Wi (180 De...	None						48	
60	Structure Wi (210 De...	None						48	
61	Structure Wi (240 De...	None						48	
62	Structure Wi (270 De...	None						48	
63	Structure Wi (300 De...	None						48	
64	Structure Wi (330 De...	None						48	
65	Structure Wm (0 Deg)	None						48	
66	Structure Wm (30 D...	None						48	
67	Structure Wm (60 D...	None						48	
68	Structure Wm (90 D...	None						48	
69	Structure Wm (120 ...	None						48	
70	Structure Wm (150 ...	None						48	
71	Structure Wm (180 ...	None						48	
72	Structure Wm (210 ...	None						48	
73	Structure Wm (240 ...	None						48	
74	Structure Wm (270 ...	None						48	
75	Structure Wm (300 ...	None						48	
76	Structure Wm (330 ...	None						48	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		

Load Combinations

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



Load Combinations (Continued)

	Description	So...P...	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
19	1.2D + 1.0Di + 1.0Wi (1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1					
20	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1					
21	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1					
22	1.2D + 1.0Di + 1.0Wi (2...	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1					
23	1.2D + 1.0Di + 1.0Wi (3...	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1					
24	1.2D + 1.0Di + 1.0Wi (3...	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1					
25	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1							
26	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1							
27	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1							
28	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1							
29	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1							
30	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1							
31	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1							
32	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1							
33	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1							
34	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1							
35	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1							
36	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1							
37	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1							
38	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1							
39	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1							
40	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1							
41	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1							
42	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1							
43	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1							
44	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1							
45	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1							
46	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1							
47	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1							
48	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1							
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5											
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5											
51	1.4D	Yes	Y	1	1.4	39	1.4													

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-0.583333	0	0	0	
2	N2	13.083333	0	0	0	
3	N3	-0.583333	2.5	0	0	
4	N4	13.083333	2.5	0	0	
5	N21	6.25	0	0	0	
6	N22	6.25	2.5	0	0	
7	N31	6.25	-0.208333	0	0	
8	N32	6.25	2.291667	0	0	
9	N33	6.25	-0.208333	-2.083333	0	
10	N34	6.25	2.291667	-2.083333	0	
11	N35	6.25	-0.208333	-.5	0	
12	N36	6.25	2.291667	-.5	0	
13	N37	6.25	2.291667	-2.229167	0	
14	N39	6.25	-0.208333	-2.229167	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N39A	6.25	3	-2.229167	0	
16	N40	6.25	-1	-2.229167	0	
17	N41	6.25	2.583333	-2.229167	0	
18	N42	6.25	-.75	-2.229167	0	
19	N43	6.25	2.583333	-2.375	0	
20	N44	6.25	-.75	-2.375	0	
21	N45	6.666667	2.583333	-2.375	0	
22	N46	6.666667	-.75	-2.375	0	
23	N47	5.833333	2.583333	-2.375	0	
24	N48	5.833333	-.75	-2.375	0	
25	N49	6.666667	2.583333	-2.875	0	
26	N50	6.666667	-.75	-2.875	0	
27	N51	5.833333	2.583333	-2.875	0	
28	N52	5.833333	-.75	-2.875	0	
29	N53	6.666667	2.583333	-2.625	0	
30	N54	6.666667	-.75	-2.625	0	
31	N55	5.833333	2.583333	-2.625	0	
32	N56	5.833333	-.75	-2.625	0	
33	N57	5.791667	2.583333	-2.625	0	
34	N58	5.791667	-.75	-2.625	0	
35	N59	6.708333	2.583333	-2.625	0	
36	N60	6.708333	-.75	-2.625	0	
37	N61	5.791667	2.583333	-2.416667	0	
38	N62	5.791667	-.75	-2.416667	0	
39	N63	6.708333	2.583333	-2.416667	0	
40	N64	6.708333	-.75	-2.416667	0	
41	N65	5.791667	2.583333	-2.916667	0	
42	N66	5.791667	-.75	-2.916667	0	
43	N67	6.708333	2.583333	-2.916667	0	
44	N68	6.708333	-.75	-2.916667	0	
45	N69	6.25	2.583333	-2.916667	0	
46	N70	6.25	-.75	-2.916667	0	
47	N71	6.25	2.583333	-3	0	
48	N72	6.25	-.75	-3	0	
49	N51A	12.333333	0	0	0	
50	N52A	12.333333	2.5	0	0	
51	N55A	8.333333	0	0	0	
52	N56A	8.333333	2.5	0	0	
53	N57A	4.333333	0	0	0	
54	N58A	4.333333	2.5	0	0	
55	N59A	0.166667	0	0	0	
56	N60A	0.166667	2.5	0	0	
57	N61A	12.333333	0	.25	0	
58	N62A	12.333333	2.5	.25	0	
59	N65A	8.333333	0	.25	0	
60	N66A	8.333333	2.5	.25	0	
61	N67A	4.333333	0	.25	0	
62	N68A	4.333333	2.5	.25	0	
63	N69A	0.166667	0	.25	0	
64	N70A	0.166667	2.5	.25	0	
65	N71A	12.333333	3.5	.25	0	
66	N73A	4.333333	3.5	.25	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
67	N74A	0.166667	3.5	.25	0	
68	N75	12.333333	-2.5	.25	0	
69	N77	4.333333	-2.5	.25	0	
70	N78	0.166667	-2.5	.25	0	
71	N79	8.333333	3.833333	.25	0	
72	N80	8.333333	-3.166667	.25	0	
73	N81	12.333333	2.75	.25	0	
74	N80A	0.166667	.75	.25	0	
75	N83	12.333333	0.583333	.25	0	
76	N84	12.333333	1.583333	.25	0	
77	N85	12.333333	-0.416667	.25	0	
78	N87	-.125	2.743333	-14.041824	0	
79	N86	-6.5	0.753333	-3.	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
3	Standoff Arm	HSS2.5X2...	Beam	SquareTube	A500 Gr. ...	Typical	1.54	1.35	1.35	2.25
4	Standoff Vertical	SR 0.75	Column	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
5	Mast Pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
6	End Bar	PL3/8x6	Beam	BAR	A36 Gr.36	Typical	2.25	.026	6.75	.101
7	Tieback	PIPE 1.5	Beam	Pipe	A53 Gr. B	Typical	.749	.293	.293	.586

