Robinson+Cole

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February 8, 2024

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification**
49 Brainerd Road, Niantic (Town of East Lyme), Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas on an existing tower and related equipment on the ground, near the base of the tower. The tower and Cellco's shared use of the tower were approved by the Siting Council ("Council") in March of 2011 (Docket No. 396). A copy of the Docket No. 396 Decision and Order is included in Attachment 1.

Cellco now intends to modify its facility by removing twelve (12) antennas and six (6) remote radio heads ("RRHs") and installing nine (9) new antennas and six (6) new RRHs on Cellco's existing antenna platform and mounting assemblies. A set of project plans showing Cellco's proposed facility modifications and the specifications for Cellco's new antenna and RRHs 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 East Lyme's Chief Elected Official and Land Use Officer. A copy of the letter is being sent to the owner of the Property.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's new antennas and RRHs will be installed at the same height on the tower.

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. Included in Attachment 3 is a Calculated Radio Frequency Emissions Report demonstrating that the proposed modified facility will comply with the FCC safety standards. The modified facility will be capable of providing Cellco's 5G wireless service.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis Report ("SA") and Antenna Mount Analysis Report ("MA"), the existing tower, tower foundation and antenna mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:
Daniel Cunningham, First Selectman
Gary Goeschel, II, Director of Planning
Double R Ranch LLC, Property Owner
Aleksey Tyurin

ATTACHMENT 1

DOCKET NO. 396 – SBA Towers II, LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and management of a telecommunications facility located at 49 Brainerd Road, Niantic (East Lyme), Connecticut.	}	Connecticut Siting Council March 3, 2011

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, maintenance, and management of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to SBA Towers II, LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility at the SBA Hybrid Site (i.e. approximately 310 feet to the south of the proposed location) at 49 Brainerd Road, East Lyme, Connecticut.

Unless otherwise approved by the Council, the facility shall be constructed, managed, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of New Cingular Wireless PCS, LLC (AT&T), Cellco Partnership d/b/a Verizon Wireless (Cellco), and other entities, both public and private, but such tower shall not exceed a height of 170 feet above ground level. All commercial wireless telecommunications antennas shall be attached to the tower via T-arms.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of East Lyme for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
    a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
    b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. Prior to the commencement of operation, the Certificate Holder shall provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of East Lyme public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.

7. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed with at least one fully operational wireless telecommunications carrier providing wireless service within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.

8. Any request for extension of the time period referred to in Condition 7 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of East Lyme. Any proposed modifications to this Decision and Order shall likewise be so served.

9. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

10. Any nonfunctioning antenna, and associated antenna mounting equipment, on this facility shall be removed within 60 days of the date the antenna ceased to function.

11. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction, and the commencement of site operation.

12. The Certificate Holder shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v.

13. This Certificate may be transferred in accordance with Conn. Gen. Stat. §16-50k(b), provided both the Certificate Holder/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. In addition, both the Certificate Holder/transferor and the transferee shall provide the Council a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.

14. The Certificate Holder shall maintain the facility and associated equipment, including but not limited to, the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line and landscaping in a reasonable physical and operational condition that is consistent with this Decision and Order and a Development and Management Plan to be approved by the Council.

15. If the Certificate Holder is a wholly-owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the Certificate Holder within 30 days of the sale and/or transfer.

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

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

The parties and intervenors to this proceeding are:

Applicant	**Its Representative**
SBA Towers II LLC	Carrie L. Larson, Esq. Pullman & Comley, LLC 90 State House Square Hartford, CT 06103-3702
Intervenor	**Its Representative**
Cellco Partnership d/b/a Verizon Wireless	Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597
Intervenor	**Its Representative**
Russell L. Brown	Russell L. Brown 41 Brainerd Road Niantic, CT 06357
Party	**Its Representative**
Town of East Lyme	Edward B. O'Connell, Esq. Waller, Smith & Palmer, P.C. 52 Eugene O'Neill Drive P.O. Box 88 New London, CT 06320

Intervenor	**Its Representative**
New Cingular Wireless PCS, LLC	Daniel M. Laub, Esq. Christopher B. Fisher, Esq. Cuddy & Feder LLP 445 Hamilton Avenue, 14th floor White Plain, NY 10601
Party	**Its Representative**
Friends of the Pattagansett Trust	Keith R. Ainsworth, Esq. Evans Feldman & Ainsworth, LLC 261 Bradley Street P.O. Box 1694 New Haven, CT 06507-1694
Intervenor	**Its Representative**
Joseph Raia	Joseph Raia 97 West Main Street, Unit 9 Niantic, CT 06357

ATTACHMENT 2

SBA APPROVED
By Stephen Roth at 5:14:49 AM, 1/31/2024

verizon

20 ALEXANDER DRIVE, 2nd FLOOR
WALLINGFORD, CT 06492

ROCKY NECK CT

49 BRAINERD ROAD
NIANTIC, CT 06357
NEW LONDON COUNTY

PROJECT TYPE: UPGRADE TO EXISTING WIRELESS TELECOMMUNICATIONS INSTALLATION ON EXISTING 170'± MONOPOLE

SUPPORTING DOCUMENTS

RADIO FREQUENCY (RF) DESIGN DATE: 08/16/23
ANTENNA MOUNT STRUCTURAL ANALYSIS DATE: 10/11/23 (BY COLLIERS ENGINEERING & DESIGN)
ANTENNA SUPPORT STRUCTURE (170± MONOPOLE) STRUCTURAL ANALYSIS DATE: 01/11/24 (BY SBA COMMUNICATIONS CORPORATION)

SITE INFORMATION

VERIZON LOCATION CODE:	460388
VERIZON SITE NAME:	ROCKY NECK CT
SBA SITE NUMBER:	CT11784-S
SBA SITE NAME:	EAST LYME 1
SBA COLLO APP NUMBER:	240517, V1
MDG LOCATION ID:	5000122987
FUZE PROJECT ID:	2505529
SITE ADDRESS:	49 BRAINERD ROAD NIANTIC, CT 06357
PROPERTY OWNER:	CHRISTOPHER SAMUELSEN 49 BRAINERD ROAD NIANTIC, CT 06357
TOWER OWNER:	SBA TOWERS V, LLC 8051 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561 226 9525
COUNTY	NEW LONDON, MA
ZONING DISTRICT:	(R40) RESIDENTIAL
STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	170±
STRUCTURE HEIGHT W/APPURTENANCE:	175±
GROUND ELEVATION:	14 ±
TOTAL AMSL:	189±
SITE CONTROL POINT:	CENTER OF EXISTING MONOPOLE N 41°-16'-27.3" (41.30767) (NAD 83) W 72°-13'-26.1" (-72.22392) (NAD 83)
ARCHITECT/ENGINEER:	CHIAPPELL ENGINEERING ASSOCIATES, LLC 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752

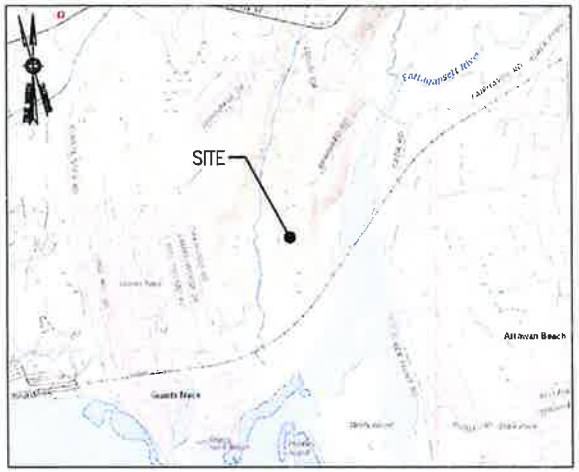
GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACES THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
2. NEW CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
   - BUILDING CODE: 2022 CONNECTICUT STATE BUILDING CODE
   - ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE
   - STRUCTURAL CODE: TIA/EIA-222-H STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811

VICINITY MAP

SCALE: 1"=1000'



DRIVING DIRECTIONS

FROM WALLINGFORD, TAKE CT 68 EAST. TURN LEFT ONTO MAIN STREET. TURN RIGHT ONTO RANDOLPH ROAD. TURN RIGHT ONTO THE CT 9 SOUTH RAMP TOWARD OLD SAYBROOK. MERGE ONTO CT 9 SOUTH. USE LEFT LANE TO MERGE ONTO I 68 NORTH/US 1 NORTH TOWARD NEW LONDON/PROVIDENCE. CONTINUE TO FOLLOW I 95 NORTH. TAKE EXIT 72 TOWARD ROCKY NECK STATE PARK. CONTINUE ONTO ROCKY NECK CONNECTOR. USE ANY LANE TO TURN LEFT ONTO CT 156 EAST/WEST MAIN STREET. TURN RIGHT ONTO FAIRHAVEN ROAD. TURN RIGHT ONTO BRAINERD ROAD. SITE IS LOCATED ON THE LEFT HAND SIDE.

SHEET INDEX

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DO NOT SCALE DRAWINGS

ALL PLANS, EXISTING DIMENSIONS AND CONDITIONS AT THE PROPOSED PROJECT SITE SHALL BE VERIFIED IN THE FIELD DURING THE CONSTRUCTION PHASE. THE PROJECT OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES IMMEDIATELY PRIOR TO PROCEEDING WITH THE PROPOSED WORK AFFECTED BY SUCH DISCREPANCIES. IN THE EVENT OF LACK OF SUCH NOTIFICATION, SUCH DISCREPANCIES SHALL BECOME THE RESPONSIBILITY OF THE PREVAILING CONTRACTOR RESPONSIBLE FOR CONSTRUCTION.

PROJECT DESCRIPTION

1. THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT INSTALLATION AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC WIRELESS TELECOMMUNICATIONS SERVICE.
2. THIS FACILITY DOES NOT, NOR WILL IT CONSUME UNRECOVERABLE ENERGY.
3. NO POTTABLE WATER SUPPLY IS OR WILL BE PROVIDED AT THIS LOCATION.
4. NO WASTE WATER IS OR WILL BE GENERATED AT THIS LOCATION.
5. NO SOLID WASTE IS OR WILL BE GENERATED AT THIS LOCATION.

SCOPE OF WORK

REMOVE:
- 12 ANTENNAS
- 6 RADIOS
- 2 JUNCTION BOXES (OVP)

INSTALL:
- ANTENNA MOUNT REINFORCEMENTS
- 3 SIDE-BY-SIDE ANTENNA MOUNTS
- 9 ANTENNAS
- 6 RADIOS
- 1 JUNCTION BOX (OVP)

verizon
20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492
(203) 741-7336

SBA
SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 25--0720

CHIAPPELL ENGINEERING ASSOCIATES, LLC
R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 48 -7400
www.chiappellengineering.com

STATE OF CONNECTICUT
JAMES M. FITZGERALD
No. 25987
LICENSED
PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: AJT
APPROVED BY: AJT

SUBMITTALS

REV	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/25/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS
ROCKY NECK CT
49 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE:	460388
MDG LOCATION ID:	5000122987
FUZE PROJECT ID:	2505529

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T01

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR – VERIZON WIRELESS
   SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
   OWNER – VERIZON WIRELESS
   OEM – ORIGINAL EQUIPMENT MANUFACTURER

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.

3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.

4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.

6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.

9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.

10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

13. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

14. SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC. 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACK FILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS & POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.

15. CONSTRUCTION SHALL COMPLY WITH VERIZON WIRELESS NETWORK STANDARD #NSTD123 TO THE MAXIMUM EXTENT FEASIBLE UNLESS PRECLUDED OR LIMITED BY DESIGN SHOWN ON THESE DRAWINGS.

16. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

17. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.

18. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.

3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.

4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.

6. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

7. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.

8. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.

9. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.

10. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

11. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE VERIZON WIRELESS SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4000PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS

3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
   CONCRETE CAST AGAINST EARTH......3 IN.
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER ....2 IN.
   #5 AND SMALLER & WWF ....1½ IN.
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALL ....¾ IN.
   BEAMS AND COLUMNS ....1½ IN.

5. A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.

7. CONCRETE CYLINDER TEST IS NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;
   (A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.
   (B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
   FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.

8. AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.

9. EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND VERIZON WIRELESS SPECIFICATION 28252-000-3PS-GET-00001 UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".

2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.

3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (¾"ø) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.

4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ⅝" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.

5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.

6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.

7. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.

2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.

3. AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.

4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.

5. AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

1. HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

1. FIELD VERIFICATION:
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, VERIZON WIRELESS ANTENNA PLATFORM LOCATION AND ANTENNAS TO BE REPLACED.

2. COORDINATION OF WORK:
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.

3. CABLE LADDER RACK:
SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.

2. SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.

3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.

4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.

5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.

6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS

7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANEL BOARD AND CIRCUIT ID'S).

8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.

9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.

10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.

12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #3 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.

13. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.

14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).

15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.

17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.

20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.

21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.

23. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.

24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.

25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS

27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON- CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.

32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

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STATE OF CONNECTICUT ★ JAMES M. FITZGERALD ★ No. 25997 ★ LICENSED ★ PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV	DATE	DESCRIPTION	BY
1	01/[illegible]/24	ISSUED FOR CONSTRUCTION	CJC
0	01/[illegible]/24	ISSUED FOR REVIEW	CJC

PROJECT NAME & ADDRESS

ROCKY NECK CT

49 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE:	[illegible]
MDG LOCATION ID:	[illegible]
FUZE PROJECT ID:	[illegible]

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN01

SITE PLAN
SCALE: 1" = 150'-0"
0 150' 300' 450'
1 A01

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STATE OF CONNECTICUT * JAMES M. FITZGERALD No. 25987 LICENSED PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT
APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/25/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS
ROCKY NECK CT
40 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE: [illegible]
MDG LOCATION ID: [illegible]
FUZE PROJECT ID: [illegible]

SHEET TITLE
SITE PLAN

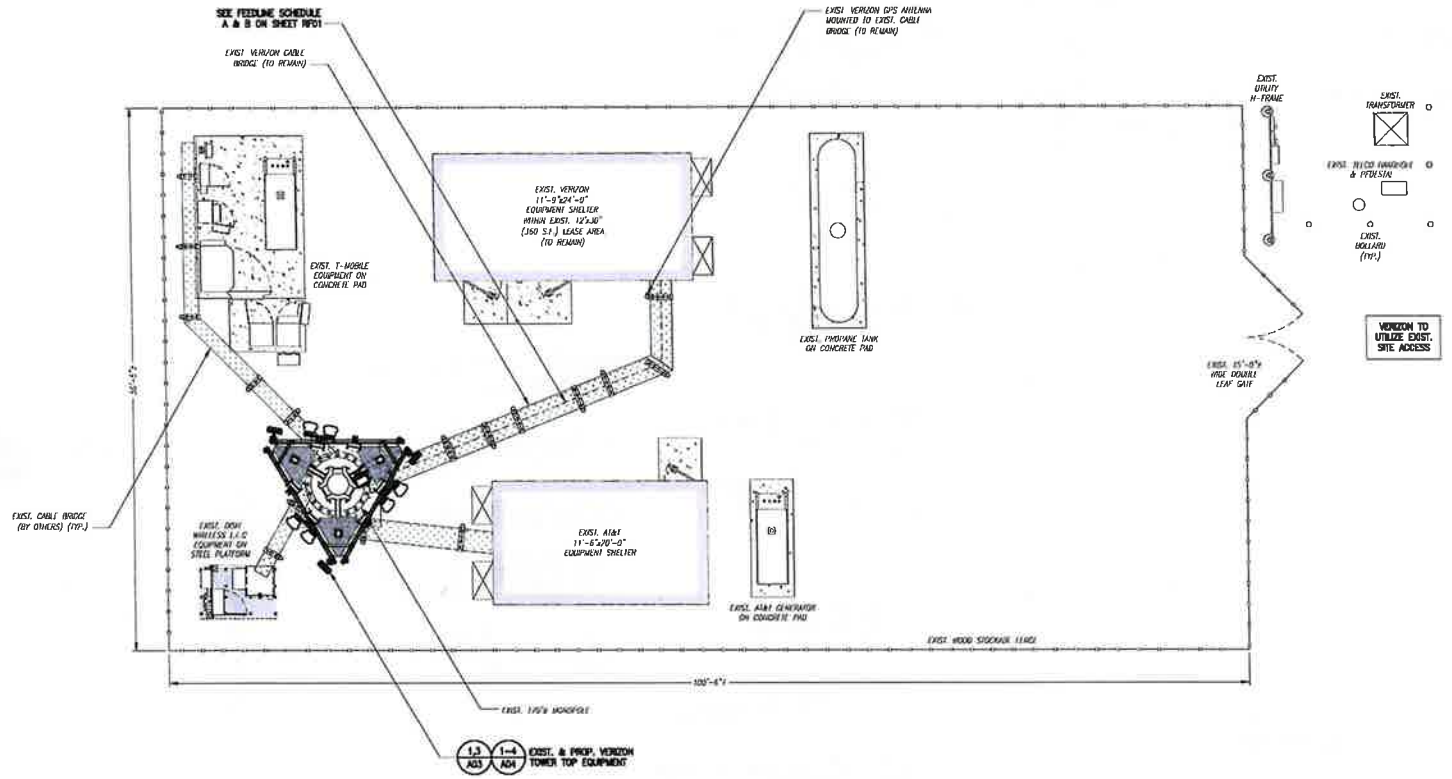
SHEET NUMBER
A01

SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BUNDLING OR RELOCATION.

SPECIAL CONSTRUCTION NOTE (SBA-PROVIDED ANTENNA MOUNT STRUCTURAL MOD SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANTENNA MOUNT STRUCTURAL AUGMENTS (STRUCTURAL MODIFICATIONS) AT THE VERIZON RAD/VERTICAL EQUIPMENT SPACE PER RECOMMENDATIONS FROM SBA-PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).

ANTENNA MOUNT REINFORCEMENT NOTE:
PRIOR TO THE COMMENCEMENT OF THE UPGRADE WORK SHOWN ON THESE DRAWINGS, THE EXISTING VERIZON TRI-SECTOR ANTENNA MOUNTING FRAME LOCATED ON THE EXISTING MONOPOLE SHALL BE REINFORCED AS PER THE MOUNT MODIFICATION DRAWINGS PREPARED BY COLLIERS ENGINEERING & DESIGN (PROJECT #21781129).

TRUE NORTH
MAGNETIC



COMPOUND PLAN
SCALE: 3/16" = 1'-0"
1 A02
0 5'-4" 10'-8" 18'-0"

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STATE OF CONNECTICUT
JAMES M. FITZGERALD
No. 25997
LICENSED PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT
APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/25/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS
ROCKY NECK CT
49 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE: [redacted]
MDG LOCATION ID: [redacted]
FUZE PROJECT ID: [redacted]

SHEET TITLE
COMPOUND PLAN

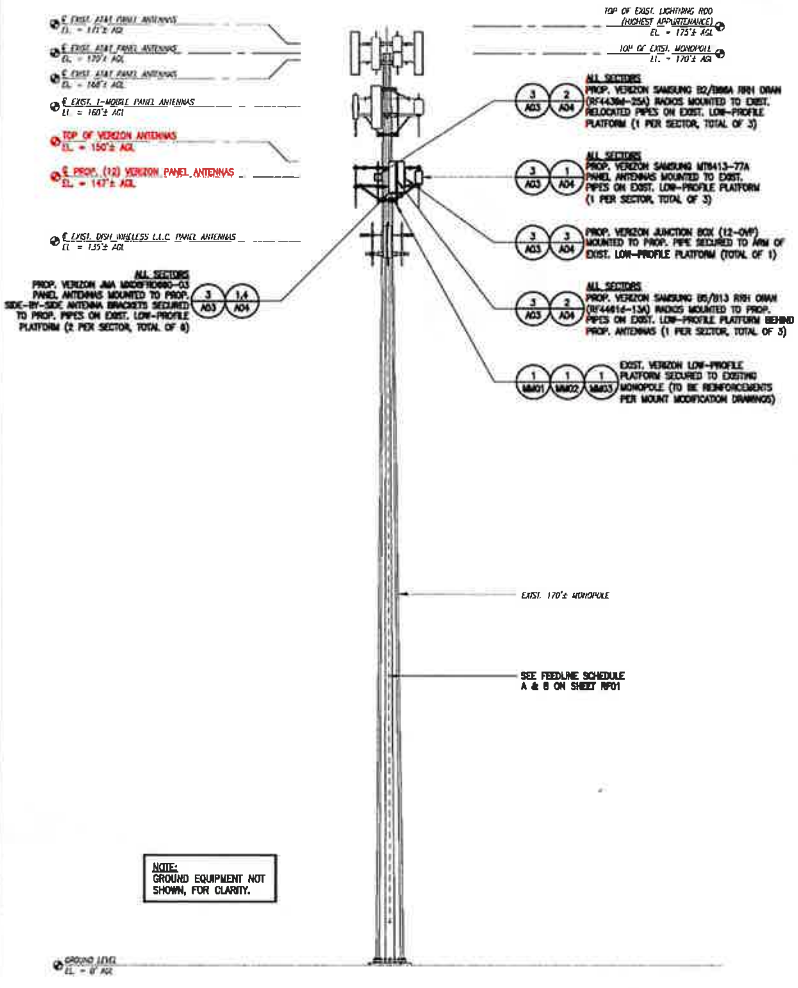
SHEET NUMBER
A02

ANTENNA MOUNT REINFORCEMENT NOTE:
PRIOR TO THE COMMENCEMENT OF THE UPGRADE WORK SHOWN ON THESE DRAWINGS, THE EXISTING VERIZON TRI-SECTOR ANTENNA MOUNTING FRAME LOCATED ON THE EXISTING MONOPOLE SHALL BE REINFORCED AS PER THE MOUNT MODIFICATION DRAWINGS PREPARED BY COLLIERS ENGINEERING & DESIGN (PROJECT #21781129).

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

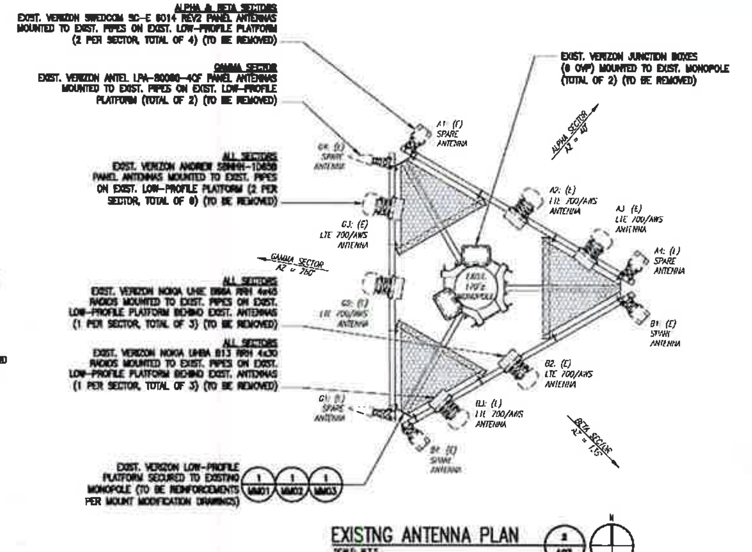
SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BUNDLING OR RELOCATION.

SPECIAL CONSTRUCTION NOTE (SBA-PROVIDED ANTENNA MOUNT STRUCTURAL MOD SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANTENNA MOUNT STRUCTURAL AUGMENTS (STRUCTURAL MODIFICATIONS) AT THE VERIZON RAD/VERTICAL EQUIPMENT SPACE PER RECOMMENDATIONS FROM SBA-PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).

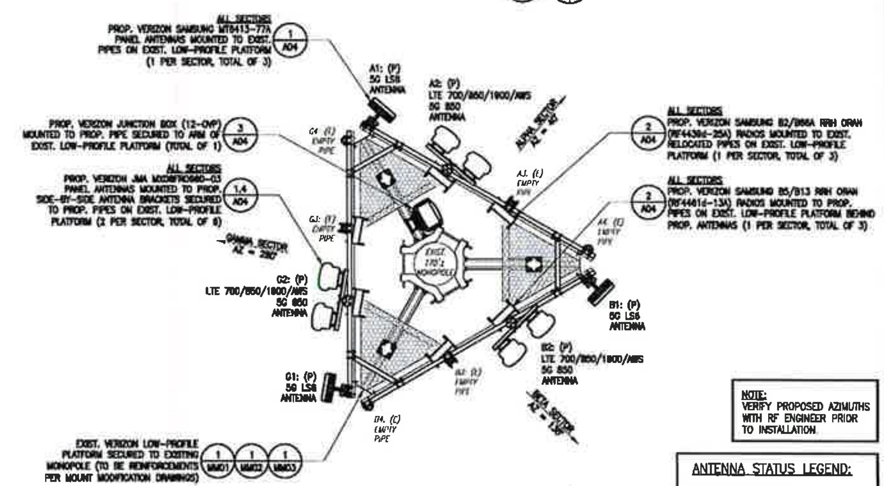


NOTE:
GROUND EQUIPMENT NOT SHOWN, FOR CLARITY.

TOWER ELEVATION (1/A03)
SCALE: 3/32" = 1'-0"
0 10'-8" 21'-4" 32'-0"



EXISTNG ANTENNA PLAN (2/A03)
SCALE: N.T.S.



PROPOSED ANTENNA PLAN (3/A03)
SCALE: N.T.S.

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

ANTENNA STATUS LEGEND:
EMPTY – EMPTY PIPE
(E) – EXISTING
(P) – INSTALL
(F) – FUTURE

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STATE OF CONNECTICUT * JAMES M. FITZGERALD * No. 25997 LICENSED PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT
APPROVED BY: JMT

SUBMITTALS

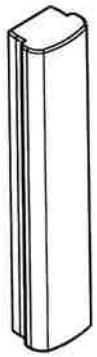
REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/25/24	ISSUED FOR REVIEW	CMC

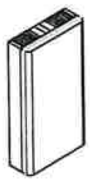
PROJECT NAME & ADDRESS
ROCKY NECK CT
40 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE: [illegible]
MDG LOCATION ID: [illegible]
FUZE PROJECT ID: [illegible]

SHEET TITLE
TOWER ELEVATION & ANTENNA PLANS

SHEET NUMBER
A03





JMA MX08FRO660-03 ANTENNA
DIMENSIONS: 71.3"H x 15.4"W x 10.7"D
WEIGHT: 60.0 lbs
QUANTITY: 2 PER SECTOR, TOTAL OF 6
SECTORS: ALPHA, BETA, GAMMA

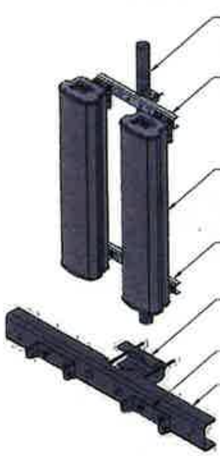
SAMSUNG MT8413-77A ANTENNA
DIMENSIONS: 28.9"H x 15.8"W x 5.5"D
WEIGHT: 57.3 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3
SECTORS: ALPHA, BETA, GAMMA

ANTENNA DETAILS (1/A04)
SCALE: N.T.S.

SAMSUNG RF4439d-25A B2/B66A RADIO
DIMENSIONS: 15.0"H x 15.0"W x 10.0"D
WEIGHT: 74.7 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3
SECTORS: ALPHA, BETA, GAMMA

SAMSUNG RF4461d-13A B5/B13 RADIO
DIMENSIONS: 15.0"H x 15.0"W x 10.2"D
WEIGHT: 78.1 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3
SECTORS: ALPHA, BETA, GAMMA

RADIO DETAIL (2/A04)
SCALE: N.T.S.



JMA 91900314 SIDE-BY-SIDE ANTENNA MOUNT BRACKET
WEIGHT: 28.0 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3
SECTORS: ALPHA, BETA, GAMMA
NOTE: MOUNT ANTENNA PER MANUFACTURER'S SPECIFICATIONS

TYPICAL SIDE-BY-SIDE ANTENNA MOUNT KIT (3/A04)
SCALE: N.T.S.

Procedure
Mounting Procedures

4.1 [illegible]

4.2 Option 1: Pole Mount [illegible]

4.3 Option 2: Unistrut

4.4 Option 3: Monopole [illegible]

Gland/Insert Definitions

5.1 See picture to identify Base Gland Assembly Definitions

Assembled in unit as shipped

Qty	Connector Size	Pos	Insert P/N	Insert Hole	Cable Type
2	M75	A	[illegible]	[illegible]	[illegible]
4	M75	5	[illegible]	[illegible]	[illegible]

Included in kit shipped with unit

Qty	Connector Size	Insert P/N	Insert Hole	Cable Type	Purpose	Pos
2	M75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	M75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	M75	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	M75	180-091?	2x 9.5mm	[illegible]	1 gland kit 2 ch cord cable	[illegible]

FIBER JUNCTION BOX
DIMENSIONS: 28.56"H x 16.5"W x 12.0"D
WEIGHT: 32.0 lbs
QUANTITY: TOTAL OF 1

TYPICAL FIBER JUNCTION BOX (OVP) DETAILS (4/A04)
SCALE: N.T.S.

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20 ALEXANDER DRIVE, 2ND FLOOR
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STATE OF CONNECTICUT ★ JAMES M. FITZGERALD No. 25997 LICENSED PROFESSIONAL CIVIL ENGINEER ★
1/29/24

CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CAC
0	01/23/24	ISSUED FOR REVIEW	CAC

PROJECT NAME & ADDRESS
ROCKY NECK CT
49 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE: [illegible]
MDG LOCATION ID: [illegible]
FUZE PROJECT ID: [illegible]

SHEET TITLE
SITE DETAILS

SHEET NUMBER
A04

EXISTING EQUIPMENT CONFIGURATION

SECTOR	EQUIPMENT MAKE & MODEL	QTY	AZIMUTH (TRUE NORTH)	ANTENNA RAD	BAND	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	EQUIPMENT STATUS	H (IN)	W (IN)	D (IN)	WEIGHT (LBS)	HYBRID CABLE SIZE & QTY
ALPHA	SWEDCOM SC-E 6014 REV2 PANEL ANTENNAS	1	40°	147'± AGL	SPARE	-	-	ETRE	86.0	8.5	8.0	25.0	EXIST. (10) 1-5/8" COAXIAL CABLES EXIST. (2) 6x12 HYBRID CABLES
	ANDREW SBNHH-1D65B PANEL ANTENNAS	1	40°	147'± AGL	LTE 700/AWS	0°/0°	1°/2°	ETRE	72.6	11.9	7.1	40.5	
	ANDREW SBNHH-1D65B PANEL ANTENNAS	1	40°	147'± AGL	LTE 700/AWS	0°/0°	1°/2°	ETRE	72.6	11.9	7.1	40.5	
	SWEDCOM SC-E 6014 REV2 PANEL ANTENNAS	1	40°	147'± AGL	SPARE	-	-	ETRE	86.0	8.5	8.0	25.0	
BETA	SWEDCOM SC-E 6014 REV2 PANEL ANTENNAS	1	135°	147'± AGL	SPARE	-	-	ETRE	86.0	8.5	8.0	25.0	
	ANDREW SBNHH-1D65B PANEL ANTENNAS	1	135°	147'± AGL	LTE 700/AWS	0°/0°	2°/0°	ETRE	72.6	11.9	7.1	40.5	
	ANDREW SBNHH-1D65B PANEL ANTENNAS	1	135°	147'± AGL	LTE 700/AWS	0°/0°	2°/0°	ETRE	72.6	11.9	7.1	40.5	
	SWEDCOM SC-E 6014 REV2 PANEL ANTENNAS	1	135°	147'± AGL	SPARE	-	-	ETRE	86.0	8.5	8.0	25.0	
GAMMA	ANTEL LPA-80080-4CF PANEL ANTENNAS	1	280°	147'± AGL	SPARE	-	-	ETRE	47.2	5.5	13.2	5.4	
	ANDREW SBNHH-1D65B PANEL ANTENNAS	1	280°	147'± AGL	LTE 700/AWS	0°/0	2°/4°	ETRE	72.6	11.9	7.1	40.5	
	ANDREW SBNHH-1D65B PANEL ANTENNAS	1	280°	147'± AGL	LTE 700/AWS	0°/0°	2°/4°	ETRE	72.6	11.9	7.1	40.5	
	ANTEL LPA-80080-4CF PANEL ANTENNAS	1	280°	147'± AGL	SPARE	-	-	ETRE	47.2	5.5	13.2	5.4	
ALL	NOKIA 1888A B13 RRH 4x30 RADIOS	3	-	-	-	-	-	ETRE	71.4	12.0	7.2	51.0	
	NOKIA UHIE B66A RRH 4x45 RADIOS	3	-	-	-	-	-	ETRE	25.8	11.8	7.2	50.8	
	6 OVP	2	-	-	-	-	-	ETR	29.8	18.5	12.6	32.6	

NOTES:
1. "ETR" DENOTES "EXISTING TO REMAIN".
2. "ETRE" DENOTES "EXISTING TO BE REMOVED".
3. WEIGHTS LISTED ARE WITHOUT MOUNTING BRACKETS.
4. INFORMATION IS BASED ON RFDS DATED 08/16/23.

FINAL EQUIPMENT CONFIGURATION

SECTOR	EQUIPMENT MAKE & MODEL	QTY	AZIMUTH (TRUE NORTH)	ANTENNA RAD	BAND	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	EQUIPMENT STATUS	H (IN)	W (IN)	D (IN)	WEIGHT (LBS)	HYBRID CABLE SIZE & QTY
ALPHA	SAMSUNG MT6413-77A PANEL ANTENNA	1	40°	147'± AGL	5G L58	0°	3°	NEW	28.8	15.8	5.5	57.3	EXIST. (10) 1-5/8" COAXIAL CABLES EXIST. (2) 6x12 HYBRID CABLES
	JMA MX08FRO860-03 PANEL ANTENNAS	2	40°	147'± AGL	LTE 700/850/1900/AWS 5G 850	0°/0°/0°/0° 0°	7°/7°/0°/0° 7°	NEW	71.3	15.4	10.7	60.0	
BETA	SAMSUNG MT6413-77A PANEL ANTENNA	1	135°	147'± AGL	5G L58	0°	3°	NEW	28.8	15.8	5.5	57.3	
	JMA MX08FRO860-03 PANEL ANTENNAS	2	135°	147'± AGL	LTE 700/850/1900/AWS 5G 850	0°/0°/0°/0° 0°	2°/12°/4°/4° 12°	NEW	71.3	15.4	10.7	60.0	
GAMMA	SAMSUNG MT6413-77A PANEL ANTENNA	1	280°	147'± AGL	5G L58	0°	3°	NEW	28.8	15.8	5.5	57.3	
	JMA MX08FRO860-03 PANEL ANTENNAS	2	280°	147'± AGL	LTE 700/850/1900/AWS 5G 850	0°/0°/0°/0° 0°	2°/6°/2°/2° 6°	NEW	71.3	15.4	10.7	60.0	
ALL	SAMSUNG B2/B66A RF4439d-25A RADIOS	3	-	-	-	-	-	NEW	15.0	15.0	10.0	74.7	
	SAMSUNG B5/B13 RF4461d-13A RADIOS	3	-	-	-	-	-	NEW	15.0	15.0	10.2	79.1	
	12 OVP	1	-	-	-	-	-	NEW	29.6	18.5	12.6	32.0	

NOTES:
1. "ETR" DENOTES "EXISTING TO REMAIN".
2. "ETRE" DENOTES "EXISTING TO BE REMOVED".
3. WEIGHTS LISTED ARE WITHOUT MOUNTING BRACKETS.
4. INFORMATION IS BASED ON RFDS DATED 08/16/23.

FEEDLINE SCHEDULE

SCHEDULE	FEEDLINES	LOCATION
A	EXISTING TO REMAIN: (1) 1/2" COAX CABLE FOR GPS ANTENNA (10) 1-5/8" COAXIAL CABLES (2) 6x12 HYBRID CABLES EXISTING TO BE REMOVED: NONE	ROUTED PER STRUCTURAL ANALYSIS
B	PROPOSED: NONE	

NOTE:
EXISTING VERIZON EQUIPMENT FEEDLINE INVENTORY BASED ON OBSERVED FIELD CONDITIONS. RFDS AND FEEDLINE LEASING ENTITLEMENTS MAY DIFFER.

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STATE OF CONNECTICUT JAMES M. FITZGERALD No. 25997 LICENSED PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT
APPROVED BY: JMT

SUBMITTALS

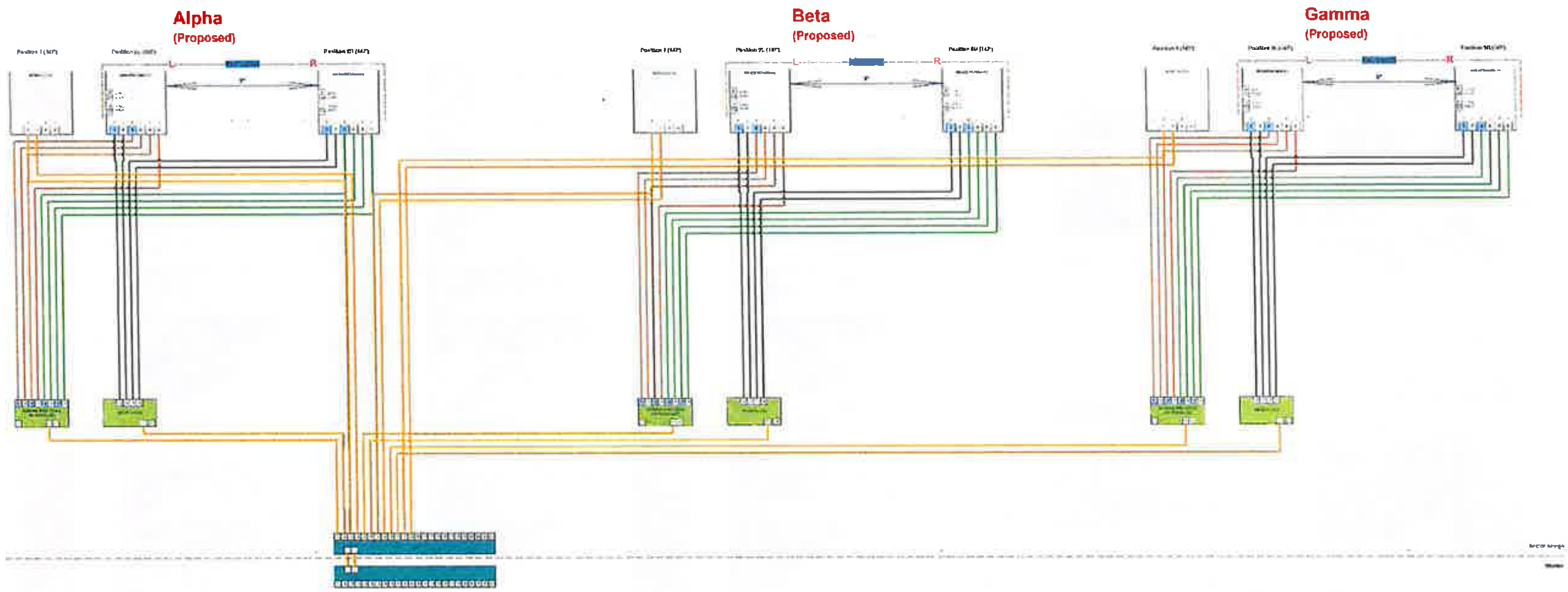
REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/25/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS
ROCKY NECK CT
40 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE: [illegible]
MDG LOCATION ID: [illegible]
FUZE PROJECT ID: [illegible]

SHEET TITLE
RF DATA

SHEET NUMBER
RF01



RF PLUMBING DIAGRAM (1/RF02)
SCALE: N.T.S.

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STATE OF CONNECTICUT * JAMES M. FITZGERALD * No. 25997 LICENSED * PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/[illegible]/24	ISSUED FOR CONSTRUCTION	CMC
0	01/[illegible]/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS

ROCKY NECK CT

49 BRAINERD ROAD
NIANTIC, CT 06357

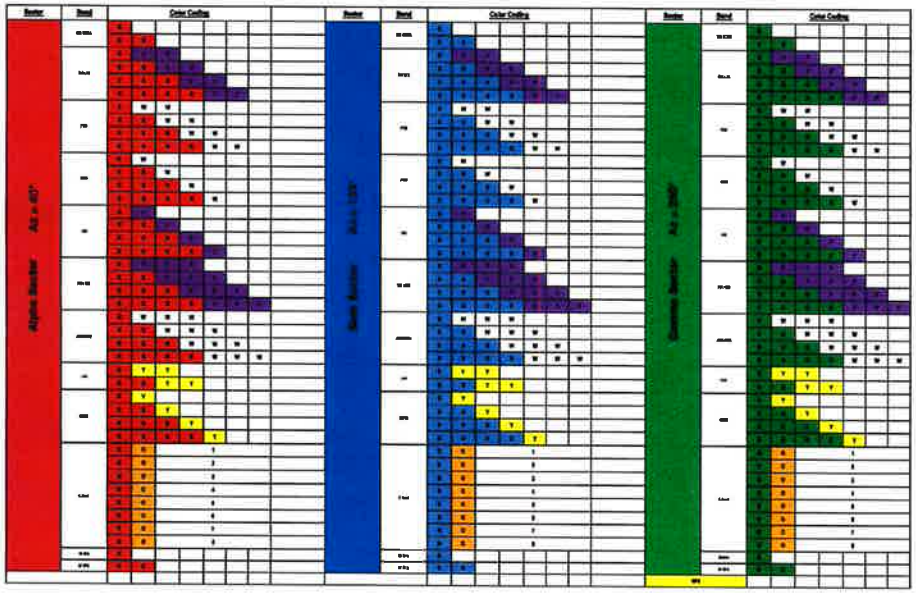
VZW LOCATION CODE:	[illegible]
MDG LOCATION ID:	[illegible]
FUZE PROJECT ID:	[illegible]

SHEET TITLE

RF PLUMBING DIAGRAM

SHEET NUMBER

RF02



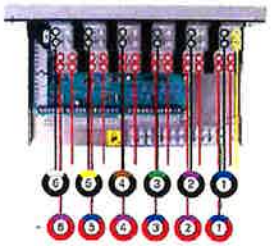
LINE COLOR CODE SPECIFICATIONS (1 / RF03)
SCALE: N.T.S.

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

Hybrid Cable on Towers

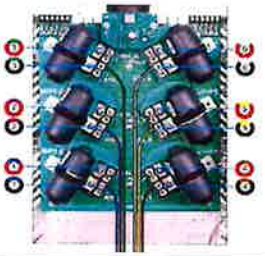
Hybrid Cable 1

Sector	Identification Color	-48V	RTN
700 Alpha	Blue		
AWS Alpha	Violet		
PCS Alpha	Green		
850 Alpha	Brown		
Spare	Yellow		
Spare	White		



Hybrid Cable 2

Sector	Identification Color	-48V	RTN
700 Beta	Blue		
AWS Beta	Violet		
PCS Beta	Green		
850 Beta	Brown		
Spare	Yellow		
Spare	White		



HYBRID CABLE COLOR CODE SPECIFICATIONS (2 / RF03)
SCALE: N.T.S.

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STATE OF CONNECTICUT
JAMES M. FITZGERALD
No. 25987
LICENSED
PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT
APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/29/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS
ROCKY NECK CT
49 BRAINERD ROAD
NIANTIC, CT 06357

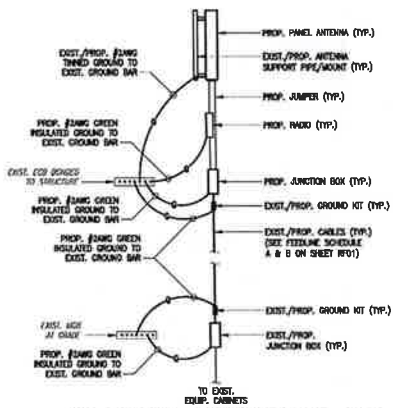
VZW LOCATION CODE:
MDG LOCATION ID:
FUZE PROJECT ID:

SHEET TITLE
RF COLOR CODE SPECIFICATIONS

SHEET NUMBER
RF03

GROUNDING GENERAL NOTES

1. ALL EXTERIOR CONDUCTORS SHALL BE #2 AWG, SOLID, BARE, TINNED COPPER, UNLESS OTHERWISE NOTED. MINIMUM BEND RADIUS SHALL BE EIGHT (8) INCHES.
2. ALL WIRE-TO-WIRE CONNECTIONS SHALL BE THREE-CLAMP, C TAP COMPRESSION (T&B #54740 ORANGE OR EQUIVALENT). ALL GROUND BAR CONNECTIONS SHALL BE TWO-HOLE, LONG-BARREL TYPE COMPRESSION LUGS (T&B OR EQUIVALENT). ALL OTHER CONNECTIONS TO STEEL SURFACES SHALL USE LUG-TYPE CONNECTORS.
3. MECHANICALLY BOND ANTENNA MOUNTS WITH #2 AWG, BARE, STRANDED CONDUCTORS.
4. ALL GROUNDING WORK SHALL COMPLY WITH VERIZON WIRELESS STANDARDS.
5. CONNECT GROUND CONDUCTOR TO EXISTING GROUNDING SYSTEM. ATTACH TO WALLS, PARAPET, CABLE TRAY, ETC. WITH A CLAMPS AS NECESSARY. REMOVE PAINT, FIREPROOFING, MILL SCALE, ETC. TO ACHIEVE GOOD CAD WELD GROUND CONNECTION.
6. CONNECT TO HALO GROUND USING C-TAP (#54730).
7. CONNECT TO ENCLOSURES USING BLUE GROUND LUGS.
8. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC (CADWELD) CONNECTIONS.
9. ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (CADWELD).
10. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
11. ALL EXOTHERMIC CONNECTIONS TO THE GROUND RODS SHALL START AT THE TOP & HAVE A VERTICAL SEPARATION OF 6" FOR EVERY ADDITIONAL CONNECTION.
12. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
13. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
14. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED 5 OHMS. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATION FOR FACILITY GROUNDING, USING FALL OF POTENTIAL METHOD.
15. ANTENNA GROUND KITS SHALL BE FURNISHED BY VERIZON & INSTALLED BY CONTRACTOR.



TYP. ANTENNA GROUNDING RISER (1/E01)
SCALE: NOT TO SCALE

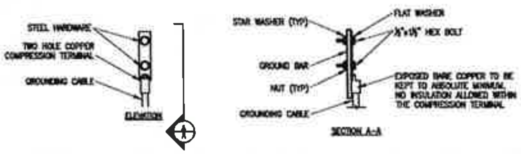
LEGEND

GROUNDING SYMBOLS

⊠	GROUND ROD/TEST (OBSERVATION) WELL
⊗	GROUND ROD
▲	CADWELD TYPE CONNECTION
●	COMPRESSION TYPE CONNECTION
----	GROUNDING WIRE
(1/E02)	REPRESENTS DETAIL NUMBER

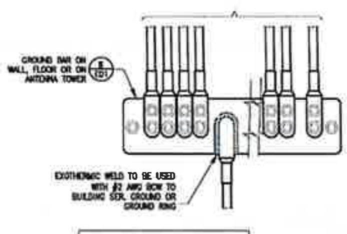
ABBREVIATIONS

AWG	AMERICAN WIRE GAUGE
BCW	BARE COPPER WIRE
GPS	GLOBAL POSITIONING SYSTEM
PCS	PERSONAL COMMUNICATION SYSTEM
RWY	RACEWAY
TYP.	TYPICAL
RGS	RIGID GALVANIZED STEEL
EMT	ELECTRICAL METALLIC TUBING
DWG	DRAWING
EMT	INTERIOR GROUND RING (HALO)
GEN	GENERATOR
GR	GROWTH
CGBE	COAX GROUND BAR EXTERNAL
CIGBE	COAX ISOLATED GROUND BAR EXTERNAL
MGB	MASTER GROUND BAR
PVC	RIGID (SCH. 40) POLYVINYL CHLORIDE CONDUIT
EBH	ETHERNET BACK HAUL



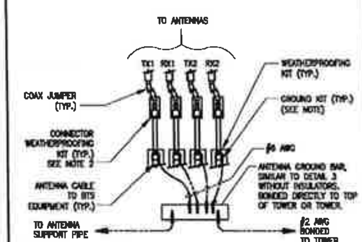
NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

TYP. GROUND BAR CONNECTION (2/E01)
SCALE: N.T.S.



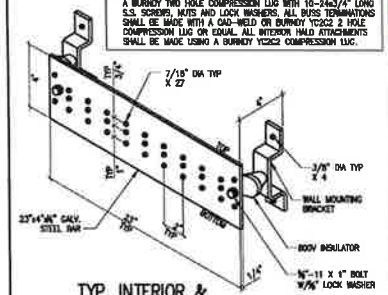
NOTE:
GROUND BARS AT THE BOTTOM OF TOWER SHALL ONLY USE EXOTHERMIC WELDS.

INSTALLATION OF GROUND WIRE TO GROUND BAR (3/E01)
SCALE: N.T.S.

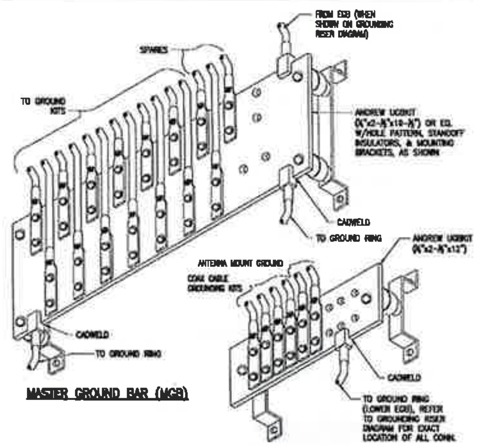


CONN. OF GROUND WIRE TO GROUND BAR (TOWER) (4/E01)
SCALE: N.T.S.

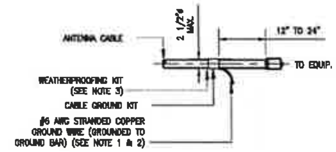
NOTES:
1. SURFACE PREPARATION: ALL CONNECTIONS MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE MADE BARE TO ENSURE PROPER CONTACT. NO WASHERS SHALL BE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS SHALL HAVE AN ANTI-OXIDANT AGENT APPLIED PRIOR TO INSTALLATION.
2. BUSS PREPARATION: ALL GALV. STEEL BUSSES SHALL BE CLEANED, POLISHED AND AN ANTI-OXIDANT APPLIED. NO FINGERPRINTS OR DISCOLORED STEEL WILL BE PERMITTED.
3. TERMINATIONS: ALL EQUIPMENT TERMINATIONS SHALL BE MADE WITH A BURNDY TWO HOLE COMPRESSION LUG WITH 10-24x3/4" LONG S.S. SCREWS, NUTS AND LOCK WASHERS. ALL BUSS TERMINATIONS SHALL BE MADE WITH A CAD-WELD OR BURNDY YC2C2 2 HOLE COMPRESSION LUG OR EQUAL. ALL INTERIOR HALO ATTACHMENTS SHALL BE MADE USING A BURNDY YC2C2 COMPRESSION LUG.



TYP. INTERIOR & EXTERIOR GROUND BAR (5/E01)
SCALE: N.T.S.

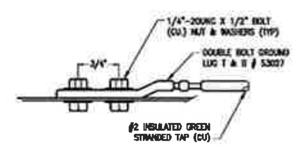


GROUND BAR DETAILS (6/E01)
SCALE: N.T.S.

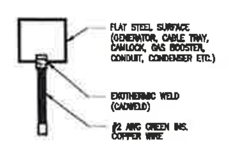


NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND & ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE & PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED.

CONN. OF CABLE GROUND KIT TO ANTENNA CABLE (7/E01)
SCALE: N.T.S.



TYP. EQUIPMENT GROUND CONNECTION (8/E01)
SCALE: N.T.S.



TYP. CADWELD #2 GREEN TO FLAT STEEL SURFACE (9/E01)
SCALE: N.T.S.