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
2	M2	N3	N4			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
3	M15	N22	N32			RIGID	None	None	RIGID	Typical
4	M16	N21	N31			RIGID	None	None	RIGID	Typical
5	RCP	N32	N34			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
6	M18	N31	N33			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
7	M19	N36	N35			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
8	M20	N34	N37			RIGID	None	None	RIGID	Typical
9	M21	N33	N39			RIGID	None	None	RIGID	Typical
10	M22	N39A	N40			Mast Pipe	Column	Pipe	A53 Gr. B	Typical
11	M23	N41	N43			RIGID	None	None	RIGID	Typical
12	M24	N42	N44			RIGID	None	None	RIGID	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
13	M25	N47	N45			End Bar	Beam	BAR	A36 Gr.36	Typical
14	M26	N48	N46			End Bar	Beam	BAR	A36 Gr.36	Typical
15	M27	N47	N51			End Bar	Beam	BAR	A36 Gr.36	Typical
16	M28	N45	N49			End Bar	Beam	BAR	A36 Gr.36	Typical
17	M29	N48	N52			End Bar	Beam	BAR	A36 Gr.36	Typical
18	M30	N46	N50			End Bar	Beam	BAR	A36 Gr.36	Typical
19	M31	N55	N57			RIGID	None	None	RIGID	Typical
20	M32	N53	N59			RIGID	None	None	RIGID	Typical
21	M33	N56	N58			RIGID	None	None	RIGID	Typical
22	M34	N54	N60			RIGID	None	None	RIGID	Typical
23	M35	N62	N66			End Bar	Beam	BAR	A36 Gr.36	Typical
24	M36	N64	N68			End Bar	Beam	BAR	A36 Gr.36	Typical
25	M37	N61	N65			End Bar	Beam	BAR	A36 Gr.36	Typical
26	M38	N63	N67			End Bar	Beam	BAR	A36 Gr.36	Typical
27	M39	N67	N65			End Bar	Beam	BAR	A36 Gr.36	Typical
28	M40	N68	N66			End Bar	Beam	BAR	A36 Gr.36	Typical
29	M41	N69	N71			RIGID	None	None	RIGID	Typical
30	M42	N70	N72			RIGID	None	None	RIGID	Typical
31	M32A	N70A	N60A			RIGID	None	None	RIGID	Typical
32	M33A	N69A	N59A			RIGID	None	None	RIGID	Typical
33	M34A	N68A	N58A			RIGID	None	None	RIGID	Typical
34	M35A	N67A	N57A			RIGID	None	None	RIGID	Typical
35	M36A	N66A	N56A			RIGID	None	None	RIGID	Typical
36	M37A	N65A	N55A			RIGID	None	None	RIGID	Typical
37	M40A	N62A	N52A			RIGID	None	None	RIGID	Typical
38	M41A	N61A	N51A			RIGID	None	None	RIGID	Typical
39	MP4A	N74A	N78			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
40	MP3A	N73A	N77			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
41	MP1A	N71A	N75			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
42	MP2A	N79	N80			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
43	M46	N80A	N86			Tieback	Beam	Pipe	A53 Gr. B	Typical
44	M47	N81	N87			Tieback	Beam	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M2						Yes	Default			None
3	M15	OOOOXO					Yes	** NA **			None
4	M16	OOOOXO					Yes	** NA **			None
5	RCP						Yes				None
6	M18						Yes				None
7	M19	BenPIN	BenPIN				Yes	** NA **			None
8	M20						Yes	** NA **			None
9	M21						Yes	** NA **			None
10	M22						Yes	** NA **			None
11	M23						Yes	** NA **			None
12	M24						Yes	** NA **			None
13	M25						Yes				None
14	M26						Yes				None
15	M27						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...
16	M28						Yes	Default			None
17	M29						Yes				None
18	M30						Yes				None
19	M31		OOOXOO				Yes	** NA **			None
20	M32		OOOXOO				Yes	** NA **			None
21	M33		OOOXOO				Yes	** NA **			None
22	M34		OOOXOO				Yes	** NA **			None
23	M35						Yes				None
24	M36						Yes				None
25	M37						Yes				None
26	M38						Yes				None
27	M39						Yes				None
28	M40						Yes				None
29	M41						Yes	** NA **			None
30	M42						Yes	** NA **			None
31	M32A						Yes	** NA **			None
32	M33A						Yes	** NA **			None
33	M34A						Yes	** NA **			None
34	M35A						Yes	** NA **			None
35	M36A						Yes	** NA **			None
36	M37A						Yes	** NA **			None
37	M40A						Yes	** NA **			None
38	M41A						Yes	** NA **			None
39	MP4A						Yes	** NA **			None
40	MP3A						Yes	** NA **			None
41	MP1A						Yes	** NA **			None
42	MP2A						Yes	** NA **			None
43	M46	BenPIN					Yes	Default			None
44	M47	BenPIN					Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-43.55	1
2	MP3A	My	-.033	1
3	MP3A	Mz	0	1
4	MP3A	Y	-43.55	3
5	MP3A	My	-.033	3
6	MP3A	Mz	0	3
7	MP1A	Y	-5.5	1
8	MP1A	My	-.004	1
9	MP1A	Mz	.001	1
10	MP1A	Y	-5.5	3
11	MP1A	My	-.004	3
12	MP1A	Mz	.001	3
13	MP4A	Y	-5.5	1
14	MP4A	My	-.004	1
15	MP4A	Mz	.001	1
16	MP4A	Y	-5.5	3
17	MP4A	My	-.004	3
18	MP4A	Mz	.001	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP2A	Y	-21.85	1
20	MP2A	My	-.016	1
21	MP2A	Mz	.015	1
22	MP2A	Y	-21.85	5
23	MP2A	My	-.016	5
24	MP2A	Mz	.015	5
25	MP2A	Y	-21.85	1
26	MP2A	My	-.016	1
27	MP2A	Mz	-.015	1
28	MP2A	Y	-21.85	5
29	MP2A	My	-.016	5
30	MP2A	Mz	-.015	5
31	MP2A	Y	-84.4	.5
32	MP2A	My	.04	.5
33	MP2A	Mz	.014	.5
34	MP3A	Y	-70.3	2.5
35	MP3A	My	.033	2.5
36	MP3A	Mz	.012	2.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-36.382	1
2	MP3A	My	-.027	1
3	MP3A	Mz	0	1
4	MP3A	Y	-36.382	3
5	MP3A	My	-.027	3
6	MP3A	Mz	0	3
7	MP1A	Y	-33.266	1
8	MP1A	My	-.023	1
9	MP1A	Mz	.009	1
10	MP1A	Y	-33.266	3
11	MP1A	My	-.023	3
12	MP1A	Mz	.009	3
13	MP4A	Y	-33.266	1
14	MP4A	My	-.023	1
15	MP4A	Mz	.009	1
16	MP4A	Y	-33.266	3
17	MP4A	My	-.023	3
18	MP4A	Mz	.009	3
19	MP2A	Y	-61.891	1
20	MP2A	My	-.046	1
21	MP2A	Mz	.041	1
22	MP2A	Y	-61.891	5
23	MP2A	My	-.046	5
24	MP2A	Mz	.041	5
25	MP2A	Y	-61.891	1
26	MP2A	My	-.046	1
27	MP2A	Mz	-.041	1
28	MP2A	Y	-61.891	5
29	MP2A	My	-.046	5
30	MP2A	Mz	-.041	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2A	Y	-45.883	.5
32	MP2A	My	.022	.5
33	MP2A	Mz	.008	.5
34	MP3A	Y	-41.27	2.5
35	MP3A	My	.019	2.5
36	MP3A	Mz	.007	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1
2	MP3A	Z	-89.463	1
3	MP3A	Mx	0	1
4	MP3A	X	0	3
5	MP3A	Z	-89.463	3
6	MP3A	Mx	0	3
7	MP1A	X	0	1
8	MP1A	Z	-52.871	1
9	MP1A	Mx	-.014	1
10	MP1A	X	0	3
11	MP1A	Z	-52.871	3
12	MP1A	Mx	-.014	3
13	MP4A	X	0	1
14	MP4A	Z	-52.871	1
15	MP4A	Mx	-.014	1
16	MP4A	X	0	3
17	MP4A	Z	-52.871	3
18	MP4A	Mx	-.014	3
19	MP2A	X	0	1
20	MP2A	Z	-153.801	1
21	MP2A	Mx	-.103	1
22	MP2A	X	0	5
23	MP2A	Z	-153.801	5
24	MP2A	Mx	-.103	5
25	MP2A	X	0	1
26	MP2A	Z	-153.801	1
27	MP2A	Mx	.103	1
28	MP2A	X	0	5
29	MP2A	Z	-153.801	5
30	MP2A	Mx	.103	5
31	MP2A	X	0	.5
32	MP2A	Z	-68.429	.5
33	MP2A	Mx	-.012	.5
34	MP3A	X	0	2.5
35	MP3A	Z	-67.371	2.5
36	MP3A	Mx	-.012	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	37.927	1
2	MP3A	Z	-65.691	1
3	MP3A	Mx	-.028	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP3A	X	37.927	3
5	MP3A	Z	-65.691	3
6	MP3A	Mx	-.028	3
7	MP1A	X	32.841	1
8	MP1A	Z	-56.883	1
9	MP1A	Mx	-.038	1
10	MP1A	X	32.841	3
11	MP1A	Z	-56.883	3
12	MP1A	Mx	-.038	3
13	MP4A	X	32.841	1
14	MP4A	Z	-56.883	1
15	MP4A	Mx	-.038	1
16	MP4A	X	32.841	3
17	MP4A	Z	-56.883	3
18	MP4A	Mx	-.038	3
19	MP2A	X	70.385	1
20	MP2A	Z	-121.91	1
21	MP2A	Mx	-.134	1
22	MP2A	X	70.385	5
23	MP2A	Z	-121.91	5
24	MP2A	Mx	-.134	5
25	MP2A	X	70.385	1
26	MP2A	Z	-121.91	1
27	MP2A	Mx	.028	1
28	MP2A	X	70.385	5
29	MP2A	Z	-121.91	5
30	MP2A	Mx	.028	5
31	MP2A	X	35.239	.5
32	MP2A	Z	-61.036	.5
33	MP2A	Mx	.006	.5
34	MP3A	X	35.103	2.5
35	MP3A	Z	-60.8	2.5
36	MP3A	Mx	.006	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	42.119	1
2	MP3A	Z	-24.317	1
3	MP3A	Mx	-.032	1
4	MP3A	X	42.119	3
5	MP3A	Z	-24.317	3
6	MP3A	Mx	-.032	3
7	MP1A	X	65.928	1
8	MP1A	Z	-38.064	1
9	MP1A	Mx	-.056	1
10	MP1A	X	65.928	3
11	MP1A	Z	-38.064	3
12	MP1A	Mx	-.056	3
13	MP4A	X	65.928	1
14	MP4A	Z	-38.064	1
15	MP4A	Mx	-.056	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4A	X	65.928	3
17	MP4A	Z	-38.064	3
18	MP4A	Mx	-.056	3
19	MP2A	X	99.34	1
20	MP2A	Z	-57.354	1
21	MP2A	Mx	-.113	1
22	MP2A	X	99.34	5
23	MP2A	Z	-57.354	5
24	MP2A	Mx	-.113	5
25	MP2A	X	99.34	1
26	MP2A	Z	-57.354	1
27	MP2A	Mx	-.036	1
28	MP2A	X	99.34	5
29	MP2A	Z	-57.354	5
30	MP2A	Mx	-.036	5
31	MP2A	X	53.207	.5
32	MP2A	Z	-30.719	.5
33	MP2A	Mx	.02	.5
34	MP3A	X	49.971	2.5
35	MP3A	Z	-28.851	2.5
36	MP3A	Mx	.019	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	35.025	1
2	MP3A	Z	0	1
3	MP3A	Mx	-.026	1
4	MP3A	X	35.025	3
5	MP3A	Z	0	3
6	MP3A	Mx	-.026	3
7	MP1A	X	73.76	1
8	MP1A	Z	0	1
9	MP1A	Mx	-.052	1
10	MP1A	X	73.76	3
11	MP1A	Z	0	3
12	MP1A	Mx	-.052	3
13	MP4A	X	73.76	1
14	MP4A	Z	0	1
15	MP4A	Mx	-.052	1
16	MP4A	X	73.76	3
17	MP4A	Z	0	3
18	MP4A	Mx	-.052	3
19	MP2A	X	101.677	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.076	1
22	MP2A	X	101.677	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.076	5
25	MP2A	X	101.677	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.076	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP2A	X	101.677	5
29	MP2A	Z	0	5
30	MP2A	Mx	-.076	5
31	MP2A	X	50.348	.5
32	MP2A	Z	0	.5
33	MP2A	Mx	.024	.5
34	MP3A	X	42.364	2.5
35	MP3A	Z	0	2.5
36	MP3A	Mx	.02	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	42.119	1
2	MP3A	Z	24.317	1
3	MP3A	Mx	-.032	1
4	MP3A	X	42.119	3
5	MP3A	Z	24.317	3
6	MP3A	Mx	-.032	3
7	MP1A	X	52.782	1
8	MP1A	Z	30.474	1
9	MP1A	Mx	-.029	1
10	MP1A	X	52.782	3
11	MP1A	Z	30.474	3
12	MP1A	Mx	-.029	3
13	MP4A	X	52.782	1
14	MP4A	Z	30.474	1
15	MP4A	Mx	-.029	1
16	MP4A	X	52.782	3
17	MP4A	Z	30.474	3
18	MP4A	Mx	-.029	3
19	MP2A	X	99.34	1
20	MP2A	Z	57.354	1
21	MP2A	Mx	-.036	1
22	MP2A	X	99.34	5
23	MP2A	Z	57.354	5
24	MP2A	Mx	-.036	5
25	MP2A	X	99.34	1
26	MP2A	Z	57.354	1
27	MP2A	Mx	-.113	1
28	MP2A	X	99.34	5
29	MP2A	Z	57.354	5
30	MP2A	Mx	-.113	5
31	MP2A	X	41.828	.5
32	MP2A	Z	24.149	.5
33	MP2A	Mx	.024	.5
34	MP3A	X	34.234	2.5
35	MP3A	Z	19.765	2.5
36	MP3A	Mx	.019	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	37.927	1
2	MP3A	Z	65.691	1
3	MP3A	Mx	-.028	1
4	MP3A	X	37.927	3
5	MP3A	Z	65.691	3
6	MP3A	Mx	-.028	3
7	MP1A	X	25.252	1
8	MP1A	Z	43.737	1
9	MP1A	Mx	-.007	1
10	MP1A	X	25.252	3
11	MP1A	Z	43.737	3
12	MP1A	Mx	-.007	3
13	MP4A	X	25.252	1
14	MP4A	Z	43.737	1
15	MP4A	Mx	-.007	1
16	MP4A	X	25.252	3
17	MP4A	Z	43.737	3
18	MP4A	Mx	-.007	3
19	MP2A	X	70.385	1
20	MP2A	Z	121.91	1
21	MP2A	Mx	.028	1
22	MP2A	X	70.385	5
23	MP2A	Z	121.91	5
24	MP2A	Mx	.028	5
25	MP2A	X	70.385	1
26	MP2A	Z	121.91	1
27	MP2A	Mx	-.134	1
28	MP2A	X	70.385	5
29	MP2A	Z	121.91	5
30	MP2A	Mx	-.134	5
31	MP2A	X	28.67	.5
32	MP2A	Z	49.657	.5
33	MP2A	Mx	.022	.5
34	MP3A	X	26.017	2.5
35	MP3A	Z	45.062	2.5
36	MP3A	Mx	.02	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1
2	MP3A	Z	89.463	1
3	MP3A	Mx	0	1
4	MP3A	X	0	3
5	MP3A	Z	89.463	3
6	MP3A	Mx	0	3
7	MP1A	X	0	1
8	MP1A	Z	52.871	1
9	MP1A	Mx	.014	1
10	MP1A	X	0	3
11	MP1A	Z	52.871	3
12	MP1A	Mx	.014	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	0	1
14	MP4A	Z	52.871	1
15	MP4A	Mx	.014	1
16	MP4A	X	0	3
17	MP4A	Z	52.871	3
18	MP4A	Mx	.014	3
19	MP2A	X	0	1
20	MP2A	Z	153.801	1
21	MP2A	Mx	.103	1
22	MP2A	X	0	5
23	MP2A	Z	153.801	5
24	MP2A	Mx	.103	5
25	MP2A	X	0	1
26	MP2A	Z	153.801	1
27	MP2A	Mx	-.103	1
28	MP2A	X	0	5
29	MP2A	Z	153.801	5
30	MP2A	Mx	-.103	5
31	MP2A	X	0	.5
32	MP2A	Z	68.429	.5
33	MP2A	Mx	.012	.5
34	MP3A	X	0	2.5
35	MP3A	Z	67.371	2.5
36	MP3A	Mx	.012	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-37.927	1
2	MP3A	Z	65.691	1
3	MP3A	Mx	.028	1
4	MP3A	X	-37.927	3
5	MP3A	Z	65.691	3
6	MP3A	Mx	.028	3
7	MP1A	X	-32.841	1
8	MP1A	Z	56.883	1
9	MP1A	Mx	.038	1
10	MP1A	X	-32.841	3
11	MP1A	Z	56.883	3
12	MP1A	Mx	.038	3
13	MP4A	X	-32.841	1
14	MP4A	Z	56.883	1
15	MP4A	Mx	.038	1
16	MP4A	X	-32.841	3
17	MP4A	Z	56.883	3
18	MP4A	Mx	.038	3
19	MP2A	X	-70.385	1
20	MP2A	Z	121.91	1
21	MP2A	Mx	.134	1
22	MP2A	X	-70.385	5
23	MP2A	Z	121.91	5
24	MP2A	Mx	.134	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-70.385	1
26	MP2A	Z	121.91	1
27	MP2A	Mx	-.028	1
28	MP2A	X	-70.385	5
29	MP2A	Z	121.91	5
30	MP2A	Mx	-.028	5
31	MP2A	X	-35.239	.5
32	MP2A	Z	61.036	.5
33	MP2A	Mx	-.006	.5
34	MP3A	X	-35.103	2.5
35	MP3A	Z	60.8	2.5
36	MP3A	Mx	-.006	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-42.119	1
2	MP3A	Z	24.317	1
3	MP3A	Mx	.032	1
4	MP3A	X	-42.119	3
5	MP3A	Z	24.317	3
6	MP3A	Mx	.032	3
7	MP1A	X	-65.928	1
8	MP1A	Z	38.064	1
9	MP1A	Mx	.056	1
10	MP1A	X	-65.928	3
11	MP1A	Z	38.064	3
12	MP1A	Mx	.056	3
13	MP4A	X	-65.928	1
14	MP4A	Z	38.064	1
15	MP4A	Mx	.056	1
16	MP4A	X	-65.928	3
17	MP4A	Z	38.064	3
18	MP4A	Mx	.056	3
19	MP2A	X	-99.34	1
20	MP2A	Z	57.354	1
21	MP2A	Mx	.113	1
22	MP2A	X	-99.34	5
23	MP2A	Z	57.354	5
24	MP2A	Mx	.113	5
25	MP2A	X	-99.34	1
26	MP2A	Z	57.354	1
27	MP2A	Mx	.036	1
28	MP2A	X	-99.34	5
29	MP2A	Z	57.354	5
30	MP2A	Mx	.036	5
31	MP2A	X	-53.207	.5
32	MP2A	Z	30.719	.5
33	MP2A	Mx	-.02	.5
34	MP3A	X	-49.971	2.5
35	MP3A	Z	28.851	2.5
36	MP3A	Mx	-.019	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-35.025	1
2	MP3A	Z	0	1
3	MP3A	Mx	.026	1
4	MP3A	X	-35.025	3
5	MP3A	Z	0	3
6	MP3A	Mx	.026	3
7	MP1A	X	-73.76	1
8	MP1A	Z	0	1
9	MP1A	Mx	.052	1
10	MP1A	X	-73.76	3
11	MP1A	Z	0	3
12	MP1A	Mx	.052	3
13	MP4A	X	-73.76	1
14	MP4A	Z	0	1
15	MP4A	Mx	.052	1
16	MP4A	X	-73.76	3
17	MP4A	Z	0	3
18	MP4A	Mx	.052	3
19	MP2A	X	-101.677	1
20	MP2A	Z	0	1
21	MP2A	Mx	.076	1
22	MP2A	X	-101.677	5
23	MP2A	Z	0	5
24	MP2A	Mx	.076	5
25	MP2A	X	-101.677	1
26	MP2A	Z	0	1
27	MP2A	Mx	.076	1
28	MP2A	X	-101.677	5
29	MP2A	Z	0	5
30	MP2A	Mx	.076	5
31	MP2A	X	-50.348	.5
32	MP2A	Z	0	.5
33	MP2A	Mx	-.024	.5
34	MP3A	X	-42.364	2.5
35	MP3A	Z	0	2.5
36	MP3A	Mx	-.02	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-42.119	1
2	MP3A	Z	-24.317	1
3	MP3A	Mx	.032	1
4	MP3A	X	-42.119	3
5	MP3A	Z	-24.317	3
6	MP3A	Mx	.032	3
7	MP1A	X	-52.782	1
8	MP1A	Z	-30.474	1
9	MP1A	Mx	.029	1
10	MP1A	X	-52.782	3
11	MP1A	Z	-30.474	3
12	MP1A	Mx	.029	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-52.782	1
14	MP4A	Z	-30.474	1
15	MP4A	Mx	.029	1
16	MP4A	X	-52.782	3
17	MP4A	Z	-30.474	3
18	MP4A	Mx	.029	3
19	MP2A	X	-99.34	1
20	MP2A	Z	-57.354	1
21	MP2A	Mx	.036	1
22	MP2A	X	-99.34	5
23	MP2A	Z	-57.354	5
24	MP2A	Mx	.036	5
25	MP2A	X	-99.34	1
26	MP2A	Z	-57.354	1
27	MP2A	Mx	.113	1
28	MP2A	X	-99.34	5
29	MP2A	Z	-57.354	5
30	MP2A	Mx	.113	5
31	MP2A	X	-41.828	.5
32	MP2A	Z	-24.149	.5
33	MP2A	Mx	-.024	.5
34	MP3A	X	-34.234	2.5
35	MP3A	Z	-19.765	2.5
36	MP3A	Mx	-.019	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-37.927	1
2	MP3A	Z	-65.691	1
3	MP3A	Mx	.028	1
4	MP3A	X	-37.927	3
5	MP3A	Z	-65.691	3
6	MP3A	Mx	.028	3
7	MP1A	X	-25.252	1
8	MP1A	Z	-43.737	1
9	MP1A	Mx	.007	1
10	MP1A	X	-25.252	3
11	MP1A	Z	-43.737	3
12	MP1A	Mx	.007	3
13	MP4A	X	-25.252	1
14	MP4A	Z	-43.737	1
15	MP4A	Mx	.007	1
16	MP4A	X	-25.252	3
17	MP4A	Z	-43.737	3
18	MP4A	Mx	.007	3
19	MP2A	X	-70.385	1
20	MP2A	Z	-121.91	1
21	MP2A	Mx	-.028	1
22	MP2A	X	-70.385	5
23	MP2A	Z	-121.91	5
24	MP2A	Mx	-.028	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-70.385	1
26	MP2A	Z	-121.91	1
27	MP2A	Mx	.134	1
28	MP2A	X	-70.385	5
29	MP2A	Z	-121.91	5
30	MP2A	Mx	.134	5
31	MP2A	X	-28.67	.5
32	MP2A	Z	-49.657	.5
33	MP2A	Mx	-.022	.5
34	MP3A	X	-26.017	2.5
35	MP3A	Z	-45.062	2.5
36	MP3A	Mx	-.02	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1
2	MP3A	Z	-12.693	1
3	MP3A	Mx	0	1
4	MP3A	X	0	3
5	MP3A	Z	-12.693	3
6	MP3A	Mx	0	3
7	MP1A	X	0	1
8	MP1A	Z	-7.981	1
9	MP1A	Mx	-.002	1
10	MP1A	X	0	3
11	MP1A	Z	-7.981	3
12	MP1A	Mx	-.002	3
13	MP4A	X	0	1
14	MP4A	Z	-7.981	1
15	MP4A	Mx	-.002	1
16	MP4A	X	0	3
17	MP4A	Z	-7.981	3
18	MP4A	Mx	-.002	3
19	MP2A	X	0	1
20	MP2A	Z	-21.299	1
21	MP2A	Mx	-.014	1
22	MP2A	X	0	5
23	MP2A	Z	-21.299	5
24	MP2A	Mx	-.014	5
25	MP2A	X	0	1
26	MP2A	Z	-21.299	1
27	MP2A	Mx	.014	1
28	MP2A	X	0	5
29	MP2A	Z	-21.299	5
30	MP2A	Mx	.014	5
31	MP2A	X	0	.5
32	MP2A	Z	-10.329	.5
33	MP2A	Mx	-.002	.5
34	MP3A	X	0	2.5
35	MP3A	Z	-10.184	2.5
36	MP3A	Mx	-.002	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	5.437	1
2	MP3A	Z	-9.417	1
3	MP3A	Mx	-.004	1
4	MP3A	X	5.437	3
5	MP3A	Z	-9.417	3
6	MP3A	Mx	-.004	3
7	MP1A	X	4.814	1
8	MP1A	Z	-8.337	1
9	MP1A	Mx	-.006	1
10	MP1A	X	4.814	3
11	MP1A	Z	-8.337	3
12	MP1A	Mx	-.006	3
13	MP4A	X	4.814	1
14	MP4A	Z	-8.337	1
15	MP4A	Mx	-.006	1
16	MP4A	X	4.814	3
17	MP4A	Z	-8.337	3
18	MP4A	Mx	-.006	3
19	MP2A	X	9.824	1
20	MP2A	Z	-17.016	1
21	MP2A	Mx	-.019	1
22	MP2A	X	9.824	5
23	MP2A	Z	-17.016	5
24	MP2A	Mx	-.019	5
25	MP2A	X	9.824	1
26	MP2A	Z	-17.016	1
27	MP2A	Mx	.004	1
28	MP2A	X	9.824	5
29	MP2A	Z	-17.016	5
30	MP2A	Mx	.004	5
31	MP2A	X	5.306	.5
32	MP2A	Z	-9.189	.5
33	MP2A	Mx	.000922	.5
34	MP3A	X	5.287	2.5
35	MP3A	Z	-9.157	2.5
36	MP3A	Mx	.000918	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	6.266	1
2	MP3A	Z	-3.617	1
3	MP3A	Mx	-.005	1
4	MP3A	X	6.266	3
5	MP3A	Z	-3.617	3
6	MP3A	Mx	-.005	3
7	MP1A	X	9.5	1
8	MP1A	Z	-5.485	1
9	MP1A	Mx	-.008	1
10	MP1A	X	9.5	3
11	MP1A	Z	-5.485	3
12	MP1A	Mx	-.008	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	9.5	1
14	MP4A	Z	-5.485	1
15	MP4A	Mx	-.008	1
16	MP4A	X	9.5	3
17	MP4A	Z	-5.485	3
18	MP4A	Mx	-.008	3
19	MP2A	X	14.158	1
20	MP2A	Z	-8.174	1
21	MP2A	Mx	-.016	1
22	MP2A	X	14.158	5
23	MP2A	Z	-8.174	5
24	MP2A	Mx	-.016	5
25	MP2A	X	14.158	1
26	MP2A	Z	-8.174	1
27	MP2A	Mx	-.005	1
28	MP2A	X	14.158	5
29	MP2A	Z	-8.174	5
30	MP2A	Mx	-.005	5
31	MP2A	X	8.11	.5
32	MP2A	Z	-4.682	.5
33	MP2A	Mx	.003	.5
34	MP3A	X	7.668	2.5
35	MP3A	Z	-4.427	2.5
36	MP3A	Mx	.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	5.416	1
2	MP3A	Z	0	1
3	MP3A	Mx	-.004	1
4	MP3A	X	5.416	3
5	MP3A	Z	0	3
6	MP3A	Mx	-.004	3
7	MP1A	X	10.665	1
8	MP1A	Z	0	1
9	MP1A	Mx	-.008	1
10	MP1A	X	10.665	3
11	MP1A	Z	0	3
12	MP1A	Mx	-.008	3
13	MP4A	X	10.665	1
14	MP4A	Z	0	1
15	MP4A	Mx	-.008	1
16	MP4A	X	10.665	3
17	MP4A	Z	0	3
18	MP4A	Mx	-.008	3
19	MP2A	X	14.699	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.011	1
22	MP2A	X	14.699	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.011	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	14.699	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.011	1
28	MP2A	X	14.699	5
29	MP2A	Z	0	5
30	MP2A	Mx	-.011	5
31	MP2A	X	7.836	.5
32	MP2A	Z	0	.5
33	MP2A	Mx	.004	.5
34	MP3A	X	6.744	2.5
35	MP3A	Z	0	2.5
36	MP3A	Mx	.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	6.266	1
2	MP3A	Z	3.617	1
3	MP3A	Mx	-.005	1
4	MP3A	X	6.266	3
5	MP3A	Z	3.617	3
6	MP3A	Mx	-.005	3
7	MP1A	X	7.811	1
8	MP1A	Z	4.509	1
9	MP1A	Mx	-.004	1
10	MP1A	X	7.811	3
11	MP1A	Z	4.509	3
12	MP1A	Mx	-.004	3
13	MP4A	X	7.811	1
14	MP4A	Z	4.509	1
15	MP4A	Mx	-.004	1
16	MP4A	X	7.811	3
17	MP4A	Z	4.509	3
18	MP4A	Mx	-.004	3
19	MP2A	X	14.158	1
20	MP2A	Z	8.174	1
21	MP2A	Mx	-.005	1
22	MP2A	X	14.158	5
23	MP2A	Z	8.174	5
24	MP2A	Mx	-.005	5
25	MP2A	X	14.158	1
26	MP2A	Z	8.174	1
27	MP2A	Mx	-.016	1
28	MP2A	X	14.158	5
29	MP2A	Z	8.174	5
30	MP2A	Mx	-.016	5
31	MP2A	X	6.541	.5
32	MP2A	Z	3.777	.5
33	MP2A	Mx	.004	.5
34	MP3A	X	5.503	2.5
35	MP3A	Z	3.177	2.5
36	MP3A	Mx	.003	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	5.437	1
2	MP3A	Z	9.417	1
3	MP3A	Mx	-.004	1
4	MP3A	X	5.437	3
5	MP3A	Z	9.417	3
6	MP3A	Mx	-.004	3
7	MP1A	X	3.838	1
8	MP1A	Z	6.648	1
9	MP1A	Mx	-.001	1
10	MP1A	X	3.838	3
11	MP1A	Z	6.648	3
12	MP1A	Mx	-.001	3
13	MP4A	X	3.838	1
14	MP4A	Z	6.648	1
15	MP4A	Mx	-.001	1
16	MP4A	X	3.838	3
17	MP4A	Z	6.648	3
18	MP4A	Mx	-.001	3
19	MP2A	X	9.824	1
20	MP2A	Z	17.016	1
21	MP2A	Mx	.004	1
22	MP2A	X	9.824	5
23	MP2A	Z	17.016	5
24	MP2A	Mx	.004	5
25	MP2A	X	9.824	1
26	MP2A	Z	17.016	1
27	MP2A	Mx	-.019	1
28	MP2A	X	9.824	5
29	MP2A	Z	17.016	5
30	MP2A	Mx	-.019	5
31	MP2A	X	4.4	.5
32	MP2A	Z	7.621	.5
33	MP2A	Mx	.003	.5
34	MP3A	X	4.037	2.5
35	MP3A	Z	6.992	2.5
36	MP3A	Mx	.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1
2	MP3A	Z	12.693	1
3	MP3A	Mx	0	1
4	MP3A	X	0	3
5	MP3A	Z	12.693	3
6	MP3A	Mx	0	3
7	MP1A	X	0	1
8	MP1A	Z	7.981	1
9	MP1A	Mx	.002	1
10	MP1A	X	0	3
11	MP1A	Z	7.981	3
12	MP1A	Mx	.002	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	0	1
14	MP4A	Z	7.981	1
15	MP4A	Mx	.002	1
16	MP4A	X	0	3
17	MP4A	Z	7.981	3
18	MP4A	Mx	.002	3
19	MP2A	X	0	1
20	MP2A	Z	21.299	1
21	MP2A	Mx	.014	1
22	MP2A	X	0	5
23	MP2A	Z	21.299	5
24	MP2A	Mx	.014	5
25	MP2A	X	0	1
26	MP2A	Z	21.299	1
27	MP2A	Mx	-.014	1
28	MP2A	X	0	5
29	MP2A	Z	21.299	5
30	MP2A	Mx	-.014	5
31	MP2A	X	0	.5
32	MP2A	Z	10.329	.5
33	MP2A	Mx	.002	.5
34	MP3A	X	0	2.5
35	MP3A	Z	10.184	2.5
36	MP3A	Mx	.002	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-5.437	1
2	MP3A	Z	9.417	1
3	MP3A	Mx	.004	1
4	MP3A	X	-5.437	3
5	MP3A	Z	9.417	3
6	MP3A	Mx	.004	3
7	MP1A	X	-4.814	1
8	MP1A	Z	8.337	1
9	MP1A	Mx	.006	1
10	MP1A	X	-4.814	3
11	MP1A	Z	8.337	3
12	MP1A	Mx	.006	3
13	MP4A	X	-4.814	1
14	MP4A	Z	8.337	1
15	MP4A	Mx	.006	1
16	MP4A	X	-4.814	3
17	MP4A	Z	8.337	3
18	MP4A	Mx	.006	3
19	MP2A	X	-9.824	1
20	MP2A	Z	17.016	1
21	MP2A	Mx	.019	1
22	MP2A	X	-9.824	5
23	MP2A	Z	17.016	5
24	MP2A	Mx	.019	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-9.824	1
26	MP2A	Z	17.016	1
27	MP2A	Mx	-.004	1
28	MP2A	X	-9.824	5
29	MP2A	Z	17.016	5
30	MP2A	Mx	-.004	5
31	MP2A	X	-5.306	.5
32	MP2A	Z	9.189	.5
33	MP2A	Mx	-.000922	.5
34	MP3A	X	-5.287	2.5
35	MP3A	Z	9.157	2.5
36	MP3A	Mx	-.000918	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-6.266	1
2	MP3A	Z	3.617	1
3	MP3A	Mx	.005	1
4	MP3A	X	-6.266	3
5	MP3A	Z	3.617	3
6	MP3A	Mx	.005	3
7	MP1A	X	-9.5	1
8	MP1A	Z	5.485	1
9	MP1A	Mx	.008	1
10	MP1A	X	-9.5	3
11	MP1A	Z	5.485	3
12	MP1A	Mx	.008	3
13	MP4A	X	-9.5	1
14	MP4A	Z	5.485	1
15	MP4A	Mx	.008	1
16	MP4A	X	-9.5	3
17	MP4A	Z	5.485	3
18	MP4A	Mx	.008	3
19	MP2A	X	-14.158	1
20	MP2A	Z	8.174	1
21	MP2A	Mx	.016	1
22	MP2A	X	-14.158	5
23	MP2A	Z	8.174	5
24	MP2A	Mx	.016	5
25	MP2A	X	-14.158	1
26	MP2A	Z	8.174	1
27	MP2A	Mx	.005	1
28	MP2A	X	-14.158	5
29	MP2A	Z	8.174	5
30	MP2A	Mx	.005	5
31	MP2A	X	-8.11	.5
32	MP2A	Z	4.682	.5
33	MP2A	Mx	-.003	.5
34	MP3A	X	-7.668	2.5
35	MP3A	Z	4.427	2.5
36	MP3A	Mx	-.003	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-5.416	1
2	MP3A	Z	0	1
3	MP3A	Mx	.004	1
4	MP3A	X	-5.416	3
5	MP3A	Z	0	3
6	MP3A	Mx	.004	3
7	MP1A	X	-10.665	1
8	MP1A	Z	0	1
9	MP1A	Mx	.008	1
10	MP1A	X	-10.665	3
11	MP1A	Z	0	3
12	MP1A	Mx	.008	3
13	MP4A	X	-10.665	1
14	MP4A	Z	0	1
15	MP4A	Mx	.008	1
16	MP4A	X	-10.665	3
17	MP4A	Z	0	3
18	MP4A	Mx	.008	3
19	MP2A	X	-14.699	1
20	MP2A	Z	0	1
21	MP2A	Mx	.011	1
22	MP2A	X	-14.699	5
23	MP2A	Z	0	5
24	MP2A	Mx	.011	5
25	MP2A	X	-14.699	1
26	MP2A	Z	0	1
27	MP2A	Mx	.011	1
28	MP2A	X	-14.699	5
29	MP2A	Z	0	5
30	MP2A	Mx	.011	5
31	MP2A	X	-7.836	.5
32	MP2A	Z	0	.5
33	MP2A	Mx	-.004	.5
34	MP3A	X	-6.744	2.5
35	MP3A	Z	0	2.5
36	MP3A	Mx	-.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-6.266	1
2	MP3A	Z	-3.617	1
3	MP3A	Mx	.005	1
4	MP3A	X	-6.266	3
5	MP3A	Z	-3.617	3
6	MP3A	Mx	.005	3
7	MP1A	X	-7.811	1
8	MP1A	Z	-4.509	1
9	MP1A	Mx	.004	1
10	MP1A	X	-7.811	3
11	MP1A	Z	-4.509	3
12	MP1A	Mx	.004	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-7.811	1
14	MP4A	Z	-4.509	1
15	MP4A	Mx	.004	1
16	MP4A	X	-7.811	3
17	MP4A	Z	-4.509	3
18	MP4A	Mx	.004	3
19	MP2A	X	-14.158	1
20	MP2A	Z	-8.174	1
21	MP2A	Mx	.005	1
22	MP2A	X	-14.158	5
23	MP2A	Z	-8.174	5
24	MP2A	Mx	.005	5
25	MP2A	X	-14.158	1
26	MP2A	Z	-8.174	1
27	MP2A	Mx	.016	1
28	MP2A	X	-14.158	5
29	MP2A	Z	-8.174	5
30	MP2A	Mx	.016	5
31	MP2A	X	-6.541	.5
32	MP2A	Z	-3.777	.5
33	MP2A	Mx	-.004	.5
34	MP3A	X	-5.503	2.5
35	MP3A	Z	-3.177	2.5
36	MP3A	Mx	-.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-5.437	1
2	MP3A	Z	-9.417	1
3	MP3A	Mx	.004	1
4	MP3A	X	-5.437	3
5	MP3A	Z	-9.417	3
6	MP3A	Mx	.004	3
7	MP1A	X	-3.838	1
8	MP1A	Z	-6.648	1
9	MP1A	Mx	.001	1
10	MP1A	X	-3.838	3
11	MP1A	Z	-6.648	3
12	MP1A	Mx	.001	3
13	MP4A	X	-3.838	1
14	MP4A	Z	-6.648	1
15	MP4A	Mx	.001	1
16	MP4A	X	-3.838	3
17	MP4A	Z	-6.648	3
18	MP4A	Mx	.001	3
19	MP2A	X	-9.824	1
20	MP2A	Z	-17.016	1
21	MP2A	Mx	-.004	1
22	MP2A	X	-9.824	5
23	MP2A	Z	-17.016	5
24	MP2A	Mx	-.004	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-9.824	1
26	MP2A	Z	-17.016	1
27	MP2A	Mx	.019	1
28	MP2A	X	-9.824	5
29	MP2A	Z	-17.016	5
30	MP2A	Mx	.019	5
31	MP2A	X	-4.4	.5
32	MP2A	Z	-7.621	.5
33	MP2A	Mx	-.003	.5
34	MP3A	X	-4.037	2.5
35	MP3A	Z	-6.992	2.5
36	MP3A	Mx	-.003	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1
2	MP3A	Z	-6.306	1
3	MP3A	Mx	0	1
4	MP3A	X	0	3
5	MP3A	Z	-6.306	3
6	MP3A	Mx	0	3
7	MP1A	X	0	1
8	MP1A	Z	-3.726	1
9	MP1A	Mx	-.000956	1
10	MP1A	X	0	3
11	MP1A	Z	-3.726	3
12	MP1A	Mx	-.000956	3
13	MP4A	X	0	1
14	MP4A	Z	-3.726	1
15	MP4A	Mx	-.000956	1
16	MP4A	X	0	3
17	MP4A	Z	-3.726	3
18	MP4A	Mx	-.000956	3
19	MP2A	X	0	1
20	MP2A	Z	-10.84	1
21	MP2A	Mx	-.007	1
22	MP2A	X	0	5
23	MP2A	Z	-10.84	5
24	MP2A	Mx	-.007	5
25	MP2A	X	0	1
26	MP2A	Z	-10.84	1
27	MP2A	Mx	.007	1
28	MP2A	X	0	5
29	MP2A	Z	-10.84	5
30	MP2A	Mx	.007	5
31	MP2A	X	0	.5
32	MP2A	Z	-4.823	.5
33	MP2A	Mx	-.000825	.5
34	MP3A	X	0	2.5
35	MP3A	Z	-4.749	2.5
36	MP3A	Mx	-.000812	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.673	1
2	MP3A	Z	-4.63	1
3	MP3A	Mx	-.002	1
4	MP3A	X	2.673	3
5	MP3A	Z	-4.63	3
6	MP3A	Mx	-.002	3
7	MP1A	X	2.315	1
8	MP1A	Z	-4.009	1
9	MP1A	Mx	-.003	1
10	MP1A	X	2.315	3
11	MP1A	Z	-4.009	3
12	MP1A	Mx	-.003	3
13	MP4A	X	2.315	1
14	MP4A	Z	-4.009	1
15	MP4A	Mx	-.003	1
16	MP4A	X	2.315	3
17	MP4A	Z	-4.009	3
18	MP4A	Mx	-.003	3
19	MP2A	X	4.961	1
20	MP2A	Z	-8.593	1
21	MP2A	Mx	-.009	1
22	MP2A	X	4.961	5
23	MP2A	Z	-8.593	5
24	MP2A	Mx	-.009	5
25	MP2A	X	4.961	1
26	MP2A	Z	-8.593	1
27	MP2A	Mx	.002	1
28	MP2A	X	4.961	5
29	MP2A	Z	-8.593	5
30	MP2A	Mx	.002	5
31	MP2A	X	2.484	.5
32	MP2A	Z	-4.302	.5
33	MP2A	Mx	.000431	.5
34	MP3A	X	2.474	2.5
35	MP3A	Z	-4.285	2.5
36	MP3A	Mx	.00043	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.969	1
2	MP3A	Z	-1.714	1
3	MP3A	Mx	-.002	1
4	MP3A	X	2.969	3
5	MP3A	Z	-1.714	3
6	MP3A	Mx	-.002	3
7	MP1A	X	4.647	1
8	MP1A	Z	-2.683	1
9	MP1A	Mx	-.004	1
10	MP1A	X	4.647	3
11	MP1A	Z	-2.683	3
12	MP1A	Mx	-.004	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	4.647	1
14	MP4A	Z	-2.683	1
15	MP4A	Mx	-.004	1
16	MP4A	X	4.647	3
17	MP4A	Z	-2.683	3
18	MP4A	Mx	-.004	3
19	MP2A	X	7.002	1
20	MP2A	Z	-4.043	1
21	MP2A	Mx	-.008	1
22	MP2A	X	7.002	5
23	MP2A	Z	-4.043	5
24	MP2A	Mx	-.008	5
25	MP2A	X	7.002	1
26	MP2A	Z	-4.043	1
27	MP2A	Mx	-.003	1
28	MP2A	X	7.002	5
29	MP2A	Z	-4.043	5
30	MP2A	Mx	-.003	5
31	MP2A	X	3.75	.5
32	MP2A	Z	-2.165	.5
33	MP2A	Mx	.001	.5
34	MP3A	X	3.522	2.5
35	MP3A	Z	-2.034	2.5
36	MP3A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.469	1
2	MP3A	Z	0	1
3	MP3A	Mx	-.002	1
4	MP3A	X	2.469	3
5	MP3A	Z	0	3
6	MP3A	Mx	-.002	3
7	MP1A	X	5.199	1
8	MP1A	Z	0	1
9	MP1A	Mx	-.004	1
10	MP1A	X	5.199	3
11	MP1A	Z	0	3
12	MP1A	Mx	-.004	3
13	MP4A	X	5.199	1
14	MP4A	Z	0	1
15	MP4A	Mx	-.004	1
16	MP4A	X	5.199	3
17	MP4A	Z	0	3
18	MP4A	Mx	-.004	3
19	MP2A	X	7.167	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.005	1
22	MP2A	X	7.167	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.005	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	7.167	1
26	MP2A	Z	0	1
27	MP2A	Mx	-.005	1
28	MP2A	X	7.167	5
29	MP2A	Z	0	5
30	MP2A	Mx	-.005	5
31	MP2A	X	3.549	.5
32	MP2A	Z	0	.5
33	MP2A	Mx	.002	.5
34	MP3A	X	2.986	2.5
35	MP3A	Z	0	2.5
36	MP3A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.969	1
2	MP3A	Z	1.714	1
3	MP3A	Mx	-.002	1
4	MP3A	X	2.969	3
5	MP3A	Z	1.714	3
6	MP3A	Mx	-.002	3
7	MP1A	X	3.72	1
8	MP1A	Z	2.148	1
9	MP1A	Mx	-.002	1
10	MP1A	X	3.72	3
11	MP1A	Z	2.148	3
12	MP1A	Mx	-.002	3
13	MP4A	X	3.72	1
14	MP4A	Z	2.148	1
15	MP4A	Mx	-.002	1
16	MP4A	X	3.72	3
17	MP4A	Z	2.148	3
18	MP4A	Mx	-.002	3
19	MP2A	X	7.002	1
20	MP2A	Z	4.043	1
21	MP2A	Mx	-.003	1
22	MP2A	X	7.002	5
23	MP2A	Z	4.043	5
24	MP2A	Mx	-.003	5
25	MP2A	X	7.002	1
26	MP2A	Z	4.043	1
27	MP2A	Mx	-.008	1
28	MP2A	X	7.002	5
29	MP2A	Z	4.043	5
30	MP2A	Mx	-.008	5
31	MP2A	X	2.948	.5
32	MP2A	Z	1.702	.5
33	MP2A	Mx	.002	.5
34	MP3A	X	2.413	2.5
35	MP3A	Z	1.393	2.5
36	MP3A	Mx	.001	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	2.673	1
2	MP3A	Z	4.63	1
3	MP3A	Mx	-.002	1
4	MP3A	X	2.673	3
5	MP3A	Z	4.63	3
6	MP3A	Mx	-.002	3
7	MP1A	X	1.78	1
8	MP1A	Z	3.083	1
9	MP1A	Mx	-.000464	1
10	MP1A	X	1.78	3
11	MP1A	Z	3.083	3
12	MP1A	Mx	-.000464	3
13	MP4A	X	1.78	1
14	MP4A	Z	3.083	1
15	MP4A	Mx	-.000464	1
16	MP4A	X	1.78	3
17	MP4A	Z	3.083	3
18	MP4A	Mx	-.000464	3
19	MP2A	X	4.961	1
20	MP2A	Z	8.593	1
21	MP2A	Mx	.002	1
22	MP2A	X	4.961	5
23	MP2A	Z	8.593	5
24	MP2A	Mx	.002	5
25	MP2A	X	4.961	1
26	MP2A	Z	8.593	1
27	MP2A	Mx	-.009	1
28	MP2A	X	4.961	5
29	MP2A	Z	8.593	5
30	MP2A	Mx	-.009	5
31	MP2A	X	2.021	.5
32	MP2A	Z	3.5	.5
33	MP2A	Mx	.002	.5
34	MP3A	X	1.834	2.5
35	MP3A	Z	3.176	2.5
36	MP3A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1
2	MP3A	Z	6.306	1
3	MP3A	Mx	0	1
4	MP3A	X	0	3
5	MP3A	Z	6.306	3
6	MP3A	Mx	0	3
7	MP1A	X	0	1
8	MP1A	Z	3.726	1
9	MP1A	Mx	.000956	1
10	MP1A	X	0	3
11	MP1A	Z	3.726	3
12	MP1A	Mx	.000956	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	0	1
14	MP4A	Z	3.726	1
15	MP4A	Mx	.000956	1
16	MP4A	X	0	3
17	MP4A	Z	3.726	3
18	MP4A	Mx	.000956	3
19	MP2A	X	0	1
20	MP2A	Z	10.84	1
21	MP2A	Mx	.007	1
22	MP2A	X	0	5
23	MP2A	Z	10.84	5
24	MP2A	Mx	.007	5
25	MP2A	X	0	1
26	MP2A	Z	10.84	1
27	MP2A	Mx	-.007	1
28	MP2A	X	0	5
29	MP2A	Z	10.84	5
30	MP2A	Mx	-.007	5
31	MP2A	X	0	.5
32	MP2A	Z	4.823	.5
33	MP2A	Mx	.000825	.5
34	MP3A	X	0	2.5
35	MP3A	Z	4.749	2.5
36	MP3A	Mx	.000812	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.673	1
2	MP3A	Z	4.63	1
3	MP3A	Mx	.002	1
4	MP3A	X	-2.673	3
5	MP3A	Z	4.63	3
6	MP3A	Mx	.002	3
7	MP1A	X	-2.315	1
8	MP1A	Z	4.009	1
9	MP1A	Mx	.003	1
10	MP1A	X	-2.315	3
11	MP1A	Z	4.009	3
12	MP1A	Mx	.003	3
13	MP4A	X	-2.315	1
14	MP4A	Z	4.009	1
15	MP4A	Mx	.003	1
16	MP4A	X	-2.315	3
17	MP4A	Z	4.009	3
18	MP4A	Mx	.003	3
19	MP2A	X	-4.961	1
20	MP2A	Z	8.593	1
21	MP2A	Mx	.009	1
22	MP2A	X	-4.961	5
23	MP2A	Z	8.593	5
24	MP2A	Mx	.009	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-4.961	1
26	MP2A	Z	8.593	1
27	MP2A	Mx	-.002	1
28	MP2A	X	-4.961	5
29	MP2A	Z	8.593	5
30	MP2A	Mx	-.002	5
31	MP2A	X	-2.484	.5
32	MP2A	Z	4.302	.5
33	MP2A	Mx	-.000431	.5
34	MP3A	X	-2.474	2.5
35	MP3A	Z	4.285	2.5
36	MP3A	Mx	-.00043	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.969	1
2	MP3A	Z	1.714	1
3	MP3A	Mx	.002	1
4	MP3A	X	-2.969	3
5	MP3A	Z	1.714	3
6	MP3A	Mx	.002	3
7	MP1A	X	-4.647	1
8	MP1A	Z	2.683	1
9	MP1A	Mx	.004	1
10	MP1A	X	-4.647	3
11	MP1A	Z	2.683	3
12	MP1A	Mx	.004	3
13	MP4A	X	-4.647	1
14	MP4A	Z	2.683	1
15	MP4A	Mx	.004	1
16	MP4A	X	-4.647	3
17	MP4A	Z	2.683	3
18	MP4A	Mx	.004	3
19	MP2A	X	-7.002	1
20	MP2A	Z	4.043	1
21	MP2A	Mx	.008	1
22	MP2A	X	-7.002	5
23	MP2A	Z	4.043	5
24	MP2A	Mx	.008	5
25	MP2A	X	-7.002	1
26	MP2A	Z	4.043	1
27	MP2A	Mx	.003	1
28	MP2A	X	-7.002	5
29	MP2A	Z	4.043	5
30	MP2A	Mx	.003	5
31	MP2A	X	-3.75	.5
32	MP2A	Z	2.165	.5
33	MP2A	Mx	-.001	.5
34	MP3A	X	-3.522	2.5
35	MP3A	Z	2.034	2.5
36	MP3A	Mx	-.001	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.469	1
2	MP3A	Z	0	1
3	MP3A	Mx	.002	1
4	MP3A	X	-2.469	3
5	MP3A	Z	0	3
6	MP3A	Mx	.002	3
7	MP1A	X	-5.199	1
8	MP1A	Z	0	1
9	MP1A	Mx	.004	1
10	MP1A	X	-5.199	3
11	MP1A	Z	0	3
12	MP1A	Mx	.004	3
13	MP4A	X	-5.199	1
14	MP4A	Z	0	1
15	MP4A	Mx	.004	1
16	MP4A	X	-5.199	3
17	MP4A	Z	0	3
18	MP4A	Mx	.004	3
19	MP2A	X	-7.167	1
20	MP2A	Z	0	1
21	MP2A	Mx	.005	1
22	MP2A	X	-7.167	5
23	MP2A	Z	0	5
24	MP2A	Mx	.005	5
25	MP2A	X	-7.167	1
26	MP2A	Z	0	1
27	MP2A	Mx	.005	1
28	MP2A	X	-7.167	5
29	MP2A	Z	0	5
30	MP2A	Mx	.005	5
31	MP2A	X	-3.549	.5
32	MP2A	Z	0	.5
33	MP2A	Mx	-.002	.5
34	MP3A	X	-2.986	2.5
35	MP3A	Z	0	2.5
36	MP3A	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.969	1
2	MP3A	Z	-1.714	1
3	MP3A	Mx	.002	1
4	MP3A	X	-2.969	3
5	MP3A	Z	-1.714	3
6	MP3A	Mx	.002	3
7	MP1A	X	-3.72	1
8	MP1A	Z	-2.148	1
9	MP1A	Mx	.002	1
10	MP1A	X	-3.72	3
11	MP1A	Z	-2.148	3
12	MP1A	Mx	.002	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-3.72	1
14	MP4A	Z	-2.148	1
15	MP4A	Mx	.002	1
16	MP4A	X	-3.72	3
17	MP4A	Z	-2.148	3
18	MP4A	Mx	.002	3
19	MP2A	X	-7.002	1
20	MP2A	Z	-4.043	1
21	MP2A	Mx	.003	1
22	MP2A	X	-7.002	5
23	MP2A	Z	-4.043	5
24	MP2A	Mx	.003	5
25	MP2A	X	-7.002	1
26	MP2A	Z	-4.043	1
27	MP2A	Mx	.008	1
28	MP2A	X	-7.002	5
29	MP2A	Z	-4.043	5
30	MP2A	Mx	.008	5
31	MP2A	X	-2.948	.5
32	MP2A	Z	-1.702	.5
33	MP2A	Mx	-.002	.5
34	MP3A	X	-2.413	2.5
35	MP3A	Z	-1.393	2.5
36	MP3A	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-2.673	1
2	MP3A	Z	-4.63	1
3	MP3A	Mx	.002	1
4	MP3A	X	-2.673	3
5	MP3A	Z	-4.63	3
6	MP3A	Mx	.002	3
7	MP1A	X	-1.78	1
8	MP1A	Z	-3.083	1
9	MP1A	Mx	.000464	1
10	MP1A	X	-1.78	3
11	MP1A	Z	-3.083	3
12	MP1A	Mx	.000464	3
13	MP4A	X	-1.78	1
14	MP4A	Z	-3.083	1
15	MP4A	Mx	.000464	1
16	MP4A	X	-1.78	3
17	MP4A	Z	-3.083	3
18	MP4A	Mx	.000464	3
19	MP2A	X	-4.961	1
20	MP2A	Z	-8.593	1
21	MP2A	Mx	-.002	1
22	MP2A	X	-4.961	5
23	MP2A	Z	-8.593	5
24	MP2A	Mx	-.002	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	-4.961	1
26	MP2A	Z	-8.593	1
27	MP2A	Mx	.009	1
28	MP2A	X	-4.961	5
29	MP2A	Z	-8.593	5
30	MP2A	Mx	.009	5
31	MP2A	X	-2.021	.5
32	MP2A	Z	-3.5	.5
33	MP2A	Mx	-.002	.5
34	MP3A	X	-1.834	2.5
35	MP3A	Z	-3.176	2.5
36	MP3A	Mx	-.001	2.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%65.244