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STATE OF CONNECTICUT * JAMES M. FITZGERALD * No. 25997 * LICENSED * PROFESSIONAL CIVIL ENGINEER

1/29/24

CHECKED BY:	AMT
APPROVED BY:	AMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/25/24	ISSUED FOR CONSTRUCTION	CMC
0	01/25/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS

ROCKY NECK CT

40 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE:	[illegible]
MDG LOCATION ID:	[illegible]
FUZE PROJECT ID:	[illegible]

SHEET TITLE

GROUNDING NOTES & DETAILS

SHEET NUMBER

E01

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.50' PLATFORM

TOWER OWNER: SBA COMMUNICATIONS
TOWER OWNER SITE NUMBER: CT11794

CARRIER SITE NAME: ROCKY NECK CT
CARRIER SITE NUMBER: 5000122067
FUZE ID: 2505529

49 BRAINERD ROAD
NIANTIC, CT 06357
NEW LONDON COUNTY

LATITUDE: 41.307583° N
LONGITUDE: 72.223917° W

DESIGN CRITERIA

PROJECT INFORMATION

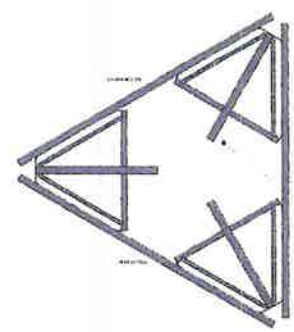
SHEET INDEX

BILL OF MATERIALS

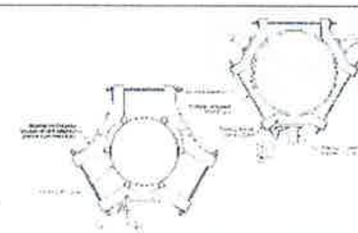
VZWSMART KITS - APPROVED VENDORS

GENERAL NOTES

TYP. BOLT ASSEMBLY



CLIMBING FACILITY LOCATION



PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW

CLIMBING FACILITY PHOTO

verizon

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WALLINGFORD, CT 06492
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LICENSED
PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/23/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS

ROCKY NECK CT

49 BRAINERD ROAD
NIANTIC, CT 06357

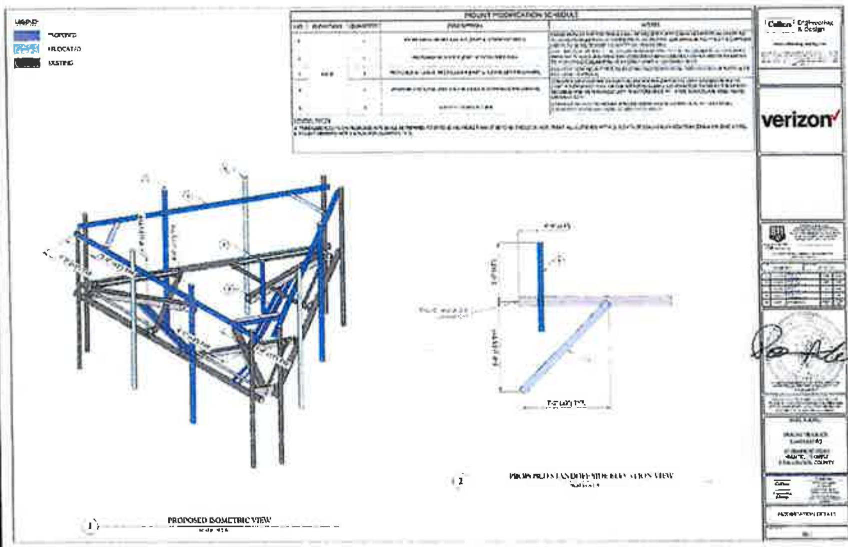
VZW LOCATION CODE:
MDG LOCATION ID:
FUZE PROJECT ID:

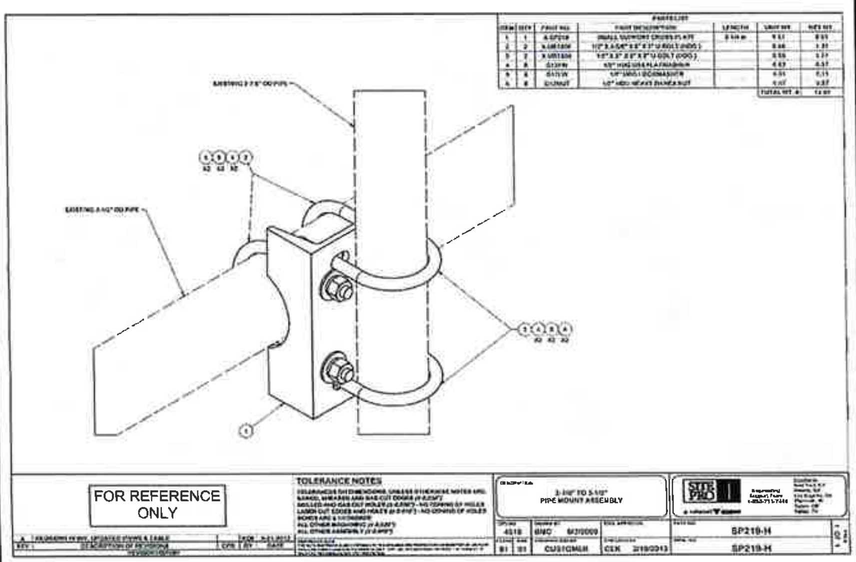
SHEET TITLE

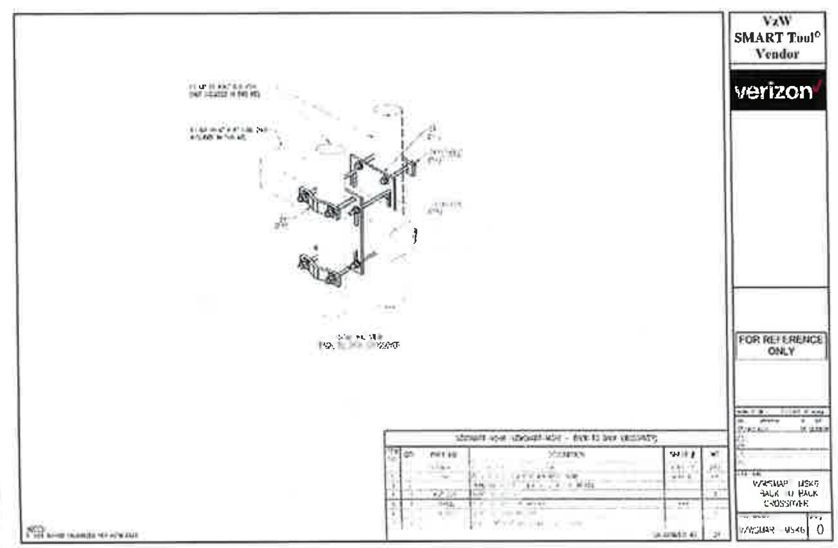
MOUNT MODIFICATION DRAWINGS I

SHEET NUMBER

MM01







verizon

20 ALEXANDER DRIVE, 2ND FLOOR
WALLINGFORD, CT 06492
(203) 741-7336

SBA

SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
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CHAPPELL ENGINEERING ASSOCIATES, LLC

R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
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www.chappellengineering.com

STATE OF CONNECTICUT * JAMES M. FITZGERALD No. 25997 LICENSED PROFESSIONAL CIVIL ENGINEER

1/29/24

CHECKED BY: JMT

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SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/25/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS

ROCKY NECK CT

40 BRAINERD ROAD
NIANTIC, CT 06357

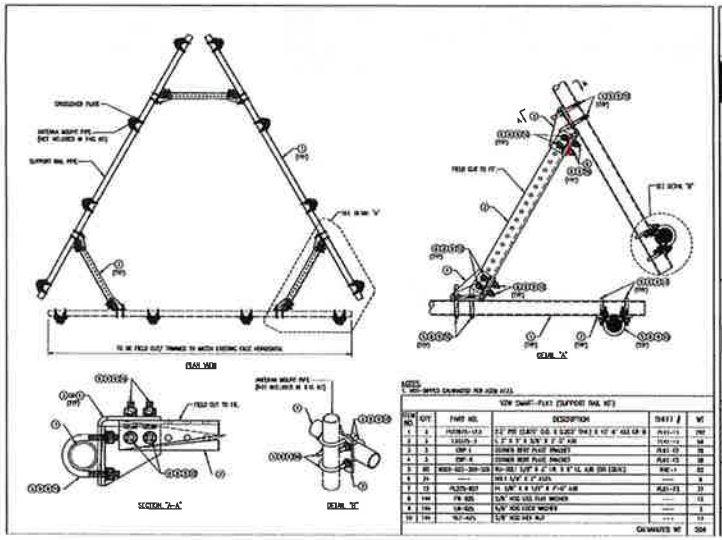
VZW LOCATION CODE: [illegible]
MDG LOCATION ID: [illegible]
FUZE PROJECT ID: [illegible]

SHEET TITLE

MOUNT MODIFICATION DRAWINGS II

SHEET NUMBER

MM02



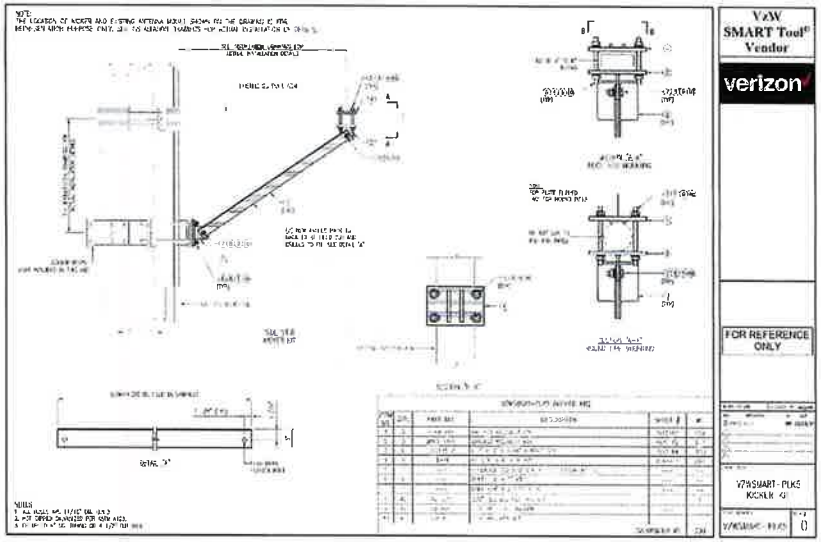
VzW SMART Tool® Vendor

verizon

FOR REFERENCE ONLY

VZWSMART-PLK1 SUPPORT RAIL KIT

VZWSMART-PLK1 0



VzW SMART Tool® Vendor

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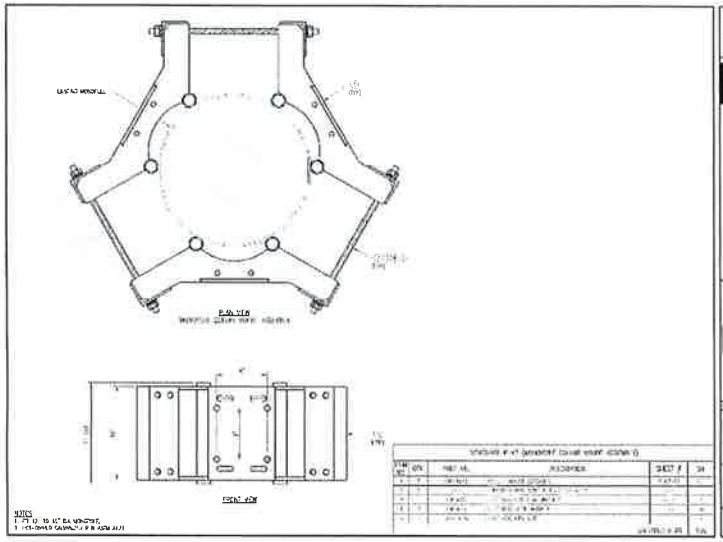
FOR REFERENCE ONLY

VZWSMART-PLK2 KICKER KIT



VzW SMART Tool® Vendor

verizon

FOR REFERENCE ONLY

VZWSMART-PLK3 MONOPOLE KICKER ASSEMBLY

VZWSMART-PLK3 0

verizon

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WALLINGFORD, CT 06492
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STATE OF CONNECTICUT
JAMES M. FITZGERALD
No. 25987
LICENSED
PROFESSIONAL CIVIL ENGINEER
1/29/24

CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	01/29/24	ISSUED FOR CONSTRUCTION	CMC
0	01/26/24	ISSUED FOR REVIEW	CMC

PROJECT NAME & ADDRESS

ROCKY NECK CT

49 BRAINERD ROAD
NIANTIC, CT 06357

VZW LOCATION CODE:

MDG LOCATION ID:

FUZE PROJECT ID:

SHEET TITLE

MOUNT MODIFICATION DRAWINGS III

SHEET NUMBER

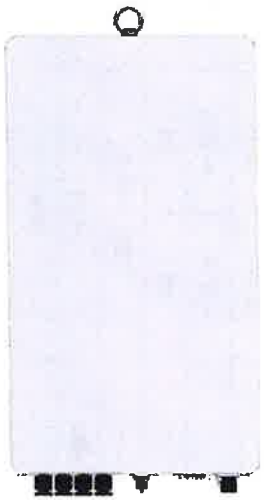
MM03

C-band 64T64R

SAMSUNG

Gen 2

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



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

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

Item	Gen 2 64T64R (MT6413-77A)
Air Technology	NR n77/TDD
Frequency	3700 – 3980 MHz
IBW	200 MHz
OBW	200 MHz
Carrier Bandwidth	20(HW ready)/40/60/80/100 MHz
# of Carriers	2 carriers
Layer	DL : 16L, UL : 16RX (8L)
RF Chain	64T64R
Antenna Configuration	4V16H with 192 AE
EIRP	80.5 dBm @320W (55 dBm + 25.5 dBi)
Conductive Power	320W
Spectrum Analyzer	TX/RX support
RX Sensitivity	Typical -97.8dBm @(1Rx, 18.36MHz with 30kHz,51RBs)
Modulation	DL 256QAM support, (DL 1024QAM with 1~2dB power back-off)
Function Split	DL/UL option 7-2x
Input Power	-48 VDC (-38 VDC to -57 VDC)
Power Consumption	1,287W (100% load, room temp.)
Size (WHD)	**400 x 734 x 140 mm (15.75 x 28.90 x 5.51 inch)**
Volume	**41.1L**
Weight	**26kg (57.3 lb)**
Operating Temperature	-40℃ - 55℃ (w/o solar load)
Cooling	Natural convection
Unwanted Emission	3GPP 38.104 FCC 47 CFR 27.53 : < -13dBm/MHz < -40 dBm/MHz @ above 4 GHz <-50 dBm /MHz @ 4,040 ~ 4,050 MHz, <-60 dBm /MHz @ above 4,050 MHz
Optic Interface	15km, 4 ports (25Gbps x 4), SFP28, single mode, Bi-di (Option: Duplex)
Mounting Options	Pole, wall
NB-IoT	Not support
External Alarm	4RX
Fronthaul Interface	eCPRI

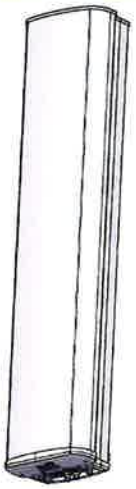
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 6 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs

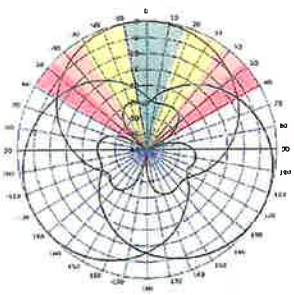


nwav

Fast Roll-Off antennas increase data throughput without compromising coverage

The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

Non-FRO antenna



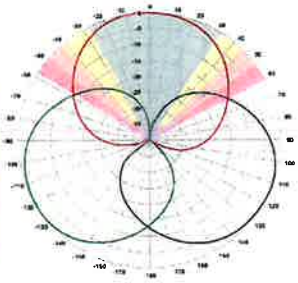
Large traditional antenna pattern overlap creates harmful interference.

JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

The LTE radio automatically selects the best throughput based on measured SINR.

JMA FRO antenna



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.0	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees	60.5	53.0	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>24	>24.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>15.0	>14.2	>18	>18	>15
Sector power ratio, percent	<3.5	<3.0	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees[1]	13.1	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB[1]	≤-15.0	≤-16.5	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB[1]	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

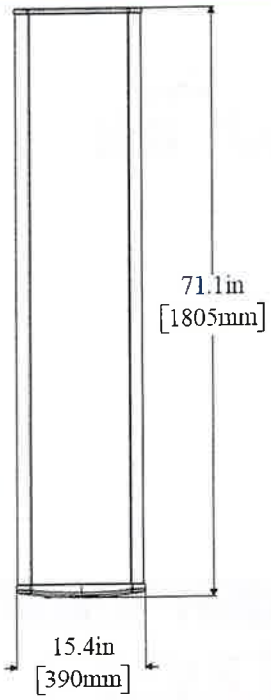
[1] Typical value over frequency and tilt

MX06FRO660-03

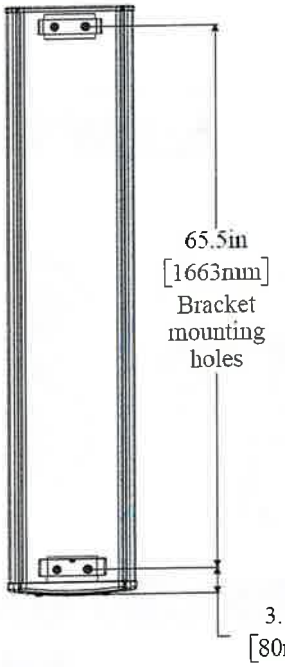
NWAV™ X-Pol Hex-Port Antenna

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	60 (27.0)
Shipping weight, lb (kg)	90 (41.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.6

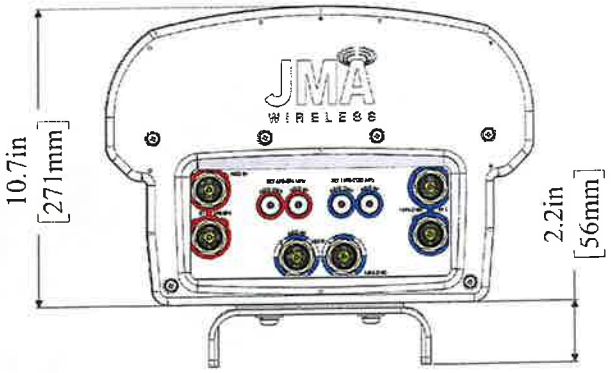
Front view



Back view



Bottom view



Ordering information	
Antenna model	**Description**
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

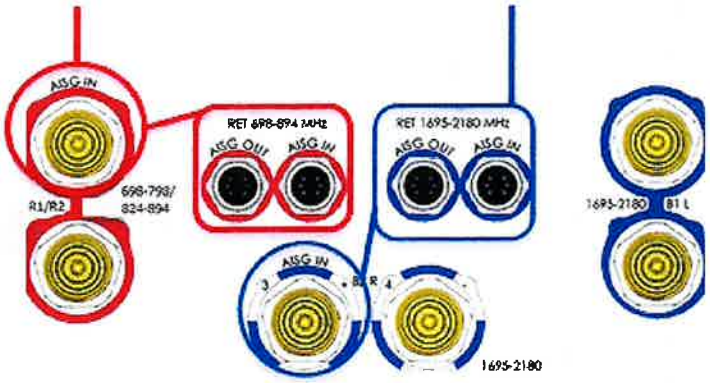
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:

RET device	Band	RF port
R1	698-798	1-2
R2	824-894	1-2

RET device	Band	RF port
B1/B2	1695-2180	3-6

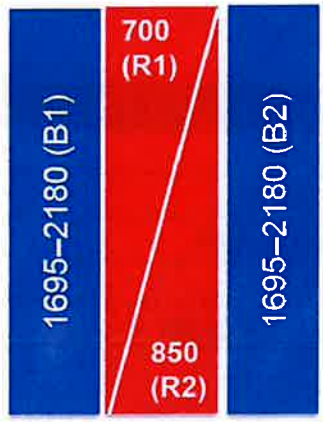


Array topology

3 sets of radiating arrays

R1/R2: 698-894 MHz
B1: 1695-2180 MHz
B2: 1695-2180 MHz

Band	RF port
1695-2180	3-4
698-894	1-2
1695-2180	5-6



SAMSUNG

AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

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

Model Code RF4439d-25A

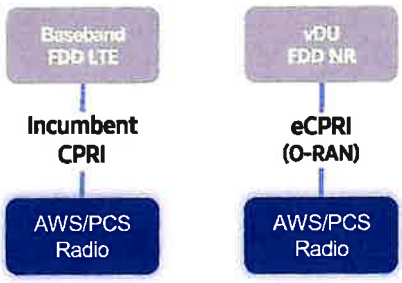
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

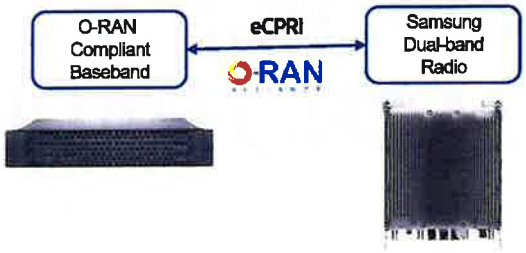
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

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

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



Optimum Spectrum Utilization

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

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

Supports up to 7 carriers

Brand New Features in a Compact Size

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

Same as an incumbent radio volume

+

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

Technical Specifications

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

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

SAMSUNG

Specifications

Item	Specification	
Air Interface	LTE, NR(HW resource ready)	
Band	Band13 (700MHz)	Band5 (850MHz)
Frequency	DL: 746~756MHz UL: 777~787MHz	DL: 869~894MHz UL: 824~849MHz
IBW	10MHz	25MHz
OBW	10MHz	25MHz
Carrier Bandwidth	LTE/NR 5*/10MHz	LTE 5/10MHz NR 5/10/15/20MHz
# of carriers	2C*	3C
Total # of carriers	4C + B13 (SDL) 1C	
RF Chain	4T4R/2T4R/2T2R/1T2R 2T2R+2T2R bi-sector	
RF Output Power	Total : 320W 4 x 40W or 2 x 60W	4 x 40W or 2 x 60W
Spectrum Analyzer	TX/RX Support	
RX Sensitivity	Typ. -104.5dBm @1Rx (25RBs 5MHz)	
Modulation	256QAM support, (1024QAM with 1~2dB power back-off)	
Input Power	-48VDC (-38VDC to -57VDC)	
Power Consumption	1,165 Watt @ 100% RF load, room temperature	
Size (WHD)	380 x 380 x 260 mm (14.96 x 14.96 x 10.23 inch)	
Volume	37.5 L	
Weight (W/o Solar Shield & finger guard)	35.9 kg (79.1 lb)	
Operating Temperature	-40°C (-40°F) ~ 55°C (131°F) (Without solar load)	
Cooling	Natural convection	
Unwanted Emission	3GPP 36.104 FCC 47 CFR 27.53 c), f) -	3GPP 36.104 FCC 47 CFR 22.917 -69 dBm/100 kHz per path @ 896 ~901MHz
CPRI Cascade	Not supported	
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP+, single mode, Duplex (Option: Bi-di)	
RET & TMA Interface	AISG 3.0	
Bias-T	4 ports (2 ports per band)	
Mounting Options	Pole, wall	
NB-IoT	2GB+2IB or 4IB	2SA+2GB or 2GB+2IE or 4GB
PIM Cancellation	Support	
# of antenna port	4	
External Alarm	4	
Fronthaul Interface	Opt. 8 CPRI / Opt. 7-2x selectable (not simultaneous support)	
CPRI compression	Not Support	

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

ATTACHMENT 3

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65 Dartmouth Drive
Auburn, NH 03032
(603) 644-2800
support@csquaredsystems.com

Calculated Radio Frequency Emissions Report

verizon

Rocky Neck CT

49 Brainerd Road, Niantic, CT 06357

February 7, 2024

Table of Contents

List of Figures

List of Tables

1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modification of Verizon's antenna arrays to be mounted at 147' on an existing monopole tower located at 49 Brainerd Road in Niantic, CT. The coordinates of the tower are 41° 18' 27.29" N, 72° 13' 26.11" W.

Verizon is proposing the following:

1) Install nine (9) multi-band antennas, three (3) per sector to support its commercial LTE and 5G network.

This report considers the planned antenna configuration for Verizon[1] as well as existing antenna configuration for AT&T[2], and T-Mobile[3] to derive the resulting % MPE of its proposed modification.

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

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

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

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment C of this report.

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

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

[1] As referenced to Verizon's Radio Frequency Design Sheet updated 08/16/2023.

[2] As referenced to AT&T's Connecticut Siting Council Notice of Exempt Modification – 49 Brainerd Road, Niantic, Connecticut, dated March 15, 2023.

[3] As referenced to T-Mobile's Connecticut Siting Council Exempt Modification Application – 49 Brainerd Road, East Lyme, Connecticut, dated June 2, 2022

3. RF Exposure Prediction Methods

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

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

Where:

EIRP = Effective Isotropic Radiated Power

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

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Off Beam Loss is determined by the selected antenna patterns

Ground reflection factor (GRF) of 1.6

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

4. Antenna Inventory

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

Operator	Sector / Call Sign	TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. Tilt	Length (ft)	Antenna Centerline Height (ft)
Verizon	Alpha / 40°	700	160	14.4	4407	MX06FRO660-03	60.5	0	5.94	147
		850	160	14.0	4019		53.0			
		1900	160	18.0	10095		55.0			
		2100	240	18.2	15857		55.5			
		3700	320	25.5	113540	MT6413-77A	-	0	2.46	147
	Beta / 135°	700	160	14.4	4407	MX06FRO660-03	60.5	0	5.94	147
		850	160	14.0	4019		53.0			
		1900	160	18.0	10095		55.0			
		2100	240	18.2	15857		55.5			
		3700	320	25.5	113540	MT6413-77A	-	0	2.46	147
	Gamma / 280°	700	160	14.4	4407	MX06FRO660-03	60.5	0	5.94	147
		850	160	14.0	4019		53.0			
		1900	160	18.0	10095		55.0			
		2100	240	18.2	15857		55.5			
		3700	320	25.5	113540	MT6413-77A	-	0	2.46	147

Table 1: Proposed Antenna Inventory[4][5]

[4] Antenna heights are in reference to Verizon's Radio Frequency Design Sheet updated 08/16/2023.

[5] Transmit power assumes 0 dB of cable loss.

5. Calculation Results

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

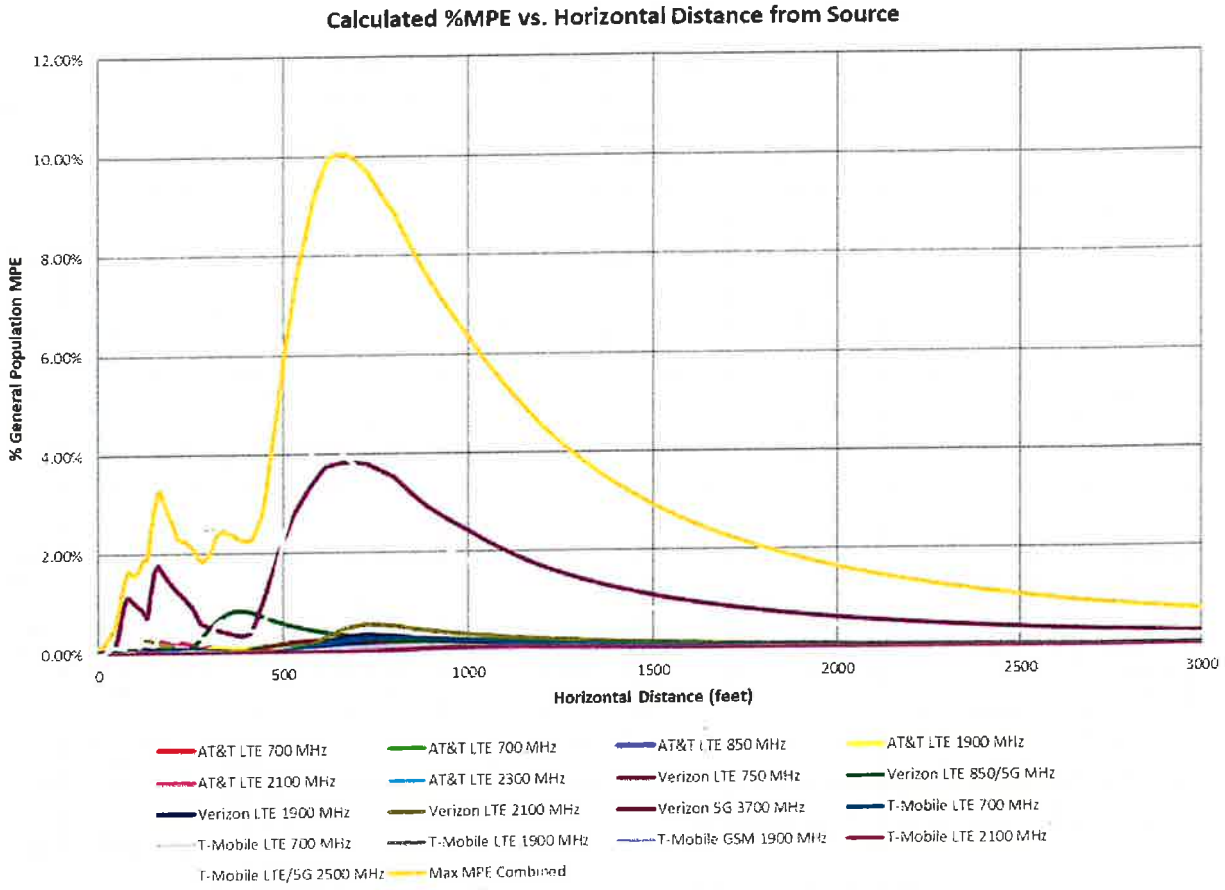


Figure 1: Graph of General Population % MPE vs. Distance

The highest percent of MPE (10.06% of the General Population limit) is calculated to occur at a horizontal distance of 663 feet from antennas. Please note that the percent of MPE calculations close to the site take into account off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1500 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, RF levels become calculated solely on distance from the site and the percent of MPE decreases significantly as distance from the site increases.

Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. The highest percent of MPE value was calculated to occur at a horizontal distance of 663 feet from the site (reference Figure 1).

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

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm^2)	Limit (mW/cm^2)	% MPE
AT&T LTE 1900 MHz	1	160.0	168.0	663	0.000235	1.000	0.02%
AT&T LTE 2100 MHz	1	160.0	168.0	663	0.000251	1.000	0.03%
AT&T LTE 2300 MHz	4	18.8	168.0	663	0.000059	1.000	0.01%
AT&T LTE 700 MHz	4	30.0	168.0	663	0.000522	0.467	0.11%
AT&T LTE 700 MHz	4	30.0	168.0	663	0.000810	0.467	0.17%
AT&T LTE 850 MHz	4	30.0	168.0	663	0.001001	0.567	0.18%
T-Mobile GSM 1900 MHz	4	30.0	160.0	663	0.000081	1.000	0.01%
T-Mobile LTE 1900 MHz	2	60.0	160.0	663	0.000081	1.000	0.01%
T-Mobile LTE 2100 MHz	2	60.0	160.0	663	0.000114	1.000	0.01%
T-Mobile LTE 700 MHz	1	140.0	160.0	663	0.000961	0.400	0.24%
T-Mobile LTE 700 MHz	2	30.0	160.0	663	0.000442	0.467	0.09%
T-Mobile LTE/5G 2500 MHz	1	240.0	140.0	663	0.039707	1.000	3.97%
Verizon 5G 3700 MHz	1	320.0	147.0	663	0.038319	1.000	3.83%
Verizon LTE 1900 MHz	1	160.0	147.0	663	0.003100	1.000	0.31%
Verizon LTE 2100 MHz	1	240.0	147.0	663	0.004757	1.000	0.48%
Verizon LTE 750 MHz	1	160.0	147.0	663	0.001209	0.500	0.24%
Verizon LTE 850/5G MHz	1	160.0	147.0	663	0.001963	0.567	0.35%
						Total	**10.06%**

Table 2: Maximum Percent of General Population Exposure Values[6][7][8]

[6] Frequencies listed are representative of the operating band and are not the specific operating frequency.

[7] The total % MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

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

6. Conclusion

The above analysis verifies that RF exposure levels from the site with Verizon's proposed antenna configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all transmitters is calculated to be **10.06%** of the FCC limit (General Population/Uncontrolled). This maximum cumulative percent of MPE value is calculated to occur 663 feet away from the site.

7. Statement of Certification

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

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

February 6, 2024
Date

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

February 7, 2024
Date

Attachment A: References

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

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

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

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

(A) Limits for Occupational/Controlled Exposure[9]

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

(B) Limits for General Population/Uncontrolled Exposure[10]

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

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

Table 3: FCC Limits for Maximum Permissible Exposure

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

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

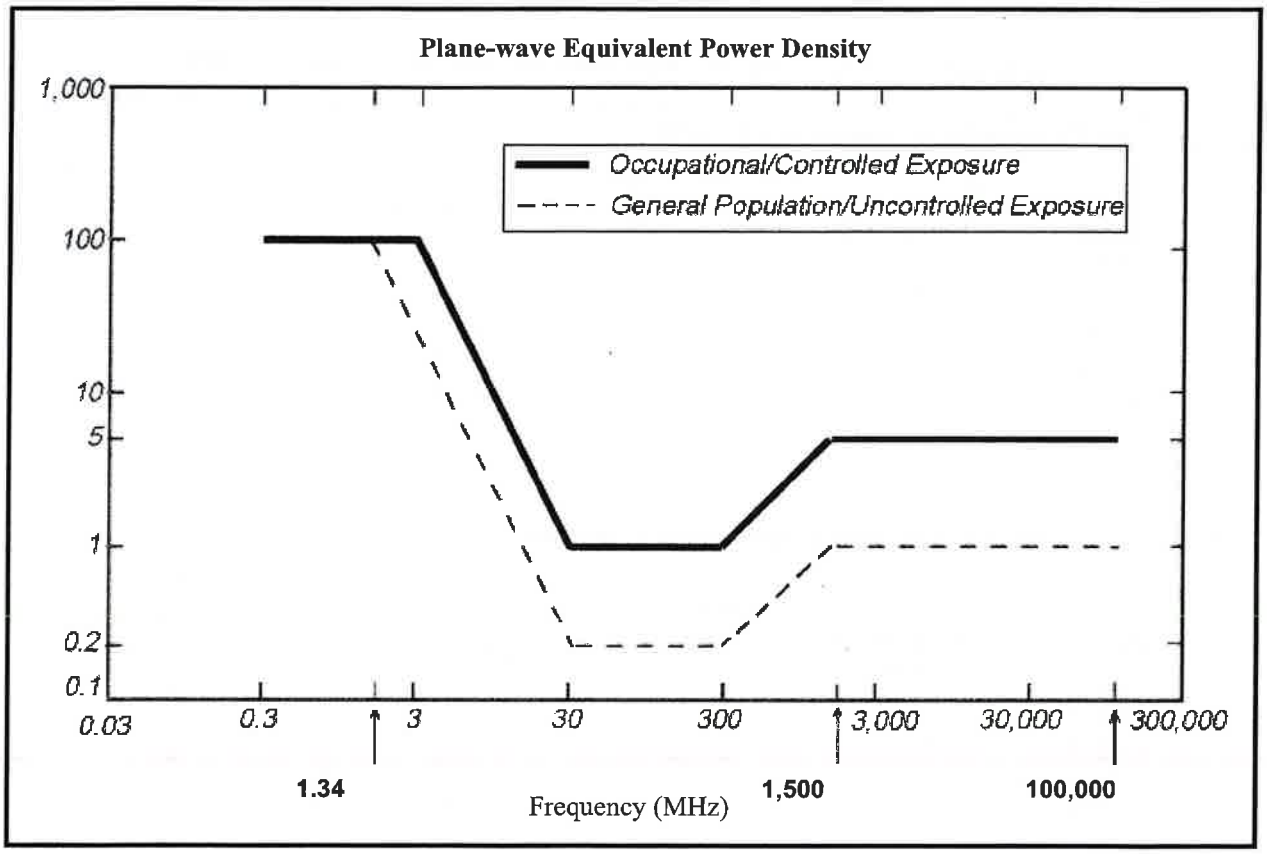
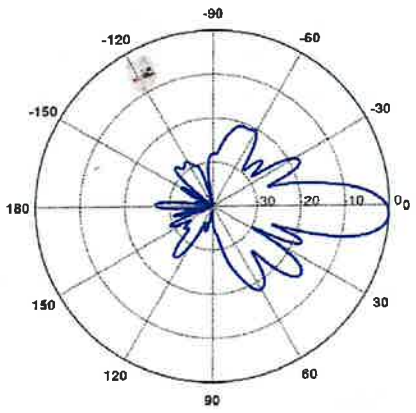


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: Verizon Antenna Model Data Sheets and Electrical Patterns

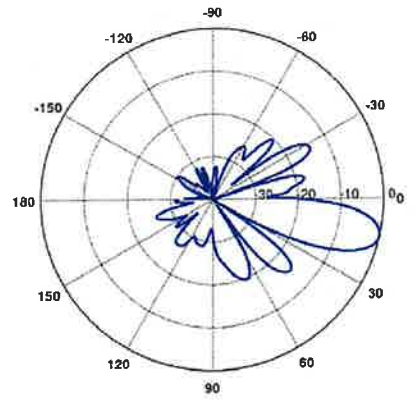
750 MHz

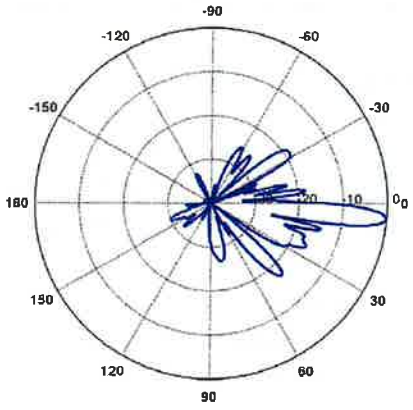
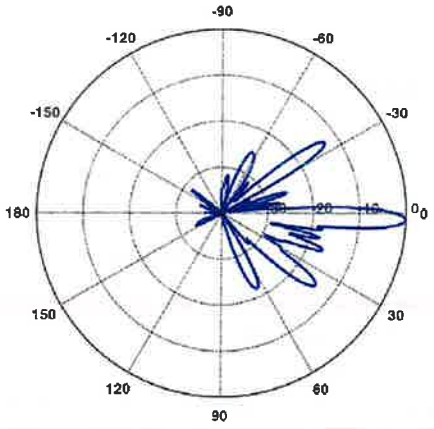
Manufacturer:	JMA
Model #:	MX06FRO660-03
Frequency Band:	698-798 MHz
Gain:	14.4 dBi
Vertical Beamwidth:	13.1°
Horizontal Beamwidth:	60.5°
Polarization:	±45°
Dimensions (L x W x D):	71.3" x 15.4" x 10.7"



885 MHz

Manufacturer:	JMA
Model #:	MX06FRO660-03
Frequency Band:	824-894 MHz
Gain:	14.0 dBi
Vertical Beamwidth:	11.8°
Horizontal Beamwidth:	53.0°
Polarization:	±45°
Dimensions (L x W x D):	71.3" x 15.4" x 10.7"



1900 MHz Manufacturer: JMA Model #: MX06FRO660-03 Frequency Band: 1850-1990 MHz Gain: 18.0 dBi Vertical Beamwidth: 5.5° Horizontal Beamwidth: 55.0° Polarization: ±45° Dimensions (L x W x D): 71.3" x 15.4" x 10.7"	
2100 MHz Manufacturer: JMA Model #: MX06FRO660-03 Frequency Band: 1920-2180 MHz Gain: 18.2 dBi Vertical Beamwidth: 5.5° Horizontal Beamwidth: 55.5° Polarization: ±45° Dimensions (L x W x D): 71.3" x 15.4" x 10.7"	

ATTACHMENT 4

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sbasite.com

Structural Analysis Report

Client: Verizon

Client Site ID / Name: Rocky Neck CT / 5000122067
Application #: 243517, v1

SBA Site ID / Name: CT11794-S / East Lyme 1

170 ft Monopole

49 Brainerd Road
Niantic, Connecticut 06357
Lat: 41.307583, Long: -72.223917

Project number: CT11794-VZW-011124

Analysis Results

Tower	82.8%	Pass
Foundation	93.0%	Pass

Change in tower stress due to mount modification / replacement	N/A

Prepared by:

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Structural Engineer I
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Reviewed by:

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January 11, 2024

STATE OF CONNECTICUT
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Reviewed by:

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January 11, 2024

Table of Contents

Introduction

The purpose of this report is to summarize the analysis results on the 170 ft Monopole to support the proposed antennas and transmissions lines in addition to those currently installed.

Table 1 List of Documents Used

Item	Document
Tower design/drawings	Sabre Towers & Poles, Job# 42498, Dated 04/06/2011
Foundation drawings	Sabre Towers & Poles, Job# 42498, Dated 04/06/2011
Geotechnical report	Tower Engineering Professionals, Project #: 103196.01, Dated 03/18/2011.
Modification drawings	N/A
Carrier MA	Colliers Engineering & Design, Project # 21781129 (Rev. 3), Dated 10/11/2023
Latest SA	SBAE, Project # CT11794-DW-082323, Dated 08/24/2023

Analysis Criteria

Table 2 Code Related Data

Jurisdiction (State/County/City)	Connecticut/NEW LONDON/Niantic
Governing Codes	ANSI/TIA/EIA 222-H, 2021 IBC / 2022 CSBC
Ultimate Wind Speed (3-Sec gust)	126.0 mph
Wind Speed with Ice (3-Sec gust)	50 mph
Service Wind Speed (3-Sec gust)	60 mph
Ice Thickness	1.00"
Risk Category	II
Exposure Category	C
Topographic Category	1
Crest Height	0 ft
Ground Elevation	13.5 ft.
Seismic Parameter S_s	0.195
Seismic Parameter S_1	0.053

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

Appurtenance Loading

Existing Loading:

Table 3 Existing Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	171.75	3	Ericsson AIR 6419 B77G - Panel	(3) Reinforced T-Arms	(1) 2" Conduit housing (1) 3/8" Fiber & (2) 0.64" Fiber (1) 1/2" Fiber (4) 0.64" DC Power (6) 1 5/8" (1) 1.5" Fiber	AT&T
2	170.0	6	Ericsson RRUS-12 RRU			
3		3	Ericsson RRUS-32 RRU			
4		6	Ericsson RRUS A2 RRU			
5		3	Raycap DC6-48-60-18-8F			
6		3	CCI DTMABP7819VG12A TMA			
7		1	CCI TPA65R-BU4DA-K - Panel			
8		1	CCI TPA65R-BU6DA-K - Panel			
9		1	CCI TPA65R-BU8DA-K - Panel			
10		3	Ericsson 8843 B2 B66A RRU			
11		1	CCI OPA65R-BU4DA - Panel			
12		1	Commscope NNHH-65B-R4 - Panel			
13		1	Commscope OPA65R-BU8DA - Panel			
14		3	Ericsson RRUS 4478 B14 RRU			
15		3	Ericsson 4449 B5/B12 RRU			
16	168.75	3	Ericsson AIR 6449 B77D - Panel			
17	160.0	3	Ericsson KRY 112 144/1 TMA	(3) Modified T-Arm w/ Site Pro 1: PRK-1245L and PRK-SFS-L	(7) 1 5/8" (3) 1 5/8" Fiber (2) 1.9" Fiber	T-Mobile
18		3	Ericsson AIR 6419 B41 - Panel			
19		3	Commscope VV-65A-R1 - Panel			
20		3	RFS APXVAALL24_43-U-NA20 - Panel			
21		3	Ericsson 4449 B71 + B85 RRU			
22		3	Ericsson 4460 B25/B66A RRU			
23	147.0	3	Samsung MT6407-77A - Panel	Low Profile Platform Mofidied	(12) 1 5/8" (2) 1-1/4" Hybriflex	Verizon
24		3	Samsung RF4440d-13A			
25		1	Raycap 12 OVP			
27		6	JMA Wireless MX06FRO660-03 - Panel			
28		3	Samsung B2/B66A RRH ORAN (RF4439d-25A) RRU			
31	135.0	3	Commscope FFVV-65B-R2 - Panel	Platform w/HRK Commscope: MC-PK8-DSH	(1) 1.60" Hybrid	Dish Wireless
32		3	Samsung RF4450t-71A RRU			
33		3	Samsung RF4451d-70A RRU			
34		1	Raycap RDIDC-9181-PF-48			

Proposed Loading:

Information pertaining to proposed antennas and transmission lines were based upon the Application #: 243517, v1 from Verizon and is listed in Table 4.

Table 4 Proposed Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
26	147.0	3	Samsung MT6413-77A - Panel	Low Profile Platform Mofidied	(2) 1-1/4" Hybriflex (12) 1 5/8"	Verizon
27		6	JMA Wireless MX06FRO660-03 - Panel			
28		3	Samsung B2/B66A RRH ORAN (RF4439d-25A) RRU			
29		3	Samsung RF4461d-13A RRU			
30		1	Raycap RVZDC-6627-PF-48 OVP			

Analysis Results

Tower

The results of the structural analysis are shown below in table 5. Additional information for the tower analysis is provided within the Appendix.

Table 5 Tower Analysis Summary

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	82.8%	81.1%	48.8%
Pass/Fail	Pass	Pass	Pass

Foundation

The results of the foundation analysis are shown below in table 6. Additional information for the foundation analysis is provided within the Appendix.

Table 6 Foundation Analysis Summary

Structural Component	Max Usage (%)	Analysis Result
Foundation	93.0%	Pass

Conclusions

Based on the analysis results, the existing tower and foundation were found to be ***sufficient*** to safely support the equipment listed in this analysis. No modification to the tower and foundation is needed at this time.

Installation Requirements

This analysis was performed under the assumption that the carrier will place the proposed equipment and feed lines at the installation height listed in Table 4 and in accordance with the coax layout shown. TMAs and RRUs are to be installed on existing mounts behind tenant's antennas unless otherwise noted. No equipment is to be installed directly in the climbing path. All equipment is to be installed per mount manufacturer specifications. In case site conditions do not allow for the required installation parameters to be met the carrier must notify SBA Communications Corporation engineers for approval of an alternative placement.

Assumptions and Limitations

Assumptions

This analysis was completed based on the following assumptions:

- Tower and foundation were built in accordance to manufacturer specifications.
- Tower and foundation has been properly maintained in accordance with the manufacturer's specifications
- All existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion
- Welds and bolts are assumed able to carry their intended original design loads.
- The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 3 and 4.
- This analysis may be affected if any assumptions are not valid or have been made in error. SBA should be notified to determine the effect on the structural integrity of the tower.

Limitations

The computer generated analysis performed by the tower software is limited to theoretical capacities of the towers structural members and does not account for any missing or damaged members or connections. The tower and foundation are assumed to have been properly designed, fabricated, installed and maintained, barring any conflicting findings from the most recent inspection.

SBA Communications Corporation has used its due diligence to verify the information provided to perform this analysis. It is unreasonable to perform a more detailed inspection of a tower and its components. This report is not a condition assessment of the tower or foundation.

Appendix

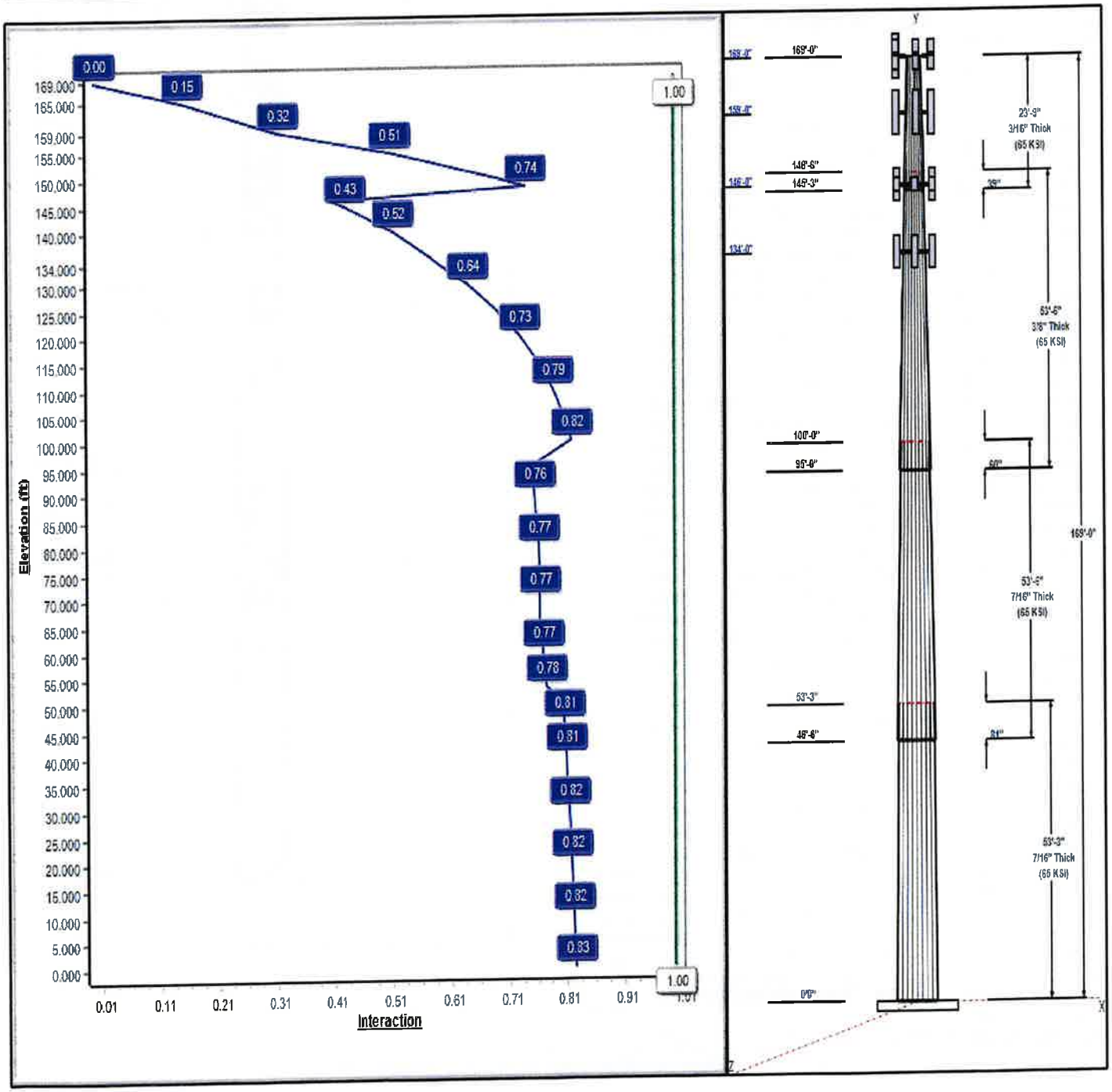
Usage Diagram - Max Ratio 82.83% at 0.0ft

Structure:	CT11794-S	**Code:**	EIA/TIA-222-H	1/11/2024
Site Name:	East Lyme 1	**Exposure:**	C	
Height:	169.00 (ft)	**Gh:**	1.1	
Base Elev:	1.000 (ft)			Page: 1

SBA

Dead Load Factor:	1.20	**Iterations:**	26
Wind Load Factor:	1.00		

Load Case : 1.2D + 1.0W 126 mph Wind



Structure: CT11794-S

Type: Tapered
Site Name: East Lyme 1
Height: 169.00 (ft)
Base Elev: 1.00 (ft)

Base Shape: 18 Sided
Taper: 0.27302

1/11/2024

Shaft Properties

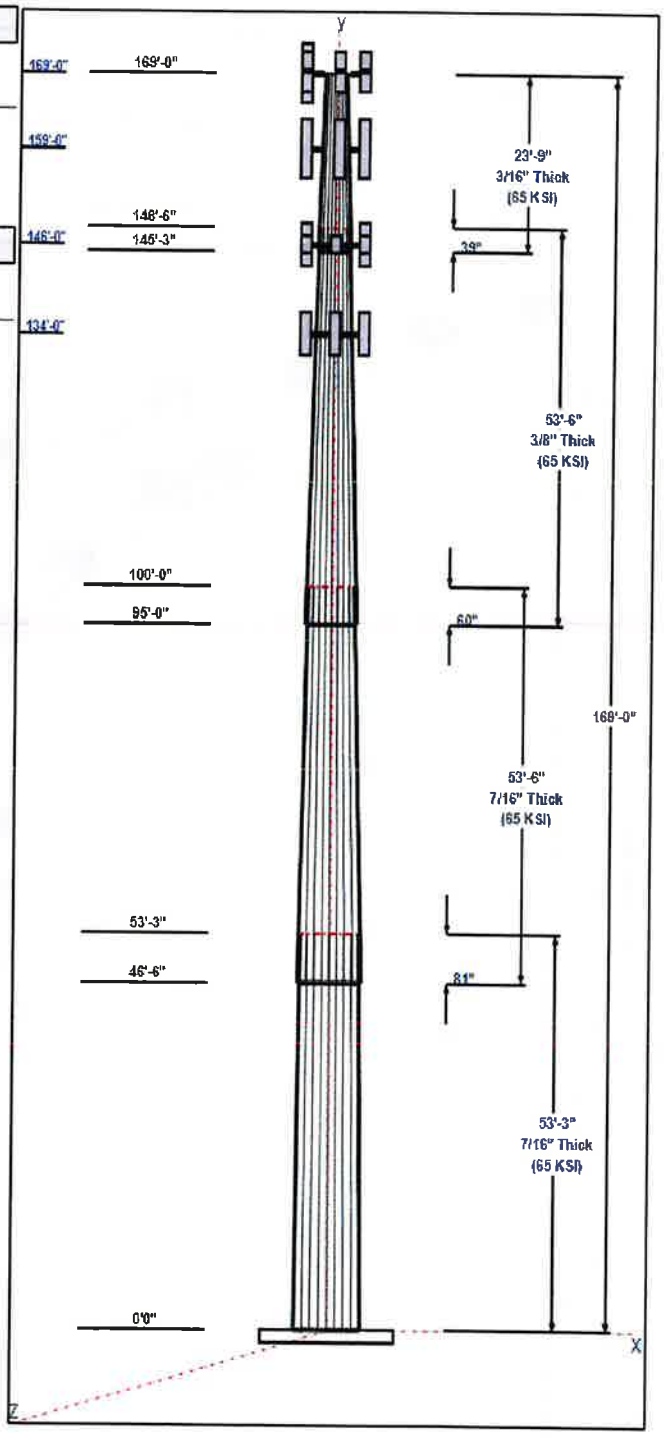
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	53.25	45.60	60.14	0.438		0.27302	65
2	53.50	33.71	48.32	0.438	Slip	0.27302	65
3	53.50	21.22	35.83	0.375	Slip	0.27302	65
4	23.75	16.00	22.48	0.188	Slip	0.27302	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
169.00	169.00	6	Ericsson RRUS-12 RRU	AT&T
169.00	169.00	3	Ericsson RRUS 32 RRU	AT&T
169.00	169.00	6	Ericsson RRUS A2 RRU	AT&T
169.00	169.00	3	Raycap DC6-48-60-18-8F	AT&T
169.00	169.00	3	Reinforced T-Arms	AT&T
169.00	169.00	3	CCI DTMABP7819VG12A	AT&T
169.00	167.75	3	Ericsson AIR 6449 B77D	AT&T
169.00	170.75	3	Ericsson AIR 6419 B77G	AT&T
169.00	169.00	1	CCI TPA65R-BU4DA-K	AT&T
169.00	169.00	1	CCI TPA65R-BU6DA-K	AT&T
169.00	169.00	1	CCI TPA65R-BU8DA-K	AT&T
169.00	169.00	3	Ericsson 8843 B2 B66A	AT&T
169.00	169.00	1	CCI OPA65R-BU4DA	AT&T
169.00	169.00	1	Commscope	AT&T
169.00	169.00	1	Commscope	AT&T
169.00	169.00	3	Ericsson RRUS 4478 B14	AT&T
169.00	169.00	3	Ericsson 4449 B5/B12	AT&T
169.00	169.00	12	mount pipe	T-Mobile
159.00	159.00	12	mount pipe	T-Mobile
159.00	159.00	3	Ericsson KRY 112 144/1	T-Mobile
159.00	159.00	1	PRK-1245L	T-Mobile
159.00	159.00	1	PRK-SFS-L	T-Mobile
159.00	159.00	3	T-Arm	T-Mobile
159.00	159.00	3	Ericsson AIR 6419 B41	T-Mobile
159.00	159.00	3	Commscope VV-65A-R1	T-Mobile
159.00	159.00	3	RFS	T-Mobile
159.00	159.00	3	Ericsson 4449 B71 + B85	T-Mobile
159.00	159.00	3	Ericsson 4460 B25/B66A	T-Mobile
146.00	146.00	6	JMA Wireless	Verizon
146.00	146.00	3	Samsung B2/B66A RRH	Verizon
146.00	146.00	1	Mods	Verizon
146.00	146.00	1	Low Profile Platform	Verizon
146.00	146.00	12	mount pipe	Verizon
146.00	146.00	3	Samsung MT6413-77A	Verizon
146.00	146.00	3	Samsung RF4461d-13A	Verizon
146.00	146.00	1	Raycap	Verizon
146.00	146.00	3	Antenna Bracket JWA	Verizon
134.00	134.00	3	Commscope	Dish Wireless
134.00	134.00	3	Samsung RF4450t-71A	Dish Wireless
134.00	134.00	3	Samsung RF4451d-70A	Dish Wireless
134.00	134.00	1	Raycap	Dish Wireless
134.00	134.00	1	Platform w/HRK	Dish Wireless

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier



0.00	169.00	Inside	0.64" DC Power	AT&T
0.00	169.00	Inside	0.64" Fiber	AT&T
0.00	169.00	Inside	1 5/8" Coax	AT&T
0.00	169.00	Inside	1.5" Fiber	AT&T
0.00	169.00	Inside	1/2" Fiber	AT&T
0.00	169.00	Inside	2" Conduit	AT&T
0.00	169.00	Inside	3/8" Fiber	AT&T
0.00	169.00	Outside	Safety Cable	
0.00	169.00	Outside	Step bolts	
0.00	159.00	Inside	1 5/8" Coax	T-Mobile
0.00	159.00	Inside	1 5/8" Fiber	T-Mobile
0.00	159.00	Inside	1.9" Fiber	T-Mobile
0.00	146.00	Inside	1 5/8" Coax	Verizon
0.00	146.00	Inside	1-1/4" Hybriflex	Verizon
0.00	134.00	Inside	1.60" Hybrid	Dish Wireless

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
20	2.25" 18J	75.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.7500	72.8	50.0	Round

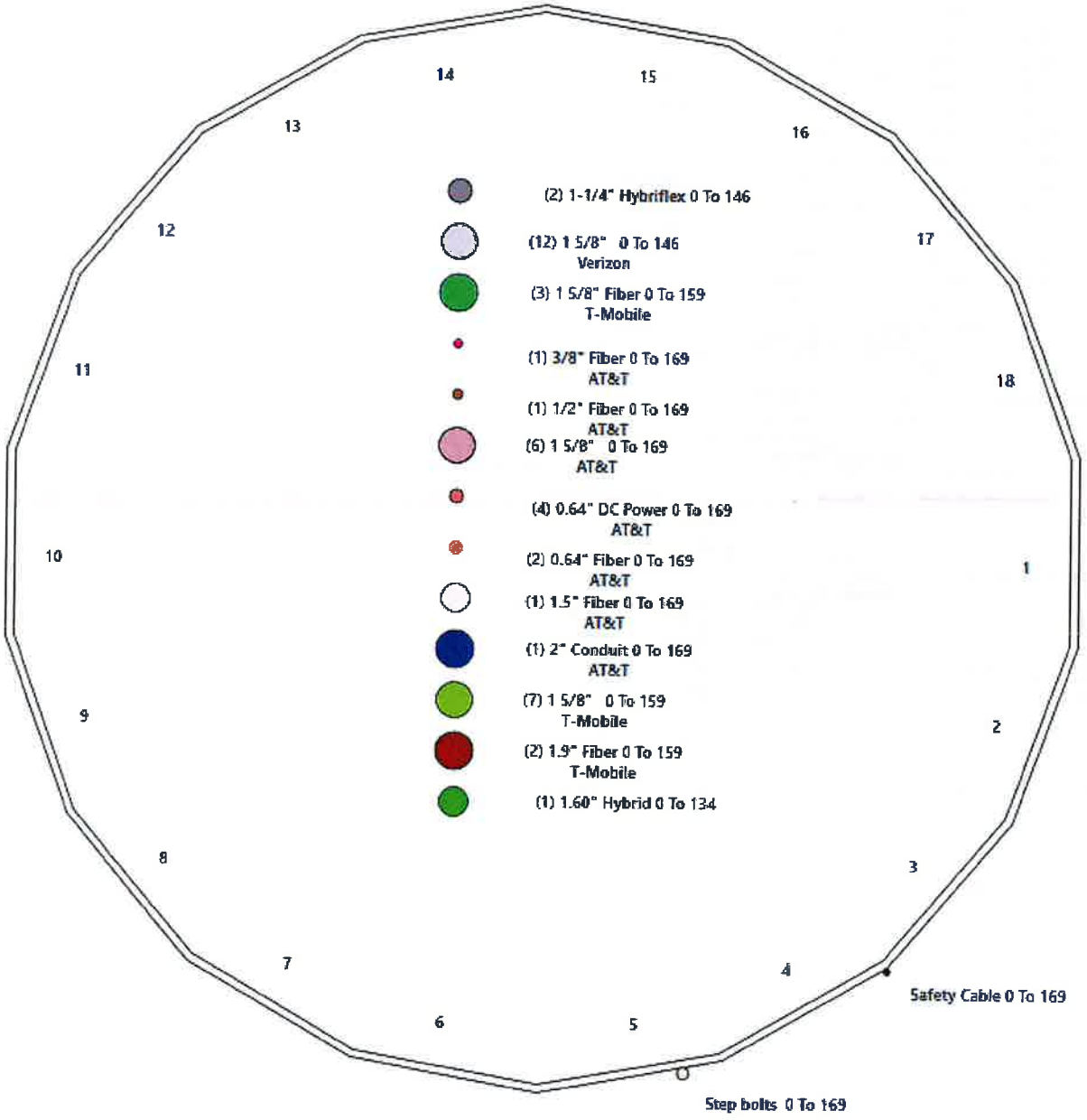
Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 126 mph Wind	5582.2	43.5	60.4
0.9D + 1.0W 126 mph Wind	5498.2	43.5	45.3
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1246.1	10.3	62.2
1.2D + 1.0Ev + 1.0Eh	120.6	0.8	62.7
0.9D + 1.0Ev + 1.0Eh	119.2	0.8	47.4
1.0D + 1.0W 60 mph Wind	1125.1	8.8	50.4

Structure: CT11794-S - Coax Line Placement

Type: Monopole
Site Name: East Lyme 1
Height: 169.00 (ft)

1/11/2024



Shaft Properties

Structure:	CT11794-S		**Code:**	TIA-222-H	1/11/2024
Site Name:	East Lyme 1		**Exposure:**	C	
Height:	169.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 5

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	53.250	0.4375	65		0.00	13,193
2	18	53.500	0.4375	65	Slip	81.00	10,258
3	18	53.500	0.3750	65	Slip	60.00	6,099
4	18	23.750	0.1875	65	Slip	39.00	916
					Total Shaft Weight:		**30,466**

	Bottom						Top						
Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	60.14	0.00	82.90	37333.61	22.83	137.46	45.60	53.25	62.71	16162.5	16.97	104.2	0.273018
2	48.32	46.50	66.49	19259.46	18.06	110.44	33.71	100.00	46.21	6464.05	12.18	77.06	0.273018
3	35.83	95.00	42.20	6701.10	15.44	95.54	21.22	148.50	24.81	1362.38	8.57	56.59	0.273018
4	22.48	145.2	13.27	833.42	19.73	119.92	16.00	169.00	9.41	297.27	13.64	85.33	0.273018