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%35.975

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-5.104	-5.104	0	%100
2	M2	Y	-5.104	-5.104	0	%100
3	RCP	Y	-6.772	-6.772	0	%100
4	M18	Y	-6.772	-6.772	0	%100
5	M19	Y	-2.768	-2.768	0	%100
6	M22	Y	-6.721	-6.721	0	%100
7	M25	Y	-10.33	-10.33	0	%100
8	M26	Y	-10.33	-10.33	0	%100
9	M27	Y	-10.33	-10.33	0	%100
10	M28	Y	-10.33	-10.33	0	%100
11	M29	Y	-10.33	-10.33	0	%100
12	M30	Y	-10.33	-10.33	0	%100
13	M35	Y	-10.33	-10.33	0	%100
14	M36	Y	-10.33	-10.33	0	%100
15	M37	Y	-10.33	-10.33	0	%100
16	M38	Y	-10.33	-10.33	0	%100
17	M39	Y	-10.33	-10.33	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
18	M40	Y	-10.33	-10.33	0	%100
19	MP4A	Y	-5.104	-5.104	0	%100
20	MP3A	Y	-5.104	-5.104	0	%100
21	MP1A	Y	-5.104	-5.104	0	%100
22	MP2A	Y	-5.104	-5.104	0	%100
23	M46	Y	-4.421	-4.421	0	%100
24	M47	Y	-4.421	-4.421	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-9.042	-9.042	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-9.042	-9.042	0	%100
5	RCP	X	0	0	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	0	0	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	0	0	0	%100
10	M19	Z	-2.855	-2.855	0	%100
11	M22	X	0	0	0	%100
12	M22	Z	-10.54	-10.54	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	-22.842	-22.842	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	-22.842	-22.842	0	%100
17	M27	X	0	0	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	0	0	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	0	0	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	0	0	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	0	0	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	-22.842	-22.842	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	-22.842	-22.842	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-9.042	-9.042	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-9.042	-9.042	0	%100
41	MP1A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-9.042	-9.042	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	-9.042	-9.042	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	-5.844	-5.844	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	-3.123	-3.123	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.391	3.391	0	%100
2	M1	Z	-5.873	-5.873	0	%100
3	M2	X	3.391	3.391	0	%100
4	M2	Z	-5.873	-5.873	0	%100
5	RCP	X	.95	.95	0	%100
6	RCP	Z	-1.646	-1.646	0	%100
7	M18	X	.95	.95	0	%100
8	M18	Z	-1.646	-1.646	0	%100
9	M19	X	1.428	1.428	0	%100
10	M19	Z	-2.473	-2.473	0	%100
11	M22	X	5.27	5.27	0	%100
12	M22	Z	-9.128	-9.128	0	%100
13	M25	X	8.566	8.566	0	%100
14	M25	Z	-14.836	-14.836	0	%100
15	M26	X	8.566	8.566	0	%100
16	M26	Z	-14.836	-14.836	0	%100
17	M27	X	2.855	2.855	0	%100
18	M27	Z	-4.945	-4.945	0	%100
19	M28	X	2.855	2.855	0	%100
20	M28	Z	-4.945	-4.945	0	%100
21	M29	X	2.855	2.855	0	%100
22	M29	Z	-4.945	-4.945	0	%100
23	M30	X	2.855	2.855	0	%100
24	M30	Z	-4.945	-4.945	0	%100
25	M35	X	2.855	2.855	0	%100
26	M35	Z	-4.945	-4.945	0	%100
27	M36	X	2.855	2.855	0	%100
28	M36	Z	-4.945	-4.945	0	%100
29	M37	X	2.855	2.855	0	%100
30	M37	Z	-4.945	-4.945	0	%100
31	M38	X	2.855	2.855	0	%100
32	M38	Z	-4.945	-4.945	0	%100
33	M39	X	8.566	8.566	0	%100
34	M39	Z	-14.836	-14.836	0	%100
35	M40	X	8.566	8.566	0	%100
36	M40	Z	-14.836	-14.836	0	%100
37	MP4A	X	4.521	4.521	0	%100
38	MP4A	Z	-7.83	-7.83	0	%100
39	MP3A	X	4.521	4.521	0	%100
40	MP3A	Z	-7.83	-7.83	0	%100
41	MP1A	X	4.521	4.521	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-7.83	-7.83	0	%100
43	MP2A	X	4.521	4.521	0	%100
44	MP2A	Z	-7.83	-7.83	0	%100
45	M46	X	3.599	3.599	0	%100
46	M46	Z	-6.234	-6.234	0	%100
47	M47	X	3.236	3.236	0	%100
48	M47	Z	-5.605	-5.605	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.958	1.958	0	%100
2	M1	Z	-1.13	-1.13	0	%100
3	M2	X	1.958	1.958	0	%100
4	M2	Z	-1.13	-1.13	0	%100
5	RCP	X	4.937	4.937	0	%100
6	RCP	Z	-2.85	-2.85	0	%100
7	M18	X	4.937	4.937	0	%100
8	M18	Z	-2.85	-2.85	0	%100
9	M19	X	2.473	2.473	0	%100
10	M19	Z	-1.428	-1.428	0	%100
11	M22	X	9.128	9.128	0	%100
12	M22	Z	-5.27	-5.27	0	%100
13	M25	X	4.945	4.945	0	%100
14	M25	Z	-2.855	-2.855	0	%100
15	M26	X	4.945	4.945	0	%100
16	M26	Z	-2.855	-2.855	0	%100
17	M27	X	14.836	14.836	0	%100
18	M27	Z	-8.566	-8.566	0	%100
19	M28	X	14.836	14.836	0	%100
20	M28	Z	-8.566	-8.566	0	%100
21	M29	X	14.836	14.836	0	%100
22	M29	Z	-8.566	-8.566	0	%100
23	M30	X	14.836	14.836	0	%100
24	M30	Z	-8.566	-8.566	0	%100
25	M35	X	14.836	14.836	0	%100
26	M35	Z	-8.566	-8.566	0	%100
27	M36	X	14.836	14.836	0	%100
28	M36	Z	-8.566	-8.566	0	%100
29	M37	X	14.836	14.836	0	%100
30	M37	Z	-8.566	-8.566	0	%100
31	M38	X	14.836	14.836	0	%100
32	M38	Z	-8.566	-8.566	0	%100
33	M39	X	4.945	4.945	0	%100
34	M39	Z	-2.855	-2.855	0	%100
35	M40	X	4.945	4.945	0	%100
36	M40	Z	-2.855	-2.855	0	%100
37	MP4A	X	7.83	7.83	0	%100
38	MP4A	Z	-4.521	-4.521	0	%100
39	MP3A	X	7.83	7.83	0	%100
40	MP3A	Z	-4.521	-4.521	0	%100
41	MP1A	X	7.83	7.83	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-4.521	-4.521	0	%100
43	MP2A	X	7.83	7.83	0	%100
44	MP2A	Z	-4.521	-4.521	0	%100
45	M46	X	4.304	4.304	0	%100
46	M46	Z	-2.485	-2.485	0	%100
47	M47	X	6.033	6.033	0	%100
48	M47	Z	-3.483	-3.483	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	RCP	X	7.601	7.601	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	7.601	7.601	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	2.855	2.855	0	%100
10	M19	Z	0	0	0	%100
11	M22	X	10.54	10.54	0	%100
12	M22	Z	0	0	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	0	0	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	0	0	0	%100
17	M27	X	22.842	22.842	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	22.842	22.842	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	22.842	22.842	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	22.842	22.842	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	22.842	22.842	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	22.842	22.842	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	22.842	22.842	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	22.842	22.842	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	0	0	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	0	0	0	%100
37	MP4A	X	9.042	9.042	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	9.042	9.042	0	%100
40	MP3A	Z	0	0	0	%100
41	MP1A	X	9.042	9.042	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	0	0	0	%100
43	MP2A	X	9.042	9.042	0	%100
44	MP2A	Z	0	0	0	%100
45	M46	X	1.389	1.389	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	4.11	4.11	0	%100
48	M47	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.958	1.958	0	%100
2	M1	Z	1.13	1.13	0	%100
3	M2	X	1.958	1.958	0	%100
4	M2	Z	1.13	1.13	0	%100
5	RCP	X	4.937	4.937	0	%100
6	RCP	Z	2.85	2.85	0	%100
7	M18	X	4.937	4.937	0	%100
8	M18	Z	2.85	2.85	0	%100
9	M19	X	2.473	2.473	0	%100
10	M19	Z	1.428	1.428	0	%100
11	M22	X	9.128	9.128	0	%100
12	M22	Z	5.27	5.27	0	%100
13	M25	X	4.945	4.945	0	%100
14	M25	Z	2.855	2.855	0	%100
15	M26	X	4.945	4.945	0	%100
16	M26	Z	2.855	2.855	0	%100
17	M27	X	14.836	14.836	0	%100
18	M27	Z	8.566	8.566	0	%100
19	M28	X	14.836	14.836	0	%100
20	M28	Z	8.566	8.566	0	%100
21	M29	X	14.836	14.836	0	%100
22	M29	Z	8.566	8.566	0	%100
23	M30	X	14.836	14.836	0	%100
24	M30	Z	8.566	8.566	0	%100
25	M35	X	14.836	14.836	0	%100
26	M35	Z	8.566	8.566	0	%100
27	M36	X	14.836	14.836	0	%100
28	M36	Z	8.566	8.566	0	%100
29	M37	X	14.836	14.836	0	%100
30	M37	Z	8.566	8.566	0	%100
31	M38	X	14.836	14.836	0	%100
32	M38	Z	8.566	8.566	0	%100
33	M39	X	4.945	4.945	0	%100
34	M39	Z	2.855	2.855	0	%100
35	M40	X	4.945	4.945	0	%100
36	M40	Z	2.855	2.855	0	%100
37	MP4A	X	7.83	7.83	0	%100
38	MP4A	Z	4.521	4.521	0	%100
39	MP3A	X	7.83	7.83	0	%100
40	MP3A	Z	4.521	4.521	0	%100
41	MP1A	X	7.83	7.83	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	4.521	4.521	0	%100
43	MP2A	X	7.83	7.83	0	%100
44	MP2A	Z	4.521	4.521	0	%100
45	M46	X	.031	.031	0	%100
46	M46	Z	.018	.018	0	%100
47	M47	X	.659	.659	0	%100
48	M47	Z	.38	.38	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.391	3.391	0	%100
2	M1	Z	5.873	5.873	0	%100
3	M2	X	3.391	3.391	0	%100
4	M2	Z	5.873	5.873	0	%100
5	RCP	X	.95	.95	0	%100
6	RCP	Z	1.646	1.646	0	%100
7	M18	X	.95	.95	0	%100
8	M18	Z	1.646	1.646	0	%100
9	M19	X	1.428	1.428	0	%100
10	M19	Z	2.473	2.473	0	%100
11	M22	X	5.27	5.27	0	%100
12	M22	Z	9.128	9.128	0	%100
13	M25	X	8.566	8.566	0	%100
14	M25	Z	14.836	14.836	0	%100
15	M26	X	8.566	8.566	0	%100
16	M26	Z	14.836	14.836	0	%100
17	M27	X	2.855	2.855	0	%100
18	M27	Z	4.945	4.945	0	%100
19	M28	X	2.855	2.855	0	%100
20	M28	Z	4.945	4.945	0	%100
21	M29	X	2.855	2.855	0	%100
22	M29	Z	4.945	4.945	0	%100
23	M30	X	2.855	2.855	0	%100
24	M30	Z	4.945	4.945	0	%100
25	M35	X	2.855	2.855	0	%100
26	M35	Z	4.945	4.945	0	%100
27	M36	X	2.855	2.855	0	%100
28	M36	Z	4.945	4.945	0	%100
29	M37	X	2.855	2.855	0	%100
30	M37	Z	4.945	4.945	0	%100
31	M38	X	2.855	2.855	0	%100
32	M38	Z	4.945	4.945	0	%100
33	M39	X	8.566	8.566	0	%100
34	M39	Z	14.836	14.836	0	%100
35	M40	X	8.566	8.566	0	%100
36	M40	Z	14.836	14.836	0	%100
37	MP4A	X	4.521	4.521	0	%100
38	MP4A	Z	7.83	7.83	0	%100
39	MP3A	X	4.521	4.521	0	%100
40	MP3A	Z	7.83	7.83	0	%100
41	MP1A	X	4.521	4.521	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	7.83	7.83	0	%100
43	MP2A	X	4.521	4.521	0	%100
44	MP2A	Z	7.83	7.83	0	%100
45	M46	X	1.132	1.132	0	%100
46	M46	Z	1.96	1.96	0	%100
47	M47	X	.134	.134	0	%100
48	M47	Z	.231	.231	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	9.042	9.042	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.042	9.042	0	%100
5	RCP	X	0	0	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	0	0	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	0	0	0	%100
10	M19	Z	2.855	2.855	0	%100
11	M22	X	0	0	0	%100
12	M22	Z	10.54	10.54	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	22.842	22.842	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	22.842	22.842	0	%100
17	M27	X	0	0	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	0	0	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	0	0	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	0	0	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	0	0	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	22.842	22.842	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	22.842	22.842	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	9.042	9.042	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	9.042	9.042	0	%100
41	MP1A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	9.042	9.042	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	9.042	9.042	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	5.844	5.844	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	3.123	3.123	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.391	-3.391	0	%100
2	M1	Z	5.873	5.873	0	%100
3	M2	X	-3.391	-3.391	0	%100
4	M2	Z	5.873	5.873	0	%100
5	RCP	X	-.95	-.95	0	%100
6	RCP	Z	1.646	1.646	0	%100
7	M18	X	-.95	-.95	0	%100
8	M18	Z	1.646	1.646	0	%100
9	M19	X	-1.428	-1.428	0	%100
10	M19	Z	2.473	2.473	0	%100
11	M22	X	-5.27	-5.27	0	%100
12	M22	Z	9.128	9.128	0	%100
13	M25	X	-8.566	-8.566	0	%100
14	M25	Z	14.836	14.836	0	%100
15	M26	X	-8.566	-8.566	0	%100
16	M26	Z	14.836	14.836	0	%100
17	M27	X	-2.855	-2.855	0	%100
18	M27	Z	4.945	4.945	0	%100
19	M28	X	-2.855	-2.855	0	%100
20	M28	Z	4.945	4.945	0	%100
21	M29	X	-2.855	-2.855	0	%100
22	M29	Z	4.945	4.945	0	%100
23	M30	X	-2.855	-2.855	0	%100
24	M30	Z	4.945	4.945	0	%100
25	M35	X	-2.855	-2.855	0	%100
26	M35	Z	4.945	4.945	0	%100
27	M36	X	-2.855	-2.855	0	%100
28	M36	Z	4.945	4.945	0	%100
29	M37	X	-2.855	-2.855	0	%100
30	M37	Z	4.945	4.945	0	%100
31	M38	X	-2.855	-2.855	0	%100
32	M38	Z	4.945	4.945	0	%100
33	M39	X	-8.566	-8.566	0	%100
34	M39	Z	14.836	14.836	0	%100
35	M40	X	-8.566	-8.566	0	%100
36	M40	Z	14.836	14.836	0	%100
37	MP4A	X	-4.521	-4.521	0	%100
38	MP4A	Z	7.83	7.83	0	%100
39	MP3A	X	-4.521	-4.521	0	%100
40	MP3A	Z	7.83	7.83	0	%100
41	MP1A	X	-4.521	-4.521	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	7.83	7.83	0	%100
43	MP2A	X	-4.521	-4.521	0	%100
44	MP2A	Z	7.83	7.83	0	%100
45	M46	X	-3.599	-3.599	0	%100
46	M46	Z	6.234	6.234	0	%100
47	M47	X	-3.236	-3.236	0	%100
48	M47	Z	5.605	5.605	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.958	-1.958	0	%100
2	M1	Z	1.13	1.13	0	%100
3	M2	X	-1.958	-1.958	0	%100
4	M2	Z	1.13	1.13	0	%100
5	RCP	X	-4.937	-4.937	0	%100
6	RCP	Z	2.85	2.85	0	%100
7	M18	X	-4.937	-4.937	0	%100
8	M18	Z	2.85	2.85	0	%100
9	M19	X	-2.473	-2.473	0	%100
10	M19	Z	1.428	1.428	0	%100
11	M22	X	-9.128	-9.128	0	%100
12	M22	Z	5.27	5.27	0	%100
13	M25	X	-4.945	-4.945	0	%100
14	M25	Z	2.855	2.855	0	%100
15	M26	X	-4.945	-4.945	0	%100
16	M26	Z	2.855	2.855	0	%100
17	M27	X	-14.836	-14.836	0	%100
18	M27	Z	8.566	8.566	0	%100
19	M28	X	-14.836	-14.836	0	%100
20	M28	Z	8.566	8.566	0	%100
21	M29	X	-14.836	-14.836	0	%100
22	M29	Z	8.566	8.566	0	%100
23	M30	X	-14.836	-14.836	0	%100
24	M30	Z	8.566	8.566	0	%100
25	M35	X	-14.836	-14.836	0	%100
26	M35	Z	8.566	8.566	0	%100
27	M36	X	-14.836	-14.836	0	%100
28	M36	Z	8.566	8.566	0	%100
29	M37	X	-14.836	-14.836	0	%100
30	M37	Z	8.566	8.566	0	%100
31	M38	X	-14.836	-14.836	0	%100
32	M38	Z	8.566	8.566	0	%100
33	M39	X	-4.945	-4.945	0	%100
34	M39	Z	2.855	2.855	0	%100
35	M40	X	-4.945	-4.945	0	%100
36	M40	Z	2.855	2.855	0	%100
37	MP4A	X	-7.83	-7.83	0	%100
38	MP4A	Z	4.521	4.521	0	%100
39	MP3A	X	-7.83	-7.83	0	%100
40	MP3A	Z	4.521	4.521	0	%100
41	MP1A	X	-7.83	-7.83	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	4.521	4.521	0	%100
43	MP2A	X	-7.83	-7.83	0	%100
44	MP2A	Z	4.521	4.521	0	%100
45	M46	X	-4.304	-4.304	0	%100
46	M46	Z	2.485	2.485	0	%100
47	M47	X	-6.033	-6.033	0	%100
48	M47	Z	3.483	3.483	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	RCP	X	-7.601	-7.601	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	-7.601	-7.601	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	-2.855	-2.855	0	%100
10	M19	Z	0	0	0	%100
11	M22	X	-10.54	-10.54	0	%100
12	M22	Z	0	0	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	0	0	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	0	0	0	%100
17	M27	X	-22.842	-22.842	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	-22.842	-22.842	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	-22.842	-22.842	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	-22.842	-22.842	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	-22.842	-22.842	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	-22.842	-22.842	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	-22.842	-22.842	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	-22.842	-22.842	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	0	0	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	0	0	0	%100
37	MP4A	X	-9.042	-9.042	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-9.042	-9.042	0	%100
40	MP3A	Z	0	0	0	%100
41	MP1A	X	-9.042	-9.042	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	0	0	0	%100
43	MP2A	X	-9.042	-9.042	0	%100
44	MP2A	Z	0	0	0	%100
45	M46	X	-1.389	-1.389	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	-4.11	-4.11	0	%100
48	M47	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.958	-1.958	0	%100
2	M1	Z	-1.13	-1.13	0	%100
3	M2	X	-1.958	-1.958	0	%100
4	M2	Z	-1.13	-1.13	0	%100
5	RCP	X	-4.937	-4.937	0	%100
6	RCP	Z	-2.85	-2.85	0	%100
7	M18	X	-4.937	-4.937	0	%100
8	M18	Z	-2.85	-2.85	0	%100
9	M19	X	-2.473	-2.473	0	%100
10	M19	Z	-1.428	-1.428	0	%100
11	M22	X	-9.128	-9.128	0	%100
12	M22	Z	-5.27	-5.27	0	%100
13	M25	X	-4.945	-4.945	0	%100
14	M25	Z	-2.855	-2.855	0	%100
15	M26	X	-4.945	-4.945	0	%100
16	M26	Z	-2.855	-2.855	0	%100
17	M27	X	-14.836	-14.836	0	%100
18	M27	Z	-8.566	-8.566	0	%100
19	M28	X	-14.836	-14.836	0	%100
20	M28	Z	-8.566	-8.566	0	%100
21	M29	X	-14.836	-14.836	0	%100
22	M29	Z	-8.566	-8.566	0	%100
23	M30	X	-14.836	-14.836	0	%100
24	M30	Z	-8.566	-8.566	0	%100
25	M35	X	-14.836	-14.836	0	%100
26	M35	Z	-8.566	-8.566	0	%100
27	M36	X	-14.836	-14.836	0	%100
28	M36	Z	-8.566	-8.566	0	%100
29	M37	X	-14.836	-14.836	0	%100
30	M37	Z	-8.566	-8.566	0	%100
31	M38	X	-14.836	-14.836	0	%100
32	M38	Z	-8.566	-8.566	0	%100
33	M39	X	-4.945	-4.945	0	%100
34	M39	Z	-2.855	-2.855	0	%100
35	M40	X	-4.945	-4.945	0	%100
36	M40	Z	-2.855	-2.855	0	%100
37	MP4A	X	-7.83	-7.83	0	%100
38	MP4A	Z	-4.521	-4.521	0	%100
39	MP3A	X	-7.83	-7.83	0	%100
40	MP3A	Z	-4.521	-4.521	0	%100
41	MP1A	X	-7.83	-7.83	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-4.521	-4.521	0	%100
43	MP2A	X	-7.83	-7.83	0	%100
44	MP2A	Z	-4.521	-4.521	0	%100
45	M46	X	-.031	-.031	0	%100
46	M46	Z	-.018	-.018	0	%100
47	M47	X	-.659	-.659	0	%100
48	M47	Z	-.38	-.38	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.391	-3.391	0	%100
2	M1	Z	-5.873	-5.873	0	%100
3	M2	X	-3.391	-3.391	0	%100
4	M2	Z	-5.873	-5.873	0	%100
5	RCP	X	-.95	-.95	0	%100
6	RCP	Z	-1.646	-1.646	0	%100
7	M18	X	-.95	-.95	0	%100
8	M18	Z	-1.646	-1.646	0	%100
9	M19	X	-1.428	-1.428	0	%100
10	M19	Z	-2.473	-2.473	0	%100
11	M22	X	-5.27	-5.27	0	%100
12	M22	Z	-9.128	-9.128	0	%100
13	M25	X	-8.566	-8.566	0	%100
14	M25	Z	-14.836	-14.836	0	%100
15	M26	X	-8.566	-8.566	0	%100
16	M26	Z	-14.836	-14.836	0	%100
17	M27	X	-2.855	-2.855	0	%100
18	M27	Z	-4.945	-4.945	0	%100
19	M28	X	-2.855	-2.855	0	%100
20	M28	Z	-4.945	-4.945	0	%100
21	M29	X	-2.855	-2.855	0	%100
22	M29	Z	-4.945	-4.945	0	%100