Load Summary

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 6	

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	No Ice CaAa Factor	Ice Weight (lb)	Ice CaAa (sf)	Ice CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	169.00	Ericsson RRUS-12 RRU	6	58.00	3.15	0.67	117.87	3.618	0.67	0.00	0.00
2	169.00	Ericsson RRUS 32 RRU	3	77.00	3.87	0.67	148.61	3.836	0.67	0.00	0.00
3	169.00	Ericsson RRUS A2 RRU	6	22.00	1.86	0.67	47.30	2.517	0.67	0.00	0.00
4	169.00	Raycap DC6-48-60-18-8F	3	32.80	1.47	0.67	74.53	1.942	0.67	0.00	0.00
5	169.00	Reinforced T-Arms	3	450.00	14.00	1.00	662.06	22.247	1.00	0.00	0.00
6	169.00	CCI DTMABP7819VG12A TMA	3	19.18	1.14	0.67	36.39	1.659	0.67	0.00	0.00
7	169.00	Ericsson AIR 6449 B77D	3	88.00	4.13	0.85	175.35	4.697	0.85	0.00	-1.25
8	169.00	Ericsson AIR 6419 B77G	3	66.10	3.80	0.76	131.05	4.337	0.76	0.00	1.75
9	169.00	CCI TPA65R-BU4DA-K	1	67.50	12.87	0.72	269.05	13.865	0.72	0.00	0.00
10	169.00	CCI TPA65R-BU6DA-K	1	67.50	12.87	0.72	269.05	13.865	0.72	0.00	0.00
11	169.00	CCI TPA65R-BU8DA-K	1	82.50	17.87	0.72	350.22	19.083	0.72	0.00	0.00
12	169.00	Ericsson 8843 B2 B66A RRU	3	72.00	1.64	0.67	103.62	1.975	0.67	0.00	0.00
13	169.00	CCI OPA65R-BU4DA	1	43.00	4.96	0.94	138.89	5.605	0.94	0.00	0.00
14	169.00	Commscope NNHH-65B-R4	1	79.00	12.27	1.00	259.63	13.253	1.00	0.00	0.00
15	169.00	Commscope OPA65R-BU8DA	1	79.00	17.87	1.00	322.17	19.083	1.00	0.00	0.00
16	169.00	Ericsson RRUS 4478 B14 RRU	3	59.40	1.65	0.67	87.39	2.000	0.67	0.00	0.00
17	169.00	Ericsson 4449 B5/B12 RRU	3	71.00	1.97	0.67	107.04	2.340	0.67	0.00	0.00
18	169.00	mount pipe	12	30.00	1.36	1.00	44.14	2.161	1.00	0.00	0.00
19	159.00	mount pipe	12	30.00	1.38	1.00	44.05	2.188	1.00	0.00	0.00
20	159.00	Ericsson KRY 112 144/1 TMA	3	11.00	0.41	0.70	18.23	0.729	0.70	0.00	0.00
21	159.00	PRK-1245L	1	464.91	9.50	1.00	682.68	16.175	1.00	0.00	0.00
22	159.00	PRK-SFS-L	1	394.00	16.60	1.00	879.74	24.764	1.00	0.00	0.00
23	159.00	T-Arm	3	400.00	8.00	1.00	587.36	12.684	1.00	0.00	0.00
24	159.00	Ericsson AIR 6419 B41	3	133.20	6.53	0.70	237.07	7.239	0.70	0.00	0.00
25	159.00	Commscope VV-65A-R1	3	29.50	7.90	0.74	138.13	8.740	0.74	0.00	0.00
26	159.00	RFS APXVAALL24_43-U-NA20	3	122.80	20.24	0.73	398.08	21.499	0.73	0.00	0.00
27	159.00	Ericsson 4449 B71 + B85 RRU	3	73.20	1.97	0.67	111.94	2.352	0.67	0.00	0.00
28	159.00	Ericsson 4460 B25/B66A RRU	3	72.00	1.64	0.67	103.43	1.973	0.67	0.00	0.00
29	146.00	JMA Wireless MX06FRO660-03	6	60.00	9.87	0.87	226.48	10.759	0.88	0.00	0.00
30	146.00	Samsung B2/B66A RRH ORAN	3	74.71	1.87	0.84	108.33	2.231	0.85	0.00	0.00
31	146.00	Mods	1	465.04	13.79	1.00	789.02	20.195	1.00	0.00	0.00
32	146.00	Low Profile Platform	1	1250.00	14.69	1.00	1975.71	22.877	1.00	0.00	0.00
33	146.00	mount pipe	12	30.00	1.47	1.00	47.42	2.289	1.00	0.00	0.00
34	146.00	Samsung MT6413-77A	3	57.30	3.79	0.69	119.24	4.323	0.71	0.00	0.00
35	146.00	Samsung RF4461d-13A RRU	3	72.50	1.87	0.67	133.28	2.537	0.67	0.00	0.00
36	146.00	Raycap RVZDC-6627-PF-48 OVP	1	32.00	4.06	1.00	108.32	4.741	1.00	0.00	0.00
37	146.00	Antenna Bracket JWA Wireless:	3	28.00	0.00	1.00	44.26	0.000	1.00	0.00	0.00
38	134.00	Commscope FFVV-65B-R2	3	70.80	12.27	0.73	246.89	13.229	0.75	0.00	0.00
39	134.00	Samsung RF4450t-71A RRU	3	94.58	2.06	0.67	158.34	2.658	0.67	0.00	0.00
40	134.00	Samsung RF4451d-70A RRU	3	61.30	1.88	0.67	102.63	2.425	0.67	0.00	0.00
41	134.00	Raycap RDIDC-9181-PF-48	1	21.85	2.01	1.00	49.87	2.641	1.00	0.00	0.00
42	134.00	Platform w/HRK Commscope:	1	1736.00	34.19	1.00	3238.97	53.871	1.00	0.00	0.00
		Totals:	**136**	**13,411.41**			**25,410.25**				

Linear Appurtenances

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice CaAa (sf)	No Ice CaAa Factor	Ice Weight (lb)	Ice CaAa (sf)	Ice CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
Bottom Elev. (ft)	Top Elev. (ft)	Description		Exposed Width	Exposed						
0.00	169.00	(4) 0.64" DC Power		0.00	Inside						
0.00	169.00	(2) 0.64" Fiber		0.00	Inside						
0.00	169.00	(6) 1 5/8" Coax		0.00	Inside						
0.00	169.00	(1) 1.5" Fiber		0.00	Inside						
0.00	169.00	(1) 1/2" Fiber		0.00	Inside						
0.00	169.00	(1) 2" Conduit		0.00	Inside						
0.00	169.00	(1) 3/8" Fiber		0.00	Inside						
0.00	169.00	(1) Safety Cable		0.38	Outside						
0.00	169.00	(1) Step bolts		0.63	Outside						
0.00	159.00	(7) 1 5/8" Coax		0.00	Inside						
0.00	159.00	(3) 1 5/8" Fiber		0.00	Inside						
0.00	159.00	(2) 1.9" Fiber		0.00	Inside						
0.00	146.00	(12) 1 5/8" Coax		0.00	Inside						
0.00	146.00	(2) 1-1/4" Hybriflex		0.00	Inside						
0.00	134.00	(1) 1.60" Hybrid		0.00	Inside						

Shaft Section Properties

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 8	

Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.4375	60.140	82.901	37333.6	22.83	137.46	74.6	1222.	0.0
5.00		0.4375	58.775	81.006	34830.8	22.28	134.34	75.2	1167.	1394.4
10.00		0.4375	57.410	79.110	32442.5	21.73	131.22	75.8	1113.	1362.1
15.00		0.4375	56.045	77.215	30165.9	21.18	128.10	76.5	1060.	1329.8
20.00		0.4375	54.680	75.319	27998.4	20.63	124.98	77.1	1008.	1297.6
25.00		0.4375	53.315	73.424	25937.3	20.08	121.86	77.8	958.2	1265.3
30.00		0.4375	51.949	71.528	23979.9	19.53	118.74	78.4	909.2	1233.1
35.00		0.4375	50.584	69.633	22123.5	18.98	115.62	79.1	861.4	1200.8
40.00		0.4375	49.219	67.737	20365.5	18.43	112.50	79.7	815.0	1168.6
45.00		0.4375	47.854	65.842	18703.2	17.88	109.38	80.4	769.8	1136.3
46.50	Bot - Section 2	0.4375	47.445	65.273	18222.8	17.71	108.44	80.6	756.5	334.6
50.00		0.4375	46.489	63.946	17133.9	17.33	106.26	81.0	725.9	1553.4
53.25	Top - Section 1	0.4375	46.477	63.929	17120.2	17.32	106.23	0.0	0.0	1414.2
55.00		0.4375	45.999	63.266	16592.7	17.13	105.14	81.3	710.5	378.7
60.00		0.4375	44.634	61.370	15145.5	16.58	102.02	81.9	668.3	1060.3
65.00		0.4375	43.269	59.475	13785.0	16.03	98.90	82.5	627.5	1028.0
70.00		0.4375	41.904	57.579	12508.5	15.48	95.78	82.5	587.9	995.8
75.00		0.4375	40.539	55.683	11313.4	14.93	92.66	82.5	549.7	963.5
80.00		0.4375	39.174	53.788	10196.9	14.38	89.54	82.5	512.7	931.3
85.00		0.4375	37.808	51.892	9156.4	13.83	86.42	82.5	477.0	899.0
90.00		0.4375	36.443	49.997	8189.2	13.28	83.30	82.5	442.6	866.8
95.00	Bot - Section 3	0.4375	35.078	48.101	7292.7	12.73	80.18	82.5	409.5	834.5
100.00	Top - Section 2	0.3750	34.463	40.572	5956.5	14.79	91.90	0.0	0.0	1506.4
105.00		0.3750	33.098	38.947	5269.1	14.15	88.26	82.5	313.6	676.5
110.00		0.3750	31.733	37.323	4636.8	13.51	84.62	82.5	287.8	648.8
115.00		0.3750	30.368	35.698	4057.3	12.87	80.98	82.5	263.1	621.2
120.00		0.3750	29.003	34.073	3528.1	12.23	77.34	82.5	239.6	593.5
125.00		0.3750	27.638	32.448	3047.1	11.58	73.70	82.5	217.2	565.9
130.00		0.3750	26.273	30.824	2611.9	10.94	70.06	82.5	195.8	538.3
134.00		0.3750	25.181	29.524	2295.2	10.43	67.15	82.5	179.5	410.7
135.00		0.3750	24.908	29.199	2220.3	10.30	66.42	82.5	175.6	99.9
140.00		0.3750	23.543	27.574	1869.9	9.66	62.78	82.5	156.4	483.0
145.00		0.3750	22.177	25.949	1558.4	9.02	59.14	82.5	138.4	455.3
145.25	Bot - Section 4	0.3750	22.109	25.868	1543.8	8.99	58.96	82.5	137.5	22.0
146.00		0.3750	21.904	25.624	1500.6	8.89	58.41	82.5	134.9	99.4
148.50	Top - Section 3	0.1875	21.597	12.741	737.8	18.90	115.18	0.0	0.0	324.6
150.00		0.1875	21.187	12.497	696.3	18.51	113.00	79.6	64.7	64.4
155.00		0.1875	19.822	11.685	569.1	17.23	105.72	81.1	56.6	205.7
159.00		0.1875	18.730	11.035	479.4	16.20	99.89	82.3	50.4	154.6
160.00		0.1875	18.457	10.872	458.5	15.95	98.44	82.5	48.9	37.3
165.00		0.1875	17.092	10.060	363.2	14.66	91.16	82.5	41.9	178.1
169.00		0.1875	16.000	9.410	297.3	13.64	85.33	82.5	36.6	132.5
										30466.3

Wind Loading - Shaft

Structure: CT11794-S
Site Name: East Lyme 1
Height: 169.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1 **Topography:** 1

Code: TIA-222-H 1/11/2024
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

Load Case: 1.2D + 1.0W 126 mph Wind
Dead Load Factor 1.20
Wind Load Factor 1.00

Iterations 26

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	32.803	36.08	591.02	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	32.803	36.08	577.61	0.730	0.000	5.00	25.156	18.36	662.6	0.0	1673.2
10.00		1.00	0.85	32.803	36.08	564.19	0.730	0.000	5.00	24.579	17.94	647.4	0.0	1634.5
15.00		1.00	0.86	33.208	36.53	554.17	0.730	0.000	5.00	24.001	17.52	640.0	0.0	1595.8
20.00		1.00	0.91	35.165	38.68	556.37	0.730	0.000	5.00	23.423	17.10	661.4	0.0	1557.1
25.00		1.00	0.95	36.782	40.46	554.81	0.730	0.000	5.00	22.846	16.68	674.8	0.0	1518.4
30.00		1.00	0.99	38.169	41.99	550.71	0.730	0.000	5.00	22.268	16.26	682.5	0.0	1479.7
35.00		1.00	1.02	39.390	43.33	544.75	0.730	0.000	5.00	21.691	15.83	686.1	0.0	1441.0
40.00		1.00	1.05	40.483	44.53	537.35	0.730	0.000	5.00	21.113	15.41	686.3	0.0	1402.3
45.00		1.00	1.07	41.476	45.62	528.82	0.730	0.000	5.00	20.536	14.99	683.9	0.0	1363.6
46.50	Bot - Section 2	1.00	1.08	41.757	45.93	526.06	0.730	0.000	1.50	6.048	4.42	202.8	0.0	401.5
50.00		1.00	1.10	42.387	46.63	519.34	0.730	0.000	3.50	14.169	10.34	482.3	0.0	1864.1
53.25	Top - Section 1	1.00	1.11	42.942	47.24	512.75	0.730	0.000	3.25	12.904	9.42	444.9	0.0	1697.0
55.00		1.00	1.12	43.230	47.55	518.95	0.730	0.000	1.75	6.847	5.00	237.7	0.0	454.5
60.00		1.00	1.14	44.015	48.42	508.10	0.730	0.000	5.00	19.173	14.00	677.7	0.0	1272.3
65.00		1.00	1.16	44.751	49.23	496.66	0.730	0.000	5.00	18.596	13.57	668.2	0.0	1233.6
70.00		1.00	1.18	45.444	49.99	484.71	0.730	0.000	5.00	18.018	13.15	657.5	0.0	1194.9
75.00		1.00	1.19	46.100	50.71	472.29	0.730	0.000	5.00	17.440	12.73	645.6	0.0	1156.2
80.00		1.00	1.21	46.723	51.40	459.46	0.730	0.000	5.00	16.863	12.31	632.7	0.0	1117.5
85.00		1.00	1.23	47.316	52.05	446.25	0.730	0.000	5.00	16.285	11.89	618.8	0.0	1078.8
90.00		1.00	1.24	47.882	52.67	432.70	0.730	0.000	5.00	15.708	11.47	604.0	0.0	1040.1
95.00	Bot - Section 3	1.00	1.25	48.424	53.27	418.85	0.730	0.000	5.00	15.130	11.05	588.3	0.0	1001.4
100.00	Top - Section 2	1.00	1.27	48.945	53.84	404.70	0.730	0.000	5.00	14.870	10.86	584.4	0.0	1807.7
105.00		1.00	1.28	49.445	54.39	399.35	0.730	0.000	5.00	14.292	10.43	567.5	0.0	811.8
110.00		1.00	1.29	49.927	54.92	384.74	0.730	0.000	5.00	13.715	10.01	549.8	0.0	778.6
115.00		1.00	1.31	50.392	55.43	369.90	0.730	0.000	5.00	13.137	9.59	531.6	0.0	745.4
120.00		1.00	1.32	50.842	55.93	354.84	0.730	0.000	5.00	12.560	9.17	512.8	0.0	712.2
125.00		1.00	1.33	51.277	56.41	339.59	0.730	0.000	5.00	11.982	8.75	493.4	0.0	679.1
130.00		1.00	1.34	51.699	56.87	324.14	0.730	0.000	5.00	11.405	8.33	473.5	0.0	645.9
134.00	Appurtenance(s)	1.00	1.35	52.028	57.23	311.65	0.730	0.000	4.00	8.708	6.36	363.8	0.0	492.8
135.00		1.00	1.35	52.109	57.32	308.51	0.730	0.000	1.00	2.119	1.55	88.7	0.0	119.9
140.00		1.00	1.36	52.506	57.76	292.71	0.730	0.000	5.00	10.249	7.48	432.1	0.0	579.6
145.00		1.00	1.37	52.893	58.18	276.75	0.730	0.000	5.00	9.672	7.06	410.8	0.0	546.4
145.25	Bot - Section 4	1.00	1.37	52.912	58.20	275.95	0.730	0.000	0.25	0.468	0.34	19.9	0.0	26.4
146.00	Appurtenance(s)	1.00	1.37	52.969	58.27	273.54	0.730	0.000	0.75	1.420	1.04	60.4	0.0	119.3
148.50	Top - Section 3	1.00	1.38	53.157	58.47	265.49	0.730	0.000	2.50	4.641	3.39	198.1	0.0	389.6
150.00		1.00	1.38	53.269	58.60	265.34	0.730	0.000	1.50	2.715	1.98	116.1	0.0	77.3
155.00		1.00	1.39	53.636	59.00	249.09	0.730	0.000	5.00	8.675	6.33	373.6	0.0	246.9
159.00	Appurtenance(s)	1.00	1.40	53.922	59.31	236.00	0.730	0.000	4.00	6.525	4.76	282.5	0.0	185.5
160.00		1.00	1.40	53.993	59.39	232.71	0.730	0.000	1.00	1.573	1.15	68.2	0.0	44.7
165.00		1.00	1.41	54.342	59.78	216.20	0.730	0.000	5.00	7.520	5.49	328.2	0.0	213.7
169.00	Appurtenance(s)	1.00	1.42	54.615	60.08	202.89	0.730	0.000	4.00	5.600	4.09	245.6	0.0	159.0
								Totals:	**169.00**			**19,186.6**		**36,559.6**

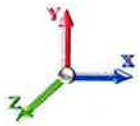
Discrete Appurtenance Forces

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 10	

Load Case: 1.2D + 1.0W 126 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 26

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	169.00	Ericsson RRUS A2 RRU	6	54.615	60.076	0.50	0.75	5.61	158.40	0.000	0.000	336.90	0.00	0.00
2	169.00	Ericsson AIR 6449 B77D	3	54.530	59.983	0.64	0.75	7.90	316.80	0.000	-1.250	473.78	0.00	-592.23
3	169.00	Ericsson AIR 6419 B77G	3	54.733	60.206	0.57	0.75	6.50	237.96	0.000	1.750	391.22	0.00	684.63
4	169.00	CCI TPA65R-BU4DA-K	1	54.615	60.076	0.54	0.75	6.95	81.00	0.000	0.000	417.52	0.00	0.00
5	169.00	CCI TPA65R-BU6DA-K	1	54.615	60.076	0.54	0.75	6.95	81.00	0.000	0.000	417.52	0.00	0.00
6	169.00	CCI TPA65R-BU8DA-K	1	54.615	60.076	0.54	0.75	9.65	99.00	0.000	0.000	579.72	0.00	0.00
7	169.00	Ericsson 8843 B2 B66A	3	54.615	60.076	0.50	0.75	2.47	259.20	0.000	0.000	148.53	0.00	0.00
8	169.00	Ericsson RRUS-12 RRU	6	54.615	60.076	0.50	0.75	9.50	417.60	0.000	0.000	570.56	0.00	0.00
9	169.00	Ericsson RRUS 32 RRU	3	54.615	60.076	0.50	0.75	5.83	277.20	0.000	0.000	350.49	0.00	0.00
10	169.00	mount pipe	12	54.615	60.076	0.75	0.75	12.24	432.00	0.000	0.000	735.33	0.00	0.00
11	169.00	Ericsson 4449 B5/B12	3	54.615	60.076	0.50	0.75	2.97	255.60	0.000	0.000	178.41	0.00	0.00
12	169.00	Commscope	1	54.615	60.076	0.75	0.75	13.40	94.80	0.000	0.000	805.17	0.00	0.00
13	169.00	Commscope	1	54.615	60.076	0.75	0.75	9.20	94.80	0.000	0.000	552.85	0.00	0.00
14	169.00	CCI OPA65R-BU4DA	1	54.615	60.076	0.70	0.75	3.50	51.60	0.000	0.000	210.08	0.00	0.00
15	169.00	Raycap DC6-48-60-18-8F	3	54.615	60.076	0.50	0.75	2.22	118.08	0.000	0.000	133.13	0.00	0.00
16	169.00	Ericsson RRUS 4478 B14	3	54.615	60.076	0.54	0.80	2.65	213.84	0.000	0.000	159.39	0.00	0.00
17	169.00	CCI DTMABP7819VG12A	3	54.615	60.076	0.50	0.75	1.72	69.05	0.000	0.000	103.24	0.00	0.00
18	169.00	Reinforced T-Arms	3	54.615	60.076	0.75	0.75	31.50	1620.00	0.000	0.000	1892.41	0.00	0.00
19	159.00	Ericsson 4460 B25/B66A	3	53.922	59.314	0.54	0.80	2.64	259.20	0.000	0.000	156.42	0.00	0.00
20	159.00	Ericsson 4449 B71 + B85	3	53.922	59.314	0.54	0.80	3.17	263.52	0.000	0.000	187.89	0.00	0.00
21	159.00	RFS	3	53.922	59.314	0.58	0.80	35.46	442.08	0.000	0.000	2103.32	0.00	0.00
22	159.00	Commscope VV-65A-R1	3	53.922	59.314	0.59	0.80	14.03	106.20	0.000	0.000	832.21	0.00	0.00
23	159.00	T-Arm	3	53.922	59.314	0.75	0.75	18.00	1440.00	0.000	0.000	1067.66	0.00	0.00
24	159.00	PRK-SFS-L	1	53.922	59.314	1.00	1.00	16.60	472.80	0.000	0.000	984.62	0.00	0.00
25	159.00	PRK-1245L	1	53.922	59.314	1.00	1.00	9.50	557.89	0.000	0.000	563.49	0.00	0.00
26	159.00	Ericsson KRY 112 144/1	3	53.922	59.314	0.52	0.75	0.65	39.60	0.000	0.000	38.30	0.00	0.00
27	159.00	mount pipe	12	53.922	59.314	0.75	0.75	12.42	432.00	0.000	0.000	736.69	0.00	0.00
28	159.00	Ericsson AIR 6419 B41	3	53.922	59.314	0.56	0.80	10.97	479.52	0.000	0.000	650.70	0.00	0.00
29	146.00	JMA Wireless	6	52.969	58.266	0.65	0.75	38.64	432.00	0.000	0.000	2251.45	0.00	0.00
30	146.00	mount pipe	12	52.969	58.266	0.75	0.75	13.23	432.00	0.000	0.000	770.85	0.00	0.00
31	146.00	Samsung B2/B66A RRH	3	52.969	58.266	0.63	0.75	3.53	268.96	0.000	0.000	205.93	0.00	0.00
32	146.00	Mods	1	52.969	58.266	1.00	1.00	13.79	558.05	0.000	0.000	803.48	0.00	0.00
33	146.00	Samsung RF4461d-13A	3	52.969	58.266	0.50	0.75	2.82	261.00	0.000	0.000	164.25	0.00	0.00
34	146.00	Samsung MT6413-77A	3	52.969	58.266	0.52	0.75	5.88	206.28	0.000	0.000	342.83	0.00	0.00
35	146.00	Raycap	1	52.969	58.266	0.75	0.75	3.04	38.40	0.000	0.000	177.42	0.00	0.00
36	146.00	Antenna Bracket JWA	3	52.969	58.266	1.00	1.00	0.00	100.80	0.000	0.000	0.00	0.00	0.00
37	146.00	Low Profile Platform	1	52.969	58.266	1.00	1.00	14.69	1500.00	0.000	0.000	855.92	0.00	0.00
38	134.00	Platform w/HRK	1	52.028	57.230	0.67	0.67	22.91	2083.20	0.000	0.000	1310.99	0.00	0.00
39	134.00	Raycap	1	52.028	57.230	0.75	0.75	1.51	26.22	0.000	0.000	86.27	0.00	0.00
40	134.00	Samsung RF4451d-70A	3	52.028	57.230	0.50	0.75	2.83	220.68	0.000	0.000	162.20	0.00	0.00
41	134.00	Samsung RF4450t-71A	3	52.028	57.230	0.50	0.75	3.11	340.49	0.000	0.000	177.73	0.00	0.00
42	134.00	Commscope	3	52.028	57.230	0.55	0.75	20.15	254.88	0.000	0.000	1153.39	0.00	0.00
							Totals:		**16,093.69**			**24,240.29**		

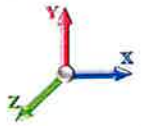
Total Applied Force Summary

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 11	

Load Case: 1.2D + 1.0W 126 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 26

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		662.63	1923.49	0.00	0.00
10.00		647.42	1884.79	0.00	0.00
15.00		640.01	1846.09	0.00	0.00
20.00		661.41	1807.38	0.00	0.00
25.00		674.77	1768.68	0.00	0.00
30.00		682.52	1729.98	0.00	0.00
35.00		686.08	1691.28	0.00	0.00
40.00		686.35	1652.58	0.00	0.00
45.00		683.94	1613.88	0.00	0.00
46.50		202.80	476.62	0.00	0.00
50.00		482.27	2039.31	0.00	0.00
53.25		444.95	1859.68	0.00	0.00
55.00		237.68	542.05	0.00	0.00
60.00		677.66	1522.59	0.00	0.00
65.00		668.24	1483.89	0.00	0.00
70.00		657.51	1445.19	0.00	0.00
75.00		645.62	1406.49	0.00	0.00
80.00		632.67	1367.79	0.00	0.00
85.00		618.75	1329.09	0.00	0.00
90.00		603.95	1290.39	0.00	0.00
95.00		588.33	1251.69	0.00	0.00
100.00		584.43	2057.92	0.00	0.00
105.00		567.47	1062.03	0.00	0.00
110.00		549.85	1028.85	0.00	0.00
115.00		531.60	995.68	0.00	0.00
120.00		512.77	962.51	0.00	0.00
125.00		493.37	929.34	0.00	0.00
130.00		473.46	896.17	0.00	0.00
134.00	(11) attachments	3254.38	3618.52	0.00	0.00
135.00		88.67	168.63	0.00	0.00
140.00		432.14	823.22	0.00	0.00
145.00		410.79	790.05	0.00	0.00
145.25		19.90	38.63	0.00	0.00
146.00	(33) attachments	5632.56	3953.33	0.00	0.00
148.50		198.10	468.24	0.00	0.00
150.00		116.15	124.49	0.00	0.00
155.00		373.65	404.19	0.00	0.00
159.00	(35) attachments	7603.81	4804.23	0.00	0.00
160.00		68.22	59.63	0.00	0.00
165.00		328.16	288.22	0.00	0.00
169.00	(57) attachments	8701.88	5096.56	0.00	92.40
	Totals:	**43,426.92**	**60,503.37**	**0.00**	**92.40**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 12	

Load Case: 1.2D + 1.0W 126 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	32.803	0.00	1.64
5.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	32.803	0.00	6.24
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	32.803	0.00	1.64
10.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	32.803	0.00	6.24
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	33.208	0.00	1.64
15.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	33.208	0.00	6.24
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	35.165	0.00	1.64
20.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	35.165	0.00	6.24
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	36.782	0.00	1.64
25.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	36.782	0.00	6.24
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	38.169	0.00	1.64
30.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	38.169	0.00	6.24
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	39.390	0.00	1.64
35.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	39.390	0.00	6.24
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	40.483	0.00	1.64
40.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	40.483	0.00	6.24
45.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	41.476	0.00	1.64
45.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	41.476	0.00	6.24
46.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.021	0.000	41.757	0.00	0.49
46.50	Step bolts	Yes	1.50	0.000	0.63	0.08	0.00	0.021	0.000	41.757	0.00	1.87
50.00	Safety Cable	Yes	3.50	0.000	0.38	0.11	0.00	0.021	0.000	42.387	0.00	1.15
50.00	Step bolts	Yes	3.50	0.000	0.63	0.18	0.00	0.021	0.000	42.387	0.00	4.37
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.022	0.000	42.942	0.00	1.06
53.25	Step bolts	Yes	3.25	0.000	0.63	0.17	0.00	0.022	0.000	42.942	0.00	4.06
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.022	0.000	43.230	0.00	0.57
55.00	Step bolts	Yes	1.75	0.000	0.63	0.09	0.00	0.022	0.000	43.230	0.00	2.18
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	44.015	0.00	1.64
60.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	44.015	0.00	6.24
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	44.751	0.00	1.64
65.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	44.751	0.00	6.24
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	45.444	0.00	1.64
70.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	45.444	0.00	6.24
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	46.100	0.00	1.64
75.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	46.100	0.00	6.24
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	46.723	0.00	1.64
80.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000	46.723	0.00	6.24
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	47.316	0.00	1.64
85.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	47.316	0.00	6.24
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	47.882	0.00	1.64
90.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	47.882	0.00	6.24
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	48.424	0.00	1.64
95.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	48.424	0.00	6.24
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	48.945	0.00	1.64
100.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	48.945	0.00	6.24
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	49.445	0.00	1.64
105.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	49.445	0.00	6.24
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	49.927	0.00	1.64

Linear Appurtenance Segment Forces (Factored)

Structure: CT11794-S
Site Name: East Lyme 1
Height: 169.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1 **Topography:** 1

Code: TIA-222-H 1/11/2024
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

SBA

Load Case: 1.2D + 1.0W 126 mph Wind
Dead Load Factor 1.20
Wind Load Factor 1.00

Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
110.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	49.927	0.00	6.24
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.032	0.000	50.392	0.00	1.64
115.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.032	0.000	50.392	0.00	6.24
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.034	0.000	50.842	0.00	1.64
120.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.034	0.000	50.842	0.00	6.24
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.035	0.000	51.277	0.00	1.64
125.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.035	0.000	51.277	0.00	6.24
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	51.699	0.00	1.64
130.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	51.699	0.00	6.24
134.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.039	0.000	52.028	0.00	1.31
134.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.039	0.000	52.028	0.00	4.99
135.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.040	0.000	52.109	0.00	0.33
135.00	Step bolts	Yes	1.00	0.000	0.63	0.05	0.00	0.040	0.000	52.109	0.00	1.25
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.041	0.000	52.506	0.00	1.64
140.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.041	0.000	52.506	0.00	6.24
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.044	0.000	52.893	0.00	1.64
145.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.044	0.000	52.893	0.00	6.24
145.25	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.045	0.000	52.912	0.00	0.08
145.25	Step bolts	Yes	0.25	0.000	0.63	0.01	0.00	0.045	0.000	52.912	0.00	0.31
146.00	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.045	0.000	52.969	0.00	0.25
146.00	Step bolts	Yes	0.75	0.000	0.63	0.04	0.00	0.045	0.000	52.969	0.00	0.94
148.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.046	0.000	53.157	0.00	0.82
148.50	Step bolts	Yes	2.50	0.000	0.63	0.13	0.00	0.046	0.000	53.157	0.00	3.12
150.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.046	0.000	53.269	0.00	0.49
150.00	Step bolts	Yes	1.50	0.000	0.63	0.08	0.00	0.046	0.000	53.269	0.00	1.87
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.049	0.000	53.636	0.00	1.64
155.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.049	0.000	53.636	0.00	6.24
159.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.052	0.000	53.922	0.00	1.31
159.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.052	0.000	53.922	0.00	4.99
160.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.053	0.000	53.993	0.00	0.33
160.00	Step bolts	Yes	1.00	0.000	0.63	0.05	0.00	0.053	0.000	53.993	0.00	1.25
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.056	0.000	54.342	0.00	1.64
165.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.056	0.000	54.342	0.00	6.24
169.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.060	0.000	54.615	0.00	1.31
169.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.060	0.000	54.615	0.00	4.99
										Totals:	**0.0**	**266.3**

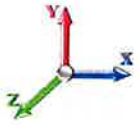
Calculated Forces

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 14	

Load Case: 1.2D + 1.0W 126 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 26

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-60.42	-43.54	0.00	-5582.1	0.00	5582.17	5562.36	1454.92	7206.86	6836.50	0.00	0.000	0.000	0.828
5.00	-58.34	-43.09	0.00	-5364.4	0.00	5364.48	5482.35	1421.65	6881.06	6582.98	0.11	-0.209	0.000	0.826
10.00	-56.30	-42.65	0.00	-5149.0	0.00	5149.04	5400.13	1388.39	6562.80	6331.40	0.45	-0.423	0.000	0.825
15.00	-54.29	-42.20	0.00	-4935.8	0.00	4935.82	5315.71	1355.12	6252.07	6081.95	1.01	-0.644	0.000	0.823
20.00	-52.33	-41.73	0.00	-4724.8	0.00	4724.82	5229.08	1321.85	5948.87	5834.81	1.80	-0.872	0.000	0.821
25.00	-50.40	-41.23	0.00	-4516.1	0.00	4516.18	5140.25	1288.59	5653.22	5590.18	2.84	-1.107	0.000	0.819
30.00	-48.51	-40.72	0.00	-4310.0	0.00	4310.02	5049.20	1255.32	5365.09	5348.24	4.13	-1.349	0.000	0.817
35.00	-46.66	-40.20	0.00	-4106.4	0.00	4106.42	4955.95	1222.05	5084.51	5109.18	5.68	-1.599	0.000	0.814
40.00	-44.85	-39.67	0.00	-3905.4	0.00	3905.43	4860.49	1188.79	4811.46	4873.19	7.49	-1.856	0.000	0.812
45.00	-43.14	-39.06	0.00	-3707.0	0.00	3707.09	4762.82	1155.52	4545.94	4640.45	9.58	-2.122	0.000	0.809
46.50	-42.58	-38.94	0.00	-3648.5	0.00	3648.50	4733.09	1145.54	4467.75	4571.29	10.26	-2.206	0.000	0.808
50.00	-40.43	-38.51	0.00	-3512.2	0.00	3512.20	4662.94	1122.25	4287.96	4411.15	11.95	-2.402	0.000	0.806
53.25	-38.49	-38.09	0.00	-3387.0	0.00	3387.03	4662.03	1121.95	4285.67	4409.10	13.65	-2.588	0.000	0.778
55.00	-37.84	-37.95	0.00	-3320.3	0.00	3320.38	4626.54	1110.31	4197.18	4329.70	14.62	-2.691	0.000	0.776
60.00	-36.17	-37.38	0.00	-3130.6	0.00	3130.63	4523.67	1077.04	3949.44	4105.38	17.58	-2.968	0.000	0.772
65.00	-34.54	-36.80	0.00	-2943.7	0.00	2943.76	4418.66	1043.78	3709.24	3885.01	20.84	-3.253	0.000	0.767
70.00	-32.94	-36.23	0.00	-2759.7	0.00	2759.74	4277.83	1010.51	3476.57	3640.10	24.40	-3.547	0.000	0.767
75.00	-31.39	-35.67	0.00	-2578.5	0.00	2578.58	4137.00	977.25	3251.43	3403.17	28.28	-3.851	0.000	0.767
80.00	-29.88	-35.11	0.00	-2400.2	0.00	2400.24	3996.18	943.98	3033.84	3174.21	32.48	-4.164	0.000	0.765
85.00	-28.40	-34.55	0.00	-2224.7	0.00	2224.71	3855.35	910.71	2823.78	2953.23	37.01	-4.486	0.000	0.762
90.00	-26.96	-34.01	0.00	-2051.9	0.00	2051.94	3714.52	877.45	2621.25	2740.21	41.88	-4.818	0.000	0.758
95.00	-25.57	-33.47	0.00	-1881.9	0.00	1881.92	3573.69	844.18	2426.26	2535.17	47.10	-5.160	0.000	0.751
100.00	-23.37	-32.84	0.00	-1714.5	0.00	1714.59	3014.30	712.04	2013.83	2107.62	52.69	-5.511	0.000	0.823
105.00	-22.15	-32.32	0.00	-1550.4	0.00	1550.40	2893.59	683.53	1855.77	1941.32	58.64	-5.870	0.000	0.809
110.00	-20.97	-31.81	0.00	-1388.8	0.00	1388.83	2772.88	655.01	1704.17	1781.85	64.99	-6.267	0.000	0.789
115.00	-19.82	-31.31	0.00	-1229.8	0.00	1229.80	2652.17	626.50	1559.02	1629.21	71.76	-6.669	0.000	0.765
120.00	-18.71	-30.81	0.00	-1073.2	0.00	1073.27	2531.46	597.98	1420.34	1483.41	78.94	-7.072	0.000	0.734
125.00	-17.64	-30.33	0.00	-919.19	0.00	919.19	2410.75	569.47	1288.11	1344.44	86.55	-7.474	0.000	0.694
130.00	-16.63	-29.84	0.00	-767.54	0.00	767.54	2290.04	540.95	1162.35	1212.31	94.57	-7.868	0.000	0.643
134.00	-13.42	-26.16	0.00	-648.17	0.00	648.17	2193.47	518.14	1066.39	1111.53	101.27	-8.176	0.000	0.592
135.00	-13.16	-26.10	0.00	-622.01	0.00	622.01	2169.33	512.44	1043.04	1087.01	102.99	-8.255	0.000	0.581
140.00	-12.26	-25.63	0.00	-491.51	0.00	491.51	2048.62	483.93	930.19	968.55	111.80	-8.612	0.000	0.516
145.00	-11.47	-25.13	0.00	-363.38	0.00	363.38	1927.91	455.41	823.80	856.92	120.96	-8.937	0.000	0.433
145.25	-11.42	-25.11	0.00	-357.10	0.00	357.10	1921.88	453.99	818.65	851.51	121.43	-8.953	0.000	0.428
146.00	-8.36	-18.95	0.00	-338.26	0.00	338.26	1903.77	449.71	803.30	835.41	122.83	-9.001	0.000	0.411
148.50	-7.89	-18.69	0.00	-290.90	0.00	290.90	907.84	223.60	397.18	399.56	127.57	-9.150	0.000	0.744
150.00	-7.70	-18.60	0.00	-262.86	0.00	262.86	895.57	219.32	382.13	386.55	130.44	-9.237	0.000	0.696
155.00	-7.25	-18.21	0.00	-169.87	0.00	169.87	853.23	205.07	334.07	344.13	140.33	-9.679	0.000	0.510
159.00	-3.79	-9.90	0.00	-97.05	0.00	97.05	817.77	193.66	297.94	311.31	148.52	-9.946	0.000	0.319
160.00	-3.72	-9.84	0.00	-87.14	0.00	87.14	807.76	190.81	289.23	302.92	150.60	-10.001	0.000	0.295
165.00	-3.47	-9.47	0.00	-37.97	0.00	37.97	747.41	176.55	247.62	259.13	161.14	-10.195	0.000	0.154
169.00	0.00	-8.70	0.00	-0.09	0.00	0.09	699.12	165.15	216.66	226.56	169.67	-10.254	0.000	0.003

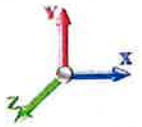
Wind Loading - Shaft

Structure: CT11794-S
Site Name: East Lyme 1
Height: 169.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1 **Topography:** 1

Code: TIA-222-H 1/11/2024
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

SBA

Load Case: 0.9D + 1.0W 126 mph Wind
Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	32.803	36.08	591.02	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	32.803	36.08	577.61	0.730	0.000	5.00	25.156	18.36	662.6	0.0	1254.9
10.00		1.00	0.85	32.803	36.08	564.19	0.730	0.000	5.00	24.579	17.94	647.4	0.0	1225.9
15.00		1.00	0.86	33.208	36.53	554.17	0.730	0.000	5.00	24.001	17.52	640.0	0.0	1196.9
20.00		1.00	0.91	35.165	38.68	556.37	0.730	0.000	5.00	23.423	17.10	661.4	0.0	1167.8
25.00		1.00	0.95	36.782	40.46	554.81	0.730	0.000	5.00	22.846	16.68	674.8	0.0	1138.8
30.00		1.00	0.99	38.169	41.99	550.71	0.730	0.000	5.00	22.268	16.26	682.5	0.0	1109.8
35.00		1.00	1.02	39.390	43.33	544.75	0.730	0.000	5.00	21.691	15.83	686.1	0.0	1080.8
40.00		1.00	1.05	40.483	44.53	537.35	0.730	0.000	5.00	21.113	15.41	686.3	0.0	1051.7
45.00		1.00	1.07	41.476	45.62	528.82	0.730	0.000	5.00	20.536	14.99	683.9	0.0	1022.7
46.50	Bot - Section 2	1.00	1.08	41.757	45.93	526.06	0.730	0.000	1.50	6.048	4.42	202.8	0.0	301.2
50.00		1.00	1.10	42.387	46.63	519.34	0.730	0.000	3.50	14.169	10.34	482.3	0.0	1398.1
53.25	Top - Section 1	1.00	1.11	42.942	47.24	512.75	0.730	0.000	3.25	12.904	9.42	444.9	0.0	1272.8
55.00		1.00	1.12	43.230	47.55	518.95	0.730	0.000	1.75	6.847	5.00	237.7	0.0	340.8
60.00		1.00	1.14	44.015	48.42	508.10	0.730	0.000	5.00	19.173	14.00	677.7	0.0	954.2
65.00		1.00	1.16	44.751	49.23	496.66	0.730	0.000	5.00	18.596	13.57	668.2	0.0	925.2
70.00		1.00	1.18	45.444	49.99	484.71	0.730	0.000	5.00	18.018	13.15	657.5	0.0	896.2
75.00		1.00	1.19	46.100	50.71	472.29	0.730	0.000	5.00	17.440	12.73	645.6	0.0	867.2
80.00		1.00	1.21	46.723	51.40	459.46	0.730	0.000	5.00	16.863	12.31	632.7	0.0	838.1
85.00		1.00	1.23	47.316	52.05	446.25	0.730	0.000	5.00	16.285	11.89	618.8	0.0	809.1
90.00		1.00	1.24	47.882	52.67	432.70	0.730	0.000	5.00	15.708	11.47	604.0	0.0	780.1
95.00	Bot - Section 3	1.00	1.25	48.424	53.27	418.85	0.730	0.000	5.00	15.130	11.05	588.3	0.0	751.1
100.00	Top - Section 2	1.00	1.27	48.945	53.84	404.70	0.730	0.000	5.00	14.870	10.86	584.4	0.0	1355.7
105.00		1.00	1.28	49.445	54.39	399.35	0.730	0.000	5.00	14.292	10.43	567.5	0.0	608.8
110.00		1.00	1.29	49.927	54.92	384.74	0.730	0.000	5.00	13.715	10.01	549.8	0.0	583.9
115.00		1.00	1.31	50.392	55.43	369.90	0.730	0.000	5.00	13.137	9.59	531.6	0.0	559.1
120.00		1.00	1.32	50.842	55.93	354.84	0.730	0.000	5.00	12.560	9.17	512.8	0.0	534.2
125.00		1.00	1.33	51.277	56.41	339.59	0.730	0.000	5.00	11.982	8.75	493.4	0.0	509.3
130.00		1.00	1.34	51.699	56.87	324.14	0.730	0.000	5.00	11.405	8.33	473.5	0.0	484.4
134.00	Appurtenance(s)	1.00	1.35	52.028	57.23	311.65	0.730	0.000	4.00	8.708	6.36	363.8	0.0	369.6
135.00		1.00	1.35	52.109	57.32	308.51	0.730	0.000	1.00	2.119	1.55	88.7	0.0	89.9
140.00		1.00	1.36	52.506	57.76	292.71	0.730	0.000	5.00	10.249	7.48	432.1	0.0	434.7
145.00		1.00	1.37	52.893	58.18	276.75	0.730	0.000	5.00	9.672	7.06	410.8	0.0	409.8
145.25	Bot - Section 4	1.00	1.37	52.912	58.20	275.95	0.730	0.000	0.25	0.468	0.34	19.9	0.0	19.8
146.00	Appurtenance(s)	1.00	1.37	52.969	58.27	273.54	0.730	0.000	0.75	1.420	1.04	60.4	0.0	89.5
148.50	Top - Section 3	1.00	1.38	53.157	58.47	265.49	0.730	0.000	2.50	4.641	3.39	198.1	0.0	292.2
150.00		1.00	1.38	53.269	58.60	265.34	0.730	0.000	1.50	2.715	1.98	116.1	0.0	58.0
155.00		1.00	1.39	53.636	59.00	249.09	0.730	0.000	5.00	8.675	6.33	373.6	0.0	185.1
159.00	Appurtenance(s)	1.00	1.40	53.922	59.31	236.00	0.730	0.000	4.00	6.525	4.76	282.5	0.0	139.2
160.00		1.00	1.40	53.993	59.39	232.71	0.730	0.000	1.00	1.573	1.15	68.2	0.0	33.5
165.00		1.00	1.41	54.342	59.78	216.20	0.730	0.000	5.00	7.520	5.49	328.2	0.0	160.3
169.00	Appurtenance(s)	1.00	1.42	54.615	60.08	202.89	0.730	0.000	4.00	5.600	4.09	245.6	0.0	119.3
								Totals:	**169.00**			**19,186.6**		**27,419.7**

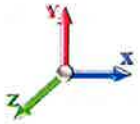
Discrete Appurtenance Forces

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 16	

Load Case: 0.9D + 1.0W 126 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	169.00	Ericsson RRUS A2 RRU	6	54.615	60.076	0.50	0.75	5.61	118.80	0.000	0.000	336.90	0.00	0.00
2	169.00	Ericsson AIR 6449 B77D	3	54.530	59.983	0.64	0.75	7.90	237.60	0.000	-1.250	473.78	0.00	-592.23
3	169.00	Ericsson AIR 6419 B77G	3	54.733	60.206	0.57	0.75	6.50	178.47	0.000	1.750	391.22	0.00	684.63
4	169.00	CCI TPA65R-BU4DA-K	1	54.615	60.076	0.54	0.75	6.95	60.75	0.000	0.000	417.52	0.00	0.00
5	169.00	CCI TPA65R-BU6DA-K	1	54.615	60.076	0.54	0.75	6.95	60.75	0.000	0.000	417.52	0.00	0.00
6	169.00	CCI TPA65R-BU8DA-K	1	54.615	60.076	0.54	0.75	9.65	74.25	0.000	0.000	579.72	0.00	0.00
7	169.00	Ericsson 8843 B2 B66A	3	54.615	60.076	0.50	0.75	2.47	194.40	0.000	0.000	148.53	0.00	0.00
8	169.00	Ericsson RRUS-12 RRU	6	54.615	60.076	0.50	0.75	9.50	313.20	0.000	0.000	570.56	0.00	0.00
9	169.00	Ericsson RRUS 32 RRU	3	54.615	60.076	0.50	0.75	5.83	207.90	0.000	0.000	350.49	0.00	0.00
10	169.00	mount pipe	12	54.615	60.076	0.75	0.75	12.24	324.00	0.000	0.000	735.33	0.00	0.00
11	169.00	Ericsson 4449 B5/B12	3	54.615	60.076	0.50	0.75	2.97	191.70	0.000	0.000	178.41	0.00	0.00
12	169.00	Commscope	1	54.615	60.076	0.75	0.75	13.40	71.10	0.000	0.000	805.17	0.00	0.00
13	169.00	Commscope	1	54.615	60.076	0.75	0.75	9.20	71.10	0.000	0.000	552.85	0.00	0.00
14	169.00	CCI OPA65R-BU4DA	1	54.615	60.076	0.70	0.75	3.50	38.70	0.000	0.000	210.08	0.00	0.00
15	169.00	Raycap DC6-48-60-18-8F	3	54.615	60.076	0.50	0.75	2.22	88.56	0.000	0.000	133.13	0.00	0.00
16	169.00	Ericsson RRUS 4478 B14	3	54.615	60.076	0.54	0.80	2.65	160.38	0.000	0.000	159.39	0.00	0.00
17	169.00	CCI DTMABP7819VG12A	3	54.615	60.076	0.50	0.75	1.72	51.79	0.000	0.000	103.24	0.00	0.00
18	169.00	Reinforced T-Arms	3	54.615	60.076	0.75	0.75	31.50	1215.00	0.000	0.000	1892.41	0.00	0.00
19	159.00	Ericsson 4460 B25/B66A	3	53.922	59.314	0.54	0.80	2.64	194.40	0.000	0.000	156.42	0.00	0.00
20	159.00	Ericsson 4449 B71 + B85	3	53.922	59.314	0.54	0.80	3.17	197.64	0.000	0.000	187.89	0.00	0.00
21	159.00	RFS	3	53.922	59.314	0.58	0.80	35.46	331.56	0.000	0.000	2103.32	0.00	0.00
22	159.00	Commscope VV-65A-R1	3	53.922	59.314	0.59	0.80	14.03	79.65	0.000	0.000	832.21	0.00	0.00
23	159.00	T-Arm	3	53.922	59.314	0.75	0.75	18.00	1080.00	0.000	0.000	1067.66	0.00	0.00
24	159.00	PRK-SFS-L	1	53.922	59.314	1.00	1.00	16.60	354.60	0.000	0.000	984.62	0.00	0.00
25	159.00	PRK-1245L	1	53.922	59.314	1.00	1.00	9.50	418.42	0.000	0.000	563.49	0.00	0.00
26	159.00	Ericsson KRY 112 144/1	3	53.922	59.314	0.52	0.75	0.65	29.70	0.000	0.000	38.30	0.00	0.00
27	159.00	mount pipe	12	53.922	59.314	0.75	0.75	12.42	324.00	0.000	0.000	736.69	0.00	0.00
28	159.00	Ericsson AIR 6419 B41	3	53.922	59.314	0.56	0.80	10.97	359.64	0.000	0.000	650.70	0.00	0.00
29	146.00	JMA Wireless	6	52.969	58.266	0.65	0.75	38.64	324.00	0.000	0.000	2251.45	0.00	0.00
30	146.00	mount pipe	12	52.969	58.266	0.75	0.75	13.23	324.00	0.000	0.000	770.85	0.00	0.00
31	146.00	Samsung B2/B66A RRH	3	52.969	58.266	0.63	0.75	3.53	201.72	0.000	0.000	205.93	0.00	0.00
32	146.00	Mods	1	52.969	58.266	1.00	1.00	13.79	418.54	0.000	0.000	803.48	0.00	0.00
33	146.00	Samsung RF4461d-13A	3	52.969	58.266	0.50	0.75	2.82	195.75	0.000	0.000	164.25	0.00	0.00
34	146.00	Samsung MT6413-77A	3	52.969	58.266	0.52	0.75	5.88	154.71	0.000	0.000	342.83	0.00	0.00
35	146.00	Raycap	1	52.969	58.266	0.75	0.75	3.04	28.80	0.000	0.000	177.42	0.00	0.00
36	146.00	Antenna Bracket JWA	3	52.969	58.266	1.00	1.00	0.00	75.60	0.000	0.000	0.00	0.00	0.00
37	146.00	Low Profile Platform	1	52.969	58.266	1.00	1.00	14.69	1125.00	0.000	0.000	855.92	0.00	0.00
38	134.00	Platform w/HRK	1	52.028	57.230	0.67	0.67	22.91	1562.40	0.000	0.000	1310.99	0.00	0.00
39	134.00	Raycap	1	52.028	57.230	0.75	0.75	1.51	19.67	0.000	0.000	86.27	0.00	0.00
40	134.00	Samsung RF4451d-70A	3	52.028	57.230	0.50	0.75	2.83	165.51	0.000	0.000	162.20	0.00	0.00
41	134.00	Samsung RF4450t-71A	3	52.028	57.230	0.50	0.75	3.11	255.37	0.000	0.000	177.73	0.00	0.00
42	134.00	Commscope	3	52.028	57.230	0.55	0.75	20.15	191.16	0.000	0.000	1153.39	0.00	0.00
							Totals:		**12,070.27**			**24,240.29**		

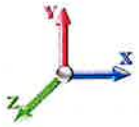
Total Applied Force Summary

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024
Site Name:	East Lyme 1	**Exposure:**	C	
Height:	169.00 (ft)	**Crest Height:**	0.00	
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil	
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 17

Load Case: 0.9D + 1.0W 126 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		662.63	1442.61	0.00	0.00
10.00		647.42	1413.59	0.00	0.00
15.00		640.01	1384.56	0.00	0.00
20.00		661.41	1355.54	0.00	0.00
25.00		674.77	1326.51	0.00	0.00
30.00		682.52	1297.49	0.00	0.00
35.00		686.08	1268.46	0.00	0.00
40.00		686.35	1239.44	0.00	0.00
45.00		683.94	1210.41	0.00	0.00
46.50		202.80	357.46	0.00	0.00
50.00		482.27	1529.48	0.00	0.00
53.25		444.95	1394.76	0.00	0.00
55.00		237.68	406.54	0.00	0.00
60.00		677.66	1141.94	0.00	0.00
65.00		668.24	1112.92	0.00	0.00
70.00		657.51	1083.89	0.00	0.00
75.00		645.62	1054.87	0.00	0.00
80.00		632.67	1025.84	0.00	0.00
85.00		618.75	996.81	0.00	0.00
90.00		603.95	967.79	0.00	0.00
95.00		588.33	938.76	0.00	0.00
100.00		584.43	1543.44	0.00	0.00
105.00		567.47	796.52	0.00	0.00
110.00		549.85	771.64	0.00	0.00
115.00		531.60	746.76	0.00	0.00
120.00		512.77	721.88	0.00	0.00
125.00		493.37	697.00	0.00	0.00
130.00		473.46	672.13	0.00	0.00
134.00	(11) attachments	3254.38	2713.89	0.00	0.00
135.00		88.67	126.47	0.00	0.00
140.00		432.14	617.42	0.00	0.00
145.00		410.79	592.54	0.00	0.00
145.25		19.90	28.97	0.00	0.00
146.00	(33) attachments	5632.56	2965.00	0.00	0.00
148.50		198.10	351.18	0.00	0.00
150.00		116.15	93.37	0.00	0.00
155.00		373.65	303.15	0.00	0.00
159.00	(35) attachments	7603.81	3603.17	0.00	0.00
160.00		68.22	44.73	0.00	0.00
165.00		328.16	216.17	0.00	0.00
169.00	(57) attachments	8701.88	3822.42	0.00	92.40
	Totals:	**43,426.92**	**45,377.53**	**0.00**	**92.40**

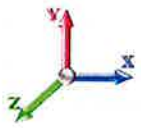
Linear Appurtenance Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 18	

Load Case: 0.9D + 1.0W 126 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	32.803	0.00	1.23
5.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	32.803	0.00	4.68
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	32.803	0.00	1.23
10.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	32.803	0.00	4.68
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	33.208	0.00	1.23
15.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	33.208	0.00	4.68
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	35.165	0.00	1.23
20.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	35.165	0.00	4.68
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	36.782	0.00	1.23
25.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	36.782	0.00	4.68
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	38.169	0.00	1.23
30.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	38.169	0.00	4.68
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	39.390	0.00	1.23
35.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	39.390	0.00	4.68
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	40.483	0.00	1.23
40.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	40.483	0.00	4.68
45.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	41.476	0.00	1.23
45.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	41.476	0.00	4.68
46.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.021	0.000	41.757	0.00	0.37
46.50	Step bolts	Yes	1.50	0.000	0.63	0.08	0.00	0.021	0.000	41.757	0.00	1.40
50.00	Safety Cable	Yes	3.50	0.000	0.38	0.11	0.00	0.021	0.000	42.387	0.00	0.86
50.00	Step bolts	Yes	3.50	0.000	0.63	0.18	0.00	0.021	0.000	42.387	0.00	3.28
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.022	0.000	42.942	0.00	0.80
53.25	Step bolts	Yes	3.25	0.000	0.63	0.17	0.00	0.022	0.000	42.942	0.00	3.04
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.022	0.000	43.230	0.00	0.43
55.00	Step bolts	Yes	1.75	0.000	0.63	0.09	0.00	0.022	0.000	43.230	0.00	1.64
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	44.015	0.00	1.23
60.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	44.015	0.00	4.68
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	44.751	0.00	1.23
65.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	44.751	0.00	4.68
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	45.444	0.00	1.23
70.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	45.444	0.00	4.68
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	46.100	0.00	1.23
75.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	46.100	0.00	4.68
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	46.723	0.00	1.23
80.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000	46.723	0.00	4.68
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	47.316	0.00	1.23
85.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	47.316	0.00	4.68
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	47.882	0.00	1.23
90.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	47.882	0.00	4.68
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	48.424	0.00	1.23
95.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	48.424	0.00	4.68
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	48.945	0.00	1.23
100.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	48.945	0.00	4.68
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	49.445	0.00	1.23
105.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	49.445	0.00	4.68
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	49.927	0.00	1.23

Linear Appurtenance Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 19	

Load Case: 0.9D + 1.0W 126 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00

Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
110.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	49.927	0.00	4.68
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.032	0.000	50.392	0.00	1.23
115.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.032	0.000	50.392	0.00	4.68
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.034	0.000	50.842	0.00	1.23
120.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.034	0.000	50.842	0.00	4.68
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.035	0.000	51.277	0.00	1.23
125.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.035	0.000	51.277	0.00	4.68
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	51.699	0.00	1.23
130.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	51.699	0.00	4.68
134.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.039	0.000	52.028	0.00	0.98
134.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.039	0.000	52.028	0.00	3.74
135.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.040	0.000	52.109	0.00	0.25
135.00	Step bolts	Yes	1.00	0.000	0.63	0.05	0.00	0.040	0.000	52.109	0.00	0.94
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.041	0.000	52.506	0.00	1.23
140.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.041	0.000	52.506	0.00	4.68
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.044	0.000	52.893	0.00	1.23
145.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.044	0.000	52.893	0.00	4.68
145.25	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.045	0.000	52.912	0.00	0.06
145.25	Step bolts	Yes	0.25	0.000	0.63	0.01	0.00	0.045	0.000	52.912	0.00	0.23
146.00	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.045	0.000	52.969	0.00	0.18
146.00	Step bolts	Yes	0.75	0.000	0.63	0.04	0.00	0.045	0.000	52.969	0.00	0.70
148.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.046	0.000	53.157	0.00	0.61
148.50	Step bolts	Yes	2.50	0.000	0.63	0.13	0.00	0.046	0.000	53.157	0.00	2.34
150.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.046	0.000	53.269	0.00	0.37
150.00	Step bolts	Yes	1.50	0.000	0.63	0.08	0.00	0.046	0.000	53.269	0.00	1.40
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.049	0.000	53.636	0.00	1.23
155.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.049	0.000	53.636	0.00	4.68
159.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.052	0.000	53.922	0.00	0.98
159.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.052	0.000	53.922	0.00	3.74
160.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.053	0.000	53.993	0.00	0.25
160.00	Step bolts	Yes	1.00	0.000	0.63	0.05	0.00	0.053	0.000	53.993	0.00	0.94
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.056	0.000	54.342	0.00	1.23
165.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.056	0.000	54.342	0.00	4.68
169.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.060	0.000	54.615	0.00	0.98
169.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.060	0.000	54.615	0.00	3.74
										Totals:	**0.0**	**199.7**

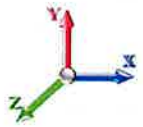
Calculated Forces

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 20	

Load Case: 0.9D + 1.0W 126 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 25