23	M30	X	-2.855	-2.855	0	%100
24	M30	Z	-4.945	-4.945	0	%100
25	M35	X	-2.855	-2.855	0	%100
26	M35	Z	-4.945	-4.945	0	%100
27	M36	X	-2.855	-2.855	0	%100
28	M36	Z	-4.945	-4.945	0	%100
29	M37	X	-2.855	-2.855	0	%100
30	M37	Z	-4.945	-4.945	0	%100
31	M38	X	-2.855	-2.855	0	%100
32	M38	Z	-4.945	-4.945	0	%100
33	M39	X	-8.566	-8.566	0	%100
34	M39	Z	-14.836	-14.836	0	%100
35	M40	X	-8.566	-8.566	0	%100
36	M40	Z	-14.836	-14.836	0	%100
37	MP4A	X	-4.521	-4.521	0	%100
38	MP4A	Z	-7.83	-7.83	0	%100
39	MP3A	X	-4.521	-4.521	0	%100
40	MP3A	Z	-7.83	-7.83	0	%100
41	MP1A	X	-4.521	-4.521	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-7.83	-7.83	0	%100
43	MP2A	X	-4.521	-4.521	0	%100
44	MP2A	Z	-7.83	-7.83	0	%100
45	M46	X	-1.132	-1.132	0	%100
46	M46	Z	-1.96	-1.96	0	%100
47	M47	X	-.134	-.134	0	%100
48	M47	Z	-.231	-.231	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-2.255	-2.255	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-2.255	-2.255	0	%100
5	RCP	X	0	0	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	0	0	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	0	0	0	%100
10	M19	Z	-1.225	-1.225	0	%100
11	M22	X	0	0	0	%100
12	M22	Z	-2.347	-2.347	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	-3.553	-3.553	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	-3.553	-3.553	0	%100
17	M27	X	0	0	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	0	0	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	0	0	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	0	0	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	0	0	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	-3.562	-3.562	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	-3.562	-3.562	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-2.255	-2.255	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-2.255	-2.255	0	%100
41	MP1A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-2.255	-2.255	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	-2.255	-2.255	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	-1.639	-1.639	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	-.876	-.876	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.846	.846	0	%100
2	M1	Z	-1.465	-1.465	0	%100
3	M2	X	.846	.846	0	%100
4	M2	Z	-1.465	-1.465	0	%100
5	RCP	X	.222	.222	0	%100
6	RCP	Z	-.385	-.385	0	%100
7	M18	X	.222	.222	0	%100
8	M18	Z	-.385	-.385	0	%100
9	M19	X	.613	.613	0	%100
10	M19	Z	-1.061	-1.061	0	%100
11	M22	X	1.174	1.174	0	%100
12	M22	Z	-2.033	-2.033	0	%100
13	M25	X	1.332	1.332	0	%100
14	M25	Z	-2.308	-2.308	0	%100
15	M26	X	1.332	1.332	0	%100
16	M26	Z	-2.308	-2.308	0	%100
17	M27	X	.44	.44	0	%100
18	M27	Z	-.762	-.762	0	%100
19	M28	X	.44	.44	0	%100
20	M28	Z	-.762	-.762	0	%100
21	M29	X	.44	.44	0	%100
22	M29	Z	-.762	-.762	0	%100
23	M30	X	.44	.44	0	%100
24	M30	Z	-.762	-.762	0	%100
25	M35	X	.44	.44	0	%100
26	M35	Z	-.762	-.762	0	%100
27	M36	X	.44	.44	0	%100
28	M36	Z	-.762	-.762	0	%100
29	M37	X	.44	.44	0	%100
30	M37	Z	-.762	-.762	0	%100
31	M38	X	.44	.44	0	%100
32	M38	Z	-.762	-.762	0	%100
33	M39	X	1.336	1.336	0	%100
34	M39	Z	-2.314	-2.314	0	%100
35	M40	X	1.336	1.336	0	%100
36	M40	Z	-2.314	-2.314	0	%100
37	MP4A	X	1.128	1.128	0	%100
38	MP4A	Z	-1.953	-1.953	0	%100
39	MP3A	X	1.128	1.128	0	%100
40	MP3A	Z	-1.953	-1.953	0	%100
41	MP1A	X	1.128	1.128	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-1.953	-1.953	0	%100
43	MP2A	X	1.128	1.128	0	%100
44	MP2A	Z	-1.953	-1.953	0	%100
45	M46	X	1.009	1.009	0	%100
46	M46	Z	-1.748	-1.748	0	%100
47	M47	X	.908	.908	0	%100
48	M47	Z	-1.572	-1.572	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.488	.488	0	%100
2	M1	Z	-.282	-.282	0	%100
3	M2	X	.488	.488	0	%100
4	M2	Z	-.282	-.282	0	%100
5	RCP	X	1.154	1.154	0	%100
6	RCP	Z	-.666	-.666	0	%100
7	M18	X	1.154	1.154	0	%100
8	M18	Z	-.666	-.666	0	%100
9	M19	X	1.061	1.061	0	%100
10	M19	Z	-.613	-.613	0	%100
11	M22	X	2.033	2.033	0	%100
12	M22	Z	-1.174	-1.174	0	%100
13	M25	X	.769	.769	0	%100
14	M25	Z	-.444	-.444	0	%100
15	M26	X	.769	.769	0	%100
16	M26	Z	-.444	-.444	0	%100
17	M27	X	2.285	2.285	0	%100
18	M27	Z	-1.319	-1.319	0	%100
19	M28	X	2.285	2.285	0	%100
20	M28	Z	-1.319	-1.319	0	%100
21	M29	X	2.285	2.285	0	%100
22	M29	Z	-1.319	-1.319	0	%100
23	M30	X	2.285	2.285	0	%100
24	M30	Z	-1.319	-1.319	0	%100
25	M35	X	2.285	2.285	0	%100
26	M35	Z	-1.319	-1.319	0	%100
27	M36	X	2.285	2.285	0	%100
28	M36	Z	-1.319	-1.319	0	%100
29	M37	X	2.285	2.285	0	%100
30	M37	Z	-1.319	-1.319	0	%100
31	M38	X	2.285	2.285	0	%100
32	M38	Z	-1.319	-1.319	0	%100
33	M39	X	.771	.771	0	%100
34	M39	Z	-.445	-.445	0	%100
35	M40	X	.771	.771	0	%100
36	M40	Z	-.445	-.445	0	%100
37	MP4A	X	1.953	1.953	0	%100
38	MP4A	Z	-1.128	-1.128	0	%100
39	MP3A	X	1.953	1.953	0	%100
40	MP3A	Z	-1.128	-1.128	0	%100
41	MP1A	X	1.953	1.953	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-1.128	-1.128	0	%100
43	MP2A	X	1.953	1.953	0	%100
44	MP2A	Z	-1.128	-1.128	0	%100
45	M46	X	1.207	1.207	0	%100
46	M46	Z	-.697	-.697	0	%100
47	M47	X	1.692	1.692	0	%100
48	M47	Z	-.977	-.977	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	RCP	X	1.776	1.776	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	1.776	1.776	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	1.225	1.225	0	%100
10	M19	Z	0	0	0	%100
11	M22	X	2.347	2.347	0	%100
12	M22	Z	0	0	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	0	0	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	0	0	0	%100
17	M27	X	3.518	3.518	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	3.518	3.518	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	3.518	3.518	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	3.518	3.518	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	3.518	3.518	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	3.518	3.518	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	3.518	3.518	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	3.518	3.518	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	0	0	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	0	0	0	%100
37	MP4A	X	2.255	2.255	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	2.255	2.255	0	%100
40	MP3A	Z	0	0	0	%100
41	MP1A	X	2.255	2.255	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	0	0	0	%100
43	MP2A	X	2.255	2.255	0	%100
44	MP2A	Z	0	0	0	%100
45	M46	X	.39	.39	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	1.153	1.153	0	%100
48	M47	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.488	.488	0	%100
2	M1	Z	.282	.282	0	%100
3	M2	X	.488	.488	0	%100
4	M2	Z	.282	.282	0	%100
5	RCP	X	1.154	1.154	0	%100
6	RCP	Z	.666	.666	0	%100
7	M18	X	1.154	1.154	0	%100
8	M18	Z	.666	.666	0	%100
9	M19	X	1.061	1.061	0	%100
10	M19	Z	.613	.613	0	%100
11	M22	X	2.033	2.033	0	%100
12	M22	Z	1.174	1.174	0	%100
13	M25	X	.769	.769	0	%100
14	M25	Z	.444	.444	0	%100
15	M26	X	.769	.769	0	%100
16	M26	Z	.444	.444	0	%100
17	M27	X	2.285	2.285	0	%100
18	M27	Z	1.319	1.319	0	%100
19	M28	X	2.285	2.285	0	%100
20	M28	Z	1.319	1.319	0	%100
21	M29	X	2.285	2.285	0	%100
22	M29	Z	1.319	1.319	0	%100
23	M30	X	2.285	2.285	0	%100
24	M30	Z	1.319	1.319	0	%100
25	M35	X	2.285	2.285	0	%100
26	M35	Z	1.319	1.319	0	%100
27	M36	X	2.285	2.285	0	%100
28	M36	Z	1.319	1.319	0	%100
29	M37	X	2.285	2.285	0	%100
30	M37	Z	1.319	1.319	0	%100
31	M38	X	2.285	2.285	0	%100
32	M38	Z	1.319	1.319	0	%100
33	M39	X	.771	.771	0	%100
34	M39	Z	.445	.445	0	%100
35	M40	X	.771	.771	0	%100
36	M40	Z	.445	.445	0	%100
37	MP4A	X	1.953	1.953	0	%100
38	MP4A	Z	1.128	1.128	0	%100
39	MP3A	X	1.953	1.953	0	%100
40	MP3A	Z	1.128	1.128	0	%100
41	MP1A	X	1.953	1.953	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	1.128	1.128	0	%100
43	MP2A	X	1.953	1.953	0	%100
44	MP2A	Z	1.128	1.128	0	%100
45	M46	X	.009	.009	0	%100
46	M46	Z	.005	.005	0	%100
47	M47	X	.185	.185	0	%100
48	M47	Z	.107	.107	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.846	.846	0	%100
2	M1	Z	1.465	1.465	0	%100
3	M2	X	.846	.846	0	%100
4	M2	Z	1.465	1.465	0	%100
5	RCP	X	.222	.222	0	%100
6	RCP	Z	.385	.385	0	%100
7	M18	X	.222	.222	0	%100
8	M18	Z	.385	.385	0	%100
9	M19	X	.613	.613	0	%100
10	M19	Z	1.061	1.061	0	%100
11	M22	X	1.174	1.174	0	%100
12	M22	Z	2.033	2.033	0	%100
13	M25	X	1.332	1.332	0	%100
14	M25	Z	2.308	2.308	0	%100
15	M26	X	1.332	1.332	0	%100
16	M26	Z	2.308	2.308	0	%100
17	M27	X	.44	.44	0	%100
18	M27	Z	.762	.762	0	%100
19	M28	X	.44	.44	0	%100
20	M28	Z	.762	.762	0	%100
21	M29	X	.44	.44	0	%100
22	M29	Z	.762	.762	0	%100
23	M30	X	.44	.44	0	%100
24	M30	Z	.762	.762	0	%100
25	M35	X	.44	.44	0	%100
26	M35	Z	.762	.762	0	%100
27	M36	X	.44	.44	0	%100
28	M36	Z	.762	.762	0	%100
29	M37	X	.44	.44	0	%100
30	M37	Z	.762	.762	0	%100
31	M38	X	.44	.44	0	%100
32	M38	Z	.762	.762	0	%100
33	M39	X	1.336	1.336	0	%100
34	M39	Z	2.314	2.314	0	%100
35	M40	X	1.336	1.336	0	%100
36	M40	Z	2.314	2.314	0	%100
37	MP4A	X	1.128	1.128	0	%100
38	MP4A	Z	1.953	1.953	0	%100
39	MP3A	X	1.128	1.128	0	%100
40	MP3A	Z	1.953	1.953	0	%100
41	MP1A	X	1.128	1.128	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	1.953	1.953	0	%100
43	MP2A	X	1.128	1.128	0	%100
44	MP2A	Z	1.953	1.953	0	%100
45	M46	X	.317	.317	0	%100
46	M46	Z	.55	.55	0	%100
47	M47	X	.037	.037	0	%100
48	M47	Z	.065	.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	2.255	2.255	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	2.255	2.255	0	%100
5	RCP	X	0	0	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	0	0	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	0	0	0	%100
10	M19	Z	1.225	1.225	0	%100
11	M22	X	0	0	0	%100
12	M22	Z	2.347	2.347	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	3.553	3.553	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	3.553	3.553	0	%100
17	M27	X	0	0	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	0	0	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	0	0	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	0	0	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	0	0	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	3.562	3.562	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	3.562	3.562	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	2.255	2.255	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	2.255	2.255	0	%100
41	MP1A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	2.255	2.255	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	2.255	2.255	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	1.639	1.639	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	.876	.876	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.846	-.846	0	%100
2	M1	Z	1.465	1.465	0	%100
3	M2	X	-.846	-.846	0	%100
4	M2	Z	1.465	1.465	0	%100
5	RCP	X	-.222	-.222	0	%100
6	RCP	Z	.385	.385	0	%100
7	M18	X	-.222	-.222	0	%100
8	M18	Z	.385	.385	0	%100
9	M19	X	-.613	-.613	0	%100
10	M19	Z	1.061	1.061	0	%100
11	M22	X	-1.174	-1.174	0	%100
12	M22	Z	2.033	2.033	0	%100
13	M25	X	-1.332	-1.332	0	%100
14	M25	Z	2.308	2.308	0	%100
15	M26	X	-1.332	-1.332	0	%100
16	M26	Z	2.308	2.308	0	%100
17	M27	X	-.44	-.44	0	%100
18	M27	Z	.762	.762	0	%100
19	M28	X	-.44	-.44	0	%100
20	M28	Z	.762	.762	0	%100
21	M29	X	-.44	-.44	0	%100
22	M29	Z	.762	.762	0	%100
23	M30	X	-.44	-.44	0	%100
24	M30	Z	.762	.762	0	%100
25	M35	X	-.44	-.44	0	%100
26	M35	Z	.762	.762	0	%100
27	M36	X	-.44	-.44	0	%100
28	M36	Z	.762	.762	0	%100
29	M37	X	-.44	-.44	0	%100
30	M37	Z	.762	.762	0	%100
31	M38	X	-.44	-.44	0	%100
32	M38	Z	.762	.762	0	%100
33	M39	X	-1.336	-1.336	0	%100
34	M39	Z	2.314	2.314	0	%100
35	M40	X	-1.336	-1.336	0	%100
36	M40	Z	2.314	2.314	0	%100
37	MP4A	X	-1.128	-1.128	0	%100
38	MP4A	Z	1.953	1.953	0	%100
39	MP3A	X	-1.128	-1.128	0	%100
40	MP3A	Z	1.953	1.953	0	%100
41	MP1A	X	-1.128	-1.128	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	1.953	1.953	0	%100
43	MP2A	X	-1.128	-1.128	0	%100
44	MP2A	Z	1.953	1.953	0	%100
45	M46	X	-1.009	-1.009	0	%100
46	M46	Z	1.748	1.748	0	%100
47	M47	X	-.908	-.908	0	%100
48	M47	Z	1.572	1.572	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.488	-.488	0	%100
2	M1	Z	.282	.282	0	%100
3	M2	X	-.488	-.488	0	%100
4	M2	Z	.282	.282	0	%100
5	RCP	X	-1.154	-1.154	0	%100
6	RCP	Z	.666	.666	0	%100
7	M18	X	-1.154	-1.154	0	%100
8	M18	Z	.666	.666	0	%100
9	M19	X	-1.061	-1.061	0	%100
10	M19	Z	.613	.613	0	%100
11	M22	X	-2.033	-2.033	0	%100
12	M22	Z	1.174	1.174	0	%100
13	M25	X	-.769	-.769	0	%100
14	M25	Z	.444	.444	0	%100
15	M26	X	-.769	-.769	0	%100
16	M26	Z	.444	.444	0	%100
17	M27	X	-2.285	-2.285	0	%100
18	M27	Z	1.319	1.319	0	%100
19	M28	X	-2.285	-2.285	0	%100
20	M28	Z	1.319	1.319	0	%100
21	M29	X	-2.285	-2.285	0	%100
22	M29	Z	1.319	1.319	0	%100
23	M30	X	-2.285	-2.285	0	%100
24	M30	Z	1.319	1.319	0	%100
25	M35	X	-2.285	-2.285	0	%100
26	M35	Z	1.319	1.319	0	%100
27	M36	X	-2.285	-2.285	0	%100
28	M36	Z	1.319	1.319	0	%100
29	M37	X	-2.285	-2.285	0	%100
30	M37	Z	1.319	1.319	0	%100
31	M38	X	-2.285	-2.285	0	%100
32	M38	Z	1.319	1.319	0	%100
33	M39	X	-.771	-.771	0	%100
34	M39	Z	.445	.445	0	%100
35	M40	X	-.771	-.771	0	%100
36	M40	Z	.445	.445	0	%100
37	MP4A	X	-1.953	-1.953	0	%100
38	MP4A	Z	1.128	1.128	0	%100
39	MP3A	X	-1.953	-1.953	0	%100
40	MP3A	Z	1.128	1.128	0	%100
41	MP1A	X	-1.953	-1.953	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	1.128	1.128	0	%100
43	MP2A	X	-1.953	-1.953	0	%100
44	MP2A	Z	1.128	1.128	0	%100
45	M46	X	-1.207	-1.207	0	%100
46	M46	Z	.697	.697	0	%100
47	M47	X	-1.692	-1.692	0	%100
48	M47	Z	.977	.977	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	RCP	X	-1.776	-1.776	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	-1.776	-1.776	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	-1.225	-1.225	0	%100
10	M19	Z	0	0	0	%100
11	M22	X	-2.347	-2.347	0	%100
12	M22	Z	0	0	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	0	0	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	0	0	0	%100
17	M27	X	-3.518	-3.518	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	-3.518	-3.518	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	-3.518	-3.518	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	-3.518	-3.518	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	-3.518	-3.518	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	-3.518	-3.518	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	-3.518	-3.518	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	-3.518	-3.518	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	0	0	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	0	0	0	%100
37	MP4A	X	-2.255	-2.255	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-2.255	-2.255	0	%100
40	MP3A	Z	0	0	0	%100
41	MP1A	X	-2.255	-2.255	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	0	0	0	%100
43	MP2A	X	-2.255	-2.255	0	%100
44	MP2A	Z	0	0	0	%100
45	M46	X	-.39	-.39	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	-1.153	-1.153	0	%100
48	M47	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.488	-.488	0	%100
2	M1	Z	-.282	-.282	0	%100
3	M2	X	-.488	-.488	0	%100
4	M2	Z	-.282	-.282	0	%100
5	RCP	X	-1.154	-1.154	0	%100
6	RCP	Z	-.666	-.666	0	%100
7	M18	X	-1.154	-1.154	0	%100
8	M18	Z	-.666	-.666	0	%100
9	M19	X	-1.061	-1.061	0	%100
10	M19	Z	-.613	-.613	0	%100
11	M22	X	-2.033	-2.033	0	%100
12	M22	Z	-1.174	-1.174	0	%100
13	M25	X	-.769	-.769	0	%100
14	M25	Z	-.444	-.444	0	%100
15	M26	X	-.769	-.769	0	%100
16	M26	Z	-.444	-.444	0	%100
17	M27	X	-2.285	-2.285	0	%100
18	M27	Z	-1.319	-1.319	0	%100
19	M28	X	-2.285	-2.285	0	%100
20	M28	Z	-1.319	-1.319	0	%100
21	M29	X	-2.285	-2.285	0	%100
22	M29	Z	-1.319	-1.319	0	%100
23	M30	X	-2.285	-2.285	0	%100
24	M30	Z	-1.319	-1.319	0	%100
25	M35	X	-2.285	-2.285	0	%100
26	M35	Z	-1.319	-1.319	0	%100
27	M36	X	-2.285	-2.285	0	%100
28	M36	Z	-1.319	-1.319	0	%100
29	M37	X	-2.285	-2.285	0	%100
30	M37	Z	-1.319	-1.319	0	%100
31	M38	X	-2.285	-2.285	0	%100
32	M38	Z	-1.319	-1.319	0	%100
33	M39	X	-.771	-.771	0	%100
34	M39	Z	-.445	-.445	0	%100
35	M40	X	-.771	-.771	0	%100
36	M40	Z	-.445	-.445	0	%100
37	MP4A	X	-1.953	-1.953	0	%100
38	MP4A	Z	-1.128	-1.128	0	%100
39	MP3A	X	-1.953	-1.953	0	%100
40	MP3A	Z	-1.128	-1.128	0	%100
41	MP1A	X	-1.953	-1.953	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-1.128	-1.128	0	%100
43	MP2A	X	-1.953	-1.953	0	%100
44	MP2A	Z	-1.128	-1.128	0	%100
45	M46	X	-.009	-.009	0	%100
46	M46	Z	-.005	-.005	0	%100
47	M47	X	-.185	-.185	0	%100
48	M47	Z	-.107	-.107	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.846	-.846	0	%100
2	M1	Z	-1.465	-1.465	0	%100
3	M2	X	-.846	-.846	0	%100
4	M2	Z	-1.465	-1.465	0	%100
5	RCP	X	-.222	-.222	0	%100
6	RCP	Z	-.385	-.385	0	%100
7	M18	X	-.222	-.222	0	%100
8	M18	Z	-.385	-.385	0	%100
9	M19	X	-.613	-.613	0	%100
10	M19	Z	-1.061	-1.061	0	%100
11	M22	X	-1.174	-1.174	0	%100
12	M22	Z	-2.033	-2.033	0	%100
13	M25	X	-1.332	-1.332	0	%100
14	M25	Z	-2.308	-2.308	0	%100
15	M26	X	-1.332	-1.332	0	%100
16	M26	Z	-2.308	-2.308	0	%100
17	M27	X	-.44	-.44	0	%100
18	M27	Z	-.762	-.762	0	%100
19	M28	X	-.44	-.44	0	%100
20	M28	Z	-.762	-.762	0	%100
21	M29	X	-.44	-.44	0	%100
22	M29	Z	-.762	-.762	0	%100
23	M30	X	-.44	-.44	0	%100
24	M30	Z	-.762	-.762	0	%100
25	M35	X	-.44	-.44	0	%100
26	M35	Z	-.762	-.762	0	%100
27	M36	X	-.44	-.44	0	%100
28	M36	Z	-.762	-.762	0	%100
29	M37	X	-.44	-.44	0	%100
30	M37	Z	-.762	-.762	0	%100
31	M38	X	-.44	-.44	0	%100
32	M38	Z	-.762	-.762	0	%100
33	M39	X	-1.336	-1.336	0	%100
34	M39	Z	-2.314	-2.314	0	%100
35	M40	X	-1.336	-1.336	0	%100
36	M40	Z	-2.314	-2.314	0	%100