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-45.30	-43.51	0.00	-5498.2	0.00	5498.20	5562.36	1454.92	7206.86	6836.50	0.00	0.000	0.000	0.813
5.00	-43.70	-43.00	0.00	-5280.6	0.00	5280.66	5482.35	1421.65	6881.06	6582.98	0.11	-0.205	0.000	0.811
10.00	-42.13	-42.51	0.00	-5065.6	0.00	5065.65	5400.13	1388.39	6562.80	6331.40	0.44	-0.417	0.000	0.809
15.00	-40.59	-42.01	0.00	-4853.1	0.00	4853.12	5315.71	1355.12	6252.07	6081.95	0.99	-0.634	0.000	0.807
20.00	-39.08	-41.49	0.00	-4643.0	0.00	4643.07	5229.08	1321.85	5948.87	5834.81	1.78	-0.858	0.000	0.804
25.00	-37.60	-40.94	0.00	-4435.6	0.00	4435.65	5140.25	1288.59	5653.22	5590.18	2.80	-1.089	0.000	0.802
30.00	-36.15	-40.39	0.00	-4230.9	0.00	4230.94	5049.20	1255.32	5365.09	5348.24	4.07	-1.326	0.000	0.799
35.00	-34.72	-39.82	0.00	-4029.0	0.00	4029.01	4955.95	1222.05	5084.51	5109.18	5.59	-1.571	0.000	0.797
40.00	-33.33	-39.25	0.00	-3829.9	0.00	3829.92	4860.49	1188.79	4811.46	4873.19	7.37	-1.824	0.000	0.794
45.00	-32.03	-38.62	0.00	-3633.6	0.00	3633.69	4762.82	1155.52	4545.94	4640.45	9.42	-2.085	0.000	0.791
46.50	-31.59	-38.48	0.00	-3575.7	0.00	3575.77	4733.09	1145.54	4467.75	4571.29	10.09	-2.167	0.000	0.790
50.00	-29.95	-38.03	0.00	-3441.1	0.00	3441.10	4662.94	1122.25	4287.96	4411.15	11.75	-2.359	0.000	0.788
53.25	-28.48	-37.60	0.00	-3317.5	0.00	3317.50	4662.03	1121.95	4285.67	4409.10	13.42	-2.541	0.000	0.760
55.00	-27.97	-37.43	0.00	-3251.7	0.00	3251.70	4626.54	1110.31	4197.18	4329.70	14.37	-2.642	0.000	0.758
60.00	-26.68	-36.83	0.00	-3064.5	0.00	3064.54	4523.67	1077.04	3949.44	4105.38	17.28	-2.913	0.000	0.754
65.00	-25.43	-36.23	0.00	-2880.3	0.00	2880.39	4418.66	1043.78	3709.24	3885.01	20.48	-3.192	0.000	0.748
70.00	-24.20	-35.63	0.00	-2699.2	0.00	2699.24	4277.83	1010.51	3476.57	3640.10	23.97	-3.480	0.000	0.748
75.00	-23.01	-35.05	0.00	-2521.0	0.00	2521.07	4137.00	977.25	3251.43	3403.17	27.77	-3.777	0.000	0.748
80.00	-21.84	-34.46	0.00	-2345.8	0.00	2345.85	3996.18	943.98	3033.84	3174.21	31.89	-4.083	0.000	0.746
85.00	-20.70	-33.89	0.00	-2173.5	0.00	2173.54	3855.35	910.71	2823.78	2953.23	36.33	-4.398	0.000	0.743
90.00	-19.60	-33.32	0.00	-2004.1	0.00	2004.10	3714.52	877.45	2621.25	2740.21	41.11	-4.722	0.000	0.738
95.00	-18.52	-32.77	0.00	-1837.5	0.00	1837.50	3573.69	844.18	2426.26	2535.17	46.22	-5.056	0.000	0.731
100.00	-16.84	-32.15	0.00	-1673.6	0.00	1673.67	3014.30	712.04	2013.83	2107.62	51.70	-5.399	0.000	0.802
105.00	-15.90	-31.61	0.00	-1512.9	0.00	1512.94	2893.59	683.53	1855.77	1941.32	57.53	-5.749	0.000	0.787
110.00	-14.98	-31.08	0.00	-1354.9	0.00	1354.91	2772.88	655.01	1704.17	1781.85	63.75	-6.136	0.000	0.768
115.00	-14.08	-30.57	0.00	-1199.5	0.00	1199.51	2652.17	626.50	1559.02	1629.21	70.37	-6.528	0.000	0.744
120.00	-13.22	-30.07	0.00	-1046.6	0.00	1046.66	2531.46	597.98	1420.34	1483.41	77.41	-6.922	0.000	0.713
125.00	-12.39	-29.58	0.00	-896.33	0.00	896.33	2410.75	569.47	1288.11	1344.44	84.85	-7.314	0.000	0.675
130.00	-11.61	-29.09	0.00	-748.46	0.00	748.46	2290.04	540.95	1162.35	1212.31	92.70	-7.698	0.000	0.625
134.00	-9.29	-25.52	0.00	-632.11	0.00	632.11	2193.47	518.14	1066.39	1111.53	99.26	-7.998	0.000	0.575
135.00	-9.08	-25.45	0.00	-606.58	0.00	606.58	2169.33	512.44	1043.04	1087.01	100.94	-8.075	0.000	0.565
140.00	-8.38	-24.99	0.00	-479.32	0.00	479.32	2048.62	483.93	930.19	968.55	109.56	-8.423	0.000	0.502
145.00	-7.79	-24.51	0.00	-354.40	0.00	354.40	1927.91	455.41	823.80	856.92	118.52	-8.740	0.000	0.421
145.25	-7.75	-24.49	0.00	-348.27	0.00	348.27	1921.88	453.99	818.65	851.51	118.98	-8.756	0.000	0.416
146.00	-5.65	-18.48	0.00	-329.90	0.00	329.90	1903.77	449.71	803.30	835.41	120.35	-8.803	0.000	0.400
148.50	-5.30	-18.24	0.00	-283.69	0.00	283.69	907.84	223.60	397.18	399.56	124.98	-8.948	0.000	0.723
150.00	-5.13	-18.14	0.00	-256.33	0.00	256.33	895.57	219.32	382.13	386.55	127.80	-9.033	0.000	0.676
155.00	-4.79	-17.75	0.00	-165.63	0.00	165.63	853.23	205.07	334.07	344.13	137.46	-9.464	0.000	0.494
159.00	-2.48	-9.66	0.00	-94.63	0.00	94.63	817.77	193.66	297.94	311.31	145.48	-9.724	0.000	0.310
160.00	-2.43	-9.59	0.00	-84.97	0.00	84.97	807.76	190.81	289.23	302.92	147.51	-9.778	0.000	0.286
165.00	-2.25	-9.23	0.00	-37.03	0.00	37.03	747.41	176.55	247.62	259.13	157.81	-9.967	0.000	0.149
169.00	0.00	-8.70	0.00	-0.09	0.00	0.09	699.12	165.15	216.66	226.56	166.16	-10.025	0.000	0.003

Wind Loading - Shaft

Structure: CT11794-S
Site Name: East Lyme 1
Height: 169.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1 **Topography:** 1

Code: TIA-222-H
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

1/11/2024

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind
Dead Load Factor 1.20
Wind Load Factor 1.00

Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.165	5.68	0.00	1.200	0.705	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.165	5.68	0.00	1.200	0.843	5.00	25.859	31.03	176.3	315.0	1988.2
10.00		1.00	0.85	5.165	5.68	0.00	1.200	0.896	5.00	25.325	30.39	172.7	327.3	1961.8
15.00		1.00	0.86	5.229	5.75	0.00	1.200	0.930	5.00	24.776	29.73	171.0	332.0	1927.8
20.00		1.00	0.91	5.537	6.09	0.00	1.200	0.956	5.00	24.220	29.06	177.0	333.2	1890.3
25.00		1.00	0.95	5.792	6.37	0.00	1.200	0.976	5.00	23.660	28.39	180.9	332.1	1850.5
30.00		1.00	0.99	6.011	6.61	0.00	1.200	0.994	5.00	23.096	27.72	183.2	329.6	1809.3
35.00		1.00	1.02	6.203	6.82	0.00	1.200	1.009	5.00	22.531	27.04	184.5	326.0	1767.1
40.00		1.00	1.05	6.375	7.01	0.00	1.200	1.022	5.00	21.965	26.36	184.8	321.7	1724.0
45.00		1.00	1.07	6.531	7.18	0.00	1.200	1.034	5.00	21.397	25.68	184.5	316.6	1680.2
46.50	Bot - Section 2	1.00	1.08	6.576	7.23	0.00	1.200	1.037	1.50	6.307	7.57	54.7	94.5	496.0
50.00		1.00	1.10	6.675	7.34	0.00	1.200	1.044	3.50	14.778	17.73	130.2	221.7	2085.8
53.25	Top - Section 1	1.00	1.11	6.762	7.44	0.00	1.200	1.051	3.25	13.473	16.17	120.3	203.4	1900.4
55.00		1.00	1.12	6.807	7.49	0.00	1.200	1.054	1.75	7.155	8.59	64.3	108.8	563.2
60.00		1.00	1.14	6.931	7.62	0.00	1.200	1.063	5.00	20.059	24.07	183.5	304.4	1576.7
65.00		1.00	1.16	7.047	7.75	0.00	1.200	1.072	5.00	19.489	23.39	181.3	297.7	1531.3
70.00		1.00	1.18	7.156	7.87	0.00	1.200	1.080	5.00	18.918	22.70	178.7	290.7	1485.6
75.00		1.00	1.19	7.259	7.99	0.00	1.200	1.087	5.00	18.346	22.02	175.8	283.4	1439.7
80.00		1.00	1.21	7.357	8.09	0.00	1.200	1.094	5.00	17.775	21.33	172.6	275.9	1393.5
85.00		1.00	1.23	7.451	8.20	0.00	1.200	1.101	5.00	17.202	20.64	169.2	268.2	1347.0
90.00		1.00	1.24	7.540	8.29	0.00	1.200	1.107	5.00	16.630	19.96	165.5	260.3	1300.4
95.00	Bot - Section 3	1.00	1.25	7.625	8.39	0.00	1.200	1.113	5.00	16.057	19.27	161.6	252.2	1253.7
100.00	Top - Section 2	1.00	1.27	7.707	8.48	0.00	1.200	1.118	5.00	15.802	18.96	160.8	249.2	2056.9
105.00		1.00	1.28	7.786	8.56	0.00	1.200	1.124	5.00	15.229	18.27	156.5	240.9	1052.6
110.00		1.00	1.29	7.862	8.65	0.00	1.200	1.129	5.00	14.656	17.59	152.1	232.4	1011.0
115.00		1.00	1.31	7.935	8.73	0.00	1.200	1.134	5.00	14.082	16.90	147.5	223.7	969.1
120.00		1.00	1.32	8.006	8.81	0.00	1.200	1.139	5.00	13.509	16.21	142.8	215.0	927.2
125.00		1.00	1.33	8.075	8.88	0.00	1.200	1.143	5.00	12.935	15.52	137.9	206.1	885.2
130.00		1.00	1.34	8.141	8.96	0.00	1.200	1.148	5.00	12.361	14.83	132.8	197.1	843.0
134.00	Appurtenance(s)	1.00	1.35	8.193	9.01	0.00	1.200	1.151	4.00	9.475	11.37	102.5	151.9	644.7
135.00		1.00	1.35	8.206	9.03	0.00	1.200	1.152	1.00	2.311	2.77	25.0	37.6	157.5
140.00		1.00	1.36	8.268	9.09	0.00	1.200	1.156	5.00	11.213	13.46	122.4	178.8	758.4
145.00		1.00	1.37	8.329	9.16	0.00	1.200	1.160	5.00	10.639	12.77	117.0	169.6	716.0
145.25	Bot - Section 4	1.00	1.37	8.332	9.17	0.00	1.200	1.161	0.25	0.517	0.62	5.7	8.5	34.9
146.00	Appurtenance(s)	1.00	1.37	8.341	9.18	0.00	1.200	1.161	0.75	1.566	1.88	17.2	25.6	144.9
148.50	Top - Section 3	1.00	1.38	8.371	9.21	0.00	1.200	1.163	2.50	5.126	6.15	56.6	82.9	472.5
150.00		1.00	1.38	8.388	9.23	0.00	1.200	1.164	1.50	3.006	3.61	33.3	48.9	126.2
155.00		1.00	1.39	8.446	9.29	0.00	1.200	1.168	5.00	9.649	11.58	107.6	153.5	400.4
159.00	Appurtenance(s)	1.00	1.40	8.491	9.34	0.00	1.200	1.171	4.00	7.305	8.77	81.9	116.7	302.3
160.00		1.00	1.40	8.502	9.35	0.00	1.200	1.172	1.00	1.769	2.12	19.8	28.8	73.5
165.00		1.00	1.41	8.557	9.41	0.00	1.200	1.175	5.00	8.500	10.20	96.0	134.4	348.1
169.00	Appurtenance(s)	1.00	1.42	8.600	9.46	0.00	1.200	1.178	4.00	6.386	7.66	72.5	101.4	260.4
								Totals:	**169.00**			**5,260.6**		**45,157.3**

Discrete Appurtenance Forces

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 22	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	169.00	Ericsson RRUS A2 RRU	6	8.600	9.460	0.50	0.75	7.59	253.78	0.000	0.000	71.80	0.00	0.00
2	169.00	Ericsson AIR 6449 B77D	3	8.587	9.446	0.64	0.75	8.98	578.85	0.000	-1.250	84.84	0.00	-106.05
3	169.00	Ericsson AIR 6419 B77G	3	8.619	9.481	0.57	0.75	7.42	364.70	0.000	1.750	70.31	0.00	123.05
4	169.00	CCI TPA65R-BU4DA-K	1	8.600	9.460	0.54	0.75	7.49	214.25	0.000	0.000	70.83	0.00	0.00
5	169.00	CCI TPA65R-BU6DA-K	1	8.600	9.460	0.54	0.75	7.49	214.25	0.000	0.000	70.83	0.00	0.00
6	169.00	CCI TPA65R-BU8DA-K	1	8.600	9.460	0.54	0.75	10.30	275.92	0.000	0.000	97.48	0.00	0.00
7	169.00	Ericsson 8843 B2 B66A	3	8.600	9.460	0.50	0.75	2.98	318.07	0.000	0.000	28.17	0.00	0.00
8	169.00	Ericsson RRUS-12 RRU	6	8.600	9.460	0.50	0.75	10.91	776.81	0.000	0.000	103.18	0.00	0.00
9	169.00	Ericsson RRUS 32 RRU	3	8.600	9.460	0.50	0.75	5.78	492.03	0.000	0.000	54.70	0.00	0.00
10	169.00	mount pipe	12	8.600	9.460	0.75	0.75	19.45	-4798.35	0.000	0.000	184.00	0.00	0.00
11	169.00	Ericsson 4449 B5/B12	3	8.600	9.460	0.50	0.75	3.53	322.91	0.000	0.000	33.36	0.00	0.00
12	169.00	Commscope	1	8.600	9.460	0.75	0.75	14.31	337.97	0.000	0.000	135.40	0.00	0.00
13	169.00	Commscope	1	8.600	9.460	0.75	0.75	9.94	275.43	0.000	0.000	94.03	0.00	0.00
14	169.00	CCI OPA65R-BU4DA	1	8.600	9.460	0.70	0.75	3.95	145.39	0.000	0.000	37.38	0.00	0.00
15	169.00	Raycap DC6-48-60-18-8F	3	8.600	9.460	0.50	0.75	2.93	190.18	0.000	0.000	27.70	0.00	0.00
16	169.00	Ericsson RRUS 4478 B14	3	8.600	9.460	0.54	0.80	3.22	269.62	0.000	0.000	30.42	0.00	0.00
17	169.00	CCI DTMABP7819VG12A	3	8.600	9.460	0.50	0.75	2.50	98.72	0.000	0.000	23.67	0.00	0.00
18	169.00	Reinforced T-Arms	3	8.600	9.460	0.75	0.75	50.06	2166.19	0.000	0.000	473.54	0.00	0.00
19	159.00	Ericsson 4460 B25/B66A	3	8.491	9.340	0.54	0.80	3.17	317.50	0.000	0.000	29.64	0.00	0.00
20	159.00	Ericsson 4449 B71 + B85	3	8.491	9.340	0.54	0.80	3.78	204.55	0.000	0.000	35.33	0.00	0.00
21	159.00	RFS	3	8.491	9.340	0.58	0.80	37.67	1267.92	0.000	0.000	351.82	0.00	0.00
22	159.00	Commscope VV-65A-R1	3	8.491	9.340	0.59	0.80	15.52	432.08	0.000	0.000	144.98	0.00	0.00
23	159.00	T-Arm	3	8.491	9.340	0.75	0.75	28.54	1762.08	0.000	0.000	266.56	0.00	0.00
24	159.00	PRK-SFS-L	1	8.491	9.340	1.00	1.00	24.76	778.54	0.000	0.000	231.31	0.00	0.00
25	159.00	PRK-1245L	1	8.491	9.340	1.00	1.00	16.17	680.57	0.000	0.000	151.08	0.00	0.00
26	159.00	Ericsson KRY 112 144/1	3	8.491	9.340	0.52	0.75	1.15	52.00	0.000	0.000	10.72	0.00	0.00
27	159.00	mount pipe	12	8.491	9.340	0.75	0.75	19.69	-4799.37	0.000	0.000	183.93	0.00	0.00
28	159.00	Ericsson AIR 6419 B41	3	8.491	9.340	0.56	0.80	12.16	791.14	0.000	0.000	113.59	0.00	0.00
29	146.00	JMA Wireless	6	8.341	9.175	0.66	0.75	42.61	1538.27	0.000	0.000	390.92	0.00	0.00
30	146.00	mount pipe	12	8.341	9.175	0.75	0.75	20.60	-16999.0	0.000	0.000	189.04	0.00	0.00
31	146.00	Samsung B2/B66A RRH	3	8.341	9.175	0.64	0.75	4.27	353.66	0.000	0.000	39.15	0.00	0.00
32	146.00	Mods	1	8.341	9.175	1.00	1.00	20.19	-152.93	0.000	0.000	185.29	0.00	0.00
33	146.00	Samsung RF4461d-13A	3	8.341	9.175	0.50	0.75	3.82	526.14	0.000	0.000	35.09	0.00	0.00
34	146.00	Samsung MT6413-77A	3	8.341	9.175	0.53	0.75	6.91	392.11	0.000	0.000	63.37	0.00	0.00
35	146.00	Raycap	1	8.341	9.175	0.75	0.75	3.56	103.32	0.000	0.000	32.62	0.00	0.00
36	146.00	Antenna Bracket JWA	3	8.341	9.175	1.00	1.00	0.00	-4266.43	0.000	0.000	0.00	0.00	0.00
37	146.00	Low Profile Platform	1	8.341	9.175	1.00	1.00	22.88	1975.71	0.000	0.000	209.90	0.00	0.00
38	134.00	Platform w/HRK	1	8.193	9.012	0.67	0.67	36.09	3122.17	0.000	0.000	325.28	0.00	0.00
39	134.00	Raycap	1	8.193	9.012	0.75	0.75	1.98	26.59	0.000	0.000	17.85	0.00	0.00
40	134.00	Samsung RF4451d-70A	3	8.193	9.012	0.50	0.75	3.66	296.06	0.000	0.000	32.95	0.00	0.00
41	134.00	Samsung RF4450t-71A	3	8.193	9.012	0.50	0.75	4.01	583.02	0.000	0.000	36.11	0.00	0.00
42	134.00	Commscope	3	8.193	9.012	0.56	0.75	22.32	783.16	0.000	0.000	201.19	0.00	0.00
							Totals:		**-7,734.46**			**4,969.39**		

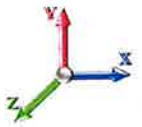
Total Applied Force Summary

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 23	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		176.32	2250.66	0.00	0.00
10.00		172.68	2225.59	0.00	0.00
15.00		171.02	2192.52	0.00	0.00
20.00		177.03	2155.64	0.00	0.00
25.00		180.89	2116.47	0.00	0.00
30.00		183.24	2075.75	0.00	0.00
35.00		184.48	2033.90	0.00	0.00
40.00		184.83	1991.19	0.00	0.00
45.00		184.47	1947.79	0.00	0.00
46.50		54.75	576.33	0.00	0.00
50.00		130.21	2273.36	0.00	0.00
53.25		120.26	2074.65	0.00	0.00
55.00		64.29	657.09	0.00	0.00
60.00		183.52	1845.17	0.00	0.00
65.00		181.28	1800.01	0.00	0.00
70.00		178.70	1754.55	0.00	0.00
75.00		175.80	1708.81	0.00	0.00
80.00		172.62	1662.82	0.00	0.00
85.00		169.19	1616.61	0.00	0.00
90.00		165.52	1570.20	0.00	0.00
95.00		161.63	1523.60	0.00	0.00
100.00		160.76	2327.02	0.00	0.00
105.00		156.52	1322.93	0.00	0.00
110.00		152.10	1281.41	0.00	0.00
115.00		147.51	1239.76	0.00	0.00
120.00		142.76	1197.97	0.00	0.00
125.00		137.87	1156.07	0.00	0.00
130.00		132.84	1114.06	0.00	0.00
134.00	(11) attachments	715.85	5672.65	0.00	0.00
135.00		25.03	210.41	0.00	0.00
140.00		122.38	1023.12	0.00	0.00
145.00		116.97	980.81	0.00	0.00
145.25		5.68	48.15	0.00	0.00
146.00	(33) attachments	1162.63	-16344.57	0.00	0.00
148.50		56.63	561.76	0.00	0.00
150.00		33.29	179.77	0.00	0.00
155.00		107.57	579.14	0.00	0.00
159.00	(35) attachments	1600.83	1932.37	0.00	0.00
160.00		19.85	92.75	0.00	0.00
165.00		96.01	444.31	0.00	0.00
169.00	(57) attachments	1764.16	2834.09	0.00	17.00
	Totals:	**10,229.96**	**45,906.67**	**0.00**	**17.00**

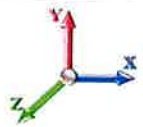
Linear Appurtenance Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 24	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.86	0.00	0.017	0.000	5.165	0.00	7.27
5.00	Step bolts	Yes	5.00	0.000	0.63	0.97	0.00	0.017	0.000	5.165	0.00	12.80
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.90	0.00	0.017	0.000	5.165	0.00	7.91
10.00	Step bolts	Yes	5.00	0.000	0.63	1.01	0.00	0.017	0.000	5.165	0.00	13.48
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.93	0.00	0.018	0.000	5.229	0.00	8.34
15.00	Step bolts	Yes	5.00	0.000	0.63	1.04	0.00	0.018	0.000	5.229	0.00	13.95
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.95	0.00	0.018	0.000	5.537	0.00	8.67
20.00	Step bolts	Yes	5.00	0.000	0.63	1.06	0.00	0.018	0.000	5.537	0.00	14.31
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.97	0.00	0.018	0.000	5.792	0.00	8.94
25.00	Step bolts	Yes	5.00	0.000	0.63	1.08	0.00	0.018	0.000	5.792	0.00	14.60
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.99	0.00	0.019	0.000	6.011	0.00	9.18
30.00	Step bolts	Yes	5.00	0.000	0.63	1.09	0.00	0.019	0.000	6.011	0.00	14.85
35.00	Safety Cable	Yes	5.00	0.000	0.38	1.00	0.00	0.019	0.000	6.203	0.00	9.38
35.00	Step bolts	Yes	5.00	0.000	0.63	1.10	0.00	0.019	0.000	6.203	0.00	15.07
40.00	Safety Cable	Yes	5.00	0.000	0.38	1.01	0.00	0.020	0.000	6.375	0.00	9.57
40.00	Step bolts	Yes	5.00	0.000	0.63	1.11	0.00	0.020	0.000	6.375	0.00	15.27
45.00	Safety Cable	Yes	5.00	0.000	0.38	1.02	0.00	0.020	0.000	6.531	0.00	9.73
45.00	Step bolts	Yes	5.00	0.000	0.63	1.12	0.00	0.020	0.000	6.531	0.00	15.44
46.50	Safety Cable	Yes	1.50	0.000	0.38	0.31	0.00	0.021	0.000	6.576	0.00	2.93
46.50	Step bolts	Yes	1.50	0.000	0.63	0.34	0.00	0.021	0.000	6.576	0.00	4.65
50.00	Safety Cable	Yes	3.50	0.000	0.38	0.72	0.00	0.021	0.000	6.675	0.00	6.92
50.00	Step bolts	Yes	3.50	0.000	0.63	0.79	0.00	0.021	0.000	6.675	0.00	10.92
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.67	0.00	0.022	0.000	6.762	0.00	6.48
53.25	Step bolts	Yes	3.25	0.000	0.63	0.74	0.00	0.022	0.000	6.762	0.00	10.21
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.36	0.00	0.022	0.000	6.807	0.00	3.51
55.00	Step bolts	Yes	1.75	0.000	0.63	0.40	0.00	0.022	0.000	6.807	0.00	5.51
60.00	Safety Cable	Yes	5.00	0.000	0.38	1.04	0.00	0.022	0.000	6.931	0.00	10.15
60.00	Step bolts	Yes	5.00	0.000	0.63	1.15	0.00	0.022	0.000	6.931	0.00	15.89
65.00	Safety Cable	Yes	5.00	0.000	0.38	1.05	0.00	0.023	0.000	7.047	0.00	10.28
65.00	Step bolts	Yes	5.00	0.000	0.63	1.16	0.00	0.023	0.000	7.047	0.00	16.03
70.00	Safety Cable	Yes	5.00	0.000	0.38	1.06	0.00	0.023	0.000	7.156	0.00	10.39
70.00	Step bolts	Yes	5.00	0.000	0.63	1.16	0.00	0.023	0.000	7.156	0.00	16.15
75.00	Safety Cable	Yes	5.00	0.000	0.38	1.06	0.00	0.024	0.000	7.259	0.00	10.50
75.00	Step bolts	Yes	5.00	0.000	0.63	1.17	0.00	0.024	0.000	7.259	0.00	16.26
80.00	Safety Cable	Yes	5.00	0.000	0.38	1.07	0.00	0.025	0.000	7.357	0.00	10.60
80.00	Step bolts	Yes	5.00	0.000	0.63	1.17	0.00	0.025	0.000	7.357	0.00	16.37
85.00	Safety Cable	Yes	5.00	0.000	0.38	1.08	0.00	0.026	0.000	7.451	0.00	10.70
85.00	Step bolts	Yes	5.00	0.000	0.63	1.18	0.00	0.026	0.000	7.451	0.00	16.48
90.00	Safety Cable	Yes	5.00	0.000	0.38	1.08	0.00	0.027	0.000	7.540	0.00	10.79
90.00	Step bolts	Yes	5.00	0.000	0.63	1.18	0.00	0.027	0.000	7.540	0.00	16.58
95.00	Safety Cable	Yes	5.00	0.000	0.38	1.09	0.00	0.028	0.000	7.625	0.00	10.88
95.00	Step bolts	Yes	5.00	0.000	0.63	1.19	0.00	0.028	0.000	7.625	0.00	16.67
100.00	Safety Cable	Yes	5.00	0.000	0.38	1.09	0.00	0.029	0.000	7.707	0.00	10.97
100.00	Step bolts	Yes	5.00	0.000	0.63	1.19	0.00	0.029	0.000	7.707	0.00	16.76
105.00	Safety Cable	Yes	5.00	0.000	0.38	1.09	0.00	0.029	0.000	7.786	0.00	11.05
105.00	Step bolts	Yes	5.00	0.000	0.63	1.20	0.00	0.029	0.000	7.786	0.00	16.85
110.00	Safety Cable	Yes	5.00	0.000	0.38	1.10	0.00	0.031	0.000	7.862	0.00	11.13

Linear Appurtenance Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 25	

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
110.00	Step bolts	Yes	5.00	0.000	0.63	1.20	0.00	0.031	0.000	7.862	0.00	16.93
115.00	Safety Cable	Yes	5.00	0.000	0.38	1.10	0.00	0.032	0.000	7.935	0.00	11.21
115.00	Step bolts	Yes	5.00	0.000	0.63	1.21	0.00	0.032	0.000	7.935	0.00	17.01
120.00	Safety Cable	Yes	5.00	0.000	0.38	1.11	0.00	0.034	0.000	8.006	0.00	11.28
120.00	Step bolts	Yes	5.00	0.000	0.63	1.21	0.00	0.034	0.000	8.006	0.00	17.09
125.00	Safety Cable	Yes	5.00	0.000	0.38	1.11	0.00	0.035	0.000	8.075	0.00	11.35
125.00	Step bolts	Yes	5.00	0.000	0.63	1.22	0.00	0.035	0.000	8.075	0.00	17.17
130.00	Safety Cable	Yes	5.00	0.000	0.38	1.11	0.00	0.037	0.000	8.141	0.00	11.42
130.00	Step bolts	Yes	5.00	0.000	0.63	1.22	0.00	0.037	0.000	8.141	0.00	17.24
134.00	Safety Cable	Yes	4.00	0.000	0.38	0.89	0.00	0.039	0.000	8.193	0.00	9.18
134.00	Step bolts	Yes	4.00	0.000	0.63	0.98	0.00	0.039	0.000	8.193	0.00	13.84
135.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.040	0.000	8.206	0.00	2.30
135.00	Step bolts	Yes	1.00	0.000	0.63	0.24	0.00	0.040	0.000	8.206	0.00	3.46
140.00	Safety Cable	Yes	5.00	0.000	0.38	1.12	0.00	0.041	0.000	8.268	0.00	11.55
140.00	Step bolts	Yes	5.00	0.000	0.63	1.23	0.00	0.041	0.000	8.268	0.00	17.38
145.00	Safety Cable	Yes	5.00	0.000	0.38	1.13	0.00	0.044	0.000	8.329	0.00	11.61
145.00	Step bolts	Yes	5.00	0.000	0.63	1.23	0.00	0.044	0.000	8.329	0.00	17.45
145.25	Safety Cable	Yes	0.25	0.000	0.38	0.06	0.00	0.045	0.000	8.332	0.00	0.58
145.25	Step bolts	Yes	0.25	0.000	0.63	0.06	0.00	0.045	0.000	8.332	0.00	0.87
146.00	Safety Cable	Yes	0.75	0.000	0.38	0.17	0.00	0.045	0.000	8.341	0.00	1.74
146.00	Step bolts	Yes	0.75	0.000	0.63	0.18	0.00	0.045	0.000	8.341	0.00	2.62
148.50	Safety Cable	Yes	2.50	0.000	0.38	0.56	0.00	0.046	0.000	8.371	0.00	5.83
148.50	Step bolts	Yes	2.50	0.000	0.63	0.62	0.00	0.046	0.000	8.371	0.00	8.75
150.00	Safety Cable	Yes	1.50	0.000	0.38	0.34	0.00	0.046	0.000	8.388	0.00	3.50
150.00	Step bolts	Yes	1.50	0.000	0.63	0.37	0.00	0.046	0.000	8.388	0.00	5.25
155.00	Safety Cable	Yes	5.00	0.000	0.38	1.13	0.00	0.049	0.000	8.446	0.00	11.73
155.00	Step bolts	Yes	5.00	0.000	0.63	1.24	0.00	0.049	0.000	8.446	0.00	17.58
159.00	Safety Cable	Yes	4.00	0.000	0.38	0.91	0.00	0.052	0.000	8.491	0.00	9.42
159.00	Step bolts	Yes	4.00	0.000	0.63	0.99	0.00	0.052	0.000	8.491	0.00	14.10
160.00	Safety Cable	Yes	1.00	0.000	0.38	0.23	0.00	0.053	0.000	8.502	0.00	2.36
160.00	Step bolts	Yes	1.00	0.000	0.63	0.25	0.00	0.053	0.000	8.502	0.00	3.53
165.00	Safety Cable	Yes	5.00	0.000	0.38	1.14	0.00	0.056	0.000	8.557	0.00	11.85
165.00	Step bolts	Yes	5.00	0.000	0.63	1.24	0.00	0.056	0.000	8.557	0.00	17.70
169.00	Safety Cable	Yes	4.00	0.000	0.38	0.91	0.00	0.060	0.000	8.600	0.00	9.51
169.00	Step bolts	Yes	4.00	0.000	0.63	1.00	0.00	0.060	0.000	8.600	0.00	14.20
									Totals:		**0.0**	**900.0**

Calculated Forces

Structure: CT11794-S
Site Name: East Lyme 1
Height: 169.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1 **Topography:** 1

Code: TIA-222-H 1/11/2024
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

SBA

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind
Dead Load Factor 1.20
Wind Load Factor 1.00

Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-62.25	-10.26	0.00	-1246.0	0.00	1246.08	5562.36	1454.92	7206.86	6836.50	0.00	0.000	0.000	0.194
5.00	-59.99	-10.13	0.00	-1194.8	0.00	1194.81	5482.35	1421.65	6881.06	6582.98	0.03	-0.047	0.000	0.192
10.00	-57.75	-10.00	0.00	-1144.1	0.00	1144.18	5400.13	1388.39	6562.80	6331.40	0.10	-0.094	0.000	0.191
15.00	-55.55	-9.87	0.00	-1094.1	0.00	1094.17	5315.71	1355.12	6252.07	6081.95	0.22	-0.143	0.000	0.190
20.00	-53.39	-9.74	0.00	-1044.8	0.00	1044.81	5229.08	1321.85	5948.87	5834.81	0.40	-0.194	0.000	0.189
25.00	-51.27	-9.60	0.00	-996.12	0.00	996.12	5140.25	1288.59	5653.22	5590.18	0.63	-0.246	0.000	0.188
30.00	-49.18	-9.45	0.00	-948.14	0.00	948.14	5049.20	1255.32	5365.09	5348.24	0.92	-0.299	0.000	0.187
35.00	-47.14	-9.30	0.00	-900.90	0.00	900.90	4955.95	1222.05	5084.51	5109.18	1.26	-0.354	0.000	0.186
40.00	-45.14	-9.15	0.00	-854.41	0.00	854.41	4860.49	1188.79	4811.46	4873.19	1.66	-0.410	0.000	0.185
45.00	-43.19	-8.97	0.00	-808.68	0.00	808.68	4762.82	1155.52	4545.94	4640.45	2.12	-0.468	0.000	0.183
46.50	-42.61	-8.94	0.00	-795.22	0.00	795.22	4733.09	1145.54	4467.75	4571.29	2.27	-0.487	0.000	0.183
50.00	-40.33	-8.82	0.00	-763.94	0.00	763.94	4662.94	1122.25	4287.96	4411.15	2.65	-0.529	0.000	0.182
53.25	-38.25	-8.70	0.00	-735.28	0.00	735.28	4662.03	1121.95	4285.67	4409.10	3.02	-0.570	0.000	0.175
55.00	-37.59	-8.65	0.00	-720.06	0.00	720.06	4626.54	1110.31	4197.18	4329.70	3.23	-0.592	0.000	0.174
60.00	-35.74	-8.49	0.00	-676.79	0.00	676.79	4523.67	1077.04	3949.44	4105.38	3.89	-0.652	0.000	0.173
65.00	-33.93	-8.32	0.00	-634.35	0.00	634.35	4418.66	1043.78	3709.24	3885.01	4.60	-0.714	0.000	0.171
70.00	-32.17	-8.16	0.00	-592.74	0.00	592.74	4277.83	1010.51	3476.57	3640.10	5.38	-0.777	0.000	0.170
75.00	-30.45	-7.99	0.00	-551.96	0.00	551.96	4137.00	977.25	3251.43	3403.17	6.23	-0.842	0.000	0.170
80.00	-28.78	-7.83	0.00	-512.00	0.00	512.00	3996.18	943.98	3033.84	3174.21	7.15	-0.909	0.000	0.169
85.00	-27.16	-7.67	0.00	-472.86	0.00	472.86	3855.35	910.71	2823.78	2953.23	8.14	-0.977	0.000	0.167
90.00	-25.58	-7.50	0.00	-434.53	0.00	434.53	3714.52	877.45	2621.25	2740.21	9.20	-1.048	0.000	0.166
95.00	-24.05	-7.34	0.00	-397.01	0.00	397.01	3573.69	844.18	2426.26	2535.17	10.34	-1.120	0.000	0.163
100.00	-21.72	-7.16	0.00	-360.29	0.00	360.29	3014.30	712.04	2013.83	2107.62	11.55	-1.194	0.000	0.178
105.00	-20.39	-7.01	0.00	-324.47	0.00	324.47	2893.59	683.53	1855.77	1941.32	12.84	-1.269	0.000	0.174
110.00	-19.11	-6.85	0.00	-289.43	0.00	289.43	2772.88	655.01	1704.17	1781.85	14.21	-1.352	0.000	0.169
115.00	-17.86	-6.70	0.00	-255.16	0.00	255.16	2652.17	626.50	1559.02	1629.21	15.67	-1.436	0.000	0.163
120.00	-16.66	-6.55	0.00	-221.64	0.00	221.64	2531.46	597.98	1420.34	1483.41	17.22	-1.519	0.000	0.156
125.00	-15.50	-6.41	0.00	-188.87	0.00	188.87	2410.75	569.47	1288.11	1344.44	18.86	-1.602	0.000	0.147
130.00	-14.38	-6.26	0.00	-156.84	0.00	156.84	2290.04	540.95	1162.35	1212.31	20.58	-1.683	0.000	0.136
134.00	-8.73	-5.38	0.00	-131.80	0.00	131.80	2193.47	518.14	1066.39	1111.53	22.02	-1.746	0.000	0.123
135.00	-8.51	-5.36	0.00	-126.42	0.00	126.42	2169.33	512.44	1043.04	1087.01	22.39	-1.762	0.000	0.120
140.00	-7.49	-5.21	0.00	-99.64	0.00	99.64	2048.62	483.93	930.19	968.55	24.27	-1.834	0.000	0.107
145.00	-6.51	-5.07	0.00	-73.59	0.00	73.59	1927.91	455.41	823.80	856.92	26.23	-1.900	0.000	0.089
145.25	-6.46	-5.06	0.00	-72.33	0.00	72.33	1921.88	453.99	818.65	851.51	26.33	-1.903	0.000	0.088
146.00	-6.50	-3.90	0.00	-68.53	0.00	68.53	1903.77	449.71	803.30	835.41	26.63	-1.913	0.000	0.086
148.50	-5.94	-3.83	0.00	-58.79	0.00	58.79	907.84	223.60	397.18	399.56	27.64	-1.943	0.000	0.154
150.00	-5.75	-3.79	0.00	-53.05	0.00	53.05	895.57	219.32	382.13	386.55	28.25	-1.961	0.000	0.144
155.00	-5.17	-3.67	0.00	-34.09	0.00	34.09	853.23	205.07	334.07	344.13	30.36	-2.050	0.000	0.105
159.00	-3.30	-2.00	0.00	-19.40	0.00	19.40	817.77	193.66	297.94	311.31	32.10	-2.103	0.000	0.066
160.00	-3.21	-1.98	0.00	-17.40	0.00	17.40	807.76	190.81	289.23	302.92	32.54	-2.114	0.000	0.062
165.00	-2.77	-1.87	0.00	-7.50	0.00	7.50	747.41	176.55	247.62	259.13	34.78	-2.153	0.000	0.033
169.00	0.00	-1.76	0.00	-0.02	0.00	0.02	699.12	165.15	216.66	226.56	36.59	-2.165	0.000	0.000

Seismic Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 27	

Load Case: 1.2D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.21	**Iterations**	22
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.08	**Ss**	0.20
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.30	**SA**	0.03	**S1**	0.05
						Seismic Importance Factor	1.00

R: 1.50

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)
0.00		0.00	0.00	0.00	0.00
5.00		1644.6	2.50	68.42	0.01
10.00		1612.3	7.50	67.07	0.07
15.00		1580.1	12.50	65.73	0.20
20.00		1547.8	17.50	64.39	0.37
25.00		1515.6	22.50	63.05	0.59
30.00		1483.3	27.50	61.71	0.84
35.00		1451.1	32.50	60.37	1.12
40.00		1418.8	37.50	59.02	1.42
45.00		1386.6	42.50	57.68	1.75
46.50	Bot - Section 2	409.70	45.75	17.04	0.18
50.00		1728.6	48.25	71.91	3.50
53.25	Top - Section 1	1576.8	51.63	65.60	3.33
55.00		466.31	54.13	19.40	0.32
60.00		1310.5	57.50	54.52	2.86
65.00		1278.2	62.50	53.18	3.21
70.00		1246.0	67.50	51.84	3.56
75.00		1213.7	72.50	50.49	3.90
80.00		1181.5	77.50	49.15	4.22
85.00		1149.2	82.50	47.81	4.52
90.00		1117.0	87.50	46.47	4.81
95.00	Bot - Section 3	1084.7	92.50	45.13	5.07
100.00	Top - Section 2	1756.6	97.50	73.08	14.76
105.00		926.73	102.50	38.55	4.54
110.00		899.09	107.50	37.40	4.70
115.00		871.45	112.50	36.25	4.84
120.00		843.80	117.50	35.10	4.95
125.00		816.16	122.50	33.95	5.03
130.00		788.52	127.50	32.80	5.09
134.00	Appurtenance(s)	3048.8	132.00	126.83	81.48
135.00		148.64	134.50	6.18	0.20
140.00		726.63	137.50	30.23	5.02
145.00		698.99	142.50	29.08	4.99
145.25	Bot - Section 4	34.22	145.13	1.42	0.01
146.00	Appurtenance(s)	3300.5	145.63	137.30	116.23
148.50	Top - Section 3	403.31	147.25	16.78	1.77
150.00		111.61	149.25	4.64	0.14
155.00		363.05	152.50	15.10	1.54
159.00	Appurtenance(s)	4024.5	157.00	167.42	200.86
160.00		52.18	159.50	2.17	0.03
165.00		252.61	162.50	10.51	0.85
169.00	Appurtenance(s)	4257.0	167.00	177.09	254.29
	Totals:	**51,727.8**		**2,151.9**	**757.1**

Total Wind: **43,426.9**

Calculated Forces

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 28	

SBA

Load Case: 1.2D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.21			**Iterations**	22
Dead Load Factor	1.20	**Seismic Load Factor**	1.00	**Sd1**	0.08			**Ss**	0.20
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.30	**SA**	0.03			**S1**	0.05
								Seismic Importance Factor	1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-62.66	-0.76	0.00	-120.61	0.00	120.61	5562.36	1454.92	7206.86	6836.50		0.00	0.00	0.029
5.00	-60.66	-0.76	0.00	-116.82	0.00	116.82	5482.35	1421.65	6881.06	6582.98		0.00	0.00	0.029
10.00	-58.71	-0.77	0.00	-113.00	0.00	113.00	5400.13	1388.39	6562.80	6331.40		0.01	-0.01	0.029
15.00	-56.80	-0.77	0.00	-109.16	0.00	109.16	5315.71	1355.12	6252.07	6081.95		0.02	-0.01	0.029
20.00	-54.93	-0.78	0.00	-105.29	0.00	105.29	5229.08	1321.85	5948.87	5834.81		0.04	-0.02	0.029
25.00	-53.10	-0.78	0.00	-101.41	0.00	101.41	5140.25	1288.59	5653.22	5590.18		0.06	-0.02	0.028
30.00	-51.30	-0.78	0.00	-97.51	0.00	97.51	5049.20	1255.32	5365.09	5348.24		0.09	-0.03	0.028
35.00	-49.55	-0.79	0.00	-93.59	0.00	93.59	4955.95	1222.05	5084.51	5109.18		0.12	-0.04	0.028
40.00	-47.84	-0.79	0.00	-89.66	0.00	89.66	4860.49	1188.79	4811.46	4873.19		0.17	-0.04	0.028
45.00	-46.17	-0.79	0.00	-85.72	0.00	85.72	4762.82	1155.52	4545.94	4640.45		0.21	-0.05	0.028
46.50	-45.68	-0.79	0.00	-84.54	0.00	84.54	4733.09	1145.54	4467.75	4571.29		0.23	-0.05	0.028
50.00	-43.56	-0.79	0.00	-81.77	0.00	81.77	4662.94	1122.25	4287.96	4411.15		0.27	-0.05	0.028
53.25	-41.64	-0.79	0.00	-79.20	0.00	79.20	4662.03	1121.95	4285.67	4409.10		0.30	-0.06	0.027
55.00	-41.08	-0.79	0.00	-77.83	0.00	77.83	4626.54	1110.31	4197.18	4329.70		0.33	-0.06	0.027
60.00	-39.50	-0.79	0.00	-73.88	0.00	73.88	4523.67	1077.04	3949.44	4105.38		0.39	-0.07	0.027
65.00	-37.96	-0.79	0.00	-69.94	0.00	69.94	4418.66	1043.78	3709.24	3885.01		0.47	-0.07	0.027
70.00	-36.47	-0.79	0.00	-66.00	0.00	66.00	4277.83	1010.51	3476.57	3640.10		0.55	-0.08	0.027
75.00	-35.01	-0.79	0.00	-62.07	0.00	62.07	4137.00	977.25	3251.43	3403.17		0.64	-0.09	0.027
80.00	-33.59	-0.78	0.00	-58.14	0.00	58.14	3996.18	943.98	3033.84	3174.21		0.73	-0.10	0.027
85.00	-32.21	-0.78	0.00	-54.22	0.00	54.22	3855.35	910.71	2823.78	2953.23		0.84	-0.10	0.027
90.00	-30.88	-0.78	0.00	-50.32	0.00	50.32	3714.52	877.45	2621.25	2740.21		0.95	-0.11	0.027
95.00	-29.58	-0.77	0.00	-46.43	0.00	46.43	3573.69	844.18	2426.26	2535.17		1.07	-0.12	0.027
100.00	-27.45	-0.76	0.00	-42.55	0.00	42.55	3014.30	712.04	2013.83	2107.62		1.20	-0.13	0.029
105.00	-26.35	-0.76	0.00	-38.75	0.00	38.75	2893.59	683.53	1855.77	1941.32		1.34	-0.14	0.029
110.00	-25.28	-0.75	0.00	-34.97	0.00	34.97	2772.88	655.01	1704.17	1781.85		1.49	-0.15	0.029
115.00	-24.25	-0.75	0.00	-31.20	0.00	31.20	2652.17	626.50	1559.02	1629.21		1.65	-0.16	0.028
120.00	-23.25	-0.75	0.00	-27.45	0.00	27.45	2531.46	597.98	1420.34	1483.41		1.82	-0.17	0.028
125.00	-22.29	-0.74	0.00	-23.71	0.00	23.71	2410.75	569.47	1288.11	1344.44		2.01	-0.18	0.027
130.00	-21.36	-0.74	0.00	-19.99	0.00	19.99	2290.04	540.95	1162.35	1212.31		2.20	-0.19	0.026
134.00	-17.62	-0.65	0.00	-17.04	0.00	17.04	2193.47	518.14	1066.39	1111.53		2.36	-0.20	0.023
135.00	-17.44	-0.65	0.00	-16.39	0.00	16.39	2169.33	512.44	1043.04	1087.01		2.40	-0.20	0.023
140.00	-16.59	-0.64	0.00	-13.15	0.00	13.15	2048.62	483.93	930.19	968.55		2.62	-0.21	0.022
145.00	-15.77	-0.64	0.00	-9.95	0.00	9.95	1927.91	455.41	823.80	856.92		2.84	-0.22	0.020
145.25	-15.73	-0.64	0.00	-9.79	0.00	9.79	1921.88	453.99	818.65	851.51		2.85	-0.22	0.020
146.00	-11.64	-0.50	0.00	-9.31	0.00	9.31	1903.77	449.71	803.30	835.41		2.88	-0.22	0.017
148.50	-11.15	-0.50	0.00	-8.05	0.00	8.05	907.84	223.60	397.18	399.56		3.00	-0.22	0.032
150.00	-11.02	-0.50	0.00	-7.30	0.00	7.30	895.57	219.32	382.13	386.55		3.07	-0.23	0.031
155.00	-10.60	-0.50	0.00	-4.79	0.00	4.79	853.23	205.07	334.07	344.13		3.31	-0.24	0.026
159.00	-5.63	-0.28	0.00	-2.79	0.00	2.79	817.77	193.66	297.94	311.31		3.52	-0.25	0.016
160.00	-5.57	-0.28	0.00	-2.51	0.00	2.51	807.76	190.81	289.23	302.92		3.57	-0.25	0.015
165.00	-5.27	-0.28	0.00	-1.11	0.00	1.11	747.41	176.55	247.62	259.13		3.83	-0.25	0.011
169.00	0.00	-0.25	0.00	0.00	0.00	0.00	699.12	165.15	216.66	226.56		4.04	-0.25	0.000

Seismic Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 29	

Load Case: 0.9D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.21	**Iterations**	22
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.08	**Ss**	0.20
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.30	**SA**	0.03	**S1**	0.05
						Seismic Importance Factor	1.00

R: 1.50

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)
0.00		0.00	0.00	0.00	0.00
5.00		1582.0	2.50	65.81	0.01
10.00		1549.8	7.50	64.47	0.07
15.00		1517.5	12.50	63.13	0.19
20.00		1485.3	17.50	61.79	0.35
25.00		1453.0	22.50	60.45	0.55
30.00		1420.8	27.50	59.11	0.79
35.00		1388.5	32.50	57.76	1.05
40.00		1356.3	37.50	56.42	1.34
45.00		1324.0	42.50	55.08	1.64
46.50	Bot - Section 2	390.93	45.75	16.26	0.17
50.00		1684.8	48.25	70.09	3.41
53.25	Top - Section 1	1536.1	51.63	63.91	3.25
55.00		444.41	54.13	18.49	0.30
60.00		1247.9	57.50	51.92	2.66
65.00		1215.7	62.50	50.57	2.98
70.00		1183.4	67.50	49.23	3.30
75.00		1151.2	72.50	47.89	3.60
80.00		1118.9	77.50	46.55	3.89
85.00		1086.7	82.50	45.21	4.15
90.00		1054.4	87.50	43.87	4.40
95.00	Bot - Section 3	1022.2	92.50	42.52	4.62
100.00	Top - Section 2	1694.0	97.50	70.47	14.10
105.00		864.17	102.50	35.95	4.05
110.00		836.52	107.50	34.80	4.18
115.00		808.88	112.50	33.65	4.28
120.00		781.24	117.50	32.50	4.35
125.00		753.59	122.50	31.35	4.40
130.00		725.95	127.50	30.20	4.43
134.00	Appurtenance(s)	2998.7	132.00	124.75	80.96
135.00		136.46	134.50	5.68	0.17
140.00		665.71	137.50	27.69	4.33
145.00		638.07	142.50	26.54	4.27
145.25	Bot - Section 4	31.18	145.13	1.30	0.01
146.00	Appurtenance(s)	3291.4	145.63	136.92	118.71
148.50	Top - Section 3	383.65	147.25	15.96	1.65
150.00		99.81	149.25	4.15	0.11
155.00		323.72	152.50	13.47	1.26
159.00	Appurtenance(s)	3993.0	157.00	166.11	203.07
160.00		48.45	159.50	2.02	0.03
165.00		233.97	162.50	9.73	0.75
169.00	Appurtenance(s)	4242.1	167.00	176.47	259.33
	Totals:	**49,765.3**		**2,070.2**	**757.1**

Total Wind: **43,426.9**

Calculated Forces

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 30	

SBA

Load Case: 0.9D + 1.0Ev + 1.0Eh

Gust Response Factor	1.10			**Sds**	0.21			**Iterations**	22
Dead Load Factor	0.90	**Seismic Load Factor**	1.00	**Sd1**	0.08			**Ss**	0.20
Wind Load Factor	0.00	**Structure Frequency (f1)**	0.30	**SA**	0.03	**Seismic Importance Factor**	1.00	**S1**	0.05

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-47.45	-0.76	0.00	-119.17	0.00	119.17	5562.36	1454.92	7206.86	6836.50		0.00	0.00	0.026
5.00	-45.94	-0.76	0.00	-115.38	0.00	115.38	5482.35	1421.65	6881.06	6582.98		0.00	0.00	0.026
10.00	-44.46	-0.77	0.00	-111.57	0.00	111.57	5400.13	1388.39	6562.80	6331.40		0.01	-0.01	0.026
15.00	-43.01	-0.77	0.00	-107.74	0.00	107.74	5315.71	1355.12	6252.07	6081.95		0.02	-0.01	0.026
20.00	-41.60	-0.77	0.00	-103.90	0.00	103.90	5229.08	1321.85	5948.87	5834.81		0.04	-0.02	0.026
25.00	-40.21	-0.77	0.00	-100.05	0.00	100.05	5140.25	1288.59	5653.22	5590.18		0.06	-0.02	0.026
30.00	-38.85	-0.78	0.00	-96.18	0.00	96.18	5049.20	1255.32	5365.09	5348.24		0.09	-0.03	0.026
35.00	-37.53	-0.78	0.00	-92.30	0.00	92.30	4955.95	1222.05	5084.51	5109.18		0.12	-0.04	0.026
40.00	-36.23	-0.78	0.00	-88.40	0.00	88.40	4860.49	1188.79	4811.46	4873.19		0.16	-0.04	0.026
45.00	-34.96	-0.78	0.00	-84.51	0.00	84.51	4762.82	1155.52	4545.94	4640.45		0.21	-0.05	0.026
46.50	-34.59	-0.78	0.00	-83.34	0.00	83.34	4733.09	1145.54	4467.75	4571.29		0.22	-0.05	0.026
50.00	-32.99	-0.78	0.00	-80.60	0.00	80.60	4662.94	1122.25	4287.96	4411.15		0.26	-0.05	0.025
53.25	-31.53	-0.78	0.00	-78.07	0.00	78.07	4662.03	1121.95	4285.67	4409.10		0.30	-0.06	0.024
55.00	-31.11	-0.78	0.00	-76.71	0.00	76.71	4626.54	1110.31	4197.18	4329.70		0.32	-0.06	0.024
60.00	-29.91	-0.78	0.00	-72.83	0.00	72.83	4523.67	1077.04	3949.44	4105.38		0.39	-0.07	0.024
65.00	-28.75	-0.78	0.00	-68.94	0.00	68.94	4418.66	1043.78	3709.24	3885.01		0.46	-0.07	0.024
70.00	-27.62	-0.77	0.00	-65.06	0.00	65.06	4277.83	1010.51	3476.57	3640.10		0.54	-0.08	0.024
75.00	-26.51	-0.77	0.00	-61.19	0.00	61.19	4137.00	977.25	3251.43	3403.17		0.63	-0.09	0.024
80.00	-25.44	-0.77	0.00	-57.32	0.00	57.32	3996.18	943.98	3033.84	3174.21		0.72	-0.09	0.024
85.00	-24.40	-0.77	0.00	-53.47	0.00	53.47	3855.35	910.71	2823.78	2953.23		0.83	-0.10	0.024
90.00	-23.39	-0.77	0.00	-49.63	0.00	49.63	3714.52	877.45	2621.25	2740.21		0.94	-0.11	0.024
95.00	-22.41	-0.76	0.00	-45.81	0.00	45.81	3573.69	844.18	2426.26	2535.17		1.06	-0.12	0.024
100.00	-20.79	-0.75	0.00	-42.00	0.00	42.00	3014.30	712.04	2013.83	2107.62		1.19	-0.13	0.027
105.00	-19.96	-0.74	0.00	-38.26	0.00	38.26	2893.59	683.53	1855.77	1941.32		1.32	-0.14	0.027
110.00	-19.15	-0.74	0.00	-34.54	0.00	34.54	2772.88	655.01	1704.17	1781.85		1.47	-0.15	0.026
115.00	-18.37	-0.74	0.00	-30.83	0.00	30.83	2652.17	626.50	1559.02	1629.21		1.63	-0.16	0.026
120.00	-17.62	-0.74	0.00	-27.13	0.00	27.13	2531.46	597.98	1420.34	1483.41		1.80	-0.17	0.025
125.00	-16.89	-0.73	0.00	-23.46	0.00	23.46	2410.75	569.47	1288.11	1344.44		1.98	-0.18	0.024
130.00	-16.19	-0.73	0.00	-19.80	0.00	19.80	2290.04	540.95	1162.35	1212.31		2.17	-0.19	0.023
134.00	-13.35	-0.64	0.00	-16.88	0.00	16.88	2193.47	518.14	1066.39	1111.53		2.33	-0.19	0.021
135.00	-13.22	-0.64	0.00	-16.25	0.00	16.25	2169.33	512.44	1043.04	1087.01		2.37	-0.20	0.021
140.00	-12.57	-0.63	0.00	-13.05	0.00	13.05	2048.62	483.93	930.19	968.55		2.58	-0.21	0.020
145.00	-11.95	-0.63	0.00	-9.87	0.00	9.87	1927.91	455.41	823.80	856.92		2.80	-0.21	0.018
145.25	-11.92	-0.63	0.00	-9.72	0.00	9.72	1921.88	453.99	818.65	851.51		2.81	-0.21	0.018
146.00	-8.82	-0.50	0.00	-9.24	0.00	9.24	1903.77	449.71	803.30	835.41		2.85	-0.22	0.016
148.50	-8.45	-0.50	0.00	-8.00	0.00	8.00	907.84	223.60	397.18	399.56		2.96	-0.22	0.029
150.00	-8.36	-0.50	0.00	-7.25	0.00	7.25	895.57	219.32	382.13	386.55		3.03	-0.22	0.028
155.00	-8.04	-0.50	0.00	-4.76	0.00	4.76	853.23	205.07	334.07	344.13		3.27	-0.23	-0.023
159.00	-4.27	-0.28	0.00	-2.78	0.00	2.78	817.77	193.66	297.94	311.31		3.47	-0.24	0.014
160.00	-4.22	-0.28	0.00	-2.50	0.00	2.50	807.76	190.81	289.23	302.92		3.52	-0.24	0.013
165.00	-4.00	-0.28	0.00	-1.11	0.00	1.11	747.41	176.55	247.62	259.13		3.78	-0.25	0.010
169.00	0.00	-0.26	0.00	0.00	0.00	0.00	699.12	165.15	216.66	226.56		3.99	-0.25	0.000

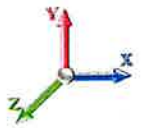
Wind Loading - Shaft

Structure: CT11794-S
Site Name: East Lyme 1
Height: 169.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1 **Topography:** 1

Code: TIA-222-H 1/11/2024
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

SBA

Load Case: 1.0D + 1.0W 60 mph Wind
Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	6.655	7.32	281.44	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	6.655	7.32	275.05	0.730	0.000	5.00	25.156	18.36	134.4	0.0	1394.4
10.00		1.00	0.85	6.655	7.32	268.66	0.730	0.000	5.00	24.579	17.94	131.4	0.0	1362.1
15.00		1.00	0.86	6.737	7.41	263.89	0.730	0.000	5.00	24.001	17.52	129.9	0.0	1329.8
20.00		1.00	0.91	7.134	7.85	264.94	0.730	0.000	5.00	23.423	17.10	134.2	0.0	1297.6
25.00		1.00	0.95	7.463	8.21	264.20	0.730	0.000	5.00	22.846	16.68	136.9	0.0	1265.3
30.00		1.00	0.99	7.744	8.52	262.24	0.730	0.000	5.00	22.268	16.26	138.5	0.0	1233.1
35.00		1.00	1.02	7.992	8.79	259.40	0.730	0.000	5.00	21.691	15.83	139.2	0.0	1200.8
40.00		1.00	1.05	8.214	9.03	255.88	0.730	0.000	5.00	21.113	15.41	139.3	0.0	1168.6
45.00		1.00	1.07	8.415	9.26	251.82	0.730	0.000	5.00	20.536	14.99	138.8	0.0	1136.3
46.50	Bot - Section 2	1.00	1.08	8.472	9.32	250.51	0.730	0.000	1.50	6.048	4.42	41.1	0.0	334.6
50.00		1.00	1.10	8.600	9.46	247.31	0.730	0.000	3.50	14.169	10.34	97.8	0.0	1553.4
53.25	Top - Section 1	1.00	1.11	8.712	9.58	244.17	0.730	0.000	3.25	12.904	9.42	90.3	0.0	1414.2
55.00		1.00	1.12	8.771	9.65	247.12	0.730	0.000	1.75	6.847	5.00	48.2	0.0	378.7
60.00		1.00	1.14	8.930	9.82	241.95	0.730	0.000	5.00	19.173	14.00	137.5	0.0	1060.3
65.00		1.00	1.16	9.079	9.99	236.51	0.730	0.000	5.00	18.596	13.57	135.6	0.0	1028.0
70.00		1.00	1.18	9.220	10.14	230.81	0.730	0.000	5.00	18.018	13.15	133.4	0.0	995.8
75.00		1.00	1.19	9.353	10.29	224.90	0.730	0.000	5.00	17.440	12.73	131.0	0.0	963.5
80.00		1.00	1.21	9.480	10.43	218.79	0.730	0.000	5.00	16.863	12.31	128.4	0.0	931.3
85.00		1.00	1.23	9.600	10.56	212.50	0.730	0.000	5.00	16.285	11.89	125.5	0.0	899.0
90.00		1.00	1.24	9.715	10.69	206.05	0.730	0.000	5.00	15.708	11.47	122.5	0.0	866.8
95.00	Bot - Section 3	1.00	1.25	9.825	10.81	199.45	0.730	0.000	5.00	15.130	11.05	119.4	0.0	834.5
100.00	Top - Section 2	1.00	1.27	9.930	10.92	192.72	0.730	0.000	5.00	14.870	10.86	118.6	0.0	1506.4
105.00		1.00	1.28	10.032	11.03	190.17	0.730	0.000	5.00	14.292	10.43	115.1	0.0	676.5
110.00		1.00	1.29	10.130	11.14	183.21	0.730	0.000	5.00	13.715	10.01	111.6	0.0	648.8
115.00		1.00	1.31	10.224	11.25	176.14	0.730	0.000	5.00	13.137	9.59	107.9	0.0	621.2
120.00		1.00	1.32	10.315	11.35	168.97	0.730	0.000	5.00	12.560	9.17	104.0	0.0	593.5
125.00		1.00	1.33	10.404	11.44	161.71	0.730	0.000	5.00	11.982	8.75	100.1	0.0	565.9
130.00		1.00	1.34	10.489	11.54	154.35	0.730	0.000	5.00	11.405	8.33	96.1	0.0	538.3
134.00	Appurtenance(s)	1.00	1.35	10.556	11.61	148.41	0.730	0.000	4.00	8.708	6.36	73.8	0.0	410.7
135.00		1.00	1.35	10.572	11.63	146.91	0.730	0.000	1.00	2.119	1.55	18.0	0.0	99.9
140.00		1.00	1.36	10.653	11.72	139.39	0.730	0.000	5.00	10.249	7.48	87.7	0.0	483.0
145.00		1.00	1.37	10.731	11.80	131.79	0.730	0.000	5.00	9.672	7.06	83.3	0.0	455.3
145.25	Bot - Section 4	1.00	1.37	10.735	11.81	131.41	0.730	0.000	0.25	0.468	0.34	4.0	0.0	22.0
146.00	Appurtenance(s)	1.00	1.37	10.747	11.82	130.26	0.730	0.000	0.75	1.420	1.04	12.3	0.0	99.4
148.50	Top - Section 3	1.00	1.38	10.785	11.86	126.42	0.730	0.000	2.50	4.641	3.39	40.2	0.0	324.6
150.00		1.00	1.38	10.808	11.89	126.35	0.730	0.000	1.50	2.715	1.98	23.6	0.0	64.4
155.00		1.00	1.39	10.882	11.97	118.62	0.730	0.000	5.00	8.675	6.33	75.8	0.0	205.7
159.00	Appurtenance(s)	1.00	1.40	10.940	12.03	112.38	0.730	0.000	4.00	6.525	4.76	57.3	0.0	154.6
160.00		1.00	1.40	10.955	12.05	110.82	0.730	0.000	1.00	1.573	1.15	13.8	0.0	37.3
165.00		1.00	1.41	11.025	12.13	102.95	0.730	0.000	5.00	7.520	5.49	66.6	0.0	178.1
169.00	Appurtenance(s)	1.00	1.42	11.081	12.19	96.61	0.730	0.000	4.00	5.600	4.09	49.8	0.0	132.5
								Totals:	**169.00**			**3,892.7**		**30,466.3**

Discrete Appurtenance Forces

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 32	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	169.00	Ericsson RRUS A2 RRU	6	11.081	12.189	0.50	0.75	5.61	132.00	0.000	0.000	68.35	0.00	0.00
2	169.00	Ericsson AIR 6449 B77D	3	11.064	12.170	0.64	0.75	7.90	264.00	0.000	-1.250	96.13	0.00	-120.16
3	169.00	Ericsson AIR 6419 B77G	3	11.105	12.215	0.57	0.75	6.50	198.30	0.000	1.750	79.37	0.00	138.90
4	169.00	CCI TPA65R-BU4DA-K	1	11.081	12.189	0.54	0.75	6.95	67.50	0.000	0.000	84.71	0.00	0.00
5	169.00	CCI TPA65R-BU6DA-K	1	11.081	12.189	0.54	0.75	6.95	67.50	0.000	0.000	84.71	0.00	0.00
6	169.00	CCI TPA65R-BU8DA-K	1	11.081	12.189	0.54	0.75	9.65	82.50	0.000	0.000	117.62	0.00	0.00
7	169.00	Ericsson 8843 B2 B66A	3	11.081	12.189	0.50	0.75	2.47	216.00	0.000	0.000	30.13	0.00	0.00
8	169.00	Ericsson RRUS-12 RRU	6	11.081	12.189	0.50	0.75	9.50	348.00	0.000	0.000	115.76	0.00	0.00
9	169.00	Ericsson RRUS 32 RRU	3	11.081	12.189	0.50	0.75	5.83	231.00	0.000	0.000	71.11	0.00	0.00
10	169.00	mount pipe	12	11.081	12.189	0.75	0.75	12.24	360.00	0.000	0.000	149.19	0.00	0.00
11	169.00	Ericsson 4449 B5/B12	3	11.081	12.189	0.50	0.75	2.97	213.00	0.000	0.000	36.20	0.00	0.00
12	169.00	Commscope	1	11.081	12.189	0.75	0.75	13.40	79.00	0.000	0.000	163.36	0.00	0.00
13	169.00	Commscope	1	11.081	12.189	0.75	0.75	9.20	79.00	0.000	0.000	112.17	0.00	0.00
14	169.00	CCI OPA65R-BU4DA	1	11.081	12.189	0.70	0.75	3.50	43.00	0.000	0.000	42.62	0.00	0.00
15	169.00	Raycap DC6-48-60-18-8F	3	11.081	12.189	0.50	0.75	2.22	98.40	0.000	0.000	27.01	0.00	0.00
16	169.00	Ericsson RRUS 4478 B14	3	11.081	12.189	0.54	0.80	2.65	178.20	0.000	0.000	32.34	0.00	0.00
17	169.00	CCI DTMABP7819VG12A	3	11.081	12.189	0.50	0.75	1.72	57.54	0.000	0.000	20.95	0.00	0.00
18	169.00	Reinforced T-Arms	3	11.081	12.189	0.75	0.75	31.50	1350.00	0.000	0.000	383.95	0.00	0.00
19	159.00	Ericsson 4460 B25/B66A	3	10.940	12.034	0.54	0.80	2.64	216.00	0.000	0.000	31.74	0.00	0.00
20	159.00	Ericsson 4449 B71 + B85	3	10.940	12.034	0.54	0.80	3.17	219.60	0.000	0.000	38.12	0.00	0.00
21	159.00	RFS	3	10.940	12.034	0.58	0.80	35.46	368.40	0.000	0.000	426.74	0.00	0.00
22	159.00	Commscope VV-65A-R1	3	10.940	12.034	0.59	0.80	14.03	88.50	0.000	0.000	168.84	0.00	0.00
23	159.00	T-Arm	3	10.940	12.034	0.75	0.75	18.00	1200.00	0.000	0.000	216.62	0.00	0.00
24	159.00	PRK-SFS-L	1	10.940	12.034	1.00	1.00	16.60	394.00	0.000	0.000	199.77	0.00	0.00
25	159.00	PRK-1245L	1	10.940	12.034	1.00	1.00	9.50	464.91	0.000	0.000	114.32	0.00	0.00
26	159.00	Ericsson KRY 112 144/1	3	10.940	12.034	0.52	0.75	0.65	33.00	0.000	0.000	7.77	0.00	0.00
27	159.00	mount pipe	12	10.940	12.034	0.75	0.75	12.42	360.00	0.000	0.000	149.46	0.00	0.00
28	159.00	Ericsson AIR 6419 B41	3	10.940	12.034	0.56	0.80	10.97	399.60	0.000	0.000	132.02	0.00	0.00
29	146.00	JMA Wireless	6	10.747	11.821	0.65	0.75	38.64	360.00	0.000	0.000	456.79	0.00	0.00
30	146.00	mount pipe	12	10.747	11.821	0.75	0.75	13.23	360.00	0.000	0.000	156.40	0.00	0.00
31	146.00	Samsung B2/B66A RRH	3	10.747	11.821	0.63	0.75	3.53	224.13	0.000	0.000	41.78	0.00	0.00
32	146.00	Mods	1	10.747	11.821	1.00	1.00	13.79	465.04	0.000	0.000	163.02	0.00	0.00
33	146.00	Samsung RF4461d-13A	3	10.747	11.821	0.50	0.75	2.82	217.50	0.000	0.000	33.32	0.00	0.00
34	146.00	Samsung MT6413-77A	3	10.747	11.821	0.52	0.75	5.88	171.90	0.000	0.000	69.56	0.00	0.00
35	146.00	Raycap	1	10.747	11.821	0.75	0.75	3.04	32.00	0.000	0.000	36.00	0.00	0.00
36	146.00	Antenna Bracket JWA	3	10.747	11.821	1.00	1.00	0.00	84.00	0.000	0.000	0.00	0.00	0.00
37	146.00	Low Profile Platform	1	10.747	11.821	1.00	1.00	14.69	1250.00	0.000	0.000	173.66	0.00	0.00
38	134.00	Platform w/HRK	1	10.556	11.611	0.67	0.67	22.91	1736.00	0.000	0.000	265.99	0.00	0.00
39	134.00	Raycap	1	10.556	11.611	0.75	0.75	1.51	21.85	0.000	0.000	17.50	0.00	0.00
40	134.00	Samsung RF4451d-70A	3	10.556	11.611	0.50	0.75	2.83	183.90	0.000	0.000	32.91	0.00	0.00
41	134.00	Samsung RF4450t-71A	3	10.556	11.611	0.50	0.75	3.11	283.74	0.000	0.000	36.06	0.00	0.00
42	134.00	Commscope	3	10.556	11.611	0.55	0.75	20.15	212.40	0.000	0.000	234.01	0.00	0.00
							Totals:		**13,411.41**			**4,918.07**		

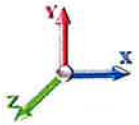
Total Applied Force Summary

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 33	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		134.44	1602.91	0.00	0.00
10.00		131.35	1570.65	0.00	0.00
15.00		129.85	1538.40	0.00	0.00
20.00		134.19	1506.15	0.00	0.00
25.00		136.90	1473.90	0.00	0.00
30.00		138.48	1441.65	0.00	0.00
35.00		139.20	1409.40	0.00	0.00
40.00		139.25	1377.15	0.00	0.00
45.00		138.76	1344.90	0.00	0.00
46.50		41.15	397.18	0.00	0.00
50.00		97.85	1699.42	0.00	0.00
53.25		90.27	1549.74	0.00	0.00
55.00		48.22	451.71	0.00	0.00
60.00		137.49	1268.82	0.00	0.00
65.00		135.58	1236.57	0.00	0.00
70.00		133.40	1204.32	0.00	0.00
75.00		130.99	1172.07	0.00	0.00
80.00		128.36	1139.82	0.00	0.00
85.00		125.54	1107.57	0.00	0.00
90.00		122.53	1075.32	0.00	0.00
95.00		119.37	1043.07	0.00	0.00
100.00		118.57	1714.93	0.00	0.00
105.00		115.13	885.02	0.00	0.00
110.00		111.56	857.38	0.00	0.00
115.00		107.86	829.74	0.00	0.00
120.00		104.03	802.09	0.00	0.00
125.00		100.10	774.45	0.00	0.00
130.00		96.06	746.81	0.00	0.00
134.00	(11) attachments	660.28	3015.43	0.00	0.00
135.00		17.99	140.52	0.00	0.00
140.00		87.68	686.02	0.00	0.00
145.00		83.35	658.38	0.00	0.00
145.25		4.04	32.19	0.00	0.00
146.00	(33) attachments	1142.78	3294.44	0.00	0.00
148.50		40.19	390.20	0.00	0.00
150.00		23.56	103.74	0.00	0.00
155.00		75.81	336.83	0.00	0.00
159.00	(35) attachments	1542.72	4003.52	0.00	0.00
160.00		13.84	49.70	0.00	0.00
165.00		66.58	240.18	0.00	0.00
169.00	(57) attachments	1765.51	4247.14	0.00	18.75
	Totals:	**8,810.81**	**50,419.47**	**0.00**	**18.75**

Linear Appurtenance Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 34	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00

Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	6.655	0.00	1.37
5.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	6.655	0.00	5.20
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.017	0.000	6.655	0.00	1.37
10.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.017	0.000	6.655	0.00	5.20
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	6.737	0.00	1.37
15.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	6.737	0.00	5.20
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	7.134	0.00	1.37
20.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	7.134	0.00	5.20
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	7.463	0.00	1.37
25.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	7.463	0.00	5.20
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	7.744	0.00	1.37
30.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	7.744	0.00	5.20
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	7.992	0.00	1.37
35.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	7.992	0.00	5.20
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	8.214	0.00	1.37
40.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	8.214	0.00	5.20
45.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	8.415	0.00	1.37
45.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	8.415	0.00	5.20
46.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.021	0.000	8.472	0.00	0.41
46.50	Step bolts	Yes	1.50	0.000	0.63	0.08	0.00	0.021	0.000	8.472	0.00	1.56
50.00	Safety Cable	Yes	3.50	0.000	0.38	0.11	0.00	0.021	0.000	8.600	0.00	0.96
50.00	Step bolts	Yes	3.50	0.000	0.63	0.18	0.00	0.021	0.000	8.600	0.00	3.64
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.022	0.000	8.712	0.00	0.89
53.25	Step bolts	Yes	3.25	0.000	0.63	0.17	0.00	0.022	0.000	8.712	0.00	3.38
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.022	0.000	8.771	0.00	0.48
55.00	Step bolts	Yes	1.75	0.000	0.63	0.09	0.00	0.022	0.000	8.771	0.00	1.82
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	8.930	0.00	1.37
60.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	8.930	0.00	5.20
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	9.079	0.00	1.37
65.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	9.079	0.00	5.20
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	9.220	0.00	1.37
70.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	9.220	0.00	5.20
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	9.353	0.00	1.37
75.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	9.353	0.00	5.20
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	9.480	0.00	1.37
80.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000	9.480	0.00	5.20
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	9.600	0.00	1.37
85.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	9.600	0.00	5.20
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	9.715	0.00	1.37
90.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	9.715	0.00	5.20
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	9.825	0.00	1.37
95.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	9.825	0.00	5.20
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	9.930	0.00	1.37
100.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	9.930	0.00	5.20
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	10.032	0.00	1.37
105.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	10.032	0.00	5.20
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	10.130	0.00	1.37

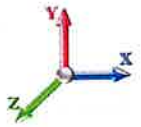
Linear Appurtenance Segment Forces (Factored)

Structure:	CT11794-S	**Code:**	TIA-222-H	1/11/2024	
Site Name:	East Lyme 1	**Exposure:**	C		
Height:	169.00 (ft)	**Crest Height:**	0.00		
Base Elev:	1.000 (ft)	**Site Class:**	D - Stiff Soil		
Gh:	1.1 **Topography:** 1	**Struct Class:**	II	Page: 35	

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 24

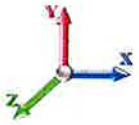
Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
110.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	10.130	0.00	5.20
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.032	0.000	10.224	0.00	1.37
115.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.032	0.000	10.224	0.00	5.20
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.034	0.000	10.315	0.00	1.37
120.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.034	0.000	10.315	0.00	5.20
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.035	0.000	10.404	0.00	1.37
125.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.035	0.000	10.404	0.00	5.20
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	10.489	0.00	1.37
130.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	10.489	0.00	5.20
134.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.039	0.000	10.556	0.00	1.09
134.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.039	0.000	10.556	0.00	4.16
135.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.040	0.000	10.572	0.00	0.27
135.00	Step bolts	Yes	1.00	0.000	0.63	0.05	0.00	0.040	0.000	10.572	0.00	1.04
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.041	0.000	10.653	0.00	1.37
140.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.041	0.000	10.653	0.00	5.20
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.044	0.000	10.731	0.00	1.37
145.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.044	0.000	10.731	0.00	5.20
145.25	Safety Cable	Yes	0.25	0.000	0.38	0.01	0.00	0.045	0.000	10.735	0.00	0.07
145.25	Step bolts	Yes	0.25	0.000	0.63	0.01	0.00	0.045	0.000	10.735	0.00	0.26
146.00	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.045	0.000	10.747	0.00	0.20
146.00	Step bolts	Yes	0.75	0.000	0.63	0.04	0.00	0.045	0.000	10.747	0.00	0.78
148.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.046	0.000	10.785	0.00	0.68
148.50	Step bolts	Yes	2.50	0.000	0.63	0.13	0.00	0.046	0.000	10.785	0.00	2.60
150.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.046	0.000	10.808	0.00	0.41
150.00	Step bolts	Yes	1.50	0.000	0.63	0.08	0.00	0.046	0.000	10.808	0.00	1.56
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.049	0.000	10.882	0.00	1.37
155.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.049	0.000	10.882	0.00	5.20
159.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.052	0.000	10.940	0.00	1.09
159.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.052	0.000	10.940	0.00	4.16
160.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.053	0.000	10.955	0.00	0.27
160.00	Step bolts	Yes	1.00	0.000	0.63	0.05	0.00	0.053	0.000	10.955	0.00	1.04
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.056	0.000	11.025	0.00	1.37
165.00	Step bolts	Yes	5.00	0.000	0.63	0.26	0.00	0.056	0.000	11.025	0.00	5.20
169.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.060	0.000	11.081	0.00	1.09
169.00	Step bolts	Yes	4.00	0.000	0.63	0.21	0.00	0.060	0.000	11.081	0.00	4.16
										Totals:	**0.0**	**221.9**

Calculated Forces

Structure: CT11794-S
Site Name: East Lyme 1
Height: 169.00 (ft)
Base Elev: 1.000 (ft)
Gh: 1.1 **Topography:** 1

Code: TIA-222-H 1/11/2024
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

Load Case: 1.0D + 1.0W 60 mph Wind
Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-50.42	-8.83	0.00	-1125.0	0.00	1125.07	5562.36	1454.92	7206.86	6836.50	0.00	0.000	0.000	0.174
5.00	-48.81	-8.73	0.00	-1080.9	0.00	1080.93	5482.35	1421.65	6881.06	6582.98	0.02	-0.042	0.000	0.173
10.00	-47.23	-8.63	0.00	-1037.2	0.00	1037.27	5400.13	1388.39	6562.80	6331.40	0.09	-0.085	0.000	0.173
15.00	-45.68	-8.54	0.00	-994.11	0.00	994.11	5315.71	1355.12	6252.07	6081.95	0.20	-0.130	0.000	0.172
20.00	-44.17	-8.43	0.00	-951.43	0.00	951.43	5229.08	1321.85	5948.87	5834.81	0.36	-0.176	0.000	0.172
25.00	-42.69	-8.33	0.00	-909.26	0.00	909.26	5140.25	1288.59	5653.22	5590.18	0.57	-0.223	0.000	0.171
30.00	-41.24	-8.22	0.00	-867.62	0.00	867.62	5049.20	1255.32	5365.09	5348.24	0.83	-0.272	0.000	0.170
35.00	-39.83	-8.11	0.00	-826.52	0.00	826.52	4955.95	1222.05	5084.51	5109.18	1.14	-0.322	0.000	0.170
40.00	-38.44	-8.00	0.00	-785.98	0.00	785.98	4860.49	1188.79	4811.46	4873.19	1.51	-0.374	0.000	0.169
45.00	-37.10	-7.87	0.00	-746.00	0.00	746.00	4762.82	1155.52	4545.94	4640.45	1.93	-0.427	0.000	0.169
46.50	-36.69	-7.84	0.00	-734.20	0.00	734.20	4733.09	1145.54	4467.75	4571.29	2.07	-0.444	0.000	0.168
50.00	-34.99	-7.76	0.00	-706.74	0.00	706.74	4662.94	1122.25	4287.96	4411.15	2.41	-0.484	0.000	0.168
53.25	-33.44	-7.67	0.00	-681.54	0.00	681.54	4662.03	1121.95	4285.67	4409.10	2.75	-0.521	0.000	0.162
55.00	-32.98	-7.64	0.00	-668.12	0.00	668.12	4626.54	1110.31	4197.18	4329.70	2.94	-0.542	0.000	0.161
60.00	-31.71	-7.52	0.00	-629.92	0.00	629.92	4523.67	1077.04	3949.44	4105.38	3.54	-0.597	0.000	0.160
65.00	-30.46	-7.40	0.00	-592.32	0.00	592.32	4418.66	1043.78	3709.24	3885.01	4.20	-0.655	0.000	0.159
70.00	-29.25	-7.28	0.00	-555.31	0.00	555.31	4277.83	1010.51	3476.57	3640.10	4.92	-0.714	0.000	0.159
75.00	-28.08	-7.17	0.00	-518.89	0.00	518.89	4137.00	977.25	3251.43	3403.17	5.70	-0.775	0.000	0.159
80.00	-26.93	-7.05	0.00	-483.05	0.00	483.05	3996.18	943.98	3033.84	3174.21	6.54	-0.838	0.000	0.159
85.00	-25.82	-6.94	0.00	-447.77	0.00	447.77	3855.35	910.71	2823.78	2953.23	7.45	-0.903	0.000	0.158
90.00	-24.74	-6.83	0.00	-413.06	0.00	413.06	3714.52	877.45	2621.25	2740.21	8.44	-0.970	0.000	0.157
95.00	-23.69	-6.72	0.00	-378.91	0.00	378.91	3573.69	844.18	2426.26	2535.17	9.49	-1.039	0.000	0.156
100.00	-21.97	-6.60	0.00	-345.29	0.00	345.29	3014.30	712.04	2013.83	2107.62	10.61	-1.109	0.000	0.171
105.00	-21.07	-6.49	0.00	-312.30	0.00	312.30	2893.59	683.53	1855.77	1941.32	11.81	-1.182	0.000	0.168
110.00	-20.21	-6.39	0.00	-279.83	0.00	279.83	2772.88	655.01	1704.17	1781.85	13.10	-1.262	0.000	0.164
115.00	-19.38	-6.29	0.00	-247.86	0.00	247.86	2652.17	626.50	1559.02	1629.21	14.46	-1.343	0.000	0.160
120.00	-18.57	-6.20	0.00	-216.39	0.00	216.39	2531.46	597.98	1420.34	1483.41	15.91	-1.424	0.000	0.153
125.00	-17.79	-6.10	0.00	-185.41	0.00	185.41	2410.75	569.47	1288.11	1344.44	17.45	-1.505	0.000	0.145
130.00	-17.04	-6.01	0.00	-154.90	0.00	154.90	2290.04	540.95	1162.35	1212.31	19.06	-1.584	0.000	0.135
134.00	-14.04	-5.27	0.00	-130.87	0.00	130.87	2193.47	518.14	1066.39	1111.53	20.42	-1.647	0.000	0.124
135.00	-13.89	-5.26	0.00	-125.60	0.00	125.60	2169.33	512.44	1043.04	1087.01	20.77	-1.663	0.000	0.122
140.00	-13.20	-5.17	0.00	-99.30	0.00	99.30	2048.62	483.93	930.19	968.55	22.55	-1.735	0.000	0.109
145.00	-12.54	-5.07	0.00	-73.46	0.00	73.46	1927.91	455.41	823.80	856.92	24.40	-1.800	0.000	0.092
145.25	-12.51	-5.07	0.00	-72.19	0.00	72.19	1921.88	453.99	818.65	851.51	24.49	-1.804	0.000	0.091
146.00	-9.25	-3.83	0.00	-68.39	0.00	68.39	1903.77	449.71	803.30	835.41	24.78	-1.813	0.000	0.087
148.50	-8.86	-3.78	0.00	-58.82	0.00	58.82	907.84	223.60	397.18	399.56	25.74	-1.843	0.000	0.157
150.00	-8.76	-3.76	0.00	-53.16	0.00	53.16	895.57	219.32	382.13	386.55	26.32	-1.861	0.000	0.148
155.00	-8.42	-3.68	0.00	-34.37	0.00	34.37	853.23	205.07	334.07	344.13	28.32	-1.950	0.000	0.110
159.00	-4.47	-2.00	0.00	-19.64	0.00	19.64	817.77	193.66	297.94	311.31	29.98	-2.004	0.000	0.069
160.00	-4.42	-1.99	0.00	-17.64	0.00	17.64	807.76	190.81	289.23	302.92	30.40	-2.015	0.000	0.064
165.00	-4.18	-1.92	0.00	-7.69	0.00	7.69	747.41	176.55	247.62	259.13	32.53	-2.055	0.000	0.035
169.00	0.00	-1.77	0.00	-0.02	0.00	0.02	699.12	165.15	216.66	226.56	34.26	-2.067	0.000	0.000

Structure:	CT11794-S		**Code:**	TIA-222-H	1/11/2024
Site Name:	East Lyme 1		**Exposure:**	C	
Height:	169.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 37

SBA

Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 126 mph Wind	43.5	0.00	60.42	0.00	0.00	5582.17
0.9D + 1.0W 126 mph Wind	43.5	0.00	45.30	0.00	0.00	5498.20
1.2D + 1.0Di + 1.0Wi 50 mph Wind	10.3	0.00	62.25	0.00	0.00	1246.08
1.2D + 1.0Ev + 1.0Eh	0.8	0.00	62.66	0.00	0.00	120.61
0.9D + 1.0Ev + 1.0Eh	0.8	0.00	47.45	0.00	0.00	119.17
1.0D + 1.0W 60 mph Wind	8.8	0.00	50.42	0.00	0.00	1125.07

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 126 mph Wind	-60.42	-43.54	0.00	-5582.1	0.00	-5582.1	5562.36	1454.9	7206.86	6836.50	0.00	0.828
0.9D + 1.0W 126 mph Wind	-45.30	-43.51	0.00	-5498.2	0.00	-5498.2	5562.36	1454.9	7206.86	6836.50	0.00	0.813
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-62.25	-10.26	0.00	-1246.0	0.00	-1246.0	5562.36	1454.9	7206.86	6836.50	0.00	0.194
1.2D + 1.0Ev + 1.0Eh	-11.15	-0.50	0.00	-8.05	0.00	-8.05	907.84	223.60	397.18	399.56	148.50	0.032
0.9D + 1.0Ev + 1.0Eh	-8.45	-0.50	0.00	-8.00	0.00	-8.00	907.84	223.60	397.18	399.56	148.50	0.029
1.0D + 1.0W 60 mph Wind	-50.42	-8.83	0.00	-1125.0	0.00	-1125.0	5562.36	1454.9	7206.86	6836.50	0.00	0.174

Base Plate Summary

Structure:	CT11794-S		**Code:**	TIA-222-H	1/11/2024
Site Name:	East Lyme 1		**Exposure:**	C	
Height:	169.00 (ft)		**Crest Height:**	0.00	
Base Elev:	1.000 (ft)		**Site Class:**	D - Stiff Soil	
Gh:	1.1	**Topography:** 1	**Struct Class:**	II	Page: 38

SBA

Reactions		Base Plate		Anchor Bolts	
Original Design		**Yield (ksi):**	50.00	**Bolt Circle:**	66.75
Moment (kip-ft):	6776.67	**Width (in):**	72.75	**Number Bolts:**	20.00
Axial (kip):	62.81	**Style:**	Round	**Bolt Type:**	2.25" 18J
Shear (kip):	55.54	**Polygon Sides:**	0.00	**Bolt Diameter (in):**	2.25
Analysis (1.2D + 1.0W)		**Clip Length (in):**	0.00	**Yield (ksi):**	75.00
Moment (kip-ft):	5582.17	**Effective Len (in):**	16.23	**Ultimate (ksi):**	100.00
Axial (kip):	60.42	**Moment (kip-in):**	673.32	**Arrangement:**	Radial
Shear (kip):	43.54	**Allow Stress (ksi):**	67.50	**Cluster Dist (in):**	0.00
		Applied Stress (ksi):	33.08	**Start Angle (deg):**	0.00
		Stress Ratio:	0.49	Compression	
				Force (kip):	203.73
				Allowable (kip):	268.39
				Ratio:	0.76
				Tension	
				Force (kip):	197.69
				Allowable (kip):	243.75
				Ratio:	0.81

Monopole Mat Foundation Design

Customer Name:	Verizon	TIA Standard:	TIA-222-H
Site Name:	East Lyme 1	Structure Height (Ft.):	170
Site Number:	CT11794-S	Engineer Name:	S. Berthomieux
Engr. Number:		Engineer Login ID:	

Date: 1/11/2024

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

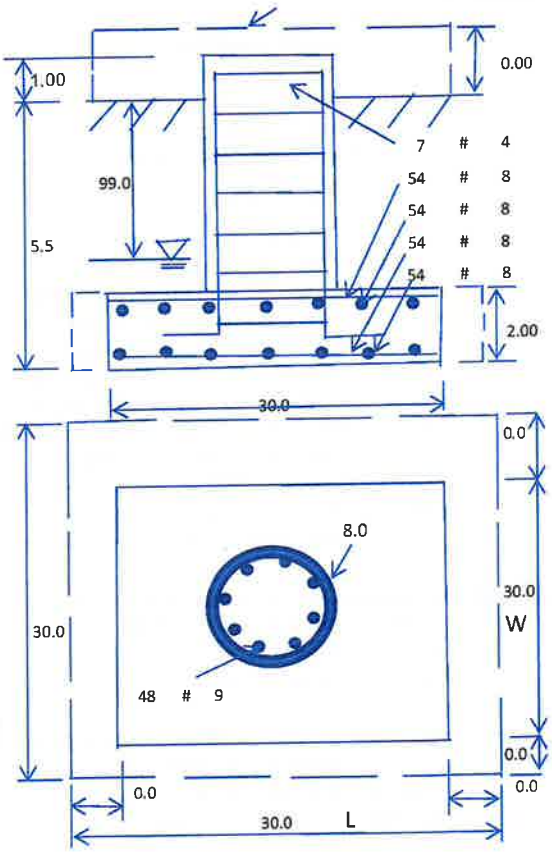
Analysis or Design? Analysis

Base Reactions (Factored):

Axial Load (Kips):	60.4	Shear Force (Kips):	43.5
Uplift Force (Kips):	0.0	Moment (Kips-ft):	5582.2

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	8.0	Depth of Base BG (ft.):	5.5
Pier Height A. G. (ft.):	1.00	Thickness of Pad (ft):	2.00
Length of Pad (ft.):	30	Width of Pad (ft.):	30
Final Length of pad (ft)	30.0	Final width of pad (ft):	30.0



Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	9	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	48	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	8	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	54	Qty. of Rebar in Pad (W):	54	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	54	Qty. of Rebar in Pad (W):	54	

Soil Design Parameters:

Soil Unit Weight (pcf):	124.0	Soil Buoyant Weight:	61.6	Pcf		
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	20000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad:	25
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:			1.00	

Foundation Analysis and Design: Uplift Strength Reduction Factor: 0.75 Compression Strength Reduction Factor: 0.75

Total Dry Soil Volume (cu. Ft.):	2974.07	Total Dry Soil Weight (Kips):	368.78
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	368.78	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	2026.19	Total Dry Concrete Weight (Kips):	303.93
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	303.93	Total Vertical Load on Base (Kips):	733.11

Check Soil Capacities:

					Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressure under the base (psf):	2304	<	Allowable Factored Soil Bearing (psf):	15000	0.15	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	9987.6	>	Design Factored Momont (kips-ft):	5865	0.59	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.70	OK!				

Check the capacities of Reinforceing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75			
Strength reduction factor (Axial compresion):	0.65	Wind Load Factor on Concrete Design:	1.00			
				Load/ Capacity Ratio		
(1) Concrete Pier:						
Vertical Steel Rebar Area (sq. in./each):	1.00	Tie / Stirrup Area (sq. in./each):	0.20			
Calculated Moment Capacity (Mn,Kips-Ft):	9280.8	>	Design Factored Moment (Mu, Kips-Ft	5778.0	0.62	OK!
Calculated Shear Capacity (Kips):	840.3	>	Design Factored Shear (Kips):	43.5	0.05	OK!
Calculated Tension Capacity (Tn, Kips):	2592.0	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	12712.3	>	Design Factored Axial Load (Pu Kips):	60.4	0.00	OK!
Moment & Axial Strength Combination:	0.62	OK!	Check Tie Spacing (Design/Required):		1	OK!
Pier Reinforcement Ratio:	0.007		Reinforcement Ratio is satisfied per ACI			
(2).Concrete Pad:						
One-Way Design Shear Capacity (L-Direction, Kips):	700.1	>	One-Way Factored Shear (L-D. Kips):	327.2	0.47	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	700.1	>	One-Way Factored Shear (W-D., Kips)	327.2	0.47	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	723.7	>	One-Way Factored Shear (C-C, Kips):	329.9	0.46	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0058	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0058		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	3734.7	>	Moment at Bottom (L-Dir. K-Ft):	1946.6	0.52	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	3734.7	>	Moment at Bottom (W-Dir. K-Ft):	1946.6	0.52	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	5215.6	>	Moment at Bottom (C-C Dir. K-Ft):	2752.9	0.53	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0058	OK!	Upper Steel Reinf. Ratio (W-Dir.):	0.0058		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	3734.7	>	Moment at the top (L-Dir K-Ft):	938.8	0.25	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	3734.7	>	Moment at the top (W-Dir K-Ft):	938.8	0.25	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	5215.6	>	Moment at the top (C-C Dir. K-Ft):	879.3	0.17	OK!

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

Moment transferred by punching shear:	2232.9	k-ft.	Max. factored shear stress v_{u_CD}:	4.3	Psi
Max. factored shear stress v_{u_AB}:	18.0	Psi	Factored shear Strength ϕv_n:	189.7	Psi
Max. factored shear stress v_u:	18.0	Psi	Check Usage of Punching Shear Capacity:	0.09	OK!

(4).Check Bending Capacity of the Pad Within the Effective Slab Width:

Overturning moment to be transferred by flexure:	1674.7	k-ft.	Effective Width for resisting OT moment:	14.0	ft.
Calculated number of Rebar in Effective width:	26		Actual number of Rebar in Effective width:	26	
Steel Pad Moment Capacity (L-Direc. Kips-ft):	1795.1	k-ft.	Check Usage of the Flexure Capacity:	0.93	OK!

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Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10210188
Colliers Engineering & Design Project #: 21781129 (Rev. 3)

October 11, 2023

Site Information	*Site ID:*	*5000122067-VZW / ROCKY NECK CT*
	Site Name:	*ROCKY NECK CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*49 Brainerd Road* *Niantic, Connecticut 06357* *New London County*
	Latitude:	*41.307583°*
	Longitude:	*-72.223917°*
Structure Information	*Tower Type:*	*170-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

FUZE ID # 2505529

Analysis Results

Platform: **56.8% Pass w/ Modifications ***

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

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

Report Prepared By: Grant Walters

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*RFDS Site ID: 656767* *Dated August 16, 2023*
Mount Mapping	*Structural Components Site ID: 2505529* *Dated September 10, 2021*
Previous Mount Analysis	*Colliers Engineering & Design* *Project #: 21781129 (Rev 3), Dated October 31, 2022*
Mount Modification Drawings	*Colliers Engineering & Design* *Project #: 21781129 (Rev 3), Dated October 11, 2023*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC),	 Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}: Ice Wind Speed (3-sec. Gust): Design Ice Thickness: Risk Category: Exposure Category: Topographic Category: Topographic Feature Considered: Topographic Method: Ground Elevation Factor, K_e:	130 mph 50 mph 1.00 in II C 1 N/A N/A 1.000
Seismic Parameters:	S_S: S_1:	0.198 g 0.053 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): Maintenance Live Load, Lv: Maintenance Live Load, Lm:	30 mph 250 lbs. 500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
145.00	147.00	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6413-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	
		1	Raycap	RVZDC-6627-PF-48	

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

Model Number	Ports	AKA
DB-B1-6C-24AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	23.1 %	Pass
Platform Crossmember	56.8 %	Pass
Corner Plate	44.9 %	Pass
Grating Support	36.4 %	Pass
Cross Arm Plate	23.3 %	Pass
Face Horizontal	15.5 %	Pass
Mount Pipe	37.2 %	Pass
Mount Pipe 2.5	29.8 %	Pass
Support Rail Angle	31.5 %	Pass
Support Rail	15.6 %	Pass
Kicker	9.0 %	Pass
Mount Connection	30.8 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**56.8%**

BASELINE mount weight per SBA agreement: 1486.88 lbs

Increase in mount weight due to Verizon loading change per SBA agreement: 465.04 lbs

The weights listed above include 3 sector(s).

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	29.8	29.8	49.0	49.0
0.5	39.4	39.4	66.3	66.3
1	47.1	47.1	81.7	81.7

Notes:
- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration (attachment 2) after the modifications detailed in attachment 3 are successfully completed.

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000122067 SMART Project #: 10210188 Fuze Project ID: 2505529

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

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

Base Requirements:

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

Photo Requirements:

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

- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.
  - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

Material Certification:

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

☐ All hardware has been properly installed, and the existing hardware was inspected.

☐ The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.

OR

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

Antenna & Equipment Placement and Geometry Confirmation:

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

OR

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

Comments:

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

☐ Yes ☐ No

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

Issue:

Response:

Special Instruction Confirmation:

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

Comments:

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

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

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

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Comments:

Certifying Individual:

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

Structure: 5000122067-VZW - ROCKY NECK CT

Sector: A

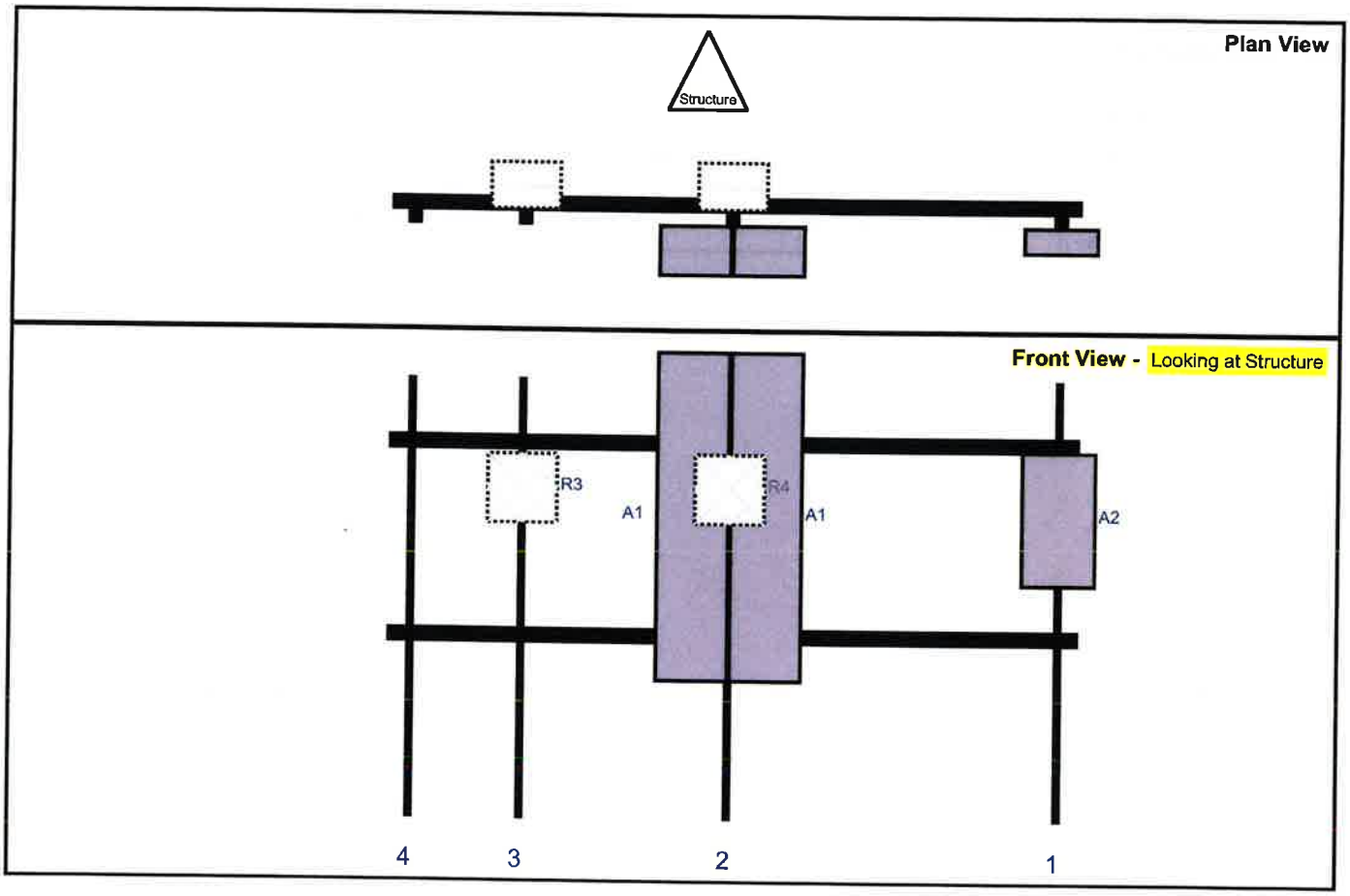
Structure Type: Monopole

Mount Elev: 145.00

10210188

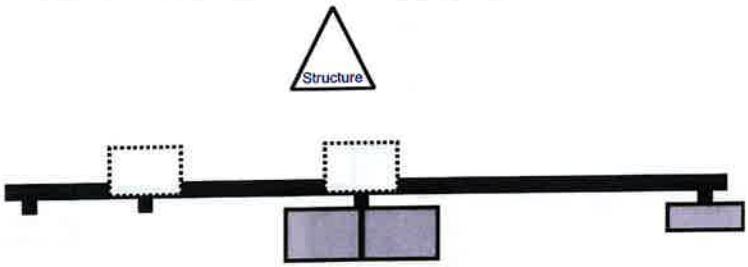
9/27/2023

Colliers Engineering & Design

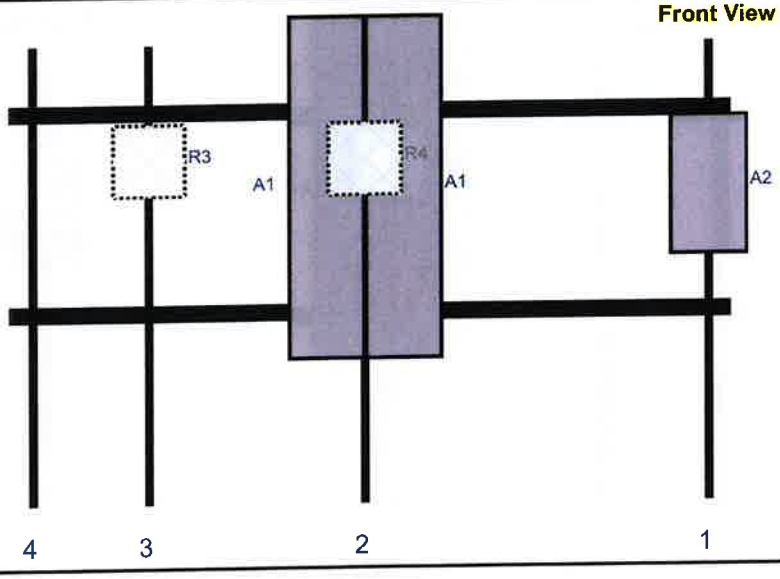


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MT6413-77A	28.9	15.8	145.5	1	a	Front	30	0	Added	
A1	MX06FRO660-03	71.3	15.4	74	2	a	Front	30	8	Added	
A1	MX06FRO660-03	71.3	15.4	74	2	b	Front	30	-8	Added	
R4	RF4461d-13A	15	15	74	2	a	Behind	24	0	Added	
R3	RF4439d-25A	15	15	29	3	a	Behind	24	0	Added	
M101A	RVZDC-6627-PF-48	29.5	16.5		Member					Added	

Plan View



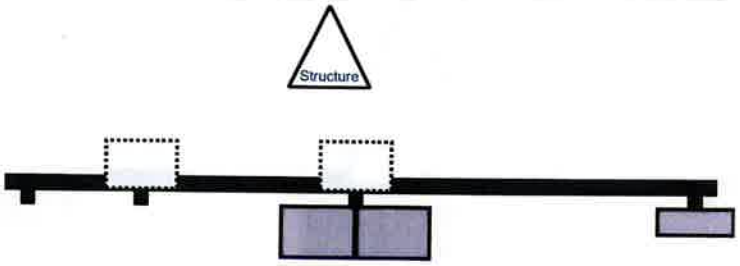
Front View - Looking at Structure



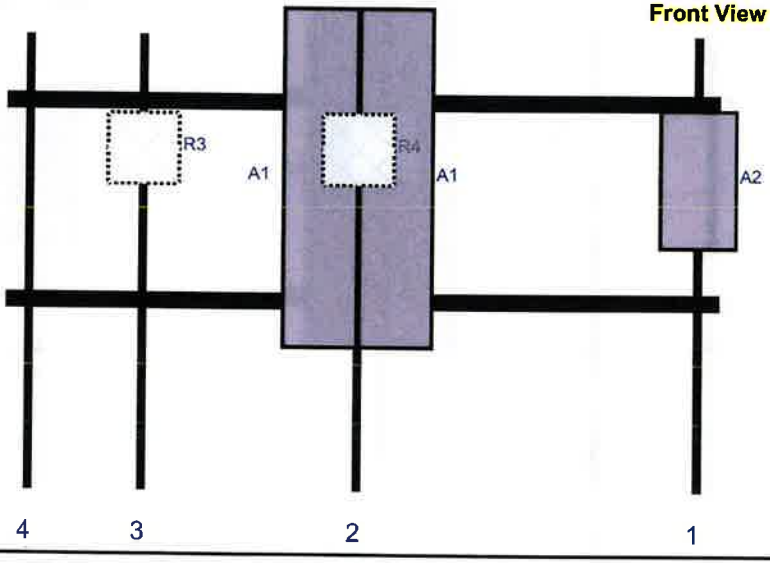
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MT6413-77A	28.9	15.8	145.5	1	a	Front	30	0	Added	
A1	MX06FRO660-03	71.3	15.4	74	2	a	Front	30	8	Added	
A1	MX06FRO660-03	71.3	15.4	74	2	b	Front	30	-8	Added	
R4	RF4461d-13A	15	15	74	2	a	Behind	24	0	Added	
R3	RF4439d-25A	15	15	29	3	a	Behind	24	0	Added	

Colliers Engineering & Design

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	MT6413-77A	28.9	15.8	145.5	1	a	Front	30	0	Added	
A1	MX06FRO660-03	71.3	15.4	74	2	a	Front	30	8	Added	
A1	MX06FRO660-03	71.3	15.4	74	2	b	Front	30	-8	Added	
R4	RF4461d-13A	15	15	74	2	a	Behind	24	0	Added	
R3	RF4439d-25A	15	15	29	3	a	Behind	24	0	Added	

pending S&S

Replace this page with mount modification drawings.


09/10/2021 07:18

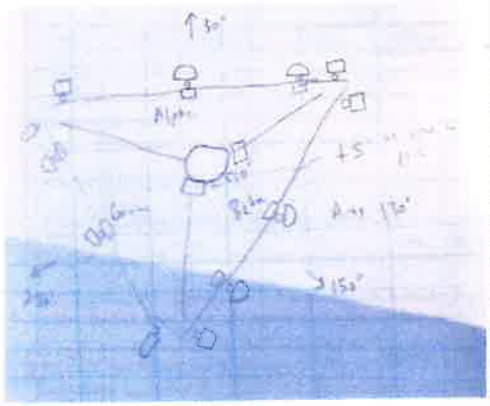

09/10/2021 07:38

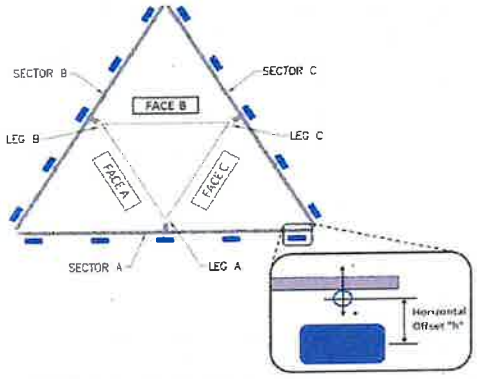
V4.0 Updated on 3-31-2021

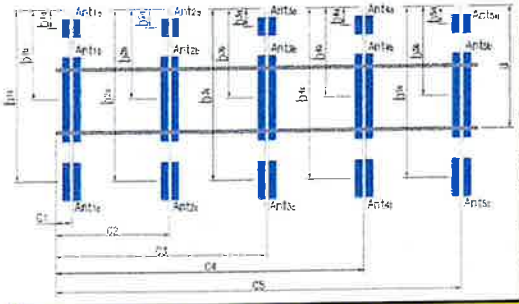
Antenna Mount Mapping Form (PATENT PENDING)

FCC #: 1279239

Tower Owner:	SBA	Mapping Date:	9/10/2021
Site Name:	ROCKY NECK CT	Tower Type:	Monopole
Site Number or ID:	2505529	Tower Height (Ft.):	170
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	144







Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "v"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "v"	Horizontal Offset "C1, C2, C3, etc."
A1	2-3/8" x 0.154" x 96"	48.00	4.50	C1	2-3/8" x 0.154" x 96"	53.00	4.00
A2	2-3/8" x 0.154" x 96"	56.00	76.00	C2	2-3/8" x 0.154" x 96"	56.00	76.00
A3	2-3/8" x 0.154" x 96"	56.00	121.00	C3	2-3/8" x 0.154" x 96"	56.00	120.00
A4	2-3/8" x 0.154" x 96"	48.00	145.00	C4	2-3/8" x 0.154" x 96"	48.00	144.50
A5				C5			
A6				C6			
B1	2-3/8" x 0.154" x 96"	48.00	5.00	D1			
B2	2-3/8" x 0.154" x 96"	56.00	77.50	D2			
B3	2-3/8" x 0.154" x 96"	56.00	122.50	D3			
B4	2-3/8" x 0.154" x 96"	48.00	147.50	D4			
B5				D5			
B6				D6			

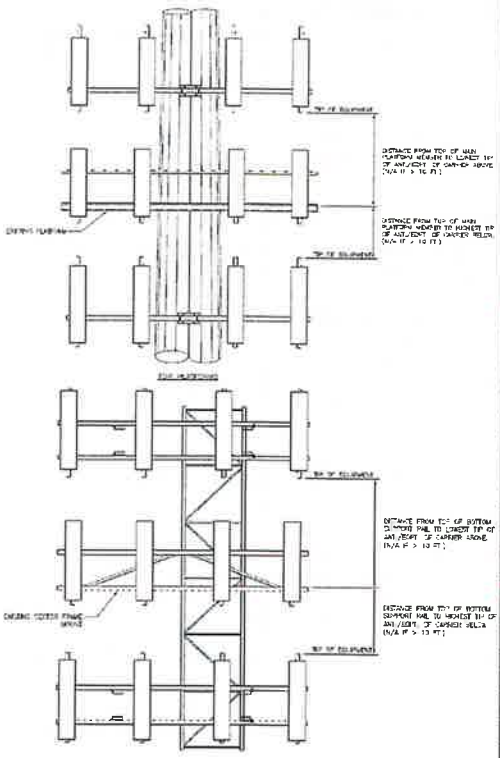
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	100
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	
Please enter additional infomation or comments below.	

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	22.9
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.			0.375

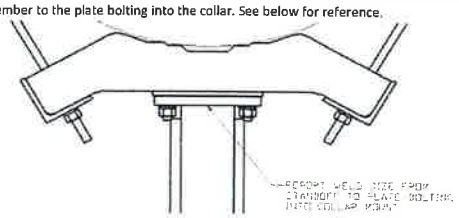
Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances "b_{1a}, b_{2a}, b_{3a}, b_{1b}....." (inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	Swecom SC-E 6014 re	8.00	8.50	43.00	) 1-5/8" T	146.208	21.50	13.50	30.00	33
Ant_{1c}										
Ant_{2a}	B66a RRH4x45	12.00	7.00	25.50	jumpers	146	32.00	-7.00	30.00	34
Ant_{2b}	SBNHH-1D65B	12.00	7.00	72.00	jumpers	145.333	40.00	8.50	30.00	34
Ant_{2c}										
Ant_{3a}	B13 RRH 4x30	12.00	7.00	20.50	jumpers	145.833	34.00	-7.00	30.00	34
Ant_{3b}	SBNHH-1D65B	12.00	7.00	72.00	jumpers	145.583	37.00	8.50	30.00	34
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	Swecom SC-E 6014 re	8.00	8.50	43.00	) 1-5/8" T	146.208	21.50	13.50	30.00	143
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	30.00	Deg	Leg A:		Deg
Sector B:	150.00	Deg	Leg B:		Deg
Sector C:	270.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	0.00	Deg	N/A
Climbing Facility	Corrosion Type:		Good condition.
	Access:		Climbing path was obstructed.
	Condition:		Good condition.



For T-Arms/Platforms on monopoles, record the weld size from the main standoff member to the plate bolting into the collar. See below for reference.