37	MP4A	X	-1.128	-1.128	0	%100
38	MP4A	Z	-1.953	-1.953	0	%100
39	MP3A	X	-1.128	-1.128	0	%100
40	MP3A	Z	-1.953	-1.953	0	%100
41	MP1A	X	-1.128	-1.128	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-1.953	-1.953	0	%100
43	MP2A	X	-1.128	-1.128	0	%100
44	MP2A	Z	-1.953	-1.953	0	%100
45	M46	X	-.317	-.317	0	%100
46	M46	Z	-.55	-.55	0	%100
47	M47	X	-.037	-.037	0	%100
48	M47	Z	-.065	-.065	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.637	-.637	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.637	-.637	0	%100
5	RCP	X	0	0	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	0	0	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	0	0	0	%100
10	M19	Z	-.201	-.201	0	%100
11	M22	X	0	0	0	%100
12	M22	Z	-.743	-.743	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	-1.61	-1.61	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	-1.61	-1.61	0	%100
17	M27	X	0	0	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	0	0	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	0	0	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	0	0	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	0	0	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	-1.61	-1.61	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	-1.61	-1.61	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.637	-.637	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-.637	-.637	0	%100
41	MP1A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-.637	-.637	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	-.637	-.637	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	-.412	-.412	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	-.22	-.22	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.239	.239	0	%100
2	M1	Z	-.414	-.414	0	%100
3	M2	X	.239	.239	0	%100
4	M2	Z	-.414	-.414	0	%100
5	RCP	X	.067	.067	0	%100
6	RCP	Z	-.116	-.116	0	%100
7	M18	X	.067	.067	0	%100
8	M18	Z	-.116	-.116	0	%100
9	M19	X	.101	.101	0	%100
10	M19	Z	-.174	-.174	0	%100
11	M22	X	.371	.371	0	%100
12	M22	Z	-.643	-.643	0	%100
13	M25	X	.604	.604	0	%100
14	M25	Z	-1.046	-1.046	0	%100
15	M26	X	.604	.604	0	%100
16	M26	Z	-1.046	-1.046	0	%100
17	M27	X	.201	.201	0	%100
18	M27	Z	-.349	-.349	0	%100
19	M28	X	.201	.201	0	%100
20	M28	Z	-.349	-.349	0	%100
21	M29	X	.201	.201	0	%100
22	M29	Z	-.349	-.349	0	%100
23	M30	X	.201	.201	0	%100
24	M30	Z	-.349	-.349	0	%100
25	M35	X	.201	.201	0	%100
26	M35	Z	-.349	-.349	0	%100
27	M36	X	.201	.201	0	%100
28	M36	Z	-.349	-.349	0	%100
29	M37	X	.201	.201	0	%100
30	M37	Z	-.349	-.349	0	%100
31	M38	X	.201	.201	0	%100
32	M38	Z	-.349	-.349	0	%100
33	M39	X	.604	.604	0	%100
34	M39	Z	-1.046	-1.046	0	%100
35	M40	X	.604	.604	0	%100
36	M40	Z	-1.046	-1.046	0	%100
37	MP4A	X	.319	.319	0	%100
38	MP4A	Z	-.552	-.552	0	%100
39	MP3A	X	.319	.319	0	%100
40	MP3A	Z	-.552	-.552	0	%100
41	MP1A	X	.319	.319	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-.552	-.552	0	%100
43	MP2A	X	.319	.319	0	%100
44	MP2A	Z	-.552	-.552	0	%100
45	M46	X	.254	.254	0	%100
46	M46	Z	-.439	-.439	0	%100
47	M47	X	.228	.228	0	%100
48	M47	Z	-.395	-.395	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.138	.138	0	%100
2	M1	Z	-.08	-.08	0	%100
3	M2	X	.138	.138	0	%100
4	M2	Z	-.08	-.08	0	%100
5	RCP	X	.348	.348	0	%100
6	RCP	Z	-.201	-.201	0	%100
7	M18	X	.348	.348	0	%100
8	M18	Z	-.201	-.201	0	%100
9	M19	X	.174	.174	0	%100
10	M19	Z	-.101	-.101	0	%100
11	M22	X	.643	.643	0	%100
12	M22	Z	-.371	-.371	0	%100
13	M25	X	.349	.349	0	%100
14	M25	Z	-.201	-.201	0	%100
15	M26	X	.349	.349	0	%100
16	M26	Z	-.201	-.201	0	%100
17	M27	X	1.046	1.046	0	%100
18	M27	Z	-.604	-.604	0	%100
19	M28	X	1.046	1.046	0	%100
20	M28	Z	-.604	-.604	0	%100
21	M29	X	1.046	1.046	0	%100
22	M29	Z	-.604	-.604	0	%100
23	M30	X	1.046	1.046	0	%100
24	M30	Z	-.604	-.604	0	%100
25	M35	X	1.046	1.046	0	%100
26	M35	Z	-.604	-.604	0	%100
27	M36	X	1.046	1.046	0	%100
28	M36	Z	-.604	-.604	0	%100
29	M37	X	1.046	1.046	0	%100
30	M37	Z	-.604	-.604	0	%100
31	M38	X	1.046	1.046	0	%100
32	M38	Z	-.604	-.604	0	%100
33	M39	X	.349	.349	0	%100
34	M39	Z	-.201	-.201	0	%100
35	M40	X	.349	.349	0	%100
36	M40	Z	-.201	-.201	0	%100
37	MP4A	X	.552	.552	0	%100
38	MP4A	Z	-.319	-.319	0	%100
39	MP3A	X	.552	.552	0	%100
40	MP3A	Z	-.319	-.319	0	%100
41	MP1A	X	.552	.552	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-.319	-.319	0	%100
43	MP2A	X	.552	.552	0	%100
44	MP2A	Z	-.319	-.319	0	%100
45	M46	X	.303	.303	0	%100
46	M46	Z	-.175	-.175	0	%100
47	M47	X	.425	.425	0	%100
48	M47	Z	-.245	-.245	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	RCP	X	.536	.536	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	.536	.536	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	.201	.201	0	%100
10	M19	Z	0	0	0	%100
11	M22	X	.743	.743	0	%100
12	M22	Z	0	0	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	0	0	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	0	0	0	%100
17	M27	X	1.61	1.61	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	1.61	1.61	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	1.61	1.61	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	1.61	1.61	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	1.61	1.61	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	1.61	1.61	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	1.61	1.61	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	1.61	1.61	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	0	0	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	0	0	0	%100
37	MP4A	X	.637	.637	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	.637	.637	0	%100
40	MP3A	Z	0	0	0	%100
41	MP1A	X	.637	.637	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	0	0	0	%100
43	MP2A	X	.637	.637	0	%100
44	MP2A	Z	0	0	0	%100
45	M46	X	.098	.098	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	.29	.29	0	%100
48	M47	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.138	.138	0	%100
2	M1	Z	.08	.08	0	%100
3	M2	X	.138	.138	0	%100
4	M2	Z	.08	.08	0	%100
5	RCP	X	.348	.348	0	%100
6	RCP	Z	.201	.201	0	%100
7	M18	X	.348	.348	0	%100
8	M18	Z	.201	.201	0	%100
9	M19	X	.174	.174	0	%100
10	M19	Z	.101	.101	0	%100
11	M22	X	.643	.643	0	%100
12	M22	Z	.371	.371	0	%100
13	M25	X	.349	.349	0	%100
14	M25	Z	.201	.201	0	%100
15	M26	X	.349	.349	0	%100
16	M26	Z	.201	.201	0	%100
17	M27	X	1.046	1.046	0	%100
18	M27	Z	.604	.604	0	%100
19	M28	X	1.046	1.046	0	%100
20	M28	Z	.604	.604	0	%100
21	M29	X	1.046	1.046	0	%100
22	M29	Z	.604	.604	0	%100
23	M30	X	1.046	1.046	0	%100
24	M30	Z	.604	.604	0	%100
25	M35	X	1.046	1.046	0	%100
26	M35	Z	.604	.604	0	%100
27	M36	X	1.046	1.046	0	%100
28	M36	Z	.604	.604	0	%100
29	M37	X	1.046	1.046	0	%100
30	M37	Z	.604	.604	0	%100
31	M38	X	1.046	1.046	0	%100
32	M38	Z	.604	.604	0	%100
33	M39	X	.349	.349	0	%100
34	M39	Z	.201	.201	0	%100
35	M40	X	.349	.349	0	%100
36	M40	Z	.201	.201	0	%100
37	MP4A	X	.552	.552	0	%100
38	MP4A	Z	.319	.319	0	%100
39	MP3A	X	.552	.552	0	%100
40	MP3A	Z	.319	.319	0	%100
41	MP1A	X	.552	.552	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	.319	.319	0	%100
43	MP2A	X	.552	.552	0	%100
44	MP2A	Z	.319	.319	0	%100
45	M46	X	.002	.002	0	%100
46	M46	Z	.001	.001	0	%100
47	M47	X	.046	.046	0	%100
48	M47	Z	.027	.027	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.239	.239	0	%100
2	M1	Z	.414	.414	0	%100
3	M2	X	.239	.239	0	%100
4	M2	Z	.414	.414	0	%100
5	RCP	X	.067	.067	0	%100
6	RCP	Z	.116	.116	0	%100
7	M18	X	.067	.067	0	%100
8	M18	Z	.116	.116	0	%100
9	M19	X	.101	.101	0	%100
10	M19	Z	.174	.174	0	%100
11	M22	X	.371	.371	0	%100
12	M22	Z	.643	.643	0	%100
13	M25	X	.604	.604	0	%100
14	M25	Z	1.046	1.046	0	%100
15	M26	X	.604	.604	0	%100
16	M26	Z	1.046	1.046	0	%100
17	M27	X	.201	.201	0	%100
18	M27	Z	.349	.349	0	%100
19	M28	X	.201	.201	0	%100
20	M28	Z	.349	.349	0	%100
21	M29	X	.201	.201	0	%100
22	M29	Z	.349	.349	0	%100
23	M30	X	.201	.201	0	%100
24	M30	Z	.349	.349	0	%100
25	M35	X	.201	.201	0	%100
26	M35	Z	.349	.349	0	%100
27	M36	X	.201	.201	0	%100
28	M36	Z	.349	.349	0	%100
29	M37	X	.201	.201	0	%100
30	M37	Z	.349	.349	0	%100
31	M38	X	.201	.201	0	%100
32	M38	Z	.349	.349	0	%100
33	M39	X	.604	.604	0	%100
34	M39	Z	1.046	1.046	0	%100
35	M40	X	.604	.604	0	%100
36	M40	Z	1.046	1.046	0	%100
37	MP4A	X	.319	.319	0	%100
38	MP4A	Z	.552	.552	0	%100
39	MP3A	X	.319	.319	0	%100
40	MP3A	Z	.552	.552	0	%100
41	MP1A	X	.319	.319	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	.552	.552	0	%100
43	MP2A	X	.319	.319	0	%100
44	MP2A	Z	.552	.552	0	%100
45	M46	X	.08	.08	0	%100
46	M46	Z	.138	.138	0	%100
47	M47	X	.009	.009	0	%100
48	M47	Z	.016	.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.637	.637	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.637	.637	0	%100
5	RCP	X	0	0	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	0	0	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	0	0	0	%100
10	M19	Z	.201	.201	0	%100
11	M22	X	0	0	0	%100
12	M22	Z	.743	.743	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	1.61	1.61	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	1.61	1.61	0	%100
17	M27	X	0	0	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	0	0	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	0	0	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	0	0	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	0	0	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	0	0	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	0	0	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	1.61	1.61	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	1.61	1.61	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.637	.637	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.637	.637	0	%100
41	MP1A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	.637	.637	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	.637	.637	0	%100
45	M46	X	0	0	0	%100
46	M46	Z	.412	.412	0	%100
47	M47	X	0	0	0	%100
48	M47	Z	.22	.22	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.239	-.239	0	%100
2	M1	Z	.414	.414	0	%100
3	M2	X	-.239	-.239	0	%100
4	M2	Z	.414	.414	0	%100
5	RCP	X	-.067	-.067	0	%100
6	RCP	Z	.116	.116	0	%100
7	M18	X	-.067	-.067	0	%100
8	M18	Z	.116	.116	0	%100
9	M19	X	-.101	-.101	0	%100
10	M19	Z	.174	.174	0	%100
11	M22	X	-.371	-.371	0	%100
12	M22	Z	.643	.643	0	%100
13	M25	X	-.604	-.604	0	%100
14	M25	Z	1.046	1.046	0	%100
15	M26	X	-.604	-.604	0	%100
16	M26	Z	1.046	1.046	0	%100
17	M27	X	-.201	-.201	0	%100
18	M27	Z	.349	.349	0	%100
19	M28	X	-.201	-.201	0	%100
20	M28	Z	.349	.349	0	%100
21	M29	X	-.201	-.201	0	%100
22	M29	Z	.349	.349	0	%100
23	M30	X	-.201	-.201	0	%100
24	M30	Z	.349	.349	0	%100
25	M35	X	-.201	-.201	0	%100
26	M35	Z	.349	.349	0	%100
27	M36	X	-.201	-.201	0	%100
28	M36	Z	.349	.349	0	%100
29	M37	X	-.201	-.201	0	%100
30	M37	Z	.349	.349	0	%100
31	M38	X	-.201	-.201	0	%100
32	M38	Z	.349	.349	0	%100
33	M39	X	-.604	-.604	0	%100
34	M39	Z	1.046	1.046	0	%100
35	M40	X	-.604	-.604	0	%100
36	M40	Z	1.046	1.046	0	%100
37	MP4A	X	-.319	-.319	0	%100
38	MP4A	Z	.552	.552	0	%100
39	MP3A	X	-.319	-.319	0	%100
40	MP3A	Z	.552	.552	0	%100
41	MP1A	X	-.319	-.319	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	.552	.552	0	%100
43	MP2A	X	-.319	-.319	0	%100
44	MP2A	Z	.552	.552	0	%100
45	M46	X	-.254	-.254	0	%100
46	M46	Z	.439	.439	0	%100
47	M47	X	-.228	-.228	0	%100
48	M47	Z	.395	.395	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.138	-.138	0	%100
2	M1	Z	.08	.08	0	%100
3	M2	X	-.138	-.138	0	%100
4	M2	Z	.08	.08	0	%100
5	RCP	X	-.348	-.348	0	%100
6	RCP	Z	.201	.201	0	%100
7	M18	X	-.348	-.348	0	%100
8	M18	Z	.201	.201	0	%100
9	M19	X	-.174	-.174	0	%100
10	M19	Z	.101	.101	0	%100
11	M22	X	-.643	-.643	0	%100
12	M22	Z	.371	.371	0	%100
13	M25	X	-.349	-.349	0	%100
14	M25	Z	.201	.201	0	%100
15	M26	X	-.349	-.349	0	%100
16	M26	Z	.201	.201	0	%100
17	M27	X	-1.046	-1.046	0	%100
18	M27	Z	.604	.604	0	%100
19	M28	X	-1.046	-1.046	0	%100
20	M28	Z	.604	.604	0	%100
21	M29	X	-1.046	-1.046	0	%100
22	M29	Z	.604	.604	0	%100
23	M30	X	-1.046	-1.046	0	%100
24	M30	Z	.604	.604	0	%100
25	M35	X	-1.046	-1.046	0	%100
26	M35	Z	.604	.604	0	%100
27	M36	X	-1.046	-1.046	0	%100
28	M36	Z	.604	.604	0	%100
29	M37	X	-1.046	-1.046	0	%100
30	M37	Z	.604	.604	0	%100
31	M38	X	-1.046	-1.046	0	%100
32	M38	Z	.604	.604	0	%100
33	M39	X	-.349	-.349	0	%100
34	M39	Z	.201	.201	0	%100
35	M40	X	-.349	-.349	0	%100
36	M40	Z	.201	.201	0	%100
37	MP4A	X	-.552	-.552	0	%100
38	MP4A	Z	.319	.319	0	%100
39	MP3A	X	-.552	-.552	0	%100
40	MP3A	Z	.319	.319	0	%100
41	MP1A	X	-.552	-.552	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	.319	.319	0	%100
43	MP2A	X	-.552	-.552	0	%100
44	MP2A	Z	.319	.319	0	%100
45	M46	X	-.303	-.303	0	%100
46	M46	Z	.175	.175	0	%100
47	M47	X	-.425	-.425	0	%100
48	M47	Z	.245	.245	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	RCP	X	-.536	-.536	0	%100
6	RCP	Z	0	0	0	%100
7	M18	X	-.536	-.536	0	%100
8	M18	Z	0	0	0	%100
9	M19	X	-.201	-.201	0	%100
10	M19	Z	0	0	0	%100
11	M22	X	-.743	-.743	0	%100
12	M22	Z	0	0	0	%100
13	M25	X	0	0	0	%100
14	M25	Z	0	0	0	%100
15	M26	X	0	0	0	%100
16	M26	Z	0	0	0	%100
17	M27	X	-1.61	-1.61	0	%100
18	M27	Z	0	0	0	%100
19	M28	X	-1.61	-1.61	0	%100
20	M28	Z	0	0	0	%100
21	M29	X	-1.61	-1.61	0	%100
22	M29	Z	0	0	0	%100
23	M30	X	-1.61	-1.61	0	%100
24	M30	Z	0	0	0	%100
25	M35	X	-1.61	-1.61	0	%100
26	M35	Z	0	0	0	%100
27	M36	X	-1.61	-1.61	0	%100
28	M36	Z	0	0	0	%100
29	M37	X	-1.61	-1.61	0	%100
30	M37	Z	0	0	0	%100
31	M38	X	-1.61	-1.61	0	%100
32	M38	Z	0	0	0	%100
33	M39	X	0	0	0	%100
34	M39	Z	0	0	0	%100
35	M40	X	0	0	0	%100
36	M40	Z	0	0	0	%100
37	MP4A	X	-.637	-.637	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-.637	-.637	0	%100
40	MP3A	Z	0	0	0	%100
41	MP1A	X	-.637	-.637	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	0	0	0	%100
43	MP2A	X	-.637	-.637	0	%100
44	MP2A	Z	0	0	0	%100
45	M46	X	-.098	-.098	0	%100
46	M46	Z	0	0	0	%100
47	M47	X	-.29	-.29	0	%100
48	M47	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.138	-.138	0	%100
2	M1	Z	-.08	-.08	0	%100
3	M2	X	-.138	-.138	0	%100
4	M2	Z	-.08	-.08	0	%100
5	RCP	X	-.348	-.348	0	%100
6	RCP	Z	-.201	-.201	0	%100
7	M18	X	-.348	-.348	0	%100
8	M18	Z	-.201	-.201	0	%100
9	M19	X	-.174	-.174	0	%100
10	M19	Z	-.101	-.101	0	%100
11	M22	X	-.643	-.643	0	%100
12	M22	Z	-.371	-.371	0	%100
13	M25	X	-.349	-.349	0	%100
14	M25	Z	-.201	-.201	0	%100
15	M26	X	-.349	-.349	0	%100
16	M26	Z	-.201	-.201	0	%100
17	M27	X	-1.046	-1.046	0	%100
18	M27	Z	-.604	-.604	0	%100
19	M28	X	-1.046	-1.046	0	%100
20	M28	Z	-.604	-.604	0	%100
21	M29	X	-1.046	-1.046	0	%100
22	M29	Z	-.604	-.604	0	%100
23	M30	X	-1.046	-1.046	0	%100
24	M30	Z	-.604	-.604	0	%100
25	M35	X	-1.046	-1.046	0	%100
26	M35	Z	-.604	-.604	0	%100
27	M36	X	-1.046	-1.046	0	%100
28	M36	Z	-.604	-.604	0	%100
29	M37	X	-1.046	-1.046	0	%100
30	M37	Z	-.604	-.604	0	%100
31	M38	X	-1.046	-1.046	0	%100
32	M38	Z	-.604	-.604	0	%100
33	M39	X	-.349	-.349	0	%100
34	M39	Z	-.201	-.201	0	%100
35	M40	X	-.349	-.349	0	%100
36	M40	Z	-.201	-.201	0	%100
37	MP4A	X	-.552	-.552	0	%100
38	MP4A	Z	-.319	-.319	0	%100
39	MP3A	X	-.552	-.552	0	%100
40	MP3A	Z	-.319	-.319	0	%100
41	MP1A	X	-.552	-.552	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-.319	-.319	0	%100
43	MP2A	X	-.552	-.552	0	%100
44	MP2A	Z	-.319	-.319	0	%100
45	M46	X	-.002	-.002	0	%100
46	M46	Z	-.001	-.001	0	%100
47	M47	X	-.046	-.046	0	%100
48	M47	Z	-.027	-.027	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.239	-.239	0	%100
2	M1	Z	-.414	-.414	0	%100
3	M2	X	-.239	-.239	0	%100
4	M2	Z	-.414	-.414	0	%100
5	RCP	X	-.067	-.067	0	%100
6	RCP	Z	-.116	-.116	0	%100
7	M18	X	-.067	-.067	0	%100
8	M18	Z	-.116	-.116	0	%100
9	M19	X	-.101	-.101	0	%100
10	M19	Z	-.174	-.174	0	%100
11	M22	X	-.371	-.371	0	%100
12	M22	Z	-.643	-.643	0	%100
13	M25	X	-.604	-.604	0	%100
14	M25	Z	-1.046	-1.046	0	%100
15	M26	X	-.604	-.604	0	%100
16	M26	Z	-1.046	-1.046	0	%100
17	M27	X	-.201	-.201	0	%100
18	M27	Z	-.349	-.349	0	%100
19	M28	X	-.201	-.201	0	%100
20	M28	Z	-.349	-.349	0	%100
21	M29	X	-.201	-.201	0	%100
22	M29	Z	-.349	-.349	0	%100
23	M30	X	-.201	-.201	0	%100
24	M30	Z	-.349	-.349	0	%100
25	M35	X	-.201	-.201	0	%100
26	M35	Z	-.349	-.349	0	%100
27	M36	X	-.201	-.201	0	%100
28	M36	Z	-.349	-.349	0	%100
29	M37	X	-.201	-.201	0	%100
30	M37	Z	-.349	-.349	0	%100
31	M38	X	-.201	-.201	0	%100
32	M38	Z	-.349	-.349	0	%100
33	M39	X	-.604	-.604	0	%100
34	M39	Z	-1.046	-1.046	0	%100
35	M40	X	-.604	-.604	0	%100
36	M40	Z	-1.046	-1.046	0	%100
37	MP4A	X	-.319	-.319	0	%100
38	MP4A	Z	-.552	-.552	0	%100
39	MP3A	X	-.319	-.319	0	%100
40	MP3A	Z	-.552	-.552	0	%100
41	MP1A	X	-.319	-.319	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
42	MP1A	Z	-.552	-.552	0	%100
43	MP2A	X	-.319	-.319	0	%100
44	MP2A	Z	-.552	-.552	0	%100
45	M46	X	-.08	-.08	0	%100
46	M46	Z	-.138	-.138	0	%100
47	M47	X	-.009	-.009	0	%100
48	M47	Z	-.016	-.016	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	N71	max	643.38	9	904.514	19	-2.367	1	-.132	1	0	.51	.464	49
2		min	-672.75	3	360.868	1	-1531.321	19	-.33	20	0	1	-.211	44
3	N72	max	583.122	49	927.29	13	1620.032	13	-.138	7	0	.51	.408	49
4		min	-263.767	39	375.599	7	-173.966	7	-.345	13	0	1	-.191	45
5	N87	max	328.212	2	71.393	20	460.757	2	0	51	0	.51	0	51
6		min	-352.008	8	27.717	2	-496.274	8	0	1	0	1	0	1
7	N86	max	637.11	9	28.126	16	313.972	10	0	51	0	.51	0	51
8		min	-692.054	3	7.459	9	-315.146	4	0	1	0	1	0	1
9	Totals:	max	1384.07	9	1917.41	14	1846.389	1						
10		min	-1384.061	3	853.542	8	-1846.342	7						