Sector B											
Ant_{1a}											
Ant_{1b}	Swecom SC-E 6014 re	8.00	8.50	43.00	) 1-5/8" T	146.208	21.50	13.50	130.00	35
Ant_{1c}											
Ant_{2a}	B66a RRH4x45	12.00	7.00	25.50	jumpers	145.958	32.50	-7.00	130.00	36
Ant_{2b}	SBNHH-1D65B	12.00	7.00	72.00	jumpers	145.333	40.00	9.50	130.00	36
Ant_{2c}											
Ant_{3a}	B13 RRH 4x30	12.00	7.00	20.50	jumpers	145.833	34.00	-7.00	130.00	36
Ant_{3b}	SBNHH-1D65B	12.00	7.00	72.00	jumpers	145.583	37.00	8.50	130.00	36
Ant_{3c}											
Ant_{4a}											
Ant_{4b}	Swecom SC-E 6014 re	8.00	8.50	43.00	) 1-5/8" T	146.208	21.50	13.50	130.00	36
Ant_{4c}											
Ant_{5a}											
Ant_{5b}											
Ant_{5c}											
Ant on Standoff											
Ant on Standoff											
Ant on Tower	RRFDC-3315-PF-48	14.00	9.00	19.00	1.5" Hyb	149				154
Ant on Tower											
Sector C											
Ant_{1a}											
Ant_{1b}	LPA 80080-4CF E-DIN	6.00	13.00	47.00	) 1-5/8" T	145.458	35.50	16.50	270	37
Ant_{1c}											
Ant_{2a}	B66a RRH4x45	12.00	7.00	25.50	jumpers	145.875	33.50	-7.00	270	38
Ant_{2b}	SBNHH-1D65B	12.00	7.00	72.00	jumpers	145.583	37.00	8.50	270	38
Ant_{2c}											
Ant_{3a}	B13 RRH 4x30	12.00	7.00	20.50	jumpers	146.083	31.00	-7.00	270	38
Ant_{3b}	SBNHH-1D65B	12.00	7.00	72.00	jumpers	145.417	39.00	9.00	270	38
Ant_{3c}											
Ant_{4a}											
Ant_{4b}	LPA 80080-4CF E-DIN	6.00	13.00	47.00	) 1-5/8" T	145.042	35.50	16.50	270	38
Ant_{4c}											
Ant_{5a}											
Ant_{5b}											
Ant_{5c}											
Ant on Standoff											
Ant on Standoff											
Ant on Tower	RRFDC-3315-PF-48	14.00	9.00	19.00	1.5" Hyb	149				156
Ant on Tower											
Sector D											
Ant_{1a}											
Ant_{1b}											
Ant_{1c}											
Ant_{2a}											
Ant_{2b}											
Ant_{2c}											
Ant_{3a}											
Ant_{3b}											
Ant_{3c}											
Ant_{4a}											
Ant_{4b}											
Ant_{4c}											
Ant_{5a}											
Ant_{5b}											
Ant_{5c}											
Ant on Standoff											
Ant on Standoff											
Ant on Tower											
Ant on Tower											

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

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

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

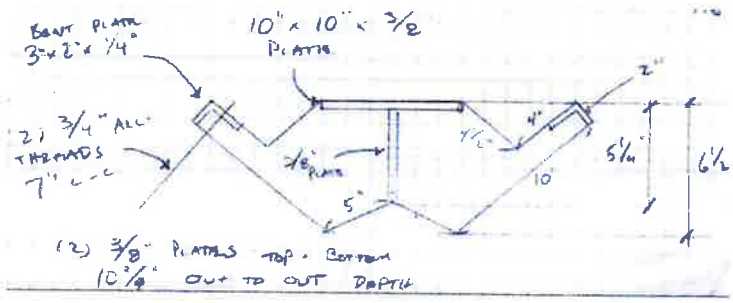
Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

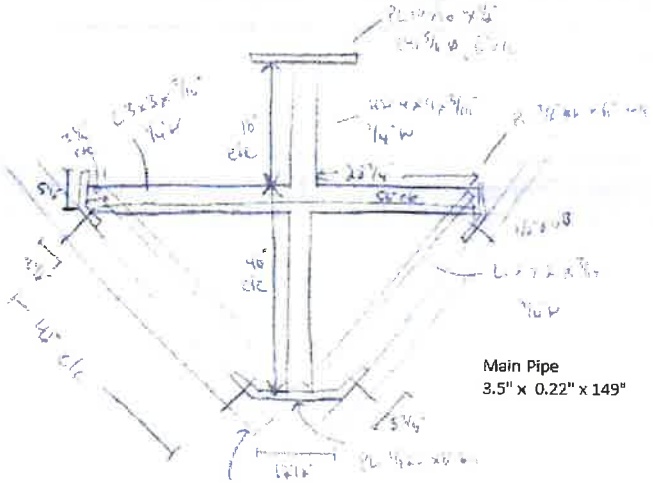
V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

FCC #	1279239		
Tower Owner:	SBA	Mapping Date:	9/10/2021
Site Name:	ROCKY NECK CT	Tower Type:	Monopole
Site Number or ID:	2505529	Tower Height (Ft.):	170
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	144

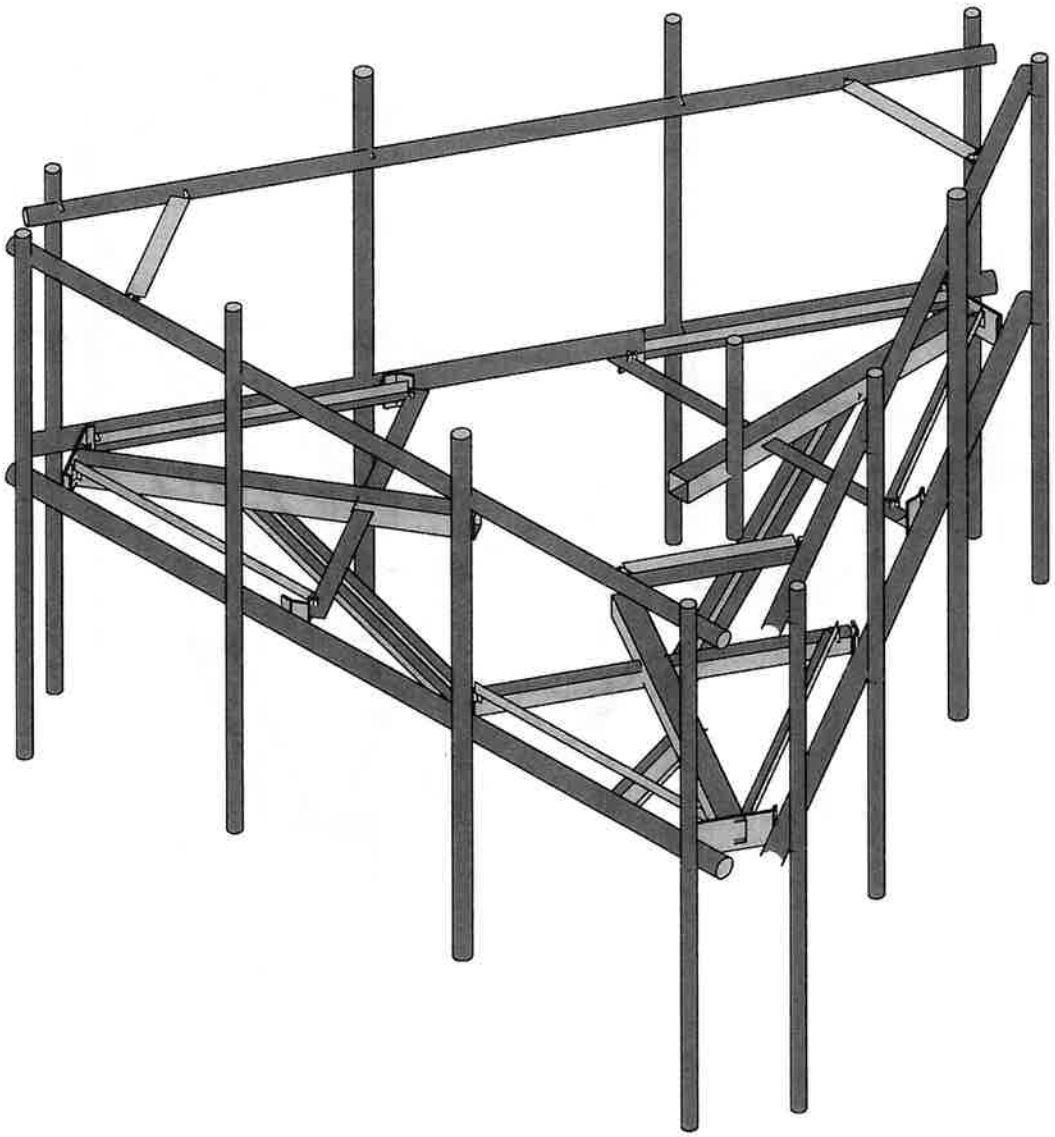
Please Insert Sketches of the Antenna Mount



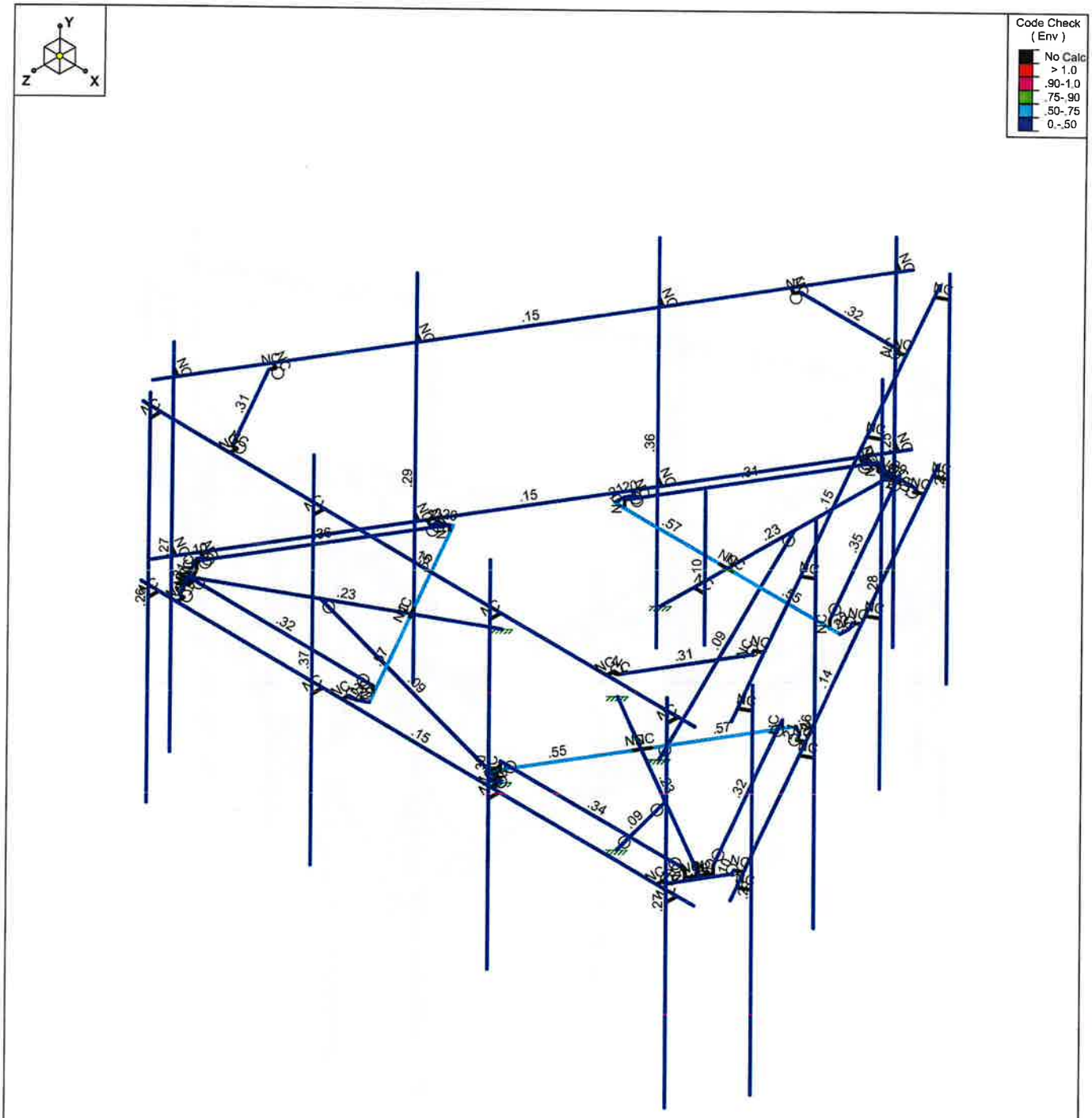


Main Pipe
3.5" x 0.22" x 149"

Pipe mount connections
C6.375" x 2.5" x 0.375 tf x 0.25" tw x 8" Tall
(4) 1/2" u-bolts
6-1/2" C-C / 4-1/2" C-C

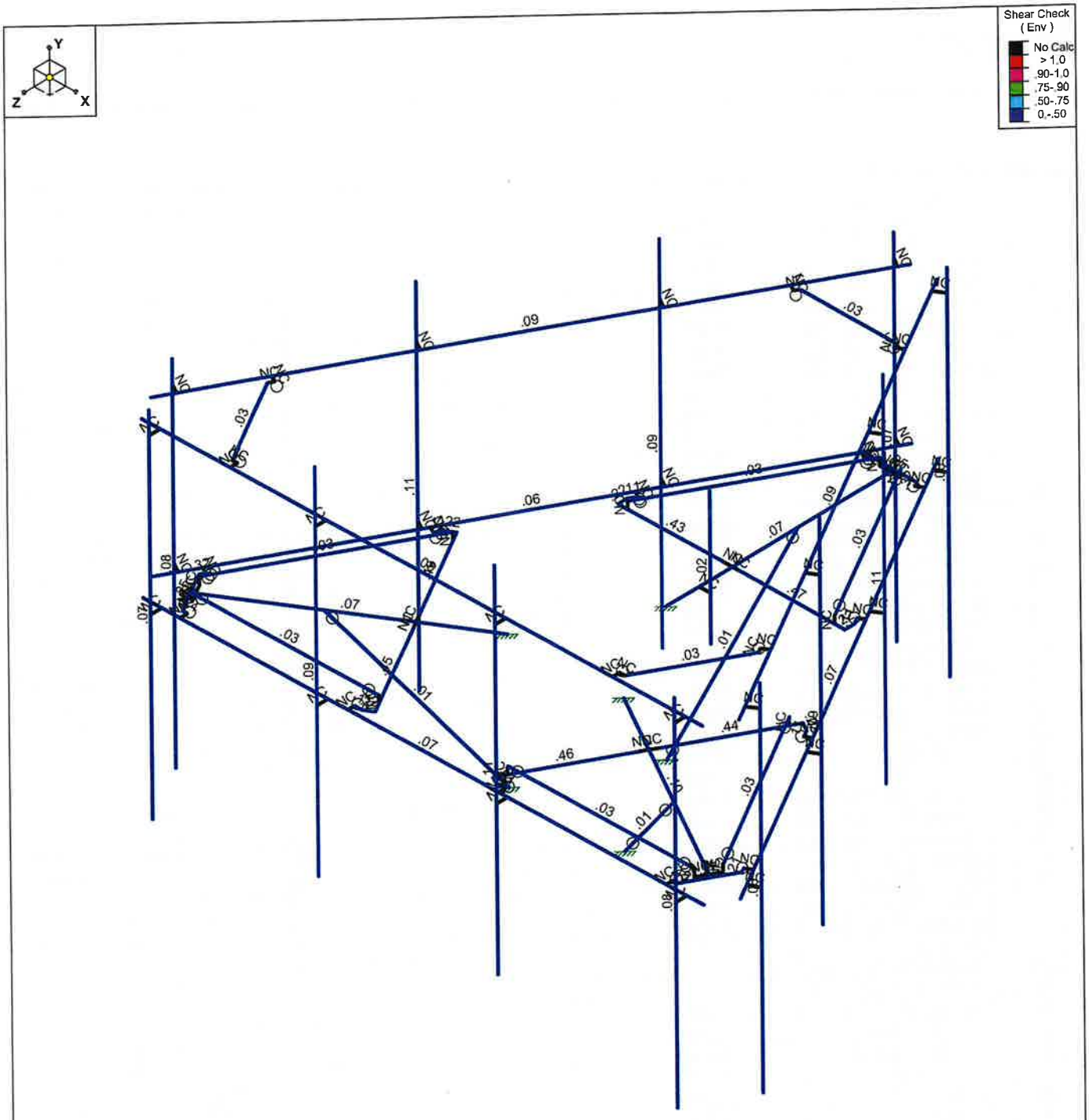


		SK - 1
		Sept 27, 2023 at 2:54 PM
		5000122067-VZW_MT_LO_H.r3d



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

		SK - 2
		Sept 27, 2023 at 2:55 PM
		5000122067-VZW_MT_LO_H.r3d



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

	SK - 3
	Sept 27, 2023 at 2:55 PM
	5000122067-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
1	Antenna D	None					75			
2	Antenna Di	None					75			
3	Antenna Wo (0 Deg)	None					75			
4	Antenna Wo (30 Deg)	None					75			
5	Antenna Wo (60 Deg)	None					75			
6	Antenna Wo (90 Deg)	None					75			
7	Antenna Wo (120 Deg)	None					75			
8	Antenna Wo (150 Deg)	None					75			
9	Antenna Wo (180 Deg)	None					75			
10	Antenna Wo (210 Deg)	None					75			
11	Antenna Wo (240 Deg)	None					75			
12	Antenna Wo (270 Deg)	None					75			
13	Antenna Wo (300 Deg)	None					75			
14	Antenna Wo (330 Deg)	None					75			
15	Antenna Wi (0 Deg)	None					75			
16	Antenna Wi (30 Deg)	None					75			
17	Antenna Wi (60 Deg)	None					75			
18	Antenna Wi (90 Deg)	None					75			
19	Antenna Wi (120 Deg)	None					75			
20	Antenna Wi (150 Deg)	None					75			
21	Antenna Wi (180 Deg)	None					75			
22	Antenna Wi (210 Deg)	None					75			
23	Antenna Wi (240 Deg)	None					75			
24	Antenna Wi (270 Deg)	None					75			
25	Antenna Wi (300 Deg)	None					75			
26	Antenna Wi (330 Deg)	None					75			
27	Antenna Wm (0 Deg)	None					75			
28	Antenna Wm (30 Deg)	None					75			
29	Antenna Wm (60 Deg)	None					75			
30	Antenna Wm (90 Deg)	None					75			
31	Antenna Wm (120 Deg)	None					75			
32	Antenna Wm (150 Deg)	None					75			
33	Antenna Wm (180 Deg)	None					75			
34	Antenna Wm (210 Deg)	None					75			
35	Antenna Wm (240 Deg)	None					75			
36	Antenna Wm (270 Deg)	None					75			
37	Antenna Wm (300 Deg)	None					75			
38	Antenna Wm (330 Deg)	None					75			
39	Structure D	None		-1					3	
40	Structure Di	None						61	3	
41	Structure Wo (0 Deg)	None						122		
42	Structure Wo (30 Deg)	None						122		
43	Structure Wo (60 Deg)	None						122		
44	Structure Wo (90 Deg)	None						122		
45	Structure Wo (120 Deg)	None						122		
46	Structure Wo (150 Deg)	None						122		
47	Structure Wo (180 Deg)	None						122		
48	Structure Wo (210 Deg)	None						122		
49	Structure Wo (240 Deg)	None						122		
50	Structure Wo (270 Deg)	None						122		
51	Structure Wo (300 Deg)	None						122		
52	Structure Wo (330 Deg)	None						122		
53	Structure Wi (0 Deg)	None						122		
54	Structure Wi (30 Deg)	None						122		
55	Structure Wi (60 Deg)	None						122		
56	Structure Wi (90 Deg)	None						122		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
57	Structure Wi (120 Deg)	None						122		
58	Structure Wi (150 Deg)	None						122		
59	Structure Wi (180 Deg)	None						122		
60	Structure Wi (210 Deg)	None						122		
61	Structure Wi (240 Deg)	None						122		
62	Structure Wi (270 Deg)	None						122		
63	Structure Wi (300 Deg)	None						122		
64	Structure Wi (330 Deg)	None						122		
65	Structure Wm (0 Deg)	None						122		
66	Structure Wm (30 Deg)	None						122		
67	Structure Wm (60 Deg)	None						122		
68	Structure Wm (90 Deg)	None						122		
69	Structure Wm (120 Deg)	None						122		
70	Structure Wm (150 Deg)	None						122		
71	Structure Wm (180 Deg)	None						122		
72	Structure Wm (210 Deg)	None						122		
73	Structure Wm (240 Deg)	None						122		
74	Structure Wm (270 Deg)	None						122		
75	Structure Wm (300 Deg)	None						122		
76	Structure Wm (330 Deg)	None						122		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					75			
82	Antenna Eh (0 Deg)	None					50			
83	Antenna Eh (90 Deg)	None					50			
84	Structure Ev	ELY		-.042					3	
85	Structure Eh (0 Deg)	ELZ			-.106				3	
86	Structure Eh (90 Deg)	ELX	.106						3	
87	BLC 39 Transient Area Loads	None						30		
88	BLC 40 Transient Area Loads	None						30		
89	BLC 84 Transient Area Loads	None						30		
90	BLC 85 Transient Area Loads	None						30		
91	BLC 86 Transient Area Loads	None						30		

Load Combinations

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

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
18	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		E...	1	E...					
53	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	E...	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	E...	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	E...		E...	1				
56	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	E...	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.8...	83	.5	E...	-.8...	E...	.5				
58	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		E...	-1	E...					
59	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.8...	83	-.5	E...	-.8...	E...	-.5				
60	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.8...	E...	-.5	E...	-.8...				
61	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	E...		E...	-1				
62	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.8...	E...	.5	E...	-.8...				
63	1.2D + 1.0Ev + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	E...	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		E...	1	E...					
65	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	E...	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	E...	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	E...		E...	1				
68	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	E...	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.8...	83	.5	E...	-.8...	E...	.5				
70	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		E...	-1	E...					
71	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.8...	83	-.5	E...	-.8...	E...	-.5				
72	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.8...	E...	-.5	E...	-.8...				
73	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	E...		E...	-1				
74	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.8...	E...	.5	E...	-.8...				

Load Combinations (Continued)

	Description	Solve	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
75	0.9D - 1.0Ev + 1.0...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	E...	.866	E...	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N144A	-0.	0	-1.5	0	
2	N145	-2.541667	0	-3	0	
3	N146	2.315104	0.166667	-3	0	
4	N147	-2.315104	0.166667	-3	0	
5	N148A	-0.	0	-3	0	
6	N149	-0.	0	-6.6875	0	
7	N150	0	0	0	0	
8	N151	2.315104	0	-3	0	
9	N152	-2.315104	0	-3	0	
10	N153	2.541667	0	-3	0	
11	N154	-0.166667	0	-3	0	
12	N155	0.166667	0	-3	0	
13	N156	-2.541667	0	-3.21875	0	
14	N157	2.541667	0	-3.21875	0	
15	N158	2.458333	0	-3.363088	0	
16	N159	0.571615	0	-6.590523	0	
17	N160	-2.458333	0	-3.363088	0	
18	N161	-0.571615	0	-6.590523	0	
19	N162	2.584629	0	-3.436004	0	
20	N163	-2.584629	0	-3.436004	0	
21	N164	-0.515625	0	-6.6875	0	
22	N165	0.515625	0	-6.6875	0	
23	N166	0.715429	0	-6.673554	0	
24	N167	-0.715429	0	-6.673554	0	
25	N168	-0.	0	-6.604167	0	
26	N169	0.234238	0.166667	-6.604167	0	
27	N170	0.234238	0	-6.604167	0	
28	N171	-0.234238	0.166667	-6.604167	0	
29	N172	-0.234238	0	-6.604167	0	
30	N173	-1.299038	0	0.75	0	
31	N174	-1.327243	0	3.701148	0	
32	N175	-3.755628	0.166667	-0.504939	0	
33	N176	-1.440524	0.166667	3.504939	0	
34	N177	-2.598076	0	1.5	0	
35	N178	-5.791545	0	3.34375	0	
36	N180	-3.755628	0	-0.504939	0	
37	N181	-1.440524	0	3.504939	0	
38	N182	-3.86891	0	-0.701148	0	
39	N183	-2.514743	0	1.644338	0	
40	N184	-2.68141	0	1.355662	0	
41	N185	-1.516686	0	3.810523	0	
42	N186	-4.058353	0	-0.591773	0	
43	N187	-4.141686	0	-0.447435	0	
44	N188	-5.993368	0	2.800229	0	
45	N189	-1.683353	0	3.810523	0	
46	N190	-5.421753	0	3.790294	0	
47	N191	-4.267982	0	-0.520352	0	
48	N192	-1.683353	0	3.956357	0	
49	N193	-5.533732	0	3.790294	0	
50	N194	-6.049357	0	2.897206	0	
51	N195	-6.137182	0	2.717198	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N196	-5.421753	0	3.956357	0	
53	N197	-5.719376	0	3.302083	0	
54	N198	-5.836495	0.166667	3.099228	0	
55	N199	-5.836495	0	3.099228	0	
56	N200	-5.602257	0.166667	3.504939	0	
57	N201	-5.602257	0	3.504939	0	
58	N202	1.299038	0	0.75	0	
59	N203	3.86891	0	-0.701148	0	
60	N204	1.440524	0.166667	3.504939	0	
61	N205	3.755628	0.166667	-0.504939	0	
62	N206	2.598076	0	1.5	0	
63	N207	5.791545	0	3.34375	0	
64	N209	1.440524	0	3.504939	0	
65	N210	3.755628	0	-0.504939	0	
66	N211	1.327243	0	3.701148	0	
67	N212	2.68141	0	1.355662	0	
68	N213	2.514743	0	1.644338	0	
69	N214	4.058353	0	-0.591773	0	
70	N215	1.516686	0	3.810523	0	
71	N216	1.683353	0	3.810523	0	
72	N217	5.421753	0	3.790294	0	
73	N218	4.141686	0	-0.447435	0	
74	N219	5.993368	0	2.800229	0	
75	N220	1.683353	0	3.956357	0	
76	N221	4.267982	0	-0.520352	0	
77	N222	6.049357	0	2.897206	0	
78	N223	5.533732	0	3.790294	0	
79	N224	5.421753	0	3.956357	0	
80	N225	6.137182	0	2.717198	0	
81	N226	5.719376	0	3.302083	0	
82	N227	5.602257	0.166667	3.504939	0	
83	N228	5.602257	0	3.504939	0	
84	N229	5.836495	0.166667	3.099228	0	
85	N230	5.836495	0	3.099228	0	
86	N230A	6.25	0	3.956357	0	
87	N231	-6.25	0	3.956357	0	
88	N231A	5.875	0	3.956357	0	
89	N232	5.875	0	4.206357	0	
90	N233	5.875	4	4.206357	0	
91	N234	5.875	-4	4.206357	0	
92	N235	1.875	0	3.956357	0	
93	N236	1.875	0	4.206357	0	
94	N237	1.875	4.666667	4.206357	0	
95	N238	1.875	-3.333333	4.206357	0	
96	N239	-2.125	0	3.956357	0	
97	N240	-2.125	0	4.206357	0	
98	N241	-2.125	4.666667	4.206357	0	
99	N242	-2.125	-3.333333	4.206357	0	
100	N243	-5.833333	0	3.956357	0	
101	N244	-5.833333	0	4.206357	0	
102	N245	-5.833333	4	4.206357	0	
103	N246	-5.833333	-4	4.206357	0	
104	N247	0.301305	0	-7.390837	0	
105	N248	6.551305	0	3.43448	0	
106	N249	0.467972	0	-7.102162	0	
107	N250	0.684478	0	-7.227162	0	
108	N251	0.684478	4	-7.227162	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N252	0.684478	-4	-7.227162	0	
110	N253	2.467972	0	-3.63806	0	
111	N254	2.684478	0	-3.76306	0	
112	N255	2.684478	4.666667	-3.76306	0	
113	N256	2.684478	-3.333333	-3.76306	0	
114	N257	4.467972	0	-0.173959	0	
115	N258	4.684478	0	-0.298959	0	
116	N259	4.684478	4.666667	-0.298959	0	
117	N260	4.684478	-3.333333	-0.298959	0	
118	N261	6.363805	0	3.109721	0	
119	N262	6.580312	0	2.984721	0	
120	N263	6.580312	4	2.984721	0	
121	N264	6.580312	-4	2.984721	0	
122	N265	-6.551305	0	3.43448	0	
123	N266	-0.301305	0	-7.390837	0	
124	N267	-6.342972	0	3.073637	0	
125	N268	-6.559478	0	2.948637	0	
126	N269	-6.559478	4	2.948637	0	
127	N270	-6.559478	-4	2.948637	0	
128	N271	-4.342972	0	-0.390465	0	
129	N272	-4.559478	0	-0.515465	0	
130	N273	-4.559478	4.666667	-0.515465	0	
131	N274	-4.559478	-3.333333	-0.515465	0	
132	N275	-2.342972	0	-3.854567	0	
133	N276	-2.559478	0	-3.979567	0	
134	N277	-2.559478	4.666667	-3.979567	0	
135	N278	-2.559478	-3.333333	-3.979567	0	
136	N279	-0.405472	0	-7.210415	0	
137	N280	-0.621978	0	-7.335415	0	
138	N281	-0.621978	4	-7.335415	0	
139	N282	-0.621978	-4	-7.335415	0	
140	N140	-0.	0	-2.25	0	
141	N141	.25	0	-2.25	0	
142	N142	.25	-1	-2.25	0	
143	N143	.25	2	-2.25	0	
144	N144	1.154948	3.5	-5.590523	0	
145	N145A	-1.154948	3.5	-5.590523	0	
146	N146A	-1.098958	3.5	-5.6875	0	
147	N147A	1.098958	3.5	-5.6875	0	
148	N148	1.294275	3.5	-5.670964	0	
149	N149A	-1.294275	3.5	-5.670964	0	
150	N162A	6.25	3.5	3.956357	0	
151	N163A	-6.25	3.5	3.956357	0	
152	N164A	5.875	3.5	3.956357	0	
153	N165A	5.875	3.5	4.206357	0	
154	N166A	1.875	3.5	3.956357	0	
155	N167A	1.875	3.5	4.206357	0	
156	N168A	-5.833333	3.5	3.956357	0	
157	N169A	-5.833333	3.5	4.206357	0	
158	N170A	0.301305	3.5	-7.390837	0	
159	N171A	6.551305	3.5	3.43448	0	
160	N172A	0.467972	3.5	-7.102162	0	
161	N173A	0.684478	3.5	-7.227162	0	
162	N174A	2.467972	3.5	-3.63806	0	
163	N175A	2.684478	3.5	-3.76306	0	
164	N176A	4.467972	3.5	-0.173959	0	
165	N177A	4.684478	3.5	-0.298959	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
166	N178A	6.363805	3.5	3.109721	0	
167	N179	6.580312	3.5	2.984721	0	
168	N180A	-6.551305	3.5	3.43448	0	
169	N181A	-0.301305	3.5	-7.390837	0	
170	N182A	-6.342972	3.5	3.073637	0	
171	N183A	-6.559478	3.5	2.948637	0	
172	N184A	-4.342972	3.5	-0.390465	0	
173	N185A	-4.559478	3.5	-0.515465	0	
174	N186A	-2.342972	3.5	-3.854567	0	
175	N187A	-2.559478	3.5	-3.979567	0	
176	N188A	-0.405472	3.5	-7.210415	0	
177	N189A	-0.621978	3.5	-7.335415	0	
178	N190A	-2.125	3.5	3.956357	0	
179	N191A	-2.125	3.5	4.206357	0	
180	N192A	-0.	-3	-1.5	0	
181	N193A	-0.	0	-4.5	0	
182	N194A	-1.299038	-3	.75	0	
183	N195A	-3.897114	0	2.25	0	
184	N196A	1.299038	-3	.75	0	
185	N197A	3.897114	0	2.25	0	
186	N187B	-5.419009	3.5	1.795047	0	
187	N188B	-4.264061	3.5	3.795476	0	
188	N189B	-4.37604	3.5	3.795476	0	
189	N190B	-5.474999	3.5	1.892024	0	
190	N191B	-5.558336	3.5	1.714607	0	
191	N192B	-4.264061	3.5	3.956357	0	
192	N194B	4.264061	3.5	3.795476	0	
193	N195B	5.419009	3.5	1.795047	0	
194	N196B	5.474999	3.5	1.892024	0	
195	N197B	4.37604	3.5	3.795476	0	
196	N198A	4.264061	3.5	3.956357	0	
197	N199A	5.558336	3.5	1.714607	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X3	Beam	SquareTube	A500 Gr.B Rect	Typical	2.58	6.21	6.21	10
3	Corner Plate	PL3/8x6	Beam	BAR	A36 Gr.36	Typical	2.25	.026	6.75	.101
4	Platform Crossmember	L3X3X3	Beam	Single Angle	A36 Gr.36	Typical	1.09	.948	.948	.014
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Beam	BAR	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Mount Pipe 2.5	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
10	Support Rail Angle	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
11	Kicker	LL3x3x3x3	Beam	Double Angl...	A36 Gr.36	Typical	2.18	4.09	1.9	.027

Hot Rolled Steel Properties

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

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M100	N144A	N149			Standoff Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
2	M101	N153	N155		180	Platform Crossme...	Beam	Single Angle	A36 Gr.36	Typical
3	M102	N154	N145		180	Platform Crossme...	Beam	Single Angle	A36 Gr.36	Typical
4	M103	N164	N165			Corner Plate	Beam	BAR	A36 Gr.36	Typical
5	M104	N147	N152			RIGID	None	None	RIGID	Typical
6	M105	N146	N151			RIGID	None	None	RIGID	Typical
7	M106	N169	N146			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
8	M107	N147	N171			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M108	N171	N172			RIGID	None	None	RIGID	Typical
10	M109	N154	N148A			RIGID	None	None	RIGID	Typical
11	M110	N148A	N155			RIGID	None	None	RIGID	Typical
12	M111	N153	N157			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
13	M112	N157	N158			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
14	M113	N158	N162			RIGID	None	None	RIGID	Typical
15	M114	N165	N159			Corner Plate	Beam	BAR	A36 Gr.36	Typical
16	M115	N159	N166			RIGID	None	None	RIGID	Typical
17	M116	N145	N156			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
18	M117	N156	N160			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
19	M118	N160	N163			RIGID	None	None	RIGID	Typical
20	M119	N164	N161			Corner Plate	Beam	BAR	A36 Gr.36	Typical
21	M120	N161	N167			RIGID	None	None	RIGID	Typical
22	M121	N172	N168			RIGID	None	None	RIGID	Typical
23	M122	N168	N170			RIGID	None	None	RIGID	Typical
24	M123	N169	N170			RIGID	None	None	RIGID	Typical
25	M124	N173	N178			Standoff Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
26	M125	N182	N184		180	Platform Crossme...	Beam	Single Angle	A36 Gr.36	Typical
27	M126	N183	N174		180	Platform Crossme...	Beam	Single Angle	A36 Gr.36	Typical
28	M127	N193	N194			Corner Plate	Beam	BAR	A36 Gr.36	Typical
29	M128	N176	N181			RIGID	None	None	RIGID	Typical
30	M129	N175	N180			RIGID	None	None	RIGID	Typical
31	M130	N198	N175			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
32	M131	N176	N200			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M132	N200	N201			RIGID	None	None	RIGID	Typical
34	M133	N183	N177			RIGID	None	None	RIGID	Typical
35	M134	N177	N184			RIGID	None	None	RIGID	Typical
36	M135	N182	N186			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
37	M136	N186	N187			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
38	M137	N187	N191			RIGID	None	None	RIGID	Typical
39	M138	N194	N188			Corner Plate	Beam	BAR	A36 Gr.36	Typical
40	M139	N188	N195			RIGID	None	None	RIGID	Typical
41	M140	N174	N185			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
42	M141	N185	N189			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
43	M142	N189	N192			RIGID	None	None	RIGID	Typical
44	M143	N193	N190			Corner Plate	Beam	BAR	A36 Gr.36	Typical
45	M144	N190	N196			RIGID	None	None	RIGID	Typical
46	M145	N201	N197			RIGID	None	None	RIGID	Typical
47	M146	N197	N199			RIGID	None	None	RIGID	Typical
48	M147	N198	N199			RIGID	None	None	RIGID	Typical
49	M148	N202	N207			Standoff Horizontal	Beam	SquareTube	A500 Gr.B...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
50	M149	N211	N213		180	Platform Crossme...	Beam	Single Angle	A36 Gr.36	Typical
51	M150	N212	N203		180	Platform Crossme...	Beam	Single Angle	A36 Gr.36	Typical
52	M151	N222	N223			Corner Plate	Beam	BAR	A36 Gr.36	Typical
53	M152	N205	N210			RIGID	None	None	RIGID	Typical
54	M153	N204	N209			RIGID	None	None	RIGID	Typical
55	M154	N227	N204			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M155	N205	N229			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
57	M156	N229	N230			RIGID	None	None	RIGID	Typical
58	M157	N212	N206			RIGID	None	None	RIGID	Typical
59	M158	N206	N213			RIGID	None	None	RIGID	Typical
60	M159	N211	N215			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
61	M160	N215	N216			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
62	M161	N216	N220			RIGID	None	None	RIGID	Typical
63	M162	N223	N217			Corner Plate	Beam	BAR	A36 Gr.36	Typical
64	M163	N217	N224			RIGID	None	None	RIGID	Typical
65	M164	N203	N214			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
66	M165	N214	N218			Cross Arm Plate	Beam	BAR	A36 Gr.36	Typical
67	M166	N218	N221			RIGID	None	None	RIGID	Typical
68	M167	N222	N219			Corner Plate	Beam	BAR	A36 Gr.36	Typical
69	M168	N219	N225			RIGID	None	None	RIGID	Typical
70	M169	N230	N226			RIGID	None	None	RIGID	Typical
71	M170	N226	N228			RIGID	None	None	RIGID	Typical
72	M171	N227	N228			RIGID	None	None	RIGID	Typical
73	M172	N231	N230A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
74	M173	N231A	N232			RIGID	None	None	RIGID	Typical
75	MP1A	N233	N234			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
76	M175	N235	N236			RIGID	None	None	RIGID	Typical
77	MP2A	N237	N238			Mount Pipe 2.5	Column	Pipe	A53 Gr.B	Typical
78	M177	N239	N240			RIGID	None	None	RIGID	Typical
79	MP3A	N241	N242			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
80	M179	N243	N244			RIGID	None	None	RIGID	Typical
81	MP4A	N245	N246			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	M181	N248	N247			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
83	M182	N249	N250			RIGID	None	None	RIGID	Typical
84	MP1C	N251	N252			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
85	M184	N253	N254			RIGID	None	None	RIGID	Typical
86	MP2C	N255	N256			Mount Pipe 2.5	Column	Pipe	A53 Gr.B	Typical
87	M186	N257	N258			RIGID	None	None	RIGID	Typical
88	MP3C	N259	N260			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
89	M188	N261	N262			RIGID	None	None	RIGID	Typical
90	MP4C	N263	N264			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	M190	N266	N265			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
92	M191	N267	N268			RIGID	None	None	RIGID	Typical
93	MP1B	N269	N270			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	M193	N271	N272			RIGID	None	None	RIGID	Typical
95	MP2B	N273	N274			Mount Pipe 2.5	Column	Pipe	A53 Gr.B	Typical
96	M195	N275	N276			RIGID	None	None	RIGID	Typical
97	MP3B	N277	N278			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
98	M197	N279	N280			RIGID	None	None	RIGID	Typical
99	MP4B	N281	N282			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100A	N140	N141			RIGID	None	None	RIGID	Typical
101	M101A	N143	N142			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
102	M102A	N146A	N147A		90	Support Rail Angle	Beam	Single Angle	A36 Gr.36	Typical
103	M103A	N147A	N144			RIGID	None	None	RIGID	Typical
104	M104A	N144	N148			RIGID	None	None	RIGID	Typical
105	M105A	N146A	N145A			RIGID	None	None	RIGID	Typical
106	M106A	N145A	N149A			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
107	M116A	N163A	N162A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
108	M117A	N164A	N165A			RIGID	None	None	RIGID	Typical
109	M118A	N166A	N167A			RIGID	None	None	RIGID	Typical
110	M119A	N168A	N169A			RIGID	None	None	RIGID	Typical
111	M120A	N171A	N170A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
112	M121A	N172A	N173A			RIGID	None	None	RIGID	Typical
113	M122A	N174A	N175A			RIGID	None	None	RIGID	Typical
114	M123A	N176A	N177A			RIGID	None	None	RIGID	Typical
115	M124A	N178A	N179			RIGID	None	None	RIGID	Typical
116	M125A	N181A	N180A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
117	M126A	N182A	N183A			RIGID	None	None	RIGID	Typical
118	M127A	N184A	N185A			RIGID	None	None	RIGID	Typical
119	M128A	N186A	N187A			RIGID	None	None	RIGID	Typical
120	M129A	N188A	N189A			RIGID	None	None	RIGID	Typical
121	M131A	N190A	N191A			RIGID	None	None	RIGID	Typical
122	M132A	N192A	N193A			Kicker	Beam	Double Angle ...	A36 Gr.36	Typical
123	M133A	N194A	N195A			Kicker	Beam	Double Angle ...	A36 Gr.36	Typical
124	M134A	N196A	N197A			Kicker	Beam	Double Angle ...	A36 Gr.36	Typical
125	M125B	N189B	N190B		90	Support Rail Angle	Beam	Single Angle	A36 Gr.36	Typical
126	M126B	N190B	N187B			RIGID	None	None	RIGID	Typical
127	M127B	N187B	N191B			RIGID	None	None	RIGID	Typical
128	M128B	N189B	N188B			RIGID	None	None	RIGID	Typical
129	M129B	N188B	N192B			RIGID	None	None	RIGID	Typical
130	M130A	N196B	N197B		90	Support Rail Angle	Beam	Single Angle	A36 Gr.36	Typical
131	M131B	N197B	N194B			RIGID	None	None	RIGID	Typical
132	M132B	N194B	N198A			RIGID	None	None	RIGID	Typical
133	M133B	N196B	N195B			RIGID	None	None	RIGID	Typical
134	M134B	N195B	N199A			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rati...	A...	Inactive	Seismic ...
1	M100						Yes				None
2	M101						Yes	Default			None
3	M102						Yes	Default			None
4	M103						Yes	Default			None
5	M104						Yes	** NA **			None
6	M105						Yes	** NA **			None
7	M106	OOOOOX	OOOOOX				Yes	Default			None
8	M107	OOOOOX	OOOOOX				Yes	Default			None
9	M108						Yes	** NA **			None
10	M109						Yes	** NA **			None
11	M110						Yes	** NA **			None
12	M111						Yes				None
13	M112						Yes				None
14	M113		BenPIN				Yes	** NA **			None
15	M114						Yes				None
16	M115		BenPIN				Yes	** NA **			None
17	M116						Yes				None
18	M117						Yes				None
19	M118		BenPIN				Yes	** NA **			None
20	M119						Yes				None
21	M120		BenPIN				Yes	** NA **			None
22	M121						Yes	** NA **			None
23	M122						Yes	** NA **			None
24	M123						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rati...	A...	Inactive	Seismic ...
25	M124						Yes				None
26	M125						Yes	Default			None
27	M126						Yes	Default			None
28	M127						Yes	Default			None
29	M128						Yes	** NA **			None
30	M129						Yes	** NA **			None
31	M130	OOOOOX	OOOOOX				Yes	Default			None
32	M131	OOOOOX	OOOOOX				Yes	Default			None
33	M132						Yes	** NA **			None
34	M133						Yes	** NA **			None
35	M134						Yes	** NA **			None
36	M135						Yes				None
37	M136						Yes				None
38	M137		BenPIN				Yes	** NA **			None
39	M138						Yes				None
40	M139		BenPIN				Yes	** NA **			None
41	M140						Yes				None
42	M141						Yes				None
43	M142		BenPIN				Yes	** NA **			None
44	M143						Yes				None
45	M144		BenPIN				Yes	** NA **			None
46	M145						Yes	** NA **			None
47	M146						Yes	** NA **			None
48	M147						Yes	** NA **			None
49	M148						Yes				None
50	M149						Yes	Default			None
51	M150						Yes	Default			None
52	M151						Yes	Default			None
53	M152						Yes	** NA **			None
54	M153						Yes	** NA **			None
55	M154	OOOOOX	OOOOOX				Yes	Default			None
56	M155	OOOOOX	OOOOOX				Yes	Default			None
57	M156						Yes	** NA **			None
58	M157						Yes	** NA **			None
59	M158						Yes	** NA **			None
60	M159						Yes				None
61	M160						Yes				None
62	M161		BenPIN				Yes	** NA **			None
63	M162						Yes				None
64	M163		BenPIN				Yes	** NA **			None
65	M164						Yes				None
66	M165						Yes				None
67	M166		BenPIN				Yes	** NA **			None
68	M167						Yes				None
69	M168		BenPIN				Yes	** NA **			None
70	M169						Yes	** NA **			None
71	M170						Yes	** NA **			None
72	M171						Yes	** NA **			None
73	M172						Yes				None
74	M173						Yes	** NA **			None
75	MP1A						Yes	** NA **			None
76	M175						Yes	** NA **			None
77	MP2A						Yes	** NA **			None
78	M177						Yes	** NA **			None
79	MP3A						Yes	** NA **			None
80	M179						Yes	** NA **			None
81	MP4A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rati...A...		Inactive	Seismic ...
82	M181						Yes				None
83	M182						Yes	** NA **			None
84	MP1C						Yes	** NA **			None
85	M184						Yes	** NA **			None
86	MP2C						Yes	** NA **			None
87	M186						Yes	** NA **			None
88	MP3C						Yes	** NA **			None
89	M188						Yes	** NA **			None
90	MP4C						Yes	** NA **			None
91	M190						Yes				None
92	M191						Yes	** NA **			None
93	MP1B						Yes	** NA **			None
94	M193						Yes	** NA **			None
95	MP2B						Yes	** NA **			None
96	M195						Yes	** NA **			None
97	MP3B						Yes	** NA **			None
98	M197						Yes	** NA **			None
99	MP4B						Yes	** NA **			None
100	M100A						Yes	** NA **			None
101	M101A						Yes	Default			None
102	M102A						Yes	** NA **			None
103	M103A						Yes	** NA **			None
104	M104A		OOOOOO				Yes	** NA **			None
105	M105A						Yes	** NA **			None
106	M106A		OOOOOO				Yes				None
107	M116A						Yes	** NA **			None
108	M117A						Yes	** NA **			None
109	M118A						Yes	** NA **			None
110	M119A						Yes				None
111	M120A						Yes	** NA **			None
112	M121A						Yes	** NA **			None
113	M122A						Yes	** NA **			None
114	M123A						Yes	** NA **			None
115	M124A						Yes				None
116	M125A						Yes	** NA **			None
117	M126A						Yes	** NA **			None
118	M127A						Yes	** NA **			None
119	M128A						Yes	** NA **			None
120	M129A						Yes	** NA **			None
121	M131A						Yes				None
122	M132A	BenPIN	BenPIN				Yes				None
123	M133A	BenPIN	BenPIN				Yes				None
124	M134A	BenPIN	BenPIN				Yes	Default			None
125	M125B						Yes	** NA **			None
126	M126B						Yes	** NA **			None
127	M127B		OOOOOO				Yes	** NA **			None
128	M128B						Yes	** NA **			None
129	M129B		OOOOOO				Yes	Default			None
130	M130A						Yes	** NA **			None
131	M131B						Yes	** NA **			None
132	M132B		OOOOOO				Yes	** NA **			None
133	M133B						Yes	** NA **			None
134	M134B		OOOOOO				Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-39	1
2	MP2A	My	-.024	1
3	MP2A	Mz	.022	1
4	MP2A	Y	-39	4
5	MP2A	My	-.024	4
6	MP2A	Mz	.022	4
7	MP2B	Y	-39	1
8	MP2B	My	-.02	1
9	MP2B	Mz	-.026	1
10	MP2B	Y	-39	4
11	MP2B	My	-.02	4
12	MP2B	Mz	-.026	4
13	MP2C	Y	-39	1
14	MP2C	My	.031	1
15	MP2C	Mz	.009	1
16	MP2C	Y	-39	4
17	MP2C	My	.031	4
18	MP2C	Mz	.009	4
19	MP2A	Y	-39	1
20	MP2A	My	-.015	1
21	MP2A	Mz	-.029	1
22	MP2A	Y	-39	4
23	MP2A	My	-.015	4
24	MP2A	Mz	-.029	4
25	MP2B	Y	-39	1
26	MP2B	My	.03	1
27	MP2B	Mz	-.012	1
28	MP2B	Y	-39	4
29	MP2B	My	.03	4
30	MP2B	Mz	-.012	4
31	MP2C	Y	-39	1
32	MP2C	My	-.018	1
33	MP2C	Mz	.027	1
34	MP2C	Y	-39	4
35	MP2C	My	-.018	4
36	MP2C	Mz	.027	4
37	MP1A	Y	-28.65	1.5
38	MP1A	My	-.014	1.5
39	MP1A	Mz	-.002	1.5
40	MP1A	Y	-28.65	3.5
41	MP1A	My	-.014	3.5
42	MP1A	Mz	-.002	3.5
43	MP1B	Y	-28.65	1.5
44	MP1B	My	.004	1.5
45	MP1B	Mz	-.014	1.5
46	MP1B	Y	-28.65	3.5
47	MP1B	My	.004	3.5
48	MP1B	Mz	-.014	3.5
49	MP1C	Y	-28.65	1.5
50	MP1C	My	.005	1.5
51	MP1C	Mz	.013	1.5
52	MP1C	Y	-28.65	3.5
53	MP1C	My	.005	3.5
54	MP1C	Mz	.013	3.5
55	MP3A	Y	-74.7	2
56	MP3A	My	.037	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
57	MP3A	Mz	.006	2
58	MP3B	Y	-74.7	2
59	MP3B	My	-.01	2
60	MP3B	Mz	.036	2
61	MP3C	Y	-74.7	2
62	MP3C	My	-.013	2
63	MP3C	Mz	-.035	2
64	MP2A	Y	-79.1	2
65	MP2A	My	.039	2
66	MP2A	Mz	.007	2
67	MP2B	Y	-79.1	2
68	MP2B	My	-.01	2
69	MP2B	Mz	.038	2
70	MP2C	Y	-79.1	2
71	MP2C	My	-.014	2
72	MP2C	Mz	-.037	2
73	M101A	Y	-32	1
74	M101A	My	0	1
75	M101A	Mz	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-82.894	1
2	MP2A	My	-.05	1
3	MP2A	Mz	.047	1
4	MP2A	Y	-82.894	4
5	MP2A	My	-.05	4
6	MP2A	Mz	.047	4
7	MP2B	Y	-82.894	1
8	MP2B	My	-.043	1
9	MP2B	Mz	-.054	1
10	MP2B	Y	-82.894	4
11	MP2B	My	-.043	4
12	MP2B	Mz	-.054	4
13	MP2C	Y	-82.894	1
14	MP2C	My	.066	1
15	MP2C	Mz	.02	1
16	MP2C	Y	-82.894	4
17	MP2C	My	.066	4
18	MP2C	Mz	.02	4
19	MP2A	Y	-82.894	1
20	MP2A	My	-.031	1
21	MP2A	Mz	-.062	1
22	MP2A	Y	-82.894	4
23	MP2A	My	-.031	4
24	MP2A	Mz	-.062	4
25	MP2B	Y	-82.894	1
26	MP2B	My	.064	1
27	MP2B	Mz	-.026	1
28	MP2B	Y	-82.894	4
29	MP2B	My	.064	4
30	MP2B	Mz	-.026	4
31	MP2C	Y	-82.894	1
32	MP2C	My	-.038	1
33	MP2C	Mz	.058	1
34	MP2C	Y	-82.894	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	My	-.038	4
36	MP2C	Mz	.058	4
37	MP1A	Y	-29.939	1.5
38	MP1A	My	-.015	1.5
39	MP1A	Mz	-.003	1.5
40	MP1A	Y	-29.939	3.5
41	MP1A	My	-.015	3.5
42	MP1A	Mz	-.003	3.5
43	MP1B	Y	-29.939	1.5
44	MP1B	My	.004	1.5
45	MP1B	Mz	-.014	1.5
46	MP1B	Y	-29.939	3.5
47	MP1B	My	.004	3.5
48	MP1B	Mz	-.014	3.5
49	MP1C	Y	-29.939	1.5
50	MP1C	My	.005	1.5
51	MP1C	Mz	.014	1.5
52	MP1C	Y	-29.939	3.5
53	MP1C	My	.005	3.5
54	MP1C	Mz	.014	3.5
55	MP3A	Y	-45.144	2
56	MP3A	My	.022	2
57	MP3A	Mz	.004	2
58	MP3B	Y	-45.144	2
59	MP3B	My	-.006	2
60	MP3B	Mz	.022	2
61	MP3C	Y	-45.144	2
62	MP3C	My	-.008	2
63	MP3C	Mz	-.021	2
64	MP2A	Y	-45.622	2
65	MP2A	My	.022	2
66	MP2A	Mz	.004	2
67	MP2B	Y	-45.622	2
68	MP2B	My	-.006	2
69	MP2B	Mz	.022	2
70	MP2C	Y	-45.622	2
71	MP2C	My	-.008	2
72	MP2C	Mz	-.021	2
73	M101A	Y	-88.375	1
74	M101A	My	0	1
75	M101A	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-118.763	1
3	MP2A	Mx	-.068	1
4	MP2A	X	0	4
5	MP2A	Z	-118.763	4
6	MP2A	Mx	-.068	4
7	MP2B	X	0	1
8	MP2B	Z	-91.58	1
9	MP2B	Mx	.06	1
10	MP2B	X	0	4
11	MP2B	Z	-91.58	4
12	MP2B	Mx	.06	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2C	X	0	1
14	MP2C	Z	-93.085	1
15	MP2C	Mx	-.023	1
16	MP2C	X	0	4
17	MP2C	Z	-93.085	4
18	MP2C	Mx	-.023	4
19	MP2A	X	0	1
20	MP2A	Z	-118.763	1
21	MP2A	Mx	.088	1
22	MP2A	X	0	4
23	MP2A	Z	-118.763	4
24	MP2A	Mx	.088	4
25	MP2B	X	0	1
26	MP2B	Z	-91.58	1
27	MP2B	Mx	.028	1
28	MP2B	X	0	4
29	MP2B	Z	-91.58	4
30	MP2B	Mx	.028	4
31	MP2C	X	0	1
32	MP2C	Z	-93.085	1
33	MP2C	Mx	-.065	1
34	MP2C	X	0	4
35	MP2C	Z	-93.085	4
36	MP2C	Mx	-.065	4
37	MP1A	X	0	1.5
38	MP1A	Z	-94.11	1.5
39	MP1A	Mx	.008	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-94.11	3.5
42	MP1A	Mx	.008	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-40.881	1.5
45	MP1B	Mx	.02	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-40.881	3.5
48	MP1B	Mx	.02	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-43.828	1.5
51	MP1C	Mx	-.021	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-43.828	3.5
54	MP1C	Mx	-.021	3.5
55	MP3A	X	0	2
56	MP3A	Z	-77.653	2
57	MP3A	Mx	-.007	2
58	MP3B	X	0	2
59	MP3B	Z	-54.353	2
60	MP3B	Mx	-.026	2
61	MP3C	X	0	2
62	MP3C	Z	-55.643	2
63	MP3C	Mx	.026	2
64	MP2A	X	0	2
65	MP2A	Z	-93.715	2
66	MP2A	Mx	-.008	2
67	MP2B	X	0	2
68	MP2B	Z	-66.533	2
69	MP2B	Mx	-.032	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP2C	X	0	2
71	MP2C	Z	-68.038	2
72	MP2C	Mx	.032	2
73	M101A	X	0	1
74	M101A	Z	-150.79	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	58.074	1
2	MP2A	Z	-100.588	1
3	MP2A	Mx	-.093	1
4	MP2A	X	58.074	4
5	MP2A	Z	-100.588	4
6	MP2A	Mx	-.093	4
7	MP2B	X	45.79	1
8	MP2B	Z	-79.31	1
9	MP2B	Mx	.028	1
10	MP2B	X	45.79	4
11	MP2B	Z	-79.31	4
12	MP2B	Mx	.028	4
13	MP2C	X	53.615	1
14	MP2C	Z	-92.865	1
15	MP2C	Mx	.02	1
16	MP2C	X	53.615	4
17	MP2C	Z	-92.865	4
18	MP2C	Mx	.02	4
19	MP2A	X	58.074	1
20	MP2A	Z	-100.588	1
21	MP2A	Mx	.053	1
22	MP2A	X	58.074	4
23	MP2A	Z	-100.588	4
24	MP2A	Mx	.053	4
25	MP2B	X	45.79	1
26	MP2B	Z	-79.31	1
27	MP2B	Mx	.06	1
28	MP2B	X	45.79	4
29	MP2B	Z	-79.31	4
30	MP2B	Mx	.06	4
31	MP2C	X	53.615	1
32	MP2C	Z	-92.865	1
33	MP2C	Mx	-.089	1
34	MP2C	X	53.615	4
35	MP2C	Z	-92.865	4
36	MP2C	Mx	-.089	4
37	MP1A	X	44.496	1.5
38	MP1A	Z	-77.069	1.5
39	MP1A	Mx	-.015	1.5
40	MP1A	X	44.496	3.5
41	MP1A	Z	-77.069	3.5
42	MP1A	Mx	-.015	3.5
43	MP1B	X	20.44	1.5
44	MP1B	Z	-35.404	1.5
45	MP1B	Mx	.02	1.5
46	MP1B	X	20.44	3.5
47	MP1B	Z	-35.404	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP1B	Mx	.02	3.5
49	MP1C	X	35.764	1.5
50	MP1C	Z	-61.946	1.5
51	MP1C	Mx	-.023	1.5
52	MP1C	X	35.764	3.5
53	MP1C	Z	-61.946	3.5
54	MP1C	Mx	-.023	3.5
55	MP3A	X	37.706	2
56	MP3A	Z	-65.309	2
57	MP3A	Mx	.013	2
58	MP3B	X	27.177	2
59	MP3B	Z	-47.071	2
60	MP3B	Mx	-.026	2
61	MP3C	X	33.884	2
62	MP3C	Z	-58.689	2
63	MP3C	Mx	.022	2
64	MP2A	X	45.551	2
65	MP2A	Z	-78.896	2
66	MP2A	Mx	.016	2
67	MP2B	X	33.266	2
68	MP2B	Z	-57.619	2
69	MP2B	Mx	-.032	2
70	MP2C	X	41.092	2
71	MP2C	Z	-71.173	2
72	MP2C	Mx	.026	2
73	M101A	X	65.781	1
74	M101A	Z	-113.936	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	88.337	1
2	MP2A	Z	-51.001	1
3	MP2A	Mx	-.083	1
4	MP2A	X	88.337	4
5	MP2A	Z	-51.001	4
6	MP2A	Mx	-.083	4
7	MP2B	X	90.601	1
8	MP2B	Z	-52.308	1
9	MP2B	Mx	-.012	1
10	MP2B	X	90.601	4
11	MP2B	Z	-52.308	4
12	MP2B	Mx	-.012	4
13	MP2C	X	102.851	1
14	MP2C	Z	-59.381	1
15	MP2C	Mx	.068	1
16	MP2C	X	102.851	4
17	MP2C	Z	-59.381	4
18	MP2C	Mx	.068	4
19	MP2A	X	88.337	1
20	MP2A	Z	-51.001	1
21	MP2A	Mx	.005	1
22	MP2A	X	88.337	4
23	MP2A	Z	-51.001	4
24	MP2A	Mx	.005	4
25	MP2B	X	90.601	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2B	Z	-52.308	1
27	MP2B	Mx	.086	1
28	MP2B	X	90.601	4
29	MP2B	Z	-52.308	4
30	MP2B	Mx	.086	4
31	MP2C	X	102.851	1
32	MP2C	Z	-59.381	1
33	MP2C	Mx	-.088	1
34	MP2C	X	102.851	4
35	MP2C	Z	-59.381	4
36	MP2C	Mx	-.088	4
37	MP1A	X	53.079	1.5
38	MP1A	Z	-30.645	1.5
39	MP1A	Mx	-.023	1.5
40	MP1A	X	53.079	3.5
41	MP1A	Z	-30.645	3.5
42	MP1A	Mx	-.023	3.5
43	MP1B	X	57.512	1.5
44	MP1B	Z	-33.205	1.5
45	MP1B	Mx	.023	1.5
46	MP1B	X	57.512	3.5
47	MP1B	Z	-33.205	3.5
48	MP1B	Mx	.023	3.5
49	MP1C	X	81.502	1.5
50	MP1C	Z	-47.055	1.5
51	MP1C	Mx	-.008	1.5
52	MP1C	X	81.502	3.5
53	MP1C	Z	-47.055	3.5
54	MP1C	Mx	-.008	3.5
55	MP3A	X	54.808	2
56	MP3A	Z	-31.644	2
57	MP3A	Mx	.024	2
58	MP3B	X	56.749	2
59	MP3B	Z	-32.764	2
60	MP3B	Mx	-.023	2
61	MP3C	X	67.249	2
62	MP3C	Z	-38.826	2
63	MP3C	Mx	.007	2
64	MP2A	X	66.645	2
65	MP2A	Z	-38.478	2
66	MP2A	Mx	.029	2
67	MP2B	X	68.909	2
68	MP2B	Z	-39.785	2
69	MP2B	Mx	-.028	2
70	MP2C	X	81.16	2
71	MP2C	Z	-46.858	2
72	MP2C	Mx	.008	2
73	M101A	X	105.61	1
74	M101A	Z	-60.974	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	90.471	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.055	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	90.471	4
5	MP2A	Z	0	4
6	MP2A	Mx	-.055	4
7	MP2B	X	117.654	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.061	1
10	MP2B	X	117.654	4
11	MP2B	Z	0	4
12	MP2B	Mx	-.061	4
13	MP2C	X	116.149	1
14	MP2C	Z	0	1
15	MP2C	Mx	.093	1
16	MP2C	X	116.149	4
17	MP2C	Z	0	4
18	MP2C	Mx	.093	4
19	MP2A	X	90.471	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.034	1
22	MP2A	X	90.471	4
23	MP2A	Z	0	4
24	MP2A	Mx	-.034	4
25	MP2B	X	117.654	1
26	MP2B	Z	0	1
27	MP2B	Mx	.091	1
28	MP2B	X	117.654	4
29	MP2B	Z	0	4
30	MP2B	Mx	.091	4
31	MP2C	X	116.149	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.053	1
34	MP2C	X	116.149	4
35	MP2C	Z	0	4
36	MP2C	Mx	-.053	4
37	MP1A	X	38.709	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	-.019	1.5
40	MP1A	X	38.709	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.019	3.5
43	MP1B	X	91.939	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	.012	1.5
46	MP1B	X	91.939	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.012	3.5
49	MP1C	X	88.991	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	.015	1.5
52	MP1C	X	88.991	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.015	3.5
55	MP3A	X	53.403	2
56	MP3A	Z	0	2
57	MP3A	Mx	.026	2
58	MP3B	X	76.702	2
59	MP3B	Z	0	2
60	MP3B	Mx	-.01	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP3C	X	75.412	2
62	MP3C	Z	0	2
63	MP3C	Mx	-.013	2
64	MP2A	X	65.424	2
65	MP2A	Z	0	2
66	MP2A	Mx	.032	2
67	MP2B	X	92.606	2
68	MP2B	Z	0	2
69	MP2B	Mx	-.012	2
70	MP2C	X	91.101	2
71	MP2C	Z	0	2
72	MP2C	Mx	-.016	2
73	M101A	X	131.562	1
74	M101A	Z	0	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	80.614	1
2	MP2A	Z	46.542	1
3	MP2A	Mx	-.023	1
4	MP2A	X	80.614	4
5	MP2A	Z	46.542	4
6	MP2A	Mx	-.023	4
7	MP2B	X	101.891	1
8	MP2B	Z	58.827	1
9	MP2B	Mx	-.091	1
10	MP2B	X	101.891	4
11	MP2B	Z	58.827	4
12	MP2B	Mx	-.091	4
13	MP2C	X	88.337	1
14	MP2C	Z	51.001	1
15	MP2C	Mx	.083	1
16	MP2C	X	88.337	4
17	MP2C	Z	51.001	4
18	MP2C	Mx	.083	4
19	MP2A	X	80.614	1
20	MP2A	Z	46.542	1
21	MP2A	Mx	-.065	1
22	MP2A	X	80.614	4
23	MP2A	Z	46.542	4
24	MP2A	Mx	-.065	4
25	MP2B	X	101.891	1
26	MP2B	Z	58.827	1
27	MP2B	Mx	.061	1
28	MP2B	X	101.891	4
29	MP2B	Z	58.827	4
30	MP2B	Mx	.061	4
31	MP2C	X	88.337	1
32	MP2C	Z	51.001	1
33	MP2C	Mx	-.005	1
34	MP2C	X	88.337	4
35	MP2C	Z	51.001	4
36	MP2C	Mx	-.005	4
37	MP1A	X	37.956	1.5
38	MP1A	Z	21.914	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP1A	Mx	-.021	1.5
40	MP1A	X	37.956	3.5
41	MP1A	Z	21.914	3.5
42	MP1A	Mx	-.021	3.5
43	MP1B	X	79.621	1.5
44	MP1B	Z	45.969	1.5
45	MP1B	Mx	-.012	1.5
46	MP1B	X	79.621	3.5
47	MP1B	Z	45.969	3.5
48	MP1B	Mx	-.012	3.5
49	MP1C	X	53.079	1.5
50	MP1C	Z	30.645	1.5
51	MP1C	Mx	.023	1.5
52	MP1C	X	53.079	3.5
53	MP1C	Z	30.645	3.5
54	MP1C	Mx	.023	3.5
55	MP3A	X	48.189	2
56	MP3A	Z	27.822	2
57	MP3A	Mx	.026	2
58	MP3B	X	66.426	2
59	MP3B	Z	38.351	2
60	MP3B	Mx	.01	2
61	MP3C	X	54.808	2
62	MP3C	Z	31.644	2
63	MP3C	Mx	-.024	2
64	MP2A	X	58.922	2
65	MP2A	Z	34.019	2
66	MP2A	Mx	.032	2
67	MP2B	X	80.199	2
68	MP2B	Z	46.303	2
69	MP2B	Mx	.012	2
70	MP2C	X	66.645	2
71	MP2C	Z	38.478	2
72	MP2C	Mx	-.029	2
73	M101A	X	130.588	1
74	M101A	Z	75.395	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	53.615	1
2	MP2A	Z	92.865	1
3	MP2A	Mx	.02	1
4	MP2A	X	53.615	4
5	MP2A	Z	92.865	4
6	MP2A	Mx	.02	4
7	MP2B	X	52.308	1
8	MP2B	Z	90.601	1
9	MP2B	Mx	-.086	1
10	MP2B	X	52.308	4
11	MP2B	Z	90.601	4
12	MP2B	Mx	-.086	4
13	MP2C	X	45.235	1
14	MP2C	Z	78.35	1
15	MP2C	Mx	.055	1
16	MP2C	X	45.235	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	78.35	4
18	MP2C	Mx	.055	4
19	MP2A	X	53.615	1
20	MP2A	Z	92.865	1
21	MP2A	Mx	-.089	1
22	MP2A	X	53.615	4
23	MP2A	Z	92.865	4
24	MP2A	Mx	-.089	4
25	MP2B	X	52.308	1
26	MP2B	Z	90.601	1
27	MP2B	Mx	.012	1
28	MP2B	X	52.308	4
29	MP2B	Z	90.601	4
30	MP2B	Mx	.012	4
31	MP2C	X	45.235	1
32	MP2C	Z	78.35	1
33	MP2C	Mx	.034	1
34	MP2C	X	45.235	4
35	MP2C	Z	78.35	4
36	MP2C	Mx	.034	4
37	MP1A	X	35.764	1.5
38	MP1A	Z	61.946	1.5
39	MP1A	Mx	-.023	1.5
40	MP1A	X	35.764	3.5
41	MP1A	Z	61.946	3.5
42	MP1A	Mx	-.023	3.5
43	MP1B	X	33.205	1.5
44	MP1B	Z	57.512	1.5
45	MP1B	Mx	-.023	1.5
46	MP1B	X	33.205	3.5
47	MP1B	Z	57.512	3.5
48	MP1B	Mx	-.023	3.5
49	MP1C	X	19.355	1.5
50	MP1C	Z	33.523	1.5
51	MP1C	Mx	.019	1.5
52	MP1C	X	19.355	3.5
53	MP1C	Z	33.523	3.5
54	MP1C	Mx	.019	3.5
55	MP3A	X	33.884	2
56	MP3A	Z	58.689	2
57	MP3A	Mx	.022	2
58	MP3B	X	32.764	2
59	MP3B	Z	56.749	2
60	MP3B	Mx	.023	2
61	MP3C	X	26.701	2
62	MP3C	Z	46.248	2
63	MP3C	Mx	-.026	2
64	MP2A	X	41.092	2
65	MP2A	Z	71.173	2
66	MP2A	Mx	.026	2
67	MP2B	X	39.785	2
68	MP2B	Z	68.909	2
69	MP2B	Mx	.028	2
70	MP2C	X	32.712	2
71	MP2C	Z	56.659	2
72	MP2C	Mx	-.032	2
73	M101A	X	80.202	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	M101A	Z	138.914	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	118.763	1
3	MP2A	Mx	.068	1
4	MP2A	X	0	4
5	MP2A	Z	118.763	4
6	MP2A	Mx	.068	4
7	MP2B	X	0	1
8	MP2B	Z	91.58	1
9	MP2B	Mx	-.06	1
10	MP2B	X	0	4
11	MP2B	Z	91.58	4
12	MP2B	Mx	-.06	4
13	MP2C	X	0	1
14	MP2C	Z	93.085	1
15	MP2C	Mx	.023	1
16	MP2C	X	0	4
17	MP2C	Z	93.085	4
18	MP2C	Mx	.023	4
19	MP2A	X	0	1
20	MP2A	Z	118.763	1
21	MP2A	Mx	-.088	1
22	MP2A	X	0	4
23	MP2A	Z	118.763	4
24	MP2A	Mx	-.088	4
25	MP2B	X	0	1
26	MP2B	Z	91.58	1
27	MP2B	Mx	-.028	1
28	MP2B	X	0	4
29	MP2B	Z	91.58	4
30	MP2B	Mx	-.028	4
31	MP2C	X	0	1
32	MP2C	Z	93.085	1
33	MP2C	Mx	.065	1
34	MP2C	X	0	4
35	MP2C	Z	93.085	4
36	MP2C	Mx	.065	4
37	MP1A	X	0	1.5
38	MP1A	Z	94.11	1.5
39	MP1A	Mx	-.008	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	94.11	3.5
42	MP1A	Mx	-.008	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	40.881	1.5
45	MP1B	Mx	-.02	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	40.881	3.5
48	MP1B	Mx	-.02	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	43.828	1.5
51	MP1C	Mx	.021	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP1C	X	0	3.5
53	MP1C	Z	43.828	3.5
54	MP1C	Mx	.021	3.5
55	MP3A	X	0	2
56	MP3A	Z	77.653	2
57	MP3A	Mx	.007	2
58	MP3B	X	0	2
59	MP3B	Z	54.353	2
60	MP3B	Mx	.026	2
61	MP3C	X	0	2
62	MP3C	Z	55.643	2
63	MP3C	Mx	-.026	2
64	MP2A	X	0	2
65	MP2A	Z	93.715	2
66	MP2A	Mx	.008	2
67	MP2B	X	0	2
68	MP2B	Z	66.533	2
69	MP2B	Mx	.032	2
70	MP2C	X	0	2
71	MP2C	Z	68.038	2
72	MP2C	Mx	-.032	2
73	M101A	X	0	1
74	M101A	Z	150.79	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-58.074	1
2	MP2A	Z	100.588	1
3	MP2A	Mx	.093	1
4	MP2A	X	-58.074	4
5	MP2A	Z	100.588	4
6	MP2A	Mx	.093	4
7	MP2B	X	-45.79	1
8	MP2B	Z	79.31	1
9	MP2B	Mx	-.028	1
10	MP2B	X	-45.79	4
11	MP2B	Z	79.31	4
12	MP2B	Mx	-.028	4
13	MP2C	X	-53.615	1
14	MP2C	Z	92.865	1
15	MP2C	Mx	-.02	1
16	MP2C	X	-53.615	4
17	MP2C	Z	92.865	4
18	MP2C	Mx	-.02	4
19	MP2A	X	-58.074	1
20	MP2A	Z	100.588	1
21	MP2A	Mx	-.053	1
22	MP2A	X	-58.074	4
23	MP2A	Z	100.588	4
24	MP2A	Mx	-.053	4
25	MP2B	X	-45.79	1
26	MP2B	Z	79.31	1
27	MP2B	Mx	-.06	1
28	MP2B	X	-45.79	4
29	MP2B	Z	79.31	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	-.06	4
31	MP2C	X	-53.615	1
32	MP2C	Z	92.865	1
33	MP2C	Mx	.089	1
34	MP2C	X	-53.615	4
35	MP2C	Z	92.865	4
36	MP2C	Mx	.089	4
37	MP1A	X	-44.496	1.5
38	MP1A	Z	77.069	1.5
39	MP1A	Mx	.015	1.5
40	MP1A	X	-44.496	3.5
41	MP1A	Z	77.069	3.5
42	MP1A	Mx	.015	3.5
43	MP1B	X	-20.44	1.5
44	MP1B	Z	35.404	1.5
45	MP1B	Mx	-.02	1.5
46	MP1B	X	-20.44	3.5
47	MP1B	Z	35.404	3.5
48	MP1B	Mx	-.02	3.5
49	MP1C	X	-35.764	1.5
50	MP1C	Z	61.946	1.5
51	MP1C	Mx	.023	1.5
52	MP1C	X	-35.764	3.5
53	MP1C	Z	61.946	3.5
54	MP1C	Mx	.023	3.5
55	MP3A	X	-37.706	2
56	MP3A	Z	65.309	2
57	MP3A	Mx	-.013	2
58	MP3B	X	-27.177	2
59	MP3B	Z	47.071	2
60	MP3B	Mx	.026	2
61	MP3C	X	-33.884	2
62	MP3C	Z	58.689	2
63	MP3C	Mx	-.022	2
64	MP2A	X	-45.551	2
65	MP2A	Z	78.896	2
66	MP2A	Mx	-.016	2
67	MP2B	X	-33.266	2
68	MP2B	Z	57.619	2
69	MP2B	Mx	.032	2
70	MP2C	X	-41.092	2
71	MP2C	Z	71.173	2
72	MP2C	Mx	-.026	2
73	M101A	X	-65.781	1
74	M101A	Z	113.936	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-88.337	1
2	MP2A	Z	51.001	1
3	MP2A	Mx	.083	1
4	MP2A	X	-88.337	4
5	MP2A	Z	51.001	4
6	MP2A	Mx	.083	4
7	MP2B	X	-90.601	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2B	Z	52.308	1
9	MP2B	Mx	.012	1
10	MP2B	X	-90.601	4
11	MP2B	Z	52.308	4
12	MP2B	Mx	.012	4
13	MP2C	X	-102.851	1
14	MP2C	Z	59.381	1
15	MP2C	Mx	-.068	1
16	MP2C	X	-102.851	4
17	MP2C	Z	59.381	4
18	MP2C	Mx	-.068	4
19	MP2A	X	-88.337	1
20	MP2A	Z	51.001	1
21	MP2A	Mx	-.005	1
22	MP2A	X	-88.337	4
23	MP2A	Z	51.001	4
24	MP2A	Mx	-.005	4
25	MP2B	X	-90.601	1
26	MP2B	Z	52.308	1
27	MP2B	Mx	-.086	1
28	MP2B	X	-90.601	4
29	MP2B	Z	52.308	4
30	MP2B	Mx	-.086	4
31	MP2C	X	-102.851	1
32	MP2C	Z	59.381	1
33	MP2C	Mx	.088	1
34	MP2C	X	-102.851	4
35	MP2C	Z	59.381	4
36	MP2C	Mx	.088	4
37	MP1A	X	-53.079	1.5
38	MP1A	Z	30.645	1.5
39	MP1A	Mx	.023	1.5
40	MP1A	X	-53.079	3.5
41	MP1A	Z	30.645	3.5
42	MP1A	Mx	.023	3.5
43	MP1B	X	-57.512	1.5
44	MP1B	Z	33.205	1.5
45	MP1B	Mx	-.023	1.5
46	MP1B	X	-57.512	3.5
47	MP1B	Z	33.205	3.5
48	MP1B	Mx	-.023	3.5
49	MP1C	X	-81.502	1.5
50	MP1C	Z	47.055	1.5
51	MP1C	Mx	.008	1.5
52	MP1C	X	-81.502	3.5
53	MP1C	Z	47.055	3.5
54	MP1C	Mx	.008	3.5
55	MP3A	X	-54.808	2
56	MP3A	Z	31.644	2
57	MP3A	Mx	-.024	2
58	MP3B	X	-56.749	2
59	MP3B	Z	32.764	2
60	MP3B	Mx	.023	2
61	MP3C	X	-67.249	2
62	MP3C	Z	38.826	2
63	MP3C	Mx	-.007	2
64	MP2A	X	-66.645	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2A	Z	38.478	2
66	MP2A	Mx	-.029	2
67	MP2B	X	-68.909	2
68	MP2B	Z	39.785	2
69	MP2B	Mx	.028	2
70	MP2C	X	-81.16	2
71	MP2C	Z	46.858	2
72	MP2C	Mx	-.008	2
73	M101A	X	-105.61	1
74	M101A	Z	60.974	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-90.471	1
2	MP2A	Z	0	1
3	MP2A	Mx	.055	1
4	MP2A	X	-90.471	4
5	MP2A	Z	0	4
6	MP2A	Mx	.055	4
7	MP2B	X	-117.654	1
8	MP2B	Z	0	1
9	MP2B	Mx	.061	1
10	MP2B	X	-117.654	4
11	MP2B	Z	0	4
12	MP2B	Mx	.061	4
13	MP2C	X	-116.149	1
14	MP2C	Z	0	1
15	MP2C	Mx	-.093	1
16	MP2C	X	-116.149	4
17	MP2C	Z	0	4
18	MP2C	Mx	-.093	4
19	MP2A	X	-90.471	1
20	MP2A	Z	0	1
21	MP2A	Mx	.034	1
22	MP2A	X	-90.471	4
23	MP2A	Z	0	4
24	MP2A	Mx	.034	4
25	MP2B	X	-117.654	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.091	1
28	MP2B	X	-117.654	4
29	MP2B	Z	0	4
30	MP2B	Mx	-.091	4
31	MP2C	X	-116.149	1
32	MP2C	Z	0	1
33	MP2C	Mx	.053	1
34	MP2C	X	-116.149	4
35	MP2C	Z	0	4
36	MP2C	Mx	.053	4
37	MP1A	X	-38.709	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	.019	1.5
40	MP1A	X	-38.709	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.019	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP1B	X	-91.939	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	-.012	1.5
46	MP1B	X	-91.939	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.012	3.5
49	MP1C	X	-88.991	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	-.015	1.5
52	MP1C	X	-88.991	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.015	3.5
55	MP3A	X	-53.403	2
56	MP3A	Z	0	2
57	MP3A	Mx	-.026	2
58	MP3B	X	-76.702	2
59	MP3B	Z	0	2
60	MP3B	Mx	.01	2
61	MP3C	X	-75.412	2
62	MP3C	Z	0	2
63	MP3C	Mx	.013	2
64	MP2A	X	-65.424	2
65	MP2A	Z	0	2
66	MP2A	Mx	-.032	2
67	MP2B	X	-92.606	2
68	MP2B	Z	0	2
69	MP2B	Mx	.012	2
70	MP2C	X	-91.101	2
71	MP2C	Z	0	2
72	MP2C	Mx	.016	2
73	M101A	X	-131.562	1
74	M101A	Z	0	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-80.614	1
2	MP2A	Z	-46.542	1
3	MP2A	Mx	.023	1
4	MP2A	X	-80.614	4
5	MP2A	Z	-46.542	4
6	MP2A	Mx	.023	4
7	MP2B	X	-101.891	1
8	MP2B	Z	-58.827	1
9	MP2B	Mx	.091	1
10	MP2B	X	-101.891	4
11	MP2B	Z	-58.827	4
12	MP2B	Mx	.091	4
13	MP2C	X	-88.337	1
14	MP2C	Z	-51.001	1
15	MP2C	Mx	-.083	1
16	MP2C	X	-88.337	4
17	MP2C	Z	-51.001	4
18	MP2C	Mx	-.083	4
19	MP2A	X	-80.614	1
20	MP2A	Z	-46.542	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	.065	1
22	MP2A	X	-80.614	4
23	MP2A	Z	-46.542	4
24	MP2A	Mx	.065	4
25	MP2B	X	-101.891	1
26	MP2B	Z	-58.827	1
27	MP2B	Mx	-.061	1
28	MP2B	X	-101.891	4
29	MP2B	Z	-58.827	4
30	MP2B	Mx	-.061	4
31	MP2C	X	-88.337	1
32	MP2C	Z	-51.001	1
33	MP2C	Mx	.005	1
34	MP2C	X	-88.337	4
35	MP2C	Z	-51.001	4
36	MP2C	Mx	.005	4
37	MP1A	X	-37.956	1.5
38	MP1A	Z	-21.914	1.5
39	MP1A	Mx	.021	1.5
40	MP1A	X	-37.956	3.5
41	MP1A	Z	-21.914	3.5
42	MP1A	Mx	.021	3.5
43	MP1B	X	-79.621	1.5
44	MP1B	Z	-45.969	1.5
45	MP1B	Mx	.012	1.5
46	MP1B	X	-79.621	3.5
47	MP1B	Z	-45.969	3.5
48	MP1B	Mx	.012	3.5
49	MP1C	X	-53.079	1.5
50	MP1C	Z	-30.645	1.5
51	MP1C	Mx	-.023	1.5
52	MP1C	X	-53.079	3.5
53	MP1C	Z	-30.645	3.5
54	MP1C	Mx	-.023	3.5
55	MP3A	X	-48.189	2
56	MP3A	Z	-27.822	2
57	MP3A	Mx	-.026	2
58	MP3B	X	-66.426	2
59	MP3B	Z	-38.351	2
60	MP3B	Mx	-.01	2
61	MP3C	X	-54.808	2
62	MP3C	Z	-31.644	2
63	MP3C	Mx	.024	2
64	MP2A	X	-58.922	2
65	MP2A	Z	-34.019	2
66	MP2A	Mx	-.032	2
67	MP2B	X	-80.199	2
68	MP2B	Z	-46.303	2
69	MP2B	Mx	-.012	2
70	MP2C	X	-66.645	2
71	MP2C	Z	-38.478	2
72	MP2C	Mx	.029	2
73	M101A	X	-130.588	1
74	M101A	Z	-75.395	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-53.615	1
2	MP2A	Z	-92.865	1
3	MP2A	Mx	-.02	1
4	MP2A	X	-53.615	4
5	MP2A	Z	-92.865	4
6	MP2A	Mx	-.02	4
7	MP2B	X	-52.308	1
8	MP2B	Z	-90.601	1
9	MP2B	Mx	.086	1
10	MP2B	X	-52.308	4
11	MP2B	Z	-90.601	4
12	MP2B	Mx	.086	4
13	MP2C	X	-45.235	1
14	MP2C	Z	-78.35	1
15	MP2C	Mx	-.055	1
16	MP2C	X	-45.235	4
17	MP2C	Z	-78.35	4
18	MP2C	Mx	-.055	4
19	MP2A	X	-53.615	1
20	MP2A	Z	-92.865	1
21	MP2A	Mx	.089	1
22	MP2A	X	-53.615	4
23	MP2A	Z	-92.865	4
24	MP2A	Mx	.089	4
25	MP2B	X	-52.308	1
26	MP2B	Z	-90.601	1
27	MP2B	Mx	-.012	1
28	MP2B	X	-52.308	4
29	MP2B	Z	-90.601	4
30	MP2B	Mx	-.012	4
31	MP2C	X	-45.235	1
32	MP2C	Z	-78.35	1
33	MP2C	Mx	-.034	1
34	MP2C	X	-45.235	4
35	MP2C	Z	-78.35	4
36	MP2C	Mx	-.034	4
37	MP1A	X	-35.764	1.5
38	MP1A	Z	-61.946	1.5
39	MP1A	Mx	.023	1.5
40	MP1A	X	-35.764	3.5
41	MP1A	Z	-61.946	3.5
42	MP1A	Mx	.023	3.5
43	MP1B	X	-33.205	1.5
44	MP1B	Z	-57.512	1.5
45	MP1B	Mx	.023	1.5
46	MP1B	X	-33.205	3.5
47	MP1B	Z	-57.512	3.5
48	MP1B	Mx	.023	3.5
49	MP1C	X	-19.355	1.5
50	MP1C	Z	-33.523	1.5
51	MP1C	Mx	-.019	1.5
52	MP1C	X	-19.355	3.5
53	MP1C	Z	-33.523	3.5
54	MP1C	Mx	-.019	3.5
55	MP3A	X	-33.884	2
56	MP3A	Z	-58.689	2
57	MP3A	Mx	-.022	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP3B	X	-32.764	2
59	MP3B	Z	-56.749	2
60	MP3B	Mx	-.023	2
61	MP3C	X	-26.701	2
62	MP3C	Z	-46.248	2
63	MP3C	Mx	.026	2
64	MP2A	X	-41.092	2
65	MP2A	Z	-71.173	2
66	MP2A	Mx	-.026	2
67	MP2B	X	-39.785	2
68	MP2B	Z	-68.909	2
69	MP2B	Mx	-.028	2
70	MP2C	X	-32.712	2
71	MP2C	Z	-56.659	2
72	MP2C	Mx	.032	2
73	M101A	X	-80.202	1
74	M101A	Z	-138.914	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-40.002	1
3	MP2A	Mx	-.023	1
4	MP2A	X	0	4
5	MP2A	Z	-40.002	4
6	MP2A	Mx	-.023	4
7	MP2B	X	0	1
8	MP2B	Z	-31.145	1
9	MP2B	Mx	.02	1
10	MP2B	X	0	4
11	MP2B	Z	-31.145	4
12	MP2B	Mx	.02	4
13	MP2C	X	0	1
14	MP2C	Z	-31.636	1
15	MP2C	Mx	-.008	1
16	MP2C	X	0	4
17	MP2C	Z	-31.636	4
18	MP2C	Mx	-.008	4
19	MP2A	X	0	1
20	MP2A	Z	-40.002	1
21	MP2A	Mx	.03	1
22	MP2A	X	0	4
23	MP2A	Z	-40.002	4
24	MP2A	Mx	.03	4
25	MP2B	X	0	1
26	MP2B	Z	-31.145	1
27	MP2B	Mx	.01	1
28	MP2B	X	0	4
29	MP2B	Z	-31.145	4
30	MP2B	Mx	.01	4
31	MP2C	X	0	1
32	MP2C	Z	-31.636	1
33	MP2C	Mx	-.022	1
34	MP2C	X	0	4
35	MP2C	Z	-31.636	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.022	4
37	MP1A	X	0	1.5
38	MP1A	Z	-15.943	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-15.943	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-7.482	1.5
45	MP1B	Mx	.004	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-7.482	3.5
48	MP1B	Mx	.004	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-7.95	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-7.95	3.5
54	MP1C	Mx	-.004	3.5
55	MP3A	X	0	2
56	MP3A	Z	-16.608	2
57	MP3A	Mx	-.001	2
58	MP3B	X	0	2
59	MP3B	Z	-12.004	2
60	MP3B	Mx	-.006	2
61	MP3C	X	0	2
62	MP3C	Z	-12.259	2
63	MP3C	Mx	.006	2
64	MP2A	X	0	2
65	MP2A	Z	-16.615	2
66	MP2A	Mx	-.001	2
67	MP2B	X	0	2
68	MP2B	Z	-12.194	2
69	MP2B	Mx	-.006	2
70	MP2C	X	0	2
71	MP2C	Z	-12.439	2
72	MP2C	Mx	.006	2
73	M101A	X	0	1
74	M101A	Z	-32.563	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	19.575	1
2	MP2A	Z	-33.905	1
3	MP2A	Mx	-.031	1
4	MP2A	X	19.575	4
5	MP2A	Z	-33.905	4
6	MP2A	Mx	-.031	4
7	MP2B	X	15.573	1
8	MP2B	Z	-26.973	1
9	MP2B	Mx	.01	1
10	MP2B	X	15.573	4
11	MP2B	Z	-26.973	4
12	MP2B	Mx	.01	4
13	MP2C	X	18.122	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP2C	Z	-31.389	1
15	MP2C	Mx	.007	1
16	MP2C	X	18.122	4
17	MP2C	Z	-31.389	4
18	MP2C	Mx	.007	4
19	MP2A	X	19.575	1
20	MP2A	Z	-33.905	1
21	MP2A	Mx	.018	1
22	MP2A	X	19.575	4
23	MP2A	Z	-33.905	4
24	MP2A	Mx	.018	4
25	MP2B	X	15.573	1
26	MP2B	Z	-26.973	1
27	MP2B	Mx	.02	1
28	MP2B	X	15.573	4
29	MP2B	Z	-26.973	4
30	MP2B	Mx	.02	4
31	MP2C	X	18.122	1
32	MP2C	Z	-31.389	1
33	MP2C	Mx	-.03	1
34	MP2C	X	18.122	4
35	MP2C	Z	-31.389	4
36	MP2C	Mx	-.03	4
37	MP1A	X	7.565	1.5
38	MP1A	Z	-13.102	1.5
39	MP1A	Mx	-.003	1.5
40	MP1A	X	7.565	3.5
41	MP1A	Z	-13.102	3.5
42	MP1A	Mx	-.003	3.5
43	MP1B	X	3.741	1.5
44	MP1B	Z	-6.48	1.5
45	MP1B	Mx	.004	1.5
46	MP1B	X	3.741	3.5
47	MP1B	Z	-6.48	3.5
48	MP1B	Mx	.004	3.5
49	MP1C	X	6.177	1.5
50	MP1C	Z	-10.698	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	6.177	3.5
53	MP1C	Z	-10.698	3.5
54	MP1C	Mx	-.004	3.5
55	MP3A	X	8.083	2
56	MP3A	Z	-14	2
57	MP3A	Mx	.003	2
58	MP3B	X	6.002	2
59	MP3B	Z	-10.395	2
60	MP3B	Mx	-.006	2
61	MP3C	X	7.327	2
62	MP3C	Z	-12.691	2
63	MP3C	Mx	.005	2
64	MP2A	X	8.095	2
65	MP2A	Z	-14.02	2
66	MP2A	Mx	.003	2
67	MP2B	X	6.097	2
68	MP2B	Z	-10.56	2
69	MP2B	Mx	-.006	2
70	MP2C	X	7.37	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP2C	Z	-12.764	2
72	MP2C	Mx	.005	2
73	M101A	X	14.405	1
74	M101A	Z	-24.951	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	29.914	1
2	MP2A	Z	-17.271	1
3	MP2A	Mx	-.028	1
4	MP2A	X	29.914	4
5	MP2A	Z	-17.271	4
6	MP2A	Mx	-.028	4
7	MP2B	X	30.651	1
8	MP2B	Z	-17.697	1
9	MP2B	Mx	-.004	1
10	MP2B	X	30.651	4
11	MP2B	Z	-17.697	4
12	MP2B	Mx	-.004	4
13	MP2C	X	34.643	1
14	MP2C	Z	-20.001	1
15	MP2C	Mx	.023	1
16	MP2C	X	34.643	4
17	MP2C	Z	-20.001	4
18	MP2C	Mx	.023	4
19	MP2A	X	29.914	1
20	MP2A	Z	-17.271	1
21	MP2A	Mx	.002	1
22	MP2A	X	29.914	4
23	MP2A	Z	-17.271	4
24	MP2A	Mx	.002	4
25	MP2B	X	30.651	1
26	MP2B	Z	-17.697	1
27	MP2B	Mx	.029	1
28	MP2B	X	30.651	4
29	MP2B	Z	-17.697	4
30	MP2B	Mx	.029	4
31	MP2C	X	34.643	1
32	MP2C	Z	-20.001	1
33	MP2C	Mx	-.03	1
34	MP2C	X	34.643	4
35	MP2C	Z	-20.001	4
36	MP2C	Mx	-.03	4
37	MP1A	X	9.289	1.5
38	MP1A	Z	-5.363	1.5
39	MP1A	Mx	-.004	1.5
40	MP1A	X	9.289	3.5
41	MP1A	Z	-5.363	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	9.994	1.5
44	MP1B	Z	-5.77	1.5
45	MP1B	Mx	.004	1.5
46	MP1B	X	9.994	3.5
47	MP1B	Z	-5.77	3.5
48	MP1B	Mx	.004	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP1C	X	13.807	1.5
50	MP1C	Z	-7.971	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	13.807	3.5
53	MP1C	Z	-7.971	3.5
54	MP1C	Mx	-.001	3.5
55	MP3A	X	11.924	2
56	MP3A	Z	-6.885	2
57	MP3A	Mx	.005	2
58	MP3B	X	12.308	2
59	MP3B	Z	-7.106	2
60	MP3B	Mx	-.005	2
61	MP3C	X	14.383	2
62	MP3C	Z	-8.304	2
63	MP3C	Mx	.001	2
64	MP2A	X	12.028	2
65	MP2A	Z	-6.944	2
66	MP2A	Mx	.005	2
67	MP2B	X	12.396	2
68	MP2B	Z	-7.157	2
69	MP2B	Mx	-.005	2
70	MP2C	X	14.389	2
71	MP2C	Z	-8.307	2
72	MP2C	Mx	.001	2
73	M101A	X	23.325	1
74	M101A	Z	-13.467	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	30.784	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.019	1
4	MP2A	X	30.784	4
5	MP2A	Z	0	4
6	MP2A	Mx	-.019	4
7	MP2B	X	39.641	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.02	1
10	MP2B	X	39.641	4
11	MP2B	Z	0	4
12	MP2B	Mx	-.02	4
13	MP2C	X	39.15	1
14	MP2C	Z	0	1
15	MP2C	Mx	.031	1
16	MP2C	X	39.15	4
17	MP2C	Z	0	4
18	MP2C	Mx	.031	4
19	MP2A	X	30.784	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.012	1
22	MP2A	X	30.784	4
23	MP2A	Z	0	4
24	MP2A	Mx	-.012	4
25	MP2B	X	39.641	1
26	MP2B	Z	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	.031	1
28	MP2B	X	39.641	4
29	MP2B	Z	0	4
30	MP2B	Mx	.031	4
31	MP2C	X	39.15	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.018	1
34	MP2C	X	39.15	4
35	MP2C	Z	0	4
36	MP2C	Mx	-.018	4
37	MP1A	X	7.137	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	-.004	1.5
40	MP1A	X	7.137	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	15.597	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	.002	1.5
46	MP1B	X	15.597	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.002	3.5
49	MP1C	X	15.129	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	.003	1.5
52	MP1C	X	15.129	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.003	3.5
55	MP3A	X	11.816	2
56	MP3A	Z	0	2
57	MP3A	Mx	.006	2
58	MP3B	X	16.42	2
59	MP3B	Z	0	2
60	MP3B	Mx	-.002	2
61	MP3C	X	16.166	2
62	MP3C	Z	0	2
63	MP3C	Mx	-.003	2
64	MP2A	X	12.014	2
65	MP2A	Z	0	2
66	MP2A	Mx	.006	2
67	MP2B	X	16.434	2
68	MP2B	Z	0	2
69	MP2B	Mx	-.002	2
70	MP2C	X	16.189	2
71	MP2C	Z	0	2
72	MP2C	Mx	-.003	2
73	M101A	X	28.81	1
74	M101A	Z	0	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	27.397	1
2	MP2A	Z	15.818	1
3	MP2A	Mx	-.008	1
4	MP2A	X	27.397	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2A	Z	15.818	4
6	MP2A	Mx	-.008	4
7	MP2B	X	34.33	1
8	MP2B	Z	19.82	1
9	MP2B	Mx	-.031	1
10	MP2B	X	34.33	4
11	MP2B	Z	19.82	4
12	MP2B	Mx	-.031	4
13	MP2C	X	29.914	1
14	MP2C	Z	17.271	1
15	MP2C	Mx	.028	1
16	MP2C	X	29.914	4
17	MP2C	Z	17.271	4
18	MP2C	Mx	.028	4
19	MP2A	X	27.397	1
20	MP2A	Z	15.818	1
21	MP2A	Mx	-.022	1
22	MP2A	X	27.397	4
23	MP2A	Z	15.818	4
24	MP2A	Mx	-.022	4
25	MP2B	X	34.33	1
26	MP2B	Z	19.82	1
27	MP2B	Mx	.02	1
28	MP2B	X	34.33	4
29	MP2B	Z	19.82	4
30	MP2B	Mx	.02	4
31	MP2C	X	29.914	1
32	MP2C	Z	17.271	1
33	MP2C	Mx	-.002	1
34	MP2C	X	29.914	4
35	MP2C	Z	17.271	4
36	MP2C	Mx	-.002	4
37	MP1A	X	6.885	1.5
38	MP1A	Z	3.975	1.5
39	MP1A	Mx	-.004	1.5
40	MP1A	X	6.885	3.5
41	MP1A	Z	3.975	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	13.508	1.5
44	MP1B	Z	7.799	1.5
45	MP1B	Mx	-.002	1.5
46	MP1B	X	13.508	3.5
47	MP1B	Z	7.799	3.5
48	MP1B	Mx	-.002	3.5
49	MP1C	X	9.289	1.5
50	MP1C	Z	5.363	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	9.289	3.5
53	MP1C	Z	5.363	3.5
54	MP1C	Mx	.004	3.5
55	MP3A	X	10.616	2
56	MP3A	Z	6.129	2
57	MP3A	Mx	.006	2
58	MP3B	X	14.221	2
59	MP3B	Z	8.21	2
60	MP3B	Mx	.002	2
61	MP3C	X	11.924	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP3C	Z	6.885	2
63	MP3C	Mx	-.005	2
64	MP2A	X	10.772	2
65	MP2A	Z	6.219	2
66	MP2A	Mx	.006	2
67	MP2B	X	14.232	2
68	MP2B	Z	8.217	2
69	MP2B	Mx	.002	2
70	MP2C	X	12.028	2
71	MP2C	Z	6.944	2
72	MP2C	Mx	-.005	2
73	M101A	X	28.201	1
74	M101A	Z	16.282	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	18.122	1
2	MP2A	Z	31.389	1
3	MP2A	Mx	.007	1
4	MP2A	X	18.122	4
5	MP2A	Z	31.389	4
6	MP2A	Mx	.007	4
7	MP2B	X	17.697	1
8	MP2B	Z	30.651	1
9	MP2B	Mx	-.029	1
10	MP2B	X	17.697	4
11	MP2B	Z	30.651	4
12	MP2B	Mx	-.029	4
13	MP2C	X	15.392	1
14	MP2C	Z	26.66	1
15	MP2C	Mx	.019	1
16	MP2C	X	15.392	4
17	MP2C	Z	26.66	4
18	MP2C	Mx	.019	4
19	MP2A	X	18.122	1
20	MP2A	Z	31.389	1
21	MP2A	Mx	-.03	1
22	MP2A	X	18.122	4
23	MP2A	Z	31.389	4
24	MP2A	Mx	-.03	4
25	MP2B	X	17.697	1
26	MP2B	Z	30.651	1
27	MP2B	Mx	.004	1
28	MP2B	X	17.697	4
29	MP2B	Z	30.651	4
30	MP2B	Mx	.004	4
31	MP2C	X	15.392	1
32	MP2C	Z	26.66	1
33	MP2C	Mx	.012	1
34	MP2C	X	15.392	4
35	MP2C	Z	26.66	4
36	MP2C	Mx	.012	4
37	MP1A	X	6.177	1.5
38	MP1A	Z	10.698	1.5
39	MP1A	Mx	-.004	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	X	6.177	3.5
41	MP1A	Z	10.698	3.5
42	MP1A	Mx	-.004	3.5
43	MP1B	X	5.77	1.5
44	MP1B	Z	9.994	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	5.77	3.5
47	MP1B	Z	9.994	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	3.568	1.5
50	MP1C	Z	6.181	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	3.568	3.5
53	MP1C	Z	6.181	3.5
54	MP1C	Mx	.004	3.5
55	MP3A	X	7.327	2
56	MP3A	Z	12.691	2
57	MP3A	Mx	.005	2
58	MP3B	X	7.106	2
59	MP3B	Z	12.308	2
60	MP3B	Mx	.005	2
61	MP3C	X	5.908	2
62	MP3C	Z	10.233	2
63	MP3C	Mx	-.006	2
64	MP2A	X	7.37	2
65	MP2A	Z	12.764	2
66	MP2A	Mx	.005	2
67	MP2B	X	7.157	2
68	MP2B	Z	12.396	2
69	MP2B	Mx	.005	2
70	MP2C	X	6.007	2
71	MP2C	Z	10.404	2
72	MP2C	Mx	-.006	2
73	M101A	X	17.22	1
74	M101A	Z	29.826	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	40.002	1
3	MP2A	Mx	.023	1
4	MP2A	X	0	4
5	MP2A	Z	40.002	4
6	MP2A	Mx	.023	4
7	MP2B	X	0	1
8	MP2B	Z	31.145	1
9	MP2B	Mx	-.02	1
10	MP2B	X	0	4
11	MP2B	Z	31.145	4
12	MP2B	Mx	-.02	4
13	MP2C	X	0	1
14	MP2C	Z	31.636	1
15	MP2C	Mx	.008	1
16	MP2C	X	0	4
17	MP2C	Z	31.636	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	.008	4
19	MP2A	X	0	1
20	MP2A	Z	40.002	1
21	MP2A	Mx	-.03	1
22	MP2A	X	0	4
23	MP2A	Z	40.002	4
24	MP2A	Mx	-.03	4
25	MP2B	X	0	1
26	MP2B	Z	31.145	1
27	MP2B	Mx	-.01	1
28	MP2B	X	0	4
29	MP2B	Z	31.145	4
30	MP2B	Mx	-.01	4
31	MP2C	X	0	1
32	MP2C	Z	31.636	1
33	MP2C	Mx	.022	1
34	MP2C	X	0	4
35	MP2C	Z	31.636	4
36	MP2C	Mx	.022	4
37	MP1A	X	0	1.5
38	MP1A	Z	15.943	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	15.943	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	7.482	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	7.482	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	7.95	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	7.95	3.5
54	MP1C	Mx	.004	3.5
55	MP3A	X	0	2
56	MP3A	Z	16.608	2
57	MP3A	Mx	.001	2
58	MP3B	X	0	2
59	MP3B	Z	12.004	2
60	MP3B	Mx	.006	2
61	MP3C	X	0	2
62	MP3C	Z	12.259	2
63	MP3C	Mx	-.006	2
64	MP2A	X	0	2
65	MP2A	Z	16.615	2
66	MP2A	Mx	.001	2
67	MP2B	X	0	2
68	MP2B	Z	12.194	2
69	MP2B	Mx	.006	2
70	MP2C	X	0	2
71	MP2C	Z	12.439	2
72	MP2C	Mx	-.006	2
73	M101A	X	0	1
74	M101A	Z	32.563	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-19.575	1
2	MP2A	Z	33.905	1
3	MP2A	Mx	.031	1
4	MP2A	X	-19.575	4
5	MP2A	Z	33.905	4
6	MP2A	Mx	.031	4
7	MP2B	X	-15.573	1
8	MP2B	Z	26.973	1
9	MP2B	Mx	-.01	1
10	MP2B	X	-15.573	4
11	MP2B	Z	26.973	4
12	MP2B	Mx	-.01	4
13	MP2C	X	-18.122	1
14	MP2C	Z	31.389	1
15	MP2C	Mx	-.007	1
16	MP2C	X	-18.122	4
17	MP2C	Z	31.389	4
18	MP2C	Mx	-.007	4
19	MP2A	X	-19.575	1
20	MP2A	Z	33.905	1
21	MP2A	Mx	-.018	1
22	MP2A	X	-19.575	4
23	MP2A	Z	33.905	4
24	MP2A	Mx	-.018	4
25	MP2B	X	-15.573	1
26	MP2B	Z	26.973	1
27	MP2B	Mx	-.02	1
28	MP2B	X	-15.573	4
29	MP2B	Z	26.973	4
30	MP2B	Mx	-.02	4
31	MP2C	X	-18.122	1
32	MP2C	Z	31.389	1
33	MP2C	Mx	.03	1
34	MP2C	X	-18.122	4
35	MP2C	Z	31.389	4
36	MP2C	Mx	.03	4
37	MP1A	X	-7.565	1.5
38	MP1A	Z	13.102	1.5
39	MP1A	Mx	.003	1.5
40	MP1A	X	-7.565	3.5
41	MP1A	Z	13.102	3.5
42	MP1A	Mx	.003	3.5
43	MP1B	X	-3.741	1.5
44	MP1B	Z	6.48	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	-3.741	3.5
47	MP1B	Z	6.48	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	-6.177	1.5
50	MP1C	Z	10.698	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	-6.177	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1C	Z	10.698	3.5
54	MP1C	Mx	.004	3.5
55	MP3A	X	-8.083	2
56	MP3A	Z	14	2
57	MP3A	Mx	-.003	2
58	MP3B	X	-6.002	2
59	MP3B	Z	10.395	2
60	MP3B	Mx	.006	2
61	MP3C	X	-7.327	2
62	MP3C	Z	12.691	2
63	MP3C	Mx	-.005	2
64	MP2A	X	-8.095	2
65	MP2A	Z	14.02	2
66	MP2A	Mx	-.003	2
67	MP2B	X	-6.097	2
68	MP2B	Z	10.56	2
69	MP2B	Mx	.006	2
70	MP2C	X	-7.37	2
71	MP2C	Z	12.764	2
72	MP2C	Mx	-.005	2
73	M101A	X	-14.405	1
74	M101A	Z	24.951	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-29.914	1
2	MP2A	Z	17.271	1
3	MP2A	Mx	.028	1
4	MP2A	X	-29.914	4
5	MP2A	Z	17.271	4
6	MP2A	Mx	.028	4
7	MP2B	X	-30.651	1
8	MP2B	Z	17.697	1
9	MP2B	Mx	.004	1
10	MP2B	X	-30.651	4
11	MP2B	Z	17.697	4
12	MP2B	Mx	.004	4
13	MP2C	X	-34.643	1
14	MP2C	Z	20.001	1
15	MP2C	Mx	-.023	1
16	MP2C	X	-34.643	4
17	MP2C	Z	20.001	4
18	MP2C	Mx	-.023	4
19	MP2A	X	-29.914	1
20	MP2A	Z	17.271	1
21	MP2A	Mx	-.002	1
22	MP2A	X	-29.914	4
23	MP2A	Z	17.271	4
24	MP2A	Mx	-.002	4
25	MP2B	X	-30.651	1
26	MP2B	Z	17.697	1
27	MP2B	Mx	-.029	1
28	MP2B	X	-30.651	4
29	MP2B	Z	17.697	4
30	MP2B	Mx	-.029	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	-34.643	1
32	MP2C	Z	20.001	1
33	MP2C	Mx	.03	1
34	MP2C	X	-34.643	4
35	MP2C	Z	20.001	4
36	MP2C	Mx	.03	4
37	MP1A	X	-9.289	1.5
38	MP1A	Z	5.363	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-9.289	3.5
41	MP1A	Z	5.363	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-9.994	1.5
44	MP1B	Z	5.77	1.5
45	MP1B	Mx	-.004	1.5
46	MP1B	X	-9.994	3.5
47	MP1B	Z	5.77	3.5
48	MP1B	Mx	-.004	3.5
49	MP1C	X	-13.807	1.5
50	MP1C	Z	7.971	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	-13.807	3.5
53	MP1C	Z	7.971	3.5
54	MP1C	Mx	.001	3.5
55	MP3A	X	-11.924	2
56	MP3A	Z	6.885	2
57	MP3A	Mx	-.005	2
58	MP3B	X	-12.308	2
59	MP3B	Z	7.106	2
60	MP3B	Mx	.005	2
61	MP3C	X	-14.383	2
62	MP3C	Z	8.304	2
63	MP3C	Mx	-.001	2
64	MP2A	X	-12.028	2
65	MP2A	Z	6.944	2
66	MP2A	Mx	-.005	2
67	MP2B	X	-12.396	2
68	MP2B	Z	7.157	2
69	MP2B	Mx	.005	2
70	MP2C	X	-14.389	2
71	MP2C	Z	8.307	2
72	MP2C	Mx	-.001	2
73	M101A	X	-23.325	1
74	M101A	Z	13.467	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-30.784	1
2	MP2A	Z	0	1
3	MP2A	Mx	.019	1
4	MP2A	X	-30.784	4
5	MP2A	Z	0	4
6	MP2A	Mx	.019	4
7	MP2B	X	-39.641	1
8	MP2B	Z	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2B	Mx	.02	1
10	MP2B	X	-39.641	4
11	MP2B	Z	0	4
12	MP2B	Mx	.02	4
13	MP2C	X	-39.15	1
14	MP2C	Z	0	1
15	MP2C	Mx	-.031	1
16	MP2C	X	-39.15	4
17	MP2C	Z	0	4
18	MP2C	Mx	-.031	4
19	MP2A	X	-30.784	1
20	MP2A	Z	0	1
21	MP2A	Mx	.012	1
22	MP2A	X	-30.784	4
23	MP2A	Z	0	4
24	MP2A	Mx	.012	4
25	MP2B	X	-39.641	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.031	1
28	MP2B	X	-39.641	4
29	MP2B	Z	0	4
30	MP2B	Mx	-.031	4
31	MP2C	X	-39.15	1
32	MP2C	Z	0	1
33	MP2C	Mx	.018	1
34	MP2C	X	-39.15	4
35	MP2C	Z	0	4
36	MP2C	Mx	.018	4
37	MP1A	X	-7.137	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-7.137	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-15.597	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	-.002	1.5
46	MP1B	X	-15.597	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.002	3.5
49	MP1C	X	-15.129	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	-.003	1.5
52	MP1C	X	-15.129	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.003	3.5
55	MP3A	X	-11.816	2
56	MP3A	Z	0	2
57	MP3A	Mx	-.006	2
58	MP3B	X	-16.42	2
59	MP3B	Z	0	2
60	MP3B	Mx	.002	2
61	MP3C	X	-16.166	2
62	MP3C	Z	0	2
63	MP3C	Mx	.003	2
64	MP2A	X	-12.014	2
65	MP2A	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP2A	Mx	-.006	2
67	MP2B	X	-16.434	2
68	MP2B	Z	0	2
69	MP2B	Mx	.002	2
70	MP2C	X	-16.189	2
71	MP2C	Z	0	2
72	MP2C	Mx	.003	2
73	M101A	X	-28.81	1
74	M101A	Z	0	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-27.397	1
2	MP2A	Z	-15.818	1
3	MP2A	Mx	.008	1
4	MP2A	X	-27.397	4
5	MP2A	Z	-15.818	4
6	MP2A	Mx	.008	4
7	MP2B	X	-34.33	1
8	MP2B	Z	-19.82	1
9	MP2B	Mx	.031	1
10	MP2B	X	-34.33	4
11	MP2B	Z	-19.82	4
12	MP2B	Mx	.031	4
13	MP2C	X	-29.914	1
14	MP2C	Z	-17.271	1
15	MP2C	Mx	-.028	1
16	MP2C	X	-29.914	4
17	MP2C	Z	-17.271	4
18	MP2C	Mx	-.028	4
19	MP2A	X	-27.397	1
20	MP2A	Z	-15.818	1
21	MP2A	Mx	.022	1
22	MP2A	X	-27.397	4
23	MP2A	Z	-15.818	4
24	MP2A	Mx	.022	4
25	MP2B	X	-34.33	1
26	MP2B	Z	-19.82	1
27	MP2B	Mx	-.02	1
28	MP2B	X	-34.33	4
29	MP2B	Z	-19.82	4
30	MP2B	Mx	-.02	4
31	MP2C	X	-29.914	1
32	MP2C	Z	-17.271	1
33	MP2C	Mx	.002	1
34	MP2C	X	-29.914	4
35	MP2C	Z	-17.271	4
36	MP2C	Mx	.002	4
37	MP1A	X	-6.885	1.5
38	MP1A	Z	-3.975	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-6.885	3.5
41	MP1A	Z	-3.975	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-13.508	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1B	Z	-7.799	1.5
45	MP1B	Mx	.002	1.5
46	MP1B	X	-13.508	3.5
47	MP1B	Z	-7.799	3.5
48	MP1B	Mx	.002	3.5
49	MP1C	X	-9.289	1.5
50	MP1C	Z	-5.363	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	-9.289	3.5
53	MP1C	Z	-5.363	3.5
54	MP1C	Mx	-.004	3.5
55	MP3A	X	-10.616	2
56	MP3A	Z	-6.129	2
57	MP3A	Mx	-.006	2
58	MP3B	X	-14.221	2
59	MP3B	Z	-8.21	2
60	MP3B	Mx	-.002	2
61	MP3C	X	-11.924	2
62	MP3C	Z	-6.885	2
63	MP3C	Mx	.005	2
64	MP2A	X	-10.772	2
65	MP2A	Z	-6.219	2
66	MP2A	Mx	-.006	2
67	MP2B	X	-14.232	2
68	MP2B	Z	-8.217	2
69	MP2B	Mx	-.002	2
70	MP2C	X	-12.028	2
71	MP2C	Z	-6.944	2
72	MP2C	Mx	.005	2
73	M101A	X	-28.201	1
74	M101A	Z	-16.282	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-18.122	1
2	MP2A	Z	-31.389	1
3	MP2A	Mx	-.007	1
4	MP2A	X	-18.122	4
5	MP2A	Z	-31.389	4
6	MP2A	Mx	-.007	4
7	MP2B	X	-17.697	1
8	MP2B	Z	-30.651	1
9	MP2B	Mx	.029	1
10	MP2B	X	-17.697	4
11	MP2B	Z	-30.651	4
12	MP2B	Mx	.029	4
13	MP2C	X	-15.392	1
14	MP2C	Z	-26.66	1
15	MP2C	Mx	-.019	1
16	MP2C	X	-15.392	4
17	MP2C	Z	-26.66	4
18	MP2C	Mx	-.019	4
19	MP2A	X	-18.122	1
20	MP2A	Z	-31.389	1
21	MP2A	Mx	.03	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	-18.122	4
23	MP2A	Z	-31.389	4
24	MP2A	Mx	.03	4
25	MP2B	X	-17.697	1
26	MP2B	Z	-30.651	1
27	MP2B	Mx	-.004	1
28	MP2B	X	-17.697	4
29	MP2B	Z	-30.651	4
30	MP2B	Mx	-.004	4
31	MP2C	X	-15.392	1
32	MP2C	Z	-26.66	1
33	MP2C	Mx	-.012	1
34	MP2C	X	-15.392	4
35	MP2C	Z	-26.66	4
36	MP2C	Mx	-.012	4
37	MP1A	X	-6.177	1.5
38	MP1A	Z	-10.698	1.5
39	MP1A	Mx	.004	1.5
40	MP1A	X	-6.177	3.5
41	MP1A	Z	-10.698	3.5
42	MP1A	Mx	.004	3.5
43	MP1B	X	-5.77	1.5
44	MP1B	Z	-9.994	1.5
45	MP1B	Mx	.004	1.5
46	MP1B	X	-5.77	3.5
47	MP1B	Z	-9.994	3.5
48	MP1B	Mx	.004	3.5
49	MP1C	X	-3.568	1.5
50	MP1C	Z	-6.181	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	-3.568	3.5
53	MP1C	Z	-6.181	3.5
54	MP1C	Mx	-.004	3.5
55	MP3A	X	-7.327	2
56	MP3A	Z	-12.691	2
57	MP3A	Mx	-.005	2
58	MP3B	X	-7.106	2
59	MP3B	Z	-12.308	2
60	MP3B	Mx	-.005	2
61	MP3C	X	-5.908	2
62	MP3C	Z	-10.233	2
63	MP3C	Mx	.006	2
64	MP2A	X	-7.37	2
65	MP2A	Z	-12.764	2
66	MP2A	Mx	-.005	2
67	MP2B	X	-7.157	2
68	MP2B	Z	-12.396	2
69	MP2B	Mx	-.005	2
70	MP2C	X	-6.007	2
71	MP2C	Z	-10.404	2
72	MP2C	Mx	.006	2
73	M101A	X	-17.22	1
74	M101A	Z	-29.826	1
75	M101A	Mx	0	1