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

Member	Shape	Code ...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...phi*Pnt [...phi*Mn y...phi*Mn z...Cb	Eqn			
1	M1	PIPE 2.0	.908	6.833	8	.141	6.833	1	5266.471	32130	1.872	1.872	1...H1-1b
2	M2	PIPE 2.0	.813	6.833	8	.162	12.812	8	5266.471	32130	1.872	1.872	1...H1-1b
3	M47	PIPE 1.5	.672	9.677	2	.010	0	21	1278.753	23593.5	1.105	1.105	1...H1-1a
4	M25	PL3/8x6	.608	.417	8	.363	.833	y	4946518.633	72900	.57	9.113	1...H1-1b
5	M26	PL3/8x6	.602	.417	49	.351	.833	y	4946518.633	72900	.57	9.113	1...H1-1b
6	M40	PL3/8x6	.489	.458	13	.412	.458	y	4942330.736	72900	.57	9.113	1...H1-1b
7	M39	PL3/8x6	.456	.458	19	.426	.458	y	4942330.736	72900	.57	9.113	1...H1-1b
8	M18	HSS2.5X2.5...	.445	2.083	14	.179	.521	z	4960770.458	63756	4.554	4.554	1...H1-1b
9	RCP	HSS2.5X2.5...	.411	2.083	32	.183	.521	z	4960770.458	63756	4.554	4.554	1...H1-1b
10	MP1A	PIPE 2.0	.359	3.5	49	.134	1	8	20866.733	32130	1.872	1.872	1...H1-1b
11	MP2A	PIPE 2.0	.339	3.792	24	.154	3.792	2	17855.085	32130	1.872	1.872	1...H1-1b
12	M37	PL3/8x6	.320	.5	8	.204	.208	y	4962014.225	72900	.57	9.113	2...H1-1b
13	M36	PL3/8x6	.315	.5	49	.174	.5	y	4962014.225	72900	.57	9.113	2...H1-1b
14	M22	PIPE 3.0	.309	.708	49	.305	3.208		4959852.693	65205	5.749	5.749	3...H3-6
15	M38	PL3/8x6	.285	.5	49	.195	.5	y	4962014.225	72900	.57	9.113	2...H1-1b
16	MP3A	PIPE 2.0	.273	1	38	.099	3.5	2	20866.733	32130	1.872	1.872	1...H1-1b
17	M35	PL3/8x6	.262	.5	38	.183	.5	y	4962014.225	72900	.57	9.113	2...H1-1b
18	M28	PL3/8x6	.247	0	8	.253	.25	y	4962014.225	72900	.57	9.113	3...H1-1b
19	M29	PL3/8x6	.233	0	36	.182	.25	y	4962014.225	72900	.57	9.113	3...H1-1b
20	M27	PL3/8x6	.216	0	15	.208	0	y	4962014.225	72900	.57	9.113	3.1 H1-1b



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 468204-VZW_MT_LOT_SectorA_H

June 24, 2021
 10:31 PM
 Checked By: _____

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

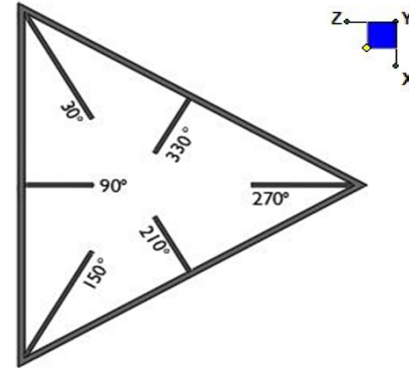
Member	Shape	Code ...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...]	phi*Pnt [...]	phi*Mn y...	phi*Mn z...	Cb	Eqn
21	M30	PL3/8x6	.209	0	38	.228	.25	y	4962014.225	72900	.57	9.113	3...	H1-1b
22	MP4A	PIPE 2.0	.182	2.75	3	.120	3		920866.733	32130	1.872	1.872	2...	H1-1b
23	M46	PIPE 1.5	.085	7.417	9	.004	0		8356.557	23593.5	1.105	1.105	1...	H1-1b*
24	M19	SR 0.75	.033	2.5	12	.077	0		497395.536	14313.866	.179	.179	1...	H1-1b*



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N72	90
N71	90



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch):

d_y (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

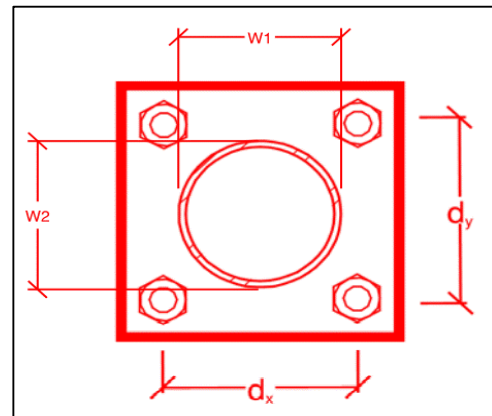
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
5
4
A307
0.5
3.7
3.0
6.4
3.8
14.4%*
19.6%



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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







- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzsmart.com> as depicted on the drawings








Photo Requirements:


- Base and “During Installation Photos”
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
 - Overall tower structure before and after installation of the equipment modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
 - Photos showing each individual sector before and also after installation of equipment.


Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos

 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop

 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present

-  Certifications – Submission of this document including certifications

-  Specific Required Additional Photos

Sector: **A**
 Structure Type: Self Support
 Mount Elev: 167.40

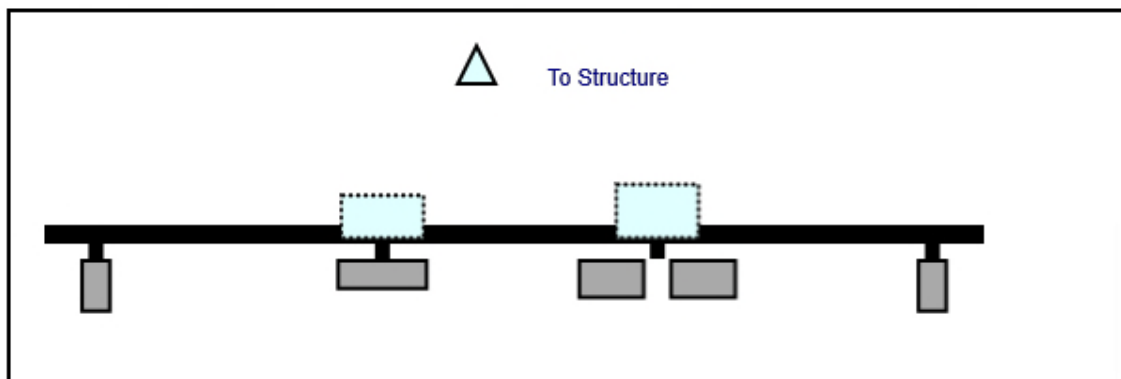
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6/24/2021

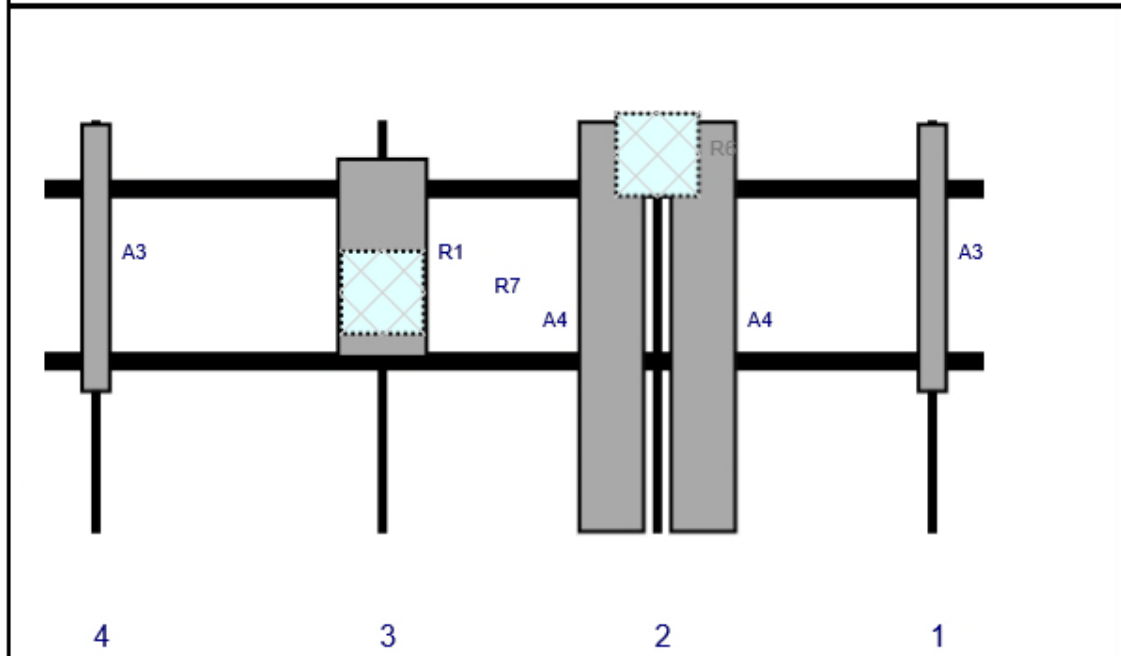
Page: 1



Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LPA-80090/4CF ___	47.2	5.5	155	1	a	Front	24	0	Retained	03/31/2021
A4	NHH-65B-R2B	72	11.9	107	2	a	Front	36	8	Retained	03/31/2021
A4	NHH-65B-R2B	72	11.9	107	2	b	Front	36	-8	Retained	03/31/2021
R6	B2/B66A RRR-BR049	15	15	107	2	a	Behind	6	0	Retained	03/31/2021
R1	MT6407-77A	35.1	16.1	59	3	a	Front	24	0	Added	
R7	B5/B13 RRR-BR04C	15	15	59	3	a	Behind	30	0	Retained	03/31/2021
A3	LPA-80090/4CF ___	47.2	5.5	9	4	a	Front	24	0	Retained	03/31/2021

Sector: **B**
 Structure Type: Self Support
 Mount Elev: 167.40

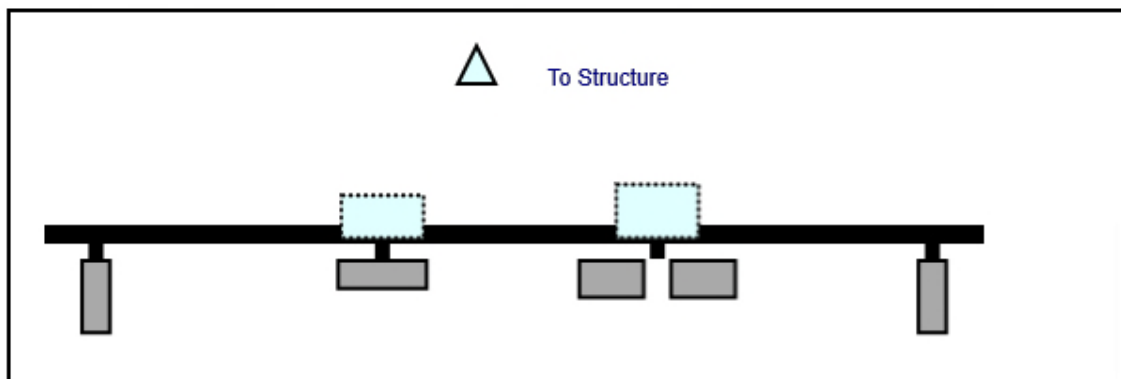
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6/24/2021

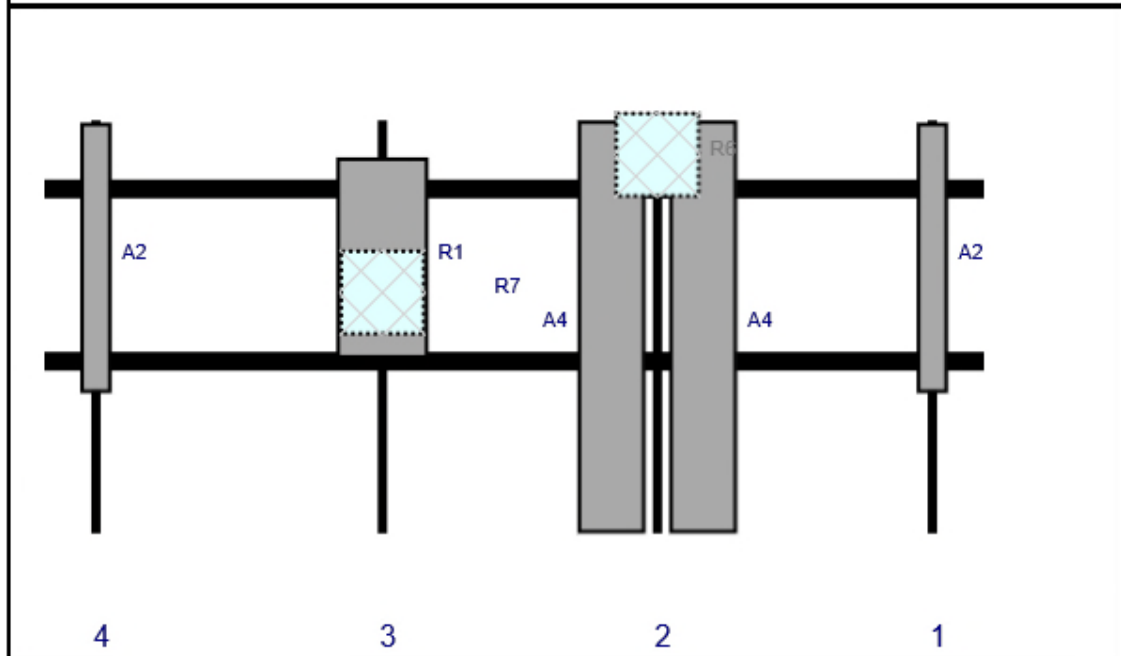
Page: 2



Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	LPA-80080-4CF-EDIN-4	47.2	5.5	155	1	a	Front	24	0	Retained	03/31/2021
A4	NHH-65B-R2B	72	11.9	107	2	a	Front	36	8	Retained	03/31/2021
A4	NHH-65B-R2B	72	11.9	107	2	b	Front	36	-8	Retained	03/31/2021
R6	B2/B66A RRR-BR049	15	15	107	2	a	Behind	6	0	Retained	03/31/2021
R1	MT6407-77A	35.1	16.1	59	3	a	Front	24	0	Added	
R7	B5/B13 RRR-BR04C	15	15	59	3	a	Behind	30	0	Retained	03/31/2021
A2	LPA-80080-4CF-EDIN-4	47.2	5.5	9	4	a	Front	24	0	Retained	03/31/2021

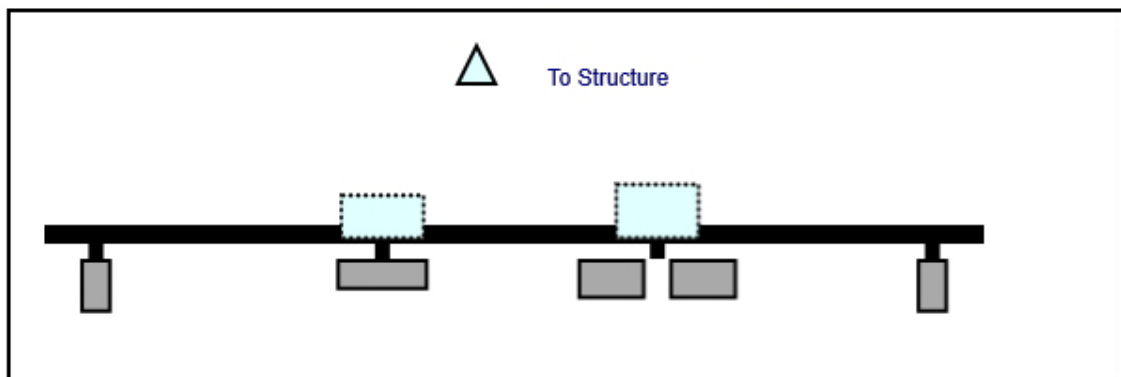
Sector: C
 Structure Type: Self Support
 Mount Elev: 167.40

6/24/2021

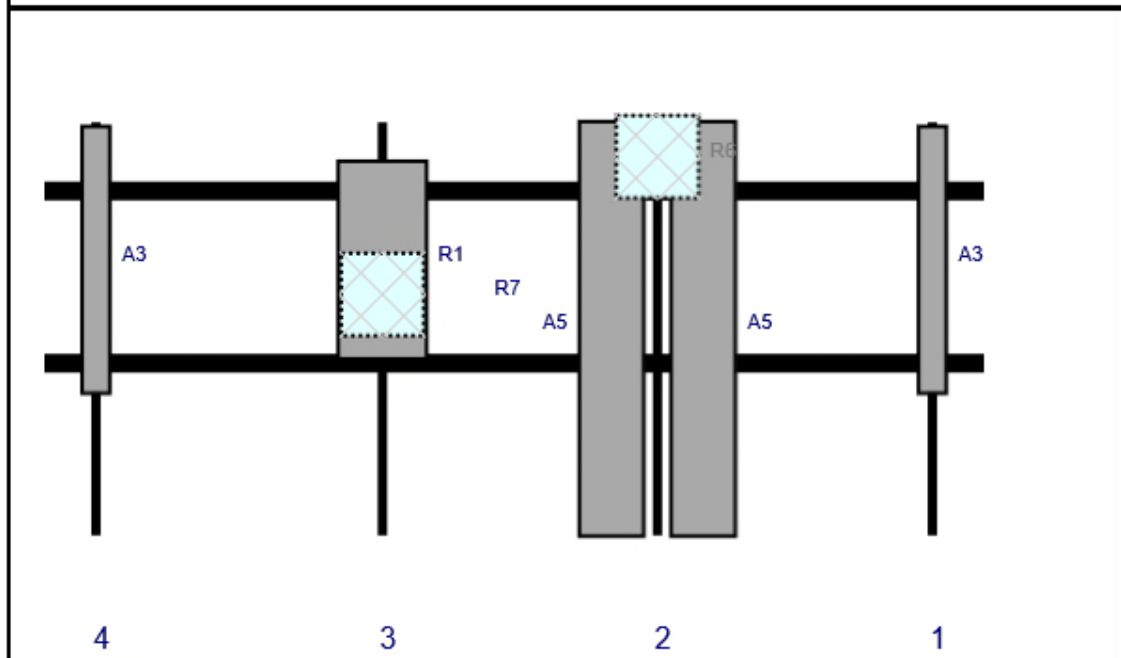


Page: 3

Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LPA-80090/4CF ___	47.2	5.5	155	1	a	Front	24	0	Retained	03/31/2021
A5	NHH-85B-R2B	72.9	11.9	107	2	a	Front	36	8	Retained	03/31/2021
A5	NHH-85B-R2B	72.9	11.9	107	2	b	Front	36	-8	Retained	03/31/2021
R6	B2/B66A RRR-BR049	15	15	107	2	a	Behind	6	0	Retained	03/31/2021
R1	MT6407-77A	35.1	16.1	59	3	a	Front	24	0	Added	
R7	B5/B13 RRR-BR04C	15	15	59	3	a	Behind	30	0	Retained	03/31/2021
A3	LPA-80090/4CF ___	47.2	5.5	9	4	a	Front	24	0	Retained	03/31/2021

Subject: TIA-222-H Usage

Site Information

Site ID: 468204-VZW / NORTH CANAAN CT
Site Name: NORTH CANAAN CT
Carrier Name: Verizon Wireless
Address: 38 Lower Rd
Canaan, Connecticut 06018,
Litchfield County
Latitude: 42.014658°
Longitude: -73.326289°

Structure Information

Tower Type: Self-Support
Mount Type: 13.67-Ft T-Frame

To Whom It May Concern,

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

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

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

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

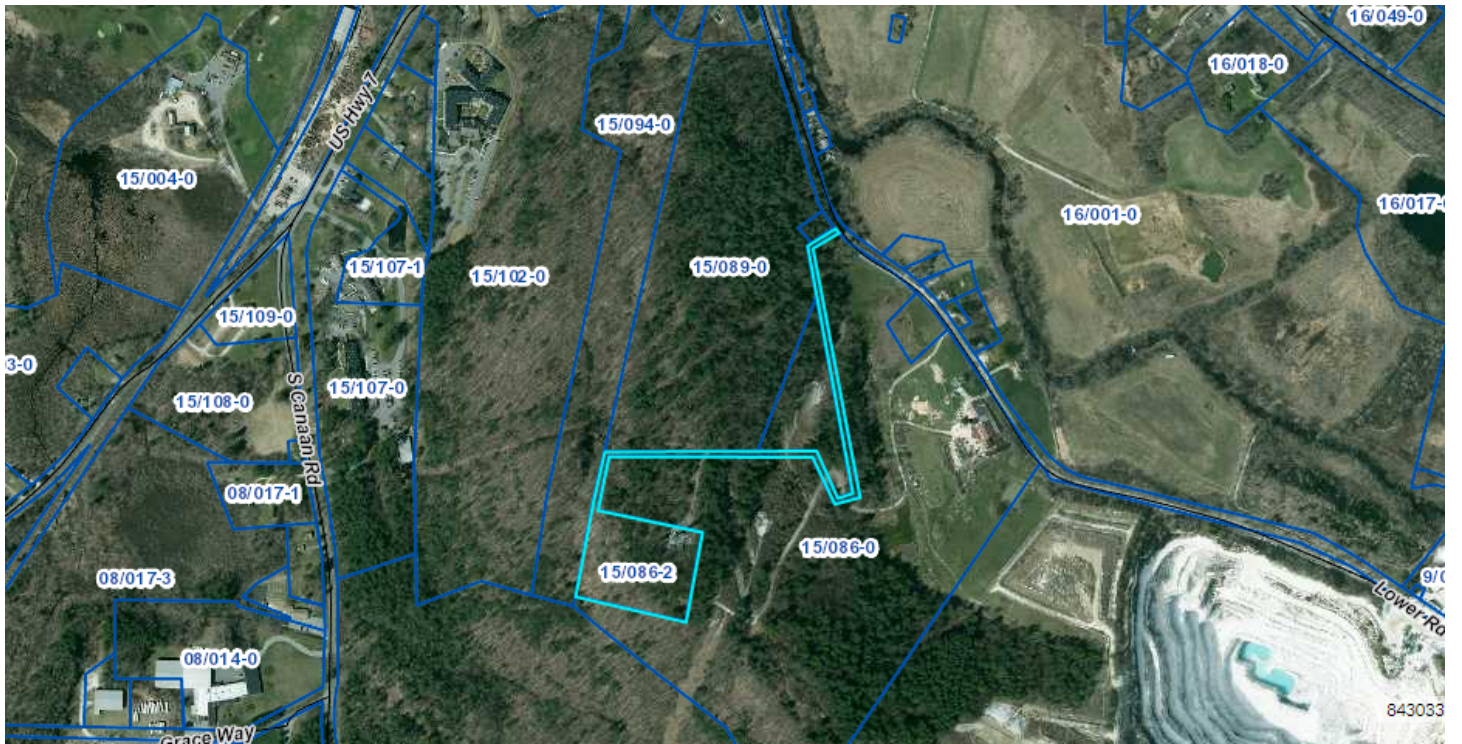
Sincerely,

Justin Linette, PE
Technical Manager



Digitally signed by Justin Linette
Date: 2021.06.25 09:35:14-04'00'

ATTACHMENT 5



Summary

ParcelId 15/086-2
Location Address 36 LOWER RD
Map-Block-Lot 15/086-2
Use Class/Description Storage Building
Assessing Neighborhood 7 Commercial
Survey
Acreage 6.37



Owner

Current Owner
LITCHFIELD COUNTY
DISPATCH INC
452 BANTAM RD
LITCHFIELD, CT 06759

Land

Use	Class	Land Type	Zoning	Area	Value
Storage Building	C	Commercial Excess	1	5.68	\$19,310
Storage Building	C	Primary Site	1	0.69	\$86,250

Commercial Building

Building # 1
Style
Actual Year Built 1999
Effective Year Built 2007
Living Area 1804
Stories 1
Grade
Exterior Wall
Interior Wall
Roof Cover
Roof Structure
Floor Type Concrete

Heat Type
 Fuel Type
 AC
 Bdrms/Ful Bth/Hlf Bth/Ttl Rm 0/0/0/0
 Basement Finished Area 0
 Basement Garages 0

Out Buildings\Extra Features

Description	Sub Description	Area	Year Built	Value
Sup Tower	Tower	1	1998	\$824,514

Sales History

Sale Date	Sale Price	Owner
12/29/1997	\$75,000	

Permit Information

Permit ID	Issue Date	Type	Amount	Inspection Date	% Complete	Date Complete	Comments
21-52	03-17-2021	Miscellaneous	\$25,000	1/1/1900 12:00:00 AM	100	04-27-2021	INSTALLED 2 NEW CELL PH ANTENNAS ON EXISTING TELECOMM TOWER
9157	11-12-2019	Electrical	\$45,000	1/1/1900 12:00:00 AM	100	10-01-2020	MODIFY EXISTING AT&T ANTENNA FACILITY
E8778	07-25-2018	Electrical	\$7,000	1/1/1900 12:00:00 AM	100	01-01-1900	ROOM FITOUT FOR T-MOBILE PP ~ DLP
8771	07-19-2018	Plumbing	\$2,000	1/1/1900 12:00:00 AM	100	01-01-1900	RUN NEW LINE TO GENERATOR - MECHANICAL PERMIT
B8755	06-28-2018	Generator	\$15,000	1/1/1900 12:00:00 AM	100	01-01-1900	NEW GENERATOR FOR BACKUP ~ DLP
B8750	06-18-2018		\$85,000	1/1/1900 12:00:00 AM	100	01-01-1900	NEW ANTENNA - PP - DLP
8364	10-17-2016	Electrical	\$5,000	10/1/2017 12:00:00 AM	100	01-01-1900	REPLACE 3 ANTENNAS AND REMOTE UNITS ON TOWER
7619	12-30-2013	Comm Renovations	\$9,500	1/1/1900 12:00:00 AM	100	01-01-1900	replace (3) antennas on cell tower

Current Appraised Value

Columns

	2019	2018	2017	2016
➤ + Building Value	\$145,823	\$145,829	\$145,829	\$144,857
➤ + OB/Misc	\$824,514	\$824,514	\$824,514	\$832,471
➤ + Land Value	\$105,560	\$105,560	\$105,560	\$105,560
➤ = Total Appraised Value	\$1,075,897	\$1,075,903	\$1,075,903	\$1,082,888

Assessment History

Columns

	2019	2018	2017	2016
➤ + Building Value	\$102,080	\$102,080	\$102,080	\$101,400
➤ + OB/Misc	\$577,160	\$577,160	\$577,160	\$582,730
➤ + Land Value	\$73,890	\$73,900	\$73,900	\$75,540
➤ = Total Assessment	\$753,130	\$753,140	\$753,140	\$759,670

Photos



ATTACHMENT 6



NORTH CANAAN
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 	TOTAL NO. of Pieces Received at Post Office™ <div style="font-size: 2em; text-align: center;">3</div>	Affix Stamp Here <i>Postmark with Date of Receipt.</i> <div style="text-align: right; color: red;"> <p>negpost 10/19/2021 US POSTAGE \$002.99</p> </div>
Postmaster, per (name of receiving employee) <div style="font-size: 2em; text-align: center;">R</div>			

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Charles P. Perotti, First Selectman Town of North Canaan 100 Pease Street North Canaan, CT 06018				
2.	Steve Allyn, Planning and Zoning Commission Chairman Town of North Canaan 100 Pease Street North Canaan, CT 06018				
3.	Litchfield County Dispatch 452 Bantam Road Litchfield, CT 06759				
4.					
5.					
6.					