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-6.325	1
3	MP2A	Mx	-.004	1
4	MP2A	X	0	4
5	MP2A	Z	-6.325	4
6	MP2A	Mx	-.004	4
7	MP2B	X	0	1
8	MP2B	Z	-4.877	1
9	MP2B	Mx	.003	1
10	MP2B	X	0	4
11	MP2B	Z	-4.877	4
12	MP2B	Mx	.003	4
13	MP2C	X	0	1
14	MP2C	Z	-4.957	1
15	MP2C	Mx	-.001	1
16	MP2C	X	0	4
17	MP2C	Z	-4.957	4
18	MP2C	Mx	-.001	4
19	MP2A	X	0	1
20	MP2A	Z	-6.325	1
21	MP2A	Mx	.005	1
22	MP2A	X	0	4
23	MP2A	Z	-6.325	4
24	MP2A	Mx	.005	4
25	MP2B	X	0	1
26	MP2B	Z	-4.877	1
27	MP2B	Mx	.002	1
28	MP2B	X	0	4
29	MP2B	Z	-4.877	4
30	MP2B	Mx	.002	4
31	MP2C	X	0	1
32	MP2C	Z	-4.957	1
33	MP2C	Mx	-.003	1
34	MP2C	X	0	4
35	MP2C	Z	-4.957	4
36	MP2C	Mx	-.003	4
37	MP1A	X	0	1.5
38	MP1A	Z	-5.012	1.5
39	MP1A	Mx	.000435	1.5
40	MP1A	X	0	3.5
41	MP1A	Z	-5.012	3.5
42	MP1A	Mx	.000435	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	-2.177	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	-2.177	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	-2.334	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	-2.334	3.5
54	MP1C	Mx	-.001	3.5
55	MP3A	X	0	2
56	MP3A	Z	-4.135	2
57	MP3A	Mx	-.000359	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP3B	X	0	2
59	MP3B	Z	-2.895	2
60	MP3B	Mx	-.001	2
61	MP3C	X	0	2
62	MP3C	Z	-2.963	2
63	MP3C	Mx	.001	2
64	MP2A	X	0	2
65	MP2A	Z	-4.991	2
66	MP2A	Mx	-.000433	2
67	MP2B	X	0	2
68	MP2B	Z	-3.543	2
69	MP2B	Mx	-.002	2
70	MP2C	X	0	2
71	MP2C	Z	-3.623	2
72	MP2C	Mx	.002	2
73	M101A	X	0	1
74	M101A	Z	-8.03	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.093	1
2	MP2A	Z	-5.357	1
3	MP2A	Mx	-.005	1
4	MP2A	X	3.093	4
5	MP2A	Z	-5.357	4
6	MP2A	Mx	-.005	4
7	MP2B	X	2.439	1
8	MP2B	Z	-4.224	1
9	MP2B	Mx	.002	1
10	MP2B	X	2.439	4
11	MP2B	Z	-4.224	4
12	MP2B	Mx	.002	4
13	MP2C	X	2.855	1
14	MP2C	Z	-4.945	1
15	MP2C	Mx	.001	1
16	MP2C	X	2.855	4
17	MP2C	Z	-4.945	4
18	MP2C	Mx	.001	4
19	MP2A	X	3.093	1
20	MP2A	Z	-5.357	1
21	MP2A	Mx	.003	1
22	MP2A	X	3.093	4
23	MP2A	Z	-5.357	4
24	MP2A	Mx	.003	4
25	MP2B	X	2.439	1
26	MP2B	Z	-4.224	1
27	MP2B	Mx	.003	1
28	MP2B	X	2.439	4
29	MP2B	Z	-4.224	4
30	MP2B	Mx	.003	4
31	MP2C	X	2.855	1
32	MP2C	Z	-4.945	1
33	MP2C	Mx	-.005	1
34	MP2C	X	2.855	4
35	MP2C	Z	-4.945	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.005	4
37	MP1A	X	2.37	1.5
38	MP1A	Z	-4.104	1.5
39	MP1A	Mx	-.000811	1.5
40	MP1A	X	2.37	3.5
41	MP1A	Z	-4.104	3.5
42	MP1A	Mx	-.000811	3.5
43	MP1B	X	1.089	1.5
44	MP1B	Z	-1.885	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	1.089	3.5
47	MP1B	Z	-1.885	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	1.905	1.5
50	MP1C	Z	-3.299	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	1.905	3.5
53	MP1C	Z	-3.299	3.5
54	MP1C	Mx	-.001	3.5
55	MP3A	X	2.008	2
56	MP3A	Z	-3.478	2
57	MP3A	Mx	.000687	2
58	MP3B	X	1.447	2
59	MP3B	Z	-2.507	2
60	MP3B	Mx	-.001	2
61	MP3C	X	1.804	2
62	MP3C	Z	-3.125	2
63	MP3C	Mx	.001	2
64	MP2A	X	2.426	2
65	MP2A	Z	-4.202	2
66	MP2A	Mx	.00083	2
67	MP2B	X	1.772	2
68	MP2B	Z	-3.068	2
69	MP2B	Mx	-.002	2
70	MP2C	X	2.188	2
71	MP2C	Z	-3.79	2
72	MP2C	Mx	.001	2
73	M101A	X	3.503	1
74	M101A	Z	-6.068	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.704	1
2	MP2A	Z	-2.716	1
3	MP2A	Mx	-.004	1
4	MP2A	X	4.704	4
5	MP2A	Z	-2.716	4
6	MP2A	Mx	-.004	4
7	MP2B	X	4.825	1
8	MP2B	Z	-2.786	1
9	MP2B	Mx	-.000656	1
10	MP2B	X	4.825	4
11	MP2B	Z	-2.786	4
12	MP2B	Mx	-.000656	4
13	MP2C	X	5.477	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP2C	Z	-3.162	1
15	MP2C	Mx	.004	1
16	MP2C	X	5.477	4
17	MP2C	Z	-3.162	4
18	MP2C	Mx	.004	4
19	MP2A	X	4.704	1
20	MP2A	Z	-2.716	1
21	MP2A	Mx	.000247	1
22	MP2A	X	4.704	4
23	MP2A	Z	-2.716	4
24	MP2A	Mx	.000247	4
25	MP2B	X	4.825	1
26	MP2B	Z	-2.786	1
27	MP2B	Mx	.005	1
28	MP2B	X	4.825	4
29	MP2B	Z	-2.786	4
30	MP2B	Mx	.005	4
31	MP2C	X	5.477	1
32	MP2C	Z	-3.162	1
33	MP2C	Mx	-.005	1
34	MP2C	X	5.477	4
35	MP2C	Z	-3.162	4
36	MP2C	Mx	-.005	4
37	MP1A	X	2.827	1.5
38	MP1A	Z	-1.632	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	2.827	3.5
41	MP1A	Z	-1.632	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	3.063	1.5
44	MP1B	Z	-1.768	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	3.063	3.5
47	MP1B	Z	-1.768	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	4.34	1.5
50	MP1C	Z	-2.506	1.5
51	MP1C	Mx	-.000435	1.5
52	MP1C	X	4.34	3.5
53	MP1C	Z	-2.506	3.5
54	MP1C	Mx	-.000435	3.5
55	MP3A	X	2.919	2
56	MP3A	Z	-1.685	2
57	MP3A	Mx	.001	2
58	MP3B	X	3.022	2
59	MP3B	Z	-1.745	2
60	MP3B	Mx	-.001	2
61	MP3C	X	3.581	2
62	MP3C	Z	-2.068	2
63	MP3C	Mx	.000359	2
64	MP2A	X	3.549	2
65	MP2A	Z	-2.049	2
66	MP2A	Mx	.002	2
67	MP2B	X	3.67	2
68	MP2B	Z	-2.119	2
69	MP2B	Mx	-.001	2
70	MP2C	X	4.322	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP2C	Z	-2.495	2
72	MP2C	Mx	.000433	2
73	M101A	X	5.624	1
74	M101A	Z	-3.247	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.818	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.003	1
4	MP2A	X	4.818	4
5	MP2A	Z	0	4
6	MP2A	Mx	-.003	4
7	MP2B	X	6.266	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.003	1
10	MP2B	X	6.266	4
11	MP2B	Z	0	4
12	MP2B	Mx	-.003	4
13	MP2C	X	6.185	1
14	MP2C	Z	0	1
15	MP2C	Mx	.005	1
16	MP2C	X	6.185	4
17	MP2C	Z	0	4
18	MP2C	Mx	.005	4
19	MP2A	X	4.818	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.002	1
22	MP2A	X	4.818	4
23	MP2A	Z	0	4
24	MP2A	Mx	-.002	4
25	MP2B	X	6.266	1
26	MP2B	Z	0	1
27	MP2B	Mx	.005	1
28	MP2B	X	6.266	4
29	MP2B	Z	0	4
30	MP2B	Mx	.005	4
31	MP2C	X	6.185	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.003	1
34	MP2C	X	6.185	4
35	MP2C	Z	0	4
36	MP2C	Mx	-.003	4
37	MP1A	X	2.061	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	2.061	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	4.896	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	.000634	1.5
46	MP1B	X	4.896	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	.000634	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP1C	X	4.739	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	.00081	1.5
52	MP1C	X	4.739	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	.00081	3.5
55	MP3A	X	2.844	2
56	MP3A	Z	0	2
57	MP3A	Mx	.001	2
58	MP3B	X	4.085	2
59	MP3B	Z	0	2
60	MP3B	Mx	-.000529	2
61	MP3C	X	4.016	2
62	MP3C	Z	0	2
63	MP3C	Mx	-.000687	2
64	MP2A	X	3.484	2
65	MP2A	Z	0	2
66	MP2A	Mx	.002	2
67	MP2B	X	4.932	2
68	MP2B	Z	0	2
69	MP2B	Mx	-.000638	2
70	MP2C	X	4.852	2
71	MP2C	Z	0	2
72	MP2C	Mx	-.00083	2
73	M101A	X	7.006	1
74	M101A	Z	0	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.293	1
2	MP2A	Z	2.479	1
3	MP2A	Mx	-.001	1
4	MP2A	X	4.293	4
5	MP2A	Z	2.479	4
6	MP2A	Mx	-.001	4
7	MP2B	X	5.426	1
8	MP2B	Z	3.133	1
9	MP2B	Mx	-.005	1
10	MP2B	X	5.426	4
11	MP2B	Z	3.133	4
12	MP2B	Mx	-.005	4
13	MP2C	X	4.704	1
14	MP2C	Z	2.716	1
15	MP2C	Mx	.004	1
16	MP2C	X	4.704	4
17	MP2C	Z	2.716	4
18	MP2C	Mx	.004	4
19	MP2A	X	4.293	1
20	MP2A	Z	2.479	1
21	MP2A	Mx	-.003	1
22	MP2A	X	4.293	4
23	MP2A	Z	2.479	4
24	MP2A	Mx	-.003	4
25	MP2B	X	5.426	1
26	MP2B	Z	3.133	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	.003	1
28	MP2B	X	5.426	4
29	MP2B	Z	3.133	4
30	MP2B	Mx	.003	4
31	MP2C	X	4.704	1
32	MP2C	Z	2.716	1
33	MP2C	Mx	-.000247	1
34	MP2C	X	4.704	4
35	MP2C	Z	2.716	4
36	MP2C	Mx	-.000247	4
37	MP1A	X	2.021	1.5
38	MP1A	Z	1.167	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	2.021	3.5
41	MP1A	Z	1.167	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	4.24	1.5
44	MP1B	Z	2.448	1.5
45	MP1B	Mx	-.000634	1.5
46	MP1B	X	4.24	3.5
47	MP1B	Z	2.448	3.5
48	MP1B	Mx	-.000634	3.5
49	MP1C	X	2.827	1.5
50	MP1C	Z	1.632	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	2.827	3.5
53	MP1C	Z	1.632	3.5
54	MP1C	Mx	.001	3.5
55	MP3A	X	2.566	2
56	MP3A	Z	1.482	2
57	MP3A	Mx	.001	2
58	MP3B	X	3.537	2
59	MP3B	Z	2.042	2
60	MP3B	Mx	.000528	2
61	MP3C	X	2.919	2
62	MP3C	Z	1.685	2
63	MP3C	Mx	-.001	2
64	MP2A	X	3.138	2
65	MP2A	Z	1.812	2
66	MP2A	Mx	.002	2
67	MP2B	X	4.271	2
68	MP2B	Z	2.466	2
69	MP2B	Mx	.000638	2
70	MP2C	X	3.549	2
71	MP2C	Z	2.049	2
72	MP2C	Mx	-.002	2
73	M101A	X	6.954	1
74	M101A	Z	4.015	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.855	1
2	MP2A	Z	4.945	1
3	MP2A	Mx	.001	1
4	MP2A	X	2.855	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2A	Z	4.945	4
6	MP2A	Mx	.001	4
7	MP2B	X	2.786	1
8	MP2B	Z	4.825	1
9	MP2B	Mx	-.005	1
10	MP2B	X	2.786	4
11	MP2B	Z	4.825	4
12	MP2B	Mx	-.005	4
13	MP2C	X	2.409	1
14	MP2C	Z	4.172	1
15	MP2C	Mx	.003	1
16	MP2C	X	2.409	4
17	MP2C	Z	4.172	4
18	MP2C	Mx	.003	4
19	MP2A	X	2.855	1
20	MP2A	Z	4.945	1
21	MP2A	Mx	-.005	1
22	MP2A	X	2.855	4
23	MP2A	Z	4.945	4
24	MP2A	Mx	-.005	4
25	MP2B	X	2.786	1
26	MP2B	Z	4.825	1
27	MP2B	Mx	.000657	1
28	MP2B	X	2.786	4
29	MP2B	Z	4.825	4
30	MP2B	Mx	.000657	4
31	MP2C	X	2.409	1
32	MP2C	Z	4.172	1
33	MP2C	Mx	.002	1
34	MP2C	X	2.409	4
35	MP2C	Z	4.172	4
36	MP2C	Mx	.002	4
37	MP1A	X	1.905	1.5
38	MP1A	Z	3.299	1.5
39	MP1A	Mx	-.001	1.5
40	MP1A	X	1.905	3.5
41	MP1A	Z	3.299	3.5
42	MP1A	Mx	-.001	3.5
43	MP1B	X	1.768	1.5
44	MP1B	Z	3.063	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	1.768	3.5
47	MP1B	Z	3.063	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	1.031	1.5
50	MP1C	Z	1.785	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	1.031	3.5
53	MP1C	Z	1.785	3.5
54	MP1C	Mx	.001	3.5
55	MP3A	X	1.804	2
56	MP3A	Z	3.125	2
57	MP3A	Mx	.001	2
58	MP3B	X	1.745	2
59	MP3B	Z	3.022	2
60	MP3B	Mx	.001	2
61	MP3C	X	1.422	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP3C	Z	2.463	2
63	MP3C	Mx	-.001	2
64	MP2A	X	2.188	2
65	MP2A	Z	3.79	2
66	MP2A	Mx	.001	2
67	MP2B	X	2.119	2
68	MP2B	Z	3.67	2
69	MP2B	Mx	.001	2
70	MP2C	X	1.742	2
71	MP2C	Z	3.017	2
72	MP2C	Mx	-.002	2
73	M101A	X	4.271	1
74	M101A	Z	7.398	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	6.325	1
3	MP2A	Mx	.004	1
4	MP2A	X	0	4
5	MP2A	Z	6.325	4
6	MP2A	Mx	.004	4
7	MP2B	X	0	1
8	MP2B	Z	4.877	1
9	MP2B	Mx	-.003	1
10	MP2B	X	0	4
11	MP2B	Z	4.877	4
12	MP2B	Mx	-.003	4
13	MP2C	X	0	1
14	MP2C	Z	4.957	1
15	MP2C	Mx	.001	1
16	MP2C	X	0	4
17	MP2C	Z	4.957	4
18	MP2C	Mx	.001	4
19	MP2A	X	0	1
20	MP2A	Z	6.325	1
21	MP2A	Mx	-.005	1
22	MP2A	X	0	4
23	MP2A	Z	6.325	4
24	MP2A	Mx	-.005	4
25	MP2B	X	0	1
26	MP2B	Z	4.877	1
27	MP2B	Mx	-.002	1
28	MP2B	X	0	4
29	MP2B	Z	4.877	4
30	MP2B	Mx	-.002	4
31	MP2C	X	0	1
32	MP2C	Z	4.957	1
33	MP2C	Mx	.003	1
34	MP2C	X	0	4
35	MP2C	Z	4.957	4
36	MP2C	Mx	.003	4
37	MP1A	X	0	1.5
38	MP1A	Z	5.012	1.5
39	MP1A	Mx	-.000435	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	X	0	3.5
41	MP1A	Z	5.012	3.5
42	MP1A	Mx	-.000435	3.5
43	MP1B	X	0	1.5
44	MP1B	Z	2.177	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	0	3.5
47	MP1B	Z	2.177	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	0	1.5
50	MP1C	Z	2.334	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	0	3.5
53	MP1C	Z	2.334	3.5
54	MP1C	Mx	.001	3.5
55	MP3A	X	0	2
56	MP3A	Z	4.135	2
57	MP3A	Mx	.000359	2
58	MP3B	X	0	2
59	MP3B	Z	2.895	2
60	MP3B	Mx	.001	2
61	MP3C	X	0	2
62	MP3C	Z	2.963	2
63	MP3C	Mx	-.001	2
64	MP2A	X	0	2
65	MP2A	Z	4.991	2
66	MP2A	Mx	.000433	2
67	MP2B	X	0	2
68	MP2B	Z	3.543	2
69	MP2B	Mx	.002	2
70	MP2C	X	0	2
71	MP2C	Z	3.623	2
72	MP2C	Mx	-.002	2
73	M101A	X	0	1
74	M101A	Z	8.03	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.093	1
2	MP2A	Z	5.357	1
3	MP2A	Mx	.005	1
4	MP2A	X	-3.093	4
5	MP2A	Z	5.357	4
6	MP2A	Mx	.005	4
7	MP2B	X	-2.439	1
8	MP2B	Z	4.224	1
9	MP2B	Mx	-.002	1
10	MP2B	X	-2.439	4
11	MP2B	Z	4.224	4
12	MP2B	Mx	-.002	4
13	MP2C	X	-2.855	1
14	MP2C	Z	4.945	1
15	MP2C	Mx	-.001	1
16	MP2C	X	-2.855	4
17	MP2C	Z	4.945	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	-.001	4
19	MP2A	X	-3.093	1
20	MP2A	Z	5.357	1
21	MP2A	Mx	-.003	1
22	MP2A	X	-3.093	4
23	MP2A	Z	5.357	4
24	MP2A	Mx	-.003	4
25	MP2B	X	-2.439	1
26	MP2B	Z	4.224	1
27	MP2B	Mx	-.003	1
28	MP2B	X	-2.439	4
29	MP2B	Z	4.224	4
30	MP2B	Mx	-.003	4
31	MP2C	X	-2.855	1
32	MP2C	Z	4.945	1
33	MP2C	Mx	.005	1
34	MP2C	X	-2.855	4
35	MP2C	Z	4.945	4
36	MP2C	Mx	.005	4
37	MP1A	X	-2.37	1.5
38	MP1A	Z	4.104	1.5
39	MP1A	Mx	.000811	1.5
40	MP1A	X	-2.37	3.5
41	MP1A	Z	4.104	3.5
42	MP1A	Mx	.000811	3.5
43	MP1B	X	-1.089	1.5
44	MP1B	Z	1.885	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	-1.089	3.5
47	MP1B	Z	1.885	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	-1.905	1.5
50	MP1C	Z	3.299	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	-1.905	3.5
53	MP1C	Z	3.299	3.5
54	MP1C	Mx	.001	3.5
55	MP3A	X	-2.008	2
56	MP3A	Z	3.478	2
57	MP3A	Mx	-.000687	2
58	MP3B	X	-1.447	2
59	MP3B	Z	2.507	2
60	MP3B	Mx	.001	2
61	MP3C	X	-1.804	2
62	MP3C	Z	3.125	2
63	MP3C	Mx	-.001	2
64	MP2A	X	-2.426	2
65	MP2A	Z	4.202	2
66	MP2A	Mx	-.00083	2
67	MP2B	X	-1.772	2
68	MP2B	Z	3.068	2
69	MP2B	Mx	.002	2
70	MP2C	X	-2.188	2
71	MP2C	Z	3.79	2
72	MP2C	Mx	-.001	2
73	M101A	X	-3.503	1
74	M101A	Z	6.068	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.704	1
2	MP2A	Z	2.716	1
3	MP2A	Mx	.004	1
4	MP2A	X	-4.704	4
5	MP2A	Z	2.716	4
6	MP2A	Mx	.004	4
7	MP2B	X	-4.825	1
8	MP2B	Z	2.786	1
9	MP2B	Mx	.000656	1
10	MP2B	X	-4.825	4
11	MP2B	Z	2.786	4
12	MP2B	Mx	.000656	4
13	MP2C	X	-5.477	1
14	MP2C	Z	3.162	1
15	MP2C	Mx	-.004	1
16	MP2C	X	-5.477	4
17	MP2C	Z	3.162	4
18	MP2C	Mx	-.004	4
19	MP2A	X	-4.704	1
20	MP2A	Z	2.716	1
21	MP2A	Mx	-.000247	1
22	MP2A	X	-4.704	4
23	MP2A	Z	2.716	4
24	MP2A	Mx	-.000247	4
25	MP2B	X	-4.825	1
26	MP2B	Z	2.786	1
27	MP2B	Mx	-.005	1
28	MP2B	X	-4.825	4
29	MP2B	Z	2.786	4
30	MP2B	Mx	-.005	4
31	MP2C	X	-5.477	1
32	MP2C	Z	3.162	1
33	MP2C	Mx	.005	1
34	MP2C	X	-5.477	4
35	MP2C	Z	3.162	4
36	MP2C	Mx	.005	4
37	MP1A	X	-2.827	1.5
38	MP1A	Z	1.632	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.827	3.5
41	MP1A	Z	1.632	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-3.063	1.5
44	MP1B	Z	1.768	1.5
45	MP1B	Mx	-.001	1.5
46	MP1B	X	-3.063	3.5
47	MP1B	Z	1.768	3.5
48	MP1B	Mx	-.001	3.5
49	MP1C	X	-4.34	1.5
50	MP1C	Z	2.506	1.5
51	MP1C	Mx	.000435	1.5
52	MP1C	X	-4.34	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1C	Z	2.506	3.5
54	MP1C	Mx	.000435	3.5
55	MP3A	X	-2.919	2
56	MP3A	Z	1.685	2
57	MP3A	Mx	-.001	2
58	MP3B	X	-3.022	2
59	MP3B	Z	1.745	2
60	MP3B	Mx	.001	2
61	MP3C	X	-3.581	2
62	MP3C	Z	2.068	2
63	MP3C	Mx	-.000359	2
64	MP2A	X	-3.549	2
65	MP2A	Z	2.049	2
66	MP2A	Mx	-.002	2
67	MP2B	X	-3.67	2
68	MP2B	Z	2.119	2
69	MP2B	Mx	.001	2
70	MP2C	X	-4.322	2
71	MP2C	Z	2.495	2
72	MP2C	Mx	-.000433	2
73	M101A	X	-5.624	1
74	M101A	Z	3.247	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.818	1
2	MP2A	Z	0	1
3	MP2A	Mx	.003	1
4	MP2A	X	-4.818	4
5	MP2A	Z	0	4
6	MP2A	Mx	.003	4
7	MP2B	X	-6.266	1
8	MP2B	Z	0	1
9	MP2B	Mx	.003	1
10	MP2B	X	-6.266	4
11	MP2B	Z	0	4
12	MP2B	Mx	.003	4
13	MP2C	X	-6.185	1
14	MP2C	Z	0	1
15	MP2C	Mx	-.005	1
16	MP2C	X	-6.185	4
17	MP2C	Z	0	4
18	MP2C	Mx	-.005	4
19	MP2A	X	-4.818	1
20	MP2A	Z	0	1
21	MP2A	Mx	.002	1
22	MP2A	X	-4.818	4
23	MP2A	Z	0	4
24	MP2A	Mx	.002	4
25	MP2B	X	-6.266	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.005	1
28	MP2B	X	-6.266	4
29	MP2B	Z	0	4
30	MP2B	Mx	-.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	-6.185	1
32	MP2C	Z	0	1
33	MP2C	Mx	.003	1
34	MP2C	X	-6.185	4
35	MP2C	Z	0	4
36	MP2C	Mx	.003	4
37	MP1A	X	-2.061	1.5
38	MP1A	Z	0	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.061	3.5
41	MP1A	Z	0	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-4.896	1.5
44	MP1B	Z	0	1.5
45	MP1B	Mx	-.000634	1.5
46	MP1B	X	-4.896	3.5
47	MP1B	Z	0	3.5
48	MP1B	Mx	-.000634	3.5
49	MP1C	X	-4.739	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	-.00081	1.5
52	MP1C	X	-4.739	3.5
53	MP1C	Z	0	3.5
54	MP1C	Mx	-.00081	3.5
55	MP3A	X	-2.844	2
56	MP3A	Z	0	2
57	MP3A	Mx	-.001	2
58	MP3B	X	-4.085	2
59	MP3B	Z	0	2
60	MP3B	Mx	.000529	2
61	MP3C	X	-4.016	2
62	MP3C	Z	0	2
63	MP3C	Mx	.000687	2
64	MP2A	X	-3.484	2
65	MP2A	Z	0	2
66	MP2A	Mx	-.002	2
67	MP2B	X	-4.932	2
68	MP2B	Z	0	2
69	MP2B	Mx	.000638	2
70	MP2C	X	-4.852	2
71	MP2C	Z	0	2
72	MP2C	Mx	.00083	2
73	M101A	X	-7.006	1
74	M101A	Z	0	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.293	1
2	MP2A	Z	-2.479	1
3	MP2A	Mx	.001	1
4	MP2A	X	-4.293	4
5	MP2A	Z	-2.479	4
6	MP2A	Mx	.001	4
7	MP2B	X	-5.426	1
8	MP2B	Z	-3.133	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2B	Mx	.005	1
10	MP2B	X	-5.426	4
11	MP2B	Z	-3.133	4
12	MP2B	Mx	.005	4
13	MP2C	X	-4.704	1
14	MP2C	Z	-2.716	1
15	MP2C	Mx	-.004	1
16	MP2C	X	-4.704	4
17	MP2C	Z	-2.716	4
18	MP2C	Mx	-.004	4
19	MP2A	X	-4.293	1
20	MP2A	Z	-2.479	1
21	MP2A	Mx	.003	1
22	MP2A	X	-4.293	4
23	MP2A	Z	-2.479	4
24	MP2A	Mx	.003	4
25	MP2B	X	-5.426	1
26	MP2B	Z	-3.133	1
27	MP2B	Mx	-.003	1
28	MP2B	X	-5.426	4
29	MP2B	Z	-3.133	4
30	MP2B	Mx	-.003	4
31	MP2C	X	-4.704	1
32	MP2C	Z	-2.716	1
33	MP2C	Mx	.000247	1
34	MP2C	X	-4.704	4
35	MP2C	Z	-2.716	4
36	MP2C	Mx	.000247	4
37	MP1A	X	-2.021	1.5
38	MP1A	Z	-1.167	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-2.021	3.5
41	MP1A	Z	-1.167	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-4.24	1.5
44	MP1B	Z	-2.448	1.5
45	MP1B	Mx	.000634	1.5
46	MP1B	X	-4.24	3.5
47	MP1B	Z	-2.448	3.5
48	MP1B	Mx	.000634	3.5
49	MP1C	X	-2.827	1.5
50	MP1C	Z	-1.632	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	-2.827	3.5
53	MP1C	Z	-1.632	3.5
54	MP1C	Mx	-.001	3.5
55	MP3A	X	-2.566	2
56	MP3A	Z	-1.482	2
57	MP3A	Mx	-.001	2
58	MP3B	X	-3.537	2
59	MP3B	Z	-2.042	2
60	MP3B	Mx	-.000528	2
61	MP3C	X	-2.919	2
62	MP3C	Z	-1.685	2
63	MP3C	Mx	.001	2
64	MP2A	X	-3.138	2
65	MP2A	Z	-1.812	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP2A	Mx	-.002	2
67	MP2B	X	-4.271	2
68	MP2B	Z	-2.466	2
69	MP2B	Mx	-.000638	2
70	MP2C	X	-3.549	2
71	MP2C	Z	-2.049	2
72	MP2C	Mx	.002	2
73	M101A	X	-6.954	1
74	M101A	Z	-4.015	1
75	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.855	1
2	MP2A	Z	-4.945	1
3	MP2A	Mx	-.001	1
4	MP2A	X	-2.855	4
5	MP2A	Z	-4.945	4
6	MP2A	Mx	-.001	4
7	MP2B	X	-2.786	1
8	MP2B	Z	-4.825	1
9	MP2B	Mx	.005	1
10	MP2B	X	-2.786	4
11	MP2B	Z	-4.825	4
12	MP2B	Mx	.005	4
13	MP2C	X	-2.409	1
14	MP2C	Z	-4.172	1
15	MP2C	Mx	-.003	1
16	MP2C	X	-2.409	4
17	MP2C	Z	-4.172	4
18	MP2C	Mx	-.003	4
19	MP2A	X	-2.855	1
20	MP2A	Z	-4.945	1
21	MP2A	Mx	.005	1
22	MP2A	X	-2.855	4
23	MP2A	Z	-4.945	4
24	MP2A	Mx	.005	4
25	MP2B	X	-2.786	1
26	MP2B	Z	-4.825	1
27	MP2B	Mx	-.000657	1
28	MP2B	X	-2.786	4
29	MP2B	Z	-4.825	4
30	MP2B	Mx	-.000657	4
31	MP2C	X	-2.409	1
32	MP2C	Z	-4.172	1
33	MP2C	Mx	-.002	1
34	MP2C	X	-2.409	4
35	MP2C	Z	-4.172	4
36	MP2C	Mx	-.002	4
37	MP1A	X	-1.905	1.5
38	MP1A	Z	-3.299	1.5
39	MP1A	Mx	.001	1.5
40	MP1A	X	-1.905	3.5
41	MP1A	Z	-3.299	3.5
42	MP1A	Mx	.001	3.5
43	MP1B	X	-1.768	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1B	Z	-3.063	1.5
45	MP1B	Mx	.001	1.5
46	MP1B	X	-1.768	3.5
47	MP1B	Z	-3.063	3.5
48	MP1B	Mx	.001	3.5
49	MP1C	X	-1.031	1.5
50	MP1C	Z	-1.785	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	-1.031	3.5
53	MP1C	Z	-1.785	3.5
54	MP1C	Mx	-.001	3.5
55	MP3A	X	-1.804	2
56	MP3A	Z	-3.125	2
57	MP3A	Mx	-.001	2
58	MP3B	X	-1.745	2
59	MP3B	Z	-3.022	2
60	MP3B	Mx	-.001	2
61	MP3C	X	-1.422	2
62	MP3C	Z	-2.463	2
63	MP3C	Mx	.001	2
64	MP2A	X	-2.188	2
65	MP2A	Z	-3.79	2
66	MP2A	Mx	-.001	2
67	MP2B	X	-2.119	2
68	MP2B	Z	-3.67	2
69	MP2B	Mx	-.001	2
70	MP2C	X	-1.742	2
71	MP2C	Z	-3.017	2
72	MP2C	Mx	.002	2
73	M101A	X	-4.271	1
74	M101A	Z	-7.398	1
75	M101A	Mx	0	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M172	Y	-500	%97

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M172	Y	-500	%65

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M172	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M172	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-1.647	1
2	MP2A	My	-.001	1
3	MP2A	Mz	.000939	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	Y	-1.647	4
5	MP2A	My	-.001	4
6	MP2A	Mz	.000939	4
7	MP2B	Y	-1.647	1
8	MP2B	My	-.000848	1
9	MP2B	Mz	-.001	1
10	MP2B	Y	-1.647	4
11	MP2B	My	-.000848	4
12	MP2B	Mz	-.001	4
13	MP2C	Y	-1.647	1
14	MP2C	My	.001	1
15	MP2C	Mz	.000398	1
16	MP2C	Y	-1.647	4
17	MP2C	My	.001	4
18	MP2C	Mz	.000398	4
19	MP2A	Y	-1.647	1
20	MP2A	My	-.00062	1
21	MP2A	Mz	-.001	1
22	MP2A	Y	-1.647	4
23	MP2A	My	-.00062	4
24	MP2A	Mz	-.001	4
25	MP2B	Y	-1.647	1
26	MP2B	My	.001	1
27	MP2B	Mz	-.000511	1
28	MP2B	Y	-1.647	4
29	MP2B	My	.001	4
30	MP2B	Mz	-.000511	4
31	MP2C	Y	-1.647	1
32	MP2C	My	-.00075	1
33	MP2C	Mz	.001	1
34	MP2C	Y	-1.647	4
35	MP2C	My	-.00075	4
36	MP2C	Mz	.001	4
37	MP1A	Y	-1.21	1.5
38	MP1A	My	-.000596	1.5
39	MP1A	Mz	-.000105	1.5
40	MP1A	Y	-1.21	3.5
41	MP1A	My	-.000596	3.5
42	MP1A	Mz	-.000105	3.5
43	MP1B	Y	-1.21	1.5
44	MP1B	My	.000157	1.5
45	MP1B	Mz	-.000584	1.5
46	MP1B	Y	-1.21	3.5
47	MP1B	My	.000157	3.5
48	MP1B	Mz	-.000584	3.5
49	MP1C	Y	-1.21	1.5
50	MP1C	My	.000207	1.5
51	MP1C	Mz	.000569	1.5
52	MP1C	Y	-1.21	3.5
53	MP1C	My	.000207	3.5
54	MP1C	Mz	.000569	3.5
55	MP3A	Y	-3.155	2
56	MP3A	My	.002	2
57	MP3A	Mz	.000274	2
58	MP3B	Y	-3.155	2
59	MP3B	My	-.000408	2
60	MP3B	Mz	.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP3C	Y	-3.155	2
62	MP3C	My	-.00054	2
63	MP3C	Mz	-.001	2
64	MP2A	Y	-3.341	2
65	MP2A	My	.002	2
66	MP2A	Mz	.00029	2
67	MP2B	Y	-3.341	2
68	MP2B	My	-.000432	2
69	MP2B	Mz	.002	2
70	MP2C	Y	-3.341	2
71	MP2C	My	-.000571	2
72	MP2C	Mz	-.002	2
73	M101A	Y	-1.352	1
74	M101A	My	0	1
75	M101A	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Z	-4.118	1
2	MP2A	Mx	-.002	1
3	MP2A	Z	-4.118	4
4	MP2A	Mx	-.002	4
5	MP2B	Z	-4.118	1
6	MP2B	Mx	.003	1
7	MP2B	Z	-4.118	4
8	MP2B	Mx	.003	4
9	MP2C	Z	-4.118	1
10	MP2C	Mx	-.000996	1
11	MP2C	Z	-4.118	4
12	MP2C	Mx	-.000996	4
13	MP2A	Z	-4.118	1
14	MP2A	Mx	.003	1
15	MP2A	Z	-4.118	4
16	MP2A	Mx	.003	4
17	MP2B	Z	-4.118	1
18	MP2B	Mx	.001	1
19	MP2B	Z	-4.118	4
20	MP2B	Mx	.001	4
21	MP2C	Z	-4.118	1
22	MP2C	Mx	-.003	1
23	MP2C	Z	-4.118	4
24	MP2C	Mx	-.003	4
25	MP1A	Z	-3.025	1.5
26	MP1A	Mx	.000263	1.5
27	MP1A	Z	-3.025	3.5
28	MP1A	Mx	.000263	3.5
29	MP1B	Z	-3.025	1.5
30	MP1B	Mx	.001	1.5
31	MP1B	Z	-3.025	3.5
32	MP1B	Mx	.001	3.5
33	MP1C	Z	-3.025	1.5
34	MP1C	Mx	-.001	1.5
35	MP1C	Z	-3.025	3.5
36	MP1C	Mx	-.001	3.5
37	MP3A	Z	-7.888	2
38	MP3A	Mx	-.000685	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP3B	Z	-7.888	2
40	MP3B	Mx	-.004	2
41	MP3C	Z	-7.888	2
42	MP3C	Mx	.004	2
43	MP2A	Z	-8.353	2
44	MP2A	Mx	-.000725	2
45	MP2B	Z	-8.353	2
46	MP2B	Mx	-.004	2
47	MP2C	Z	-8.353	2
48	MP2C	Mx	.004	2
49	M101A	Z	-3.379	1
50	M101A	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.118	1
2	MP2A	Mx	-.003	1
3	MP2A	X	4.118	4
4	MP2A	Mx	-.003	4
5	MP2B	X	4.118	1
6	MP2B	Mx	-.002	1
7	MP2B	X	4.118	4
8	MP2B	Mx	-.002	4
9	MP2C	X	4.118	1
10	MP2C	Mx	.003	1
11	MP2C	X	4.118	4
12	MP2C	Mx	.003	4
13	MP2A	X	4.118	1
14	MP2A	Mx	-.002	1
15	MP2A	X	4.118	4
16	MP2A	Mx	-.002	4
17	MP2B	X	4.118	1
18	MP2B	Mx	.003	1
19	MP2B	X	4.118	4
20	MP2B	Mx	.003	4
21	MP2C	X	4.118	1
22	MP2C	Mx	-.002	1
23	MP2C	X	4.118	4
24	MP2C	Mx	-.002	4
25	MP1A	X	3.025	1.5
26	MP1A	Mx	-.001	1.5
27	MP1A	X	3.025	3.5
28	MP1A	Mx	-.001	3.5
29	MP1B	X	3.025	1.5
30	MP1B	Mx	.000392	1.5
31	MP1B	X	3.025	3.5
32	MP1B	Mx	.000392	3.5
33	MP1C	X	3.025	1.5
34	MP1C	Mx	.000517	1.5
35	MP1C	X	3.025	3.5
36	MP1C	Mx	.000517	3.5
37	MP3A	X	7.888	2
38	MP3A	Mx	.004	2
39	MP3B	X	7.888	2
40	MP3B	Mx	-.001	2
41	MP3C	X	7.888	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP3C	Mx	-.001	2
43	MP2A	X	8.353	2
44	MP2A	Mx	.004	2
45	MP2B	X	8.353	2
46	MP2B	Mx	-.001	2
47	MP2C	X	8.353	2
48	MP2C	Mx	-.001	2
49	M101A	X	3.379	1
50	M101A	Mx	0	1

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	M100	Y	-9.656	-9.656	0	%100
2	M101	Y	-7.653	-7.653	0	%100
3	M102	Y	-7.653	-7.653	0	%100
4	M103	Y	-10.159	-10.159	0	%100
5	M106	Y	-5.65	-5.65	0	%100
6	M107	Y	-5.65	-5.65	0	%100
7	M111	Y	-10.159	-10.159	0	%100
8	M112	Y	-10.159	-10.159	0	%100
9	M114	Y	-10.159	-10.159	0	%100
10	M116	Y	-10.159	-10.159	0	%100
11	M117	Y	-10.159	-10.159	0	%100
12	M119	Y	-10.159	-10.159	0	%100
13	M124	Y	-9.656	-9.656	0	%100
14	M125	Y	-7.653	-7.653	0	%100
15	M126	Y	-7.653	-7.653	0	%100
16	M127	Y	-10.159	-10.159	0	%100
17	M130	Y	-5.65	-5.65	0	%100
18	M131	Y	-5.65	-5.65	0	%100
19	M135	Y	-10.159	-10.159	0	%100
20	M136	Y	-10.159	-10.159	0	%100
21	M138	Y	-10.159	-10.159	0	%100
22	M140	Y	-10.159	-10.159	0	%100
23	M141	Y	-10.159	-10.159	0	%100
24	M143	Y	-10.159	-10.159	0	%100
25	M148	Y	-9.656	-9.656	0	%100
26	M149	Y	-7.653	-7.653	0	%100
27	M150	Y	-7.653	-7.653	0	%100
28	M151	Y	-10.159	-10.159	0	%100
29	M154	Y	-5.65	-5.65	0	%100
30	M155	Y	-5.65	-5.65	0	%100
31	M159	Y	-10.159	-10.159	0	%100
32	M160	Y	-10.159	-10.159	0	%100
33	M162	Y	-10.159	-10.159	0	%100
34	M164	Y	-10.159	-10.159	0	%100
35	M165	Y	-10.159	-10.159	0	%100
36	M167	Y	-10.159	-10.159	0	%100
37	M172	Y	-6.601	-6.601	0	%100
38	MP1A	Y	-5.007	-5.007	0	%100
39	MP2A	Y	-5.716	-5.716	0	%100
40	MP3A	Y	-5.007	-5.007	0	%100
41	MP4A	Y	-5.007	-5.007	0	%100
42	M181	Y	-6.601	-6.601	0	%100
43	MP1C	Y	-5.007	-5.007	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,%]
44	MP2C	Y	-5.716	-5.716	0	%100
45	MP3C	Y	-5.007	-5.007	0	%100
46	MP4C	Y	-5.007	-5.007	0	%100
47	M190	Y	-6.601	-6.601	0	%100
48	MP1B	Y	-5.007	-5.007	0	%100
49	MP2B	Y	-5.716	-5.716	0	%100
50	MP3B	Y	-5.007	-5.007	0	%100
51	MP4B	Y	-5.007	-5.007	0	%100
52	M101A	Y	-5.007	-5.007	0	%100
53	M102A	Y	-7.653	-7.653	0	%100
54	M116A	Y	-5.716	-5.716	0	%100
55	M120A	Y	-5.716	-5.716	0	%100
56	M125A	Y	-5.716	-5.716	0	%100
57	M132A	Y	-10.674	-10.674	0	%100
58	M133A	Y	-10.674	-10.674	0	%100
59	M134A	Y	-10.674	-10.674	0	%100
60	M125B	Y	-7.653	-7.653	0	%100
61	M130A	Y	-7.653	-7.653	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	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	-18.764	-18.764	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	-18.764	-18.764	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	-30.36	-30.36	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	-4.215	-4.215	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	-4.215	-4.215	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	-7.731	-7.731	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	-8.143	-8.143	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	-7.731	-7.731	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	-8.143	-8.143	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	-14.715	-14.715	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	-4.691	-4.691	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	-4.691	-4.691	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	-7.59	-7.59	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	-4.215	-4.215	0	%100
35	M131	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,%]
36	M131	Z	-16.859	-16.859	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	-22.77	-22.77	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	-7.731	-7.731	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	-8.143	-8.143	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	-22.77	-22.77	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	-30.923	-30.923	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	-32.57	-32.57	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	-14.715	-14.715	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	-4.691	-4.691	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	-4.691	-4.691	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	-7.59	-7.59	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	-16.859	-16.859	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	-4.215	-4.215	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	-22.77	-22.77	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	-30.923	-30.923	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	-32.57	-32.57	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	-22.77	-22.77	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	-7.731	-7.731	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	-8.143	-8.143	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	-15.575	-15.575	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-12.018	-12.018	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-14.548	-14.548	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	-12.018	-12.018	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-12.018	-12.018	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	-3.894	-3.894	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	-12.018	-12.018	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	-14.548	-14.548	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-12.018	-12.018	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-12.018	-12.018	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,%]
93	M190	X	0	0	0	%100
94	M190	Z	-3.894	-3.894	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-12.018	-12.018	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-14.548	-14.548	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-12.018	-12.018	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-12.018	-12.018	0	%100
103	M101A	X	0	0	0	%100
104	M101A	Z	-9.827	-9.827	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	-18.466	-18.466	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	-14.548	-14.548	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	-3.637	-3.637	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	-3.637	-3.637	0	%100
113	M132A	X	0	0	0	%100
114	M132A	Z	-19.259	-19.259	0	%100
115	M133A	X	0	0	0	%100
116	M133A	Z	-21.251	-21.251	0	%100
117	M134A	X	0	0	0	%100
118	M134A	Z	-21.251	-21.251	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	-4.616	-4.616	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	-4.616	-4.616	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	M100	X	2.452	2.452	0	%100
2	M100	Z	-4.248	-4.248	0	%100
3	M101	X	7.037	7.037	0	%100
4	M101	Z	-12.188	-12.188	0	%100
5	M102	X	7.037	7.037	0	%100
6	M102	Z	-12.188	-12.188	0	%100
7	M103	X	11.385	11.385	0	%100
8	M103	Z	-19.72	-19.72	0	%100
9	M106	X	6.322	6.322	0	%100
10	M106	Z	-10.95	-10.95	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	3.795	3.795	0	%100
14	M111	Z	-6.573	-6.573	0	%100
15	M112	X	11.596	11.596	0	%100
16	M112	Z	-20.085	-20.085	0	%100
17	M114	X	12.214	12.214	0	%100
18	M114	Z	-21.155	-21.155	0	%100
19	M116	X	3.795	3.795	0	%100
20	M116	Z	-6.573	-6.573	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	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,%]
24	M119	Z	0	0	0	%100
25	M124	X	2.452	2.452	0	%100
26	M124	Z	-4.248	-4.248	0	%100
27	M125	X	7.037	7.037	0	%100
28	M125	Z	-12.188	-12.188	0	%100
29	M126	X	7.037	7.037	0	%100
30	M126	Z	-12.188	-12.188	0	%100
31	M127	X	11.385	11.385	0	%100
32	M127	Z	-19.72	-19.72	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	6.322	6.322	0	%100
36	M131	Z	-10.95	-10.95	0	%100
37	M135	X	3.795	3.795	0	%100
38	M135	Z	-6.573	-6.573	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	3.795	3.795	0	%100
44	M140	Z	-6.573	-6.573	0	%100
45	M141	X	11.596	11.596	0	%100
46	M141	Z	-20.085	-20.085	0	%100
47	M143	X	12.214	12.214	0	%100
48	M143	Z	-21.155	-21.155	0	%100
49	M148	X	9.81	9.81	0	%100
50	M148	Z	-16.991	-16.991	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	6.322	6.322	0	%100
58	M154	Z	-10.95	-10.95	0	%100
59	M155	X	6.322	6.322	0	%100
60	M155	Z	-10.95	-10.95	0	%100
61	M159	X	15.18	15.18	0	%100
62	M159	Z	-26.293	-26.293	0	%100
63	M160	X	11.596	11.596	0	%100
64	M160	Z	-20.085	-20.085	0	%100
65	M162	X	12.214	12.214	0	%100
66	M162	Z	-21.155	-21.155	0	%100
67	M164	X	15.18	15.18	0	%100
68	M164	Z	-26.293	-26.293	0	%100
69	M165	X	11.596	11.596	0	%100
70	M165	Z	-20.085	-20.085	0	%100
71	M167	X	12.214	12.214	0	%100
72	M167	Z	-21.155	-21.155	0	%100
73	M172	X	5.841	5.841	0	%100
74	M172	Z	-10.116	-10.116	0	%100
75	MP1A	X	6.009	6.009	0	%100
76	MP1A	Z	-10.408	-10.408	0	%100
77	MP2A	X	7.274	7.274	0	%100
78	MP2A	Z	-12.599	-12.599	0	%100
79	MP3A	X	6.009	6.009	0	%100
80	MP3A	Z	-10.408	-10.408	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,%]
81	MP4A	X	6.009	6.009	0	%100
82	MP4A	Z	-10.408	-10.408	0	%100
83	M181	X	5.841	5.841	0	%100
84	M181	Z	-10.116	-10.116	0	%100
85	MP1C	X	6.009	6.009	0	%100
86	MP1C	Z	-10.408	-10.408	0	%100
87	MP2C	X	7.274	7.274	0	%100
88	MP2C	Z	-12.599	-12.599	0	%100
89	MP3C	X	6.009	6.009	0	%100
90	MP3C	Z	-10.408	-10.408	0	%100
91	MP4C	X	6.009	6.009	0	%100
92	MP4C	Z	-10.408	-10.408	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	6.009	6.009	0	%100
96	MP1B	Z	-10.408	-10.408	0	%100
97	MP2B	X	7.274	7.274	0	%100
98	MP2B	Z	-12.599	-12.599	0	%100
99	MP3B	X	6.009	6.009	0	%100
100	MP3B	Z	-10.408	-10.408	0	%100
101	MP4B	X	6.009	6.009	0	%100
102	MP4B	Z	-10.408	-10.408	0	%100
103	M101A	X	4.914	4.914	0	%100
104	M101A	Z	-8.511	-8.511	0	%100
105	M102A	X	6.925	6.925	0	%100
106	M102A	Z	-11.994	-11.994	0	%100
107	M116A	X	5.455	5.455	0	%100
108	M116A	Z	-9.449	-9.449	0	%100
109	M120A	X	5.455	5.455	0	%100
110	M120A	Z	-9.449	-9.449	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	9.961	9.961	0	%100
114	M132A	Z	-17.254	-17.254	0	%100
115	M133A	X	9.961	9.961	0	%100
116	M133A	Z	-17.254	-17.254	0	%100
117	M134A	X	10.957	10.957	0	%100
118	M134A	Z	-18.979	-18.979	0	%100
119	M125B	X	6.925	6.925	0	%100
120	M125B	Z	-11.994	-11.994	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M100	X	12.743	12.743	0	%100
2	M100	Z	-7.357	-7.357	0	%100
3	M101	X	4.063	4.063	0	%100
4	M101	Z	-2.346	-2.346	0	%100
5	M102	X	4.063	4.063	0	%100
6	M102	Z	-2.346	-2.346	0	%100
7	M103	X	6.573	6.573	0	%100
8	M103	Z	-3.795	-3.795	0	%100
9	M106	X	14.6	14.6	0	%100
10	M106	Z	-8.429	-8.429	0	%100
11	M107	X	3.65	3.65	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,%]
12	M107	Z	-2.107	-2.107	0	%100
13	M111	X	19.72	19.72	0	%100
14	M111	Z	-11.385	-11.385	0	%100
15	M112	X	26.78	26.78	0	%100
16	M112	Z	-15.461	-15.461	0	%100
17	M114	X	28.206	28.206	0	%100
18	M114	Z	-16.285	-16.285	0	%100
19	M116	X	19.72	19.72	0	%100
20	M116	Z	-11.385	-11.385	0	%100
21	M117	X	6.695	6.695	0	%100
22	M117	Z	-3.865	-3.865	0	%100
23	M119	X	7.052	7.052	0	%100
24	M119	Z	-4.071	-4.071	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	16.25	16.25	0	%100
28	M125	Z	-9.382	-9.382	0	%100
29	M126	X	16.25	16.25	0	%100
30	M126	Z	-9.382	-9.382	0	%100
31	M127	X	26.293	26.293	0	%100
32	M127	Z	-15.18	-15.18	0	%100
33	M130	X	3.65	3.65	0	%100
34	M130	Z	-2.107	-2.107	0	%100
35	M131	X	3.65	3.65	0	%100
36	M131	Z	-2.107	-2.107	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	6.695	6.695	0	%100
40	M136	Z	-3.865	-3.865	0	%100
41	M138	X	7.052	7.052	0	%100
42	M138	Z	-4.071	-4.071	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	6.695	6.695	0	%100
46	M141	Z	-3.865	-3.865	0	%100
47	M143	X	7.052	7.052	0	%100
48	M143	Z	-4.071	-4.071	0	%100
49	M148	X	12.743	12.743	0	%100
50	M148	Z	-7.357	-7.357	0	%100
51	M149	X	4.063	4.063	0	%100
52	M149	Z	-2.346	-2.346	0	%100
53	M150	X	4.063	4.063	0	%100
54	M150	Z	-2.346	-2.346	0	%100
55	M151	X	6.573	6.573	0	%100
56	M151	Z	-3.795	-3.795	0	%100
57	M154	X	3.65	3.65	0	%100
58	M154	Z	-2.107	-2.107	0	%100
59	M155	X	14.6	14.6	0	%100
60	M155	Z	-8.429	-8.429	0	%100
61	M159	X	19.72	19.72	0	%100
62	M159	Z	-11.385	-11.385	0	%100
63	M160	X	6.695	6.695	0	%100
64	M160	Z	-3.865	-3.865	0	%100
65	M162	X	7.052	7.052	0	%100
66	M162	Z	-4.071	-4.071	0	%100
67	M164	X	19.72	19.72	0	%100
68	M164	Z	-11.385	-11.385	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,%]
69	M165	X	26.78	26.78	0	%100
70	M165	Z	-15.461	-15.461	0	%100
71	M167	X	28.206	28.206	0	%100
72	M167	Z	-16.285	-16.285	0	%100
73	M172	X	3.372	3.372	0	%100
74	M172	Z	-1.947	-1.947	0	%100
75	MP1A	X	10.408	10.408	0	%100
76	MP1A	Z	-6.009	-6.009	0	%100
77	MP2A	X	12.599	12.599	0	%100
78	MP2A	Z	-7.274	-7.274	0	%100
79	MP3A	X	10.408	10.408	0	%100
80	MP3A	Z	-6.009	-6.009	0	%100
81	MP4A	X	10.408	10.408	0	%100
82	MP4A	Z	-6.009	-6.009	0	%100
83	M181	X	13.488	13.488	0	%100
84	M181	Z	-7.787	-7.787	0	%100
85	MP1C	X	10.408	10.408	0	%100
86	MP1C	Z	-6.009	-6.009	0	%100
87	MP2C	X	12.599	12.599	0	%100
88	MP2C	Z	-7.274	-7.274	0	%100
89	MP3C	X	10.408	10.408	0	%100
90	MP3C	Z	-6.009	-6.009	0	%100
91	MP4C	X	10.408	10.408	0	%100
92	MP4C	Z	-6.009	-6.009	0	%100
93	M190	X	3.372	3.372	0	%100
94	M190	Z	-1.947	-1.947	0	%100
95	MP1B	X	10.408	10.408	0	%100
96	MP1B	Z	-6.009	-6.009	0	%100
97	MP2B	X	12.599	12.599	0	%100
98	MP2B	Z	-7.274	-7.274	0	%100
99	MP3B	X	10.408	10.408	0	%100
100	MP3B	Z	-6.009	-6.009	0	%100
101	MP4B	X	10.408	10.408	0	%100
102	MP4B	Z	-6.009	-6.009	0	%100
103	M101A	X	8.511	8.511	0	%100
104	M101A	Z	-4.914	-4.914	0	%100
105	M102A	X	3.998	3.998	0	%100
106	M102A	Z	-2.308	-2.308	0	%100
107	M116A	X	3.15	3.15	0	%100
108	M116A	Z	-1.818	-1.818	0	%100
109	M120A	X	12.599	12.599	0	%100
110	M120A	Z	-7.274	-7.274	0	%100
111	M125A	X	3.15	3.15	0	%100
112	M125A	Z	-1.818	-1.818	0	%100
113	M132A	X	18.404	18.404	0	%100
114	M132A	Z	-10.625	-10.625	0	%100
115	M133A	X	16.679	16.679	0	%100
116	M133A	Z	-9.629	-9.629	0	%100
117	M134A	X	18.404	18.404	0	%100
118	M134A	Z	-10.625	-10.625	0	%100
119	M125B	X	15.992	15.992	0	%100
120	M125B	Z	-9.233	-9.233	0	%100
121	M130A	X	3.998	3.998	0	%100
122	M130A	Z	-2.308	-2.308	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,%]

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,%]
1	M100	X	19.62	19.62	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	12.644	12.644	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	12.644	12.644	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	30.36	30.36	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	23.192	23.192	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	24.428	24.428	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	30.36	30.36	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	23.192	23.192	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	24.428	24.428	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	4.905	4.905	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	14.073	14.073	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	14.073	14.073	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	22.77	22.77	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	12.644	12.644	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	7.59	7.59	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	23.192	23.192	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	24.428	24.428	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	7.59	7.59	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	4.905	4.905	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	14.073	14.073	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	14.073	14.073	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	22.77	22.77	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M154	Z	0	0	0	%100
59	M155	X	12.644	12.644	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	7.59	7.59	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	7.59	7.59	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	23.192	23.192	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	24.428	24.428	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	12.018	12.018	0	%100
76	MP1A	Z	0	0	0	%100
77	MP2A	X	14.548	14.548	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	12.018	12.018	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	12.018	12.018	0	%100
82	MP4A	Z	0	0	0	%100
83	M181	X	11.681	11.681	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	12.018	12.018	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	14.548	14.548	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	12.018	12.018	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	12.018	12.018	0	%100
92	MP4C	Z	0	0	0	%100
93	M190	X	11.681	11.681	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	12.018	12.018	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	14.548	14.548	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	12.018	12.018	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	12.018	12.018	0	%100
102	MP4B	Z	0	0	0	%100
103	M101A	X	9.827	9.827	0	%100
104	M101A	Z	0	0	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	0	0	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	0	0	0	%100
109	M120A	X	10.911	10.911	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	10.911	10.911	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	21.915	21.915	0	%100
114	M132A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M133A	X	19.923	19.923	0	%100
116	M133A	Z	0	0	0	%100
117	M134A	X	19.923	19.923	0	%100
118	M134A	Z	0	0	0	%100
119	M125B	X	13.849	13.849	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	13.849	13.849	0	%100
122	M130A	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	M100	X	12.743	12.743	0	%100
2	M100	Z	7.357	7.357	0	%100
3	M101	X	4.063	4.063	0	%100
4	M101	Z	2.346	2.346	0	%100
5	M102	X	4.063	4.063	0	%100
6	M102	Z	2.346	2.346	0	%100
7	M103	X	6.573	6.573	0	%100
8	M103	Z	3.795	3.795	0	%100
9	M106	X	3.65	3.65	0	%100
10	M106	Z	2.107	2.107	0	%100
11	M107	X	14.6	14.6	0	%100
12	M107	Z	8.429	8.429	0	%100
13	M111	X	19.72	19.72	0	%100
14	M111	Z	11.385	11.385	0	%100
15	M112	X	6.695	6.695	0	%100
16	M112	Z	3.865	3.865	0	%100
17	M114	X	7.052	7.052	0	%100
18	M114	Z	4.071	4.071	0	%100
19	M116	X	19.72	19.72	0	%100
20	M116	Z	11.385	11.385	0	%100
21	M117	X	26.78	26.78	0	%100
22	M117	Z	15.461	15.461	0	%100
23	M119	X	28.206	28.206	0	%100
24	M119	Z	16.285	16.285	0	%100
25	M124	X	12.743	12.743	0	%100
26	M124	Z	7.357	7.357	0	%100
27	M125	X	4.063	4.063	0	%100
28	M125	Z	2.346	2.346	0	%100
29	M126	X	4.063	4.063	0	%100
30	M126	Z	2.346	2.346	0	%100
31	M127	X	6.573	6.573	0	%100
32	M127	Z	3.795	3.795	0	%100
33	M130	X	14.6	14.6	0	%100
34	M130	Z	8.429	8.429	0	%100
35	M131	X	3.65	3.65	0	%100
36	M131	Z	2.107	2.107	0	%100
37	M135	X	19.72	19.72	0	%100
38	M135	Z	11.385	11.385	0	%100
39	M136	X	26.78	26.78	0	%100
40	M136	Z	15.461	15.461	0	%100
41	M138	X	28.206	28.206	0	%100
42	M138	Z	16.285	16.285	0	%100
43	M140	X	19.72	19.72	0	%100
44	M140	Z	11.385	11.385	0	%100
45	M141	X	6.695	6.695	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,%]
46	M141	Z	3.865	3.865	0	%100
47	M143	X	7.052	7.052	0	%100
48	M143	Z	4.071	4.071	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	16.25	16.25	0	%100
52	M149	Z	9.382	9.382	0	%100
53	M150	X	16.25	16.25	0	%100
54	M150	Z	9.382	9.382	0	%100
55	M151	X	26.293	26.293	0	%100
56	M151	Z	15.18	15.18	0	%100
57	M154	X	3.65	3.65	0	%100
58	M154	Z	2.107	2.107	0	%100
59	M155	X	3.65	3.65	0	%100
60	M155	Z	2.107	2.107	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	6.695	6.695	0	%100
64	M160	Z	3.865	3.865	0	%100
65	M162	X	7.052	7.052	0	%100
66	M162	Z	4.071	4.071	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	6.695	6.695	0	%100
70	M165	Z	3.865	3.865	0	%100
71	M167	X	7.052	7.052	0	%100
72	M167	Z	4.071	4.071	0	%100
73	M172	X	3.372	3.372	0	%100
74	M172	Z	1.947	1.947	0	%100
75	MP1A	X	10.408	10.408	0	%100
76	MP1A	Z	6.009	6.009	0	%100
77	MP2A	X	12.599	12.599	0	%100
78	MP2A	Z	7.274	7.274	0	%100
79	MP3A	X	10.408	10.408	0	%100
80	MP3A	Z	6.009	6.009	0	%100
81	MP4A	X	10.408	10.408	0	%100
82	MP4A	Z	6.009	6.009	0	%100
83	M181	X	3.372	3.372	0	%100
84	M181	Z	1.947	1.947	0	%100
85	MP1C	X	10.408	10.408	0	%100
86	MP1C	Z	6.009	6.009	0	%100
87	MP2C	X	12.599	12.599	0	%100
88	MP2C	Z	7.274	7.274	0	%100
89	MP3C	X	10.408	10.408	0	%100
90	MP3C	Z	6.009	6.009	0	%100
91	MP4C	X	10.408	10.408	0	%100
92	MP4C	Z	6.009	6.009	0	%100
93	M190	X	13.488	13.488	0	%100
94	M190	Z	7.787	7.787	0	%100
95	MP1B	X	10.408	10.408	0	%100
96	MP1B	Z	6.009	6.009	0	%100
97	MP2B	X	12.599	12.599	0	%100
98	MP2B	Z	7.274	7.274	0	%100
99	MP3B	X	10.408	10.408	0	%100
100	MP3B	Z	6.009	6.009	0	%100
101	MP4B	X	10.408	10.408	0	%100
102	MP4B	Z	6.009	6.009	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,%]
103	M101A	X	8.511	8.511	0	%100
104	M101A	Z	4.914	4.914	0	%100
105	M102A	X	3.998	3.998	0	%100
106	M102A	Z	2.308	2.308	0	%100
107	M116A	X	3.15	3.15	0	%100
108	M116A	Z	1.818	1.818	0	%100
109	M120A	X	3.15	3.15	0	%100
110	M120A	Z	1.818	1.818	0	%100
111	M125A	X	12.599	12.599	0	%100
112	M125A	Z	7.274	7.274	0	%100
113	M132A	X	18.404	18.404	0	%100
114	M132A	Z	10.625	10.625	0	%100
115	M133A	X	18.404	18.404	0	%100
116	M133A	Z	10.625	10.625	0	%100
117	M134A	X	16.679	16.679	0	%100
118	M134A	Z	9.629	9.629	0	%100
119	M125B	X	3.998	3.998	0	%100
120	M125B	Z	2.308	2.308	0	%100
121	M130A	X	15.992	15.992	0	%100
122	M130A	Z	9.233	9.233	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	M100	X	2.452	2.452	0	%100
2	M100	Z	4.248	4.248	0	%100
3	M101	X	7.037	7.037	0	%100
4	M101	Z	12.188	12.188	0	%100
5	M102	X	7.037	7.037	0	%100
6	M102	Z	12.188	12.188	0	%100
7	M103	X	11.385	11.385	0	%100
8	M103	Z	19.72	19.72	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	6.322	6.322	0	%100
12	M107	Z	10.95	10.95	0	%100
13	M111	X	3.795	3.795	0	%100
14	M111	Z	6.573	6.573	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	3.795	3.795	0	%100
20	M116	Z	6.573	6.573	0	%100
21	M117	X	11.596	11.596	0	%100
22	M117	Z	20.085	20.085	0	%100
23	M119	X	12.214	12.214	0	%100
24	M119	Z	21.155	21.155	0	%100
25	M124	X	9.81	9.81	0	%100
26	M124	Z	16.991	16.991	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	6.322	6.322	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,%]
34	M130	Z	10.95	10.95	0	%100
35	M131	X	6.322	6.322	0	%100
36	M131	Z	10.95	10.95	0	%100
37	M135	X	15.18	15.18	0	%100
38	M135	Z	26.293	26.293	0	%100
39	M136	X	11.596	11.596	0	%100
40	M136	Z	20.085	20.085	0	%100
41	M138	X	12.214	12.214	0	%100
42	M138	Z	21.155	21.155	0	%100
43	M140	X	15.18	15.18	0	%100
44	M140	Z	26.293	26.293	0	%100
45	M141	X	11.596	11.596	0	%100
46	M141	Z	20.085	20.085	0	%100
47	M143	X	12.214	12.214	0	%100
48	M143	Z	21.155	21.155	0	%100
49	M148	X	2.452	2.452	0	%100
50	M148	Z	4.248	4.248	0	%100
51	M149	X	7.037	7.037	0	%100
52	M149	Z	12.188	12.188	0	%100
53	M150	X	7.037	7.037	0	%100
54	M150	Z	12.188	12.188	0	%100
55	M151	X	11.385	11.385	0	%100
56	M151	Z	19.72	19.72	0	%100
57	M154	X	6.322	6.322	0	%100
58	M154	Z	10.95	10.95	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	3.795	3.795	0	%100
62	M159	Z	6.573	6.573	0	%100
63	M160	X	11.596	11.596	0	%100
64	M160	Z	20.085	20.085	0	%100
65	M162	X	12.214	12.214	0	%100
66	M162	Z	21.155	21.155	0	%100
67	M164	X	3.795	3.795	0	%100
68	M164	Z	6.573	6.573	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	5.841	5.841	0	%100
74	M172	Z	10.116	10.116	0	%100
75	MP1A	X	6.009	6.009	0	%100
76	MP1A	Z	10.408	10.408	0	%100
77	MP2A	X	7.274	7.274	0	%100
78	MP2A	Z	12.599	12.599	0	%100
79	MP3A	X	6.009	6.009	0	%100
80	MP3A	Z	10.408	10.408	0	%100
81	MP4A	X	6.009	6.009	0	%100
82	MP4A	Z	10.408	10.408	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	6.009	6.009	0	%100
86	MP1C	Z	10.408	10.408	0	%100
87	MP2C	X	7.274	7.274	0	%100
88	MP2C	Z	12.599	12.599	0	%100
89	MP3C	X	6.009	6.009	0	%100
90	MP3C	Z	10.408	10.408	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,%]
91	MP4C	X	6.009	6.009	0	%100
92	MP4C	Z	10.408	10.408	0	%100
93	M190	X	5.841	5.841	0	%100
94	M190	Z	10.116	10.116	0	%100
95	MP1B	X	6.009	6.009	0	%100
96	MP1B	Z	10.408	10.408	0	%100
97	MP2B	X	7.274	7.274	0	%100
98	MP2B	Z	12.599	12.599	0	%100
99	MP3B	X	6.009	6.009	0	%100
100	MP3B	Z	10.408	10.408	0	%100
101	MP4B	X	6.009	6.009	0	%100
102	MP4B	Z	10.408	10.408	0	%100
103	M101A	X	4.914	4.914	0	%100
104	M101A	Z	8.511	8.511	0	%100
105	M102A	X	6.925	6.925	0	%100
106	M102A	Z	11.994	11.994	0	%100
107	M116A	X	5.455	5.455	0	%100
108	M116A	Z	9.449	9.449	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	5.455	5.455	0	%100
112	M125A	Z	9.449	9.449	0	%100
113	M132A	X	9.961	9.961	0	%100
114	M132A	Z	17.254	17.254	0	%100
115	M133A	X	10.957	10.957	0	%100
116	M133A	Z	18.979	18.979	0	%100
117	M134A	X	9.961	9.961	0	%100
118	M134A	Z	17.254	17.254	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	6.925	6.925	0	%100
122	M130A	Z	11.994	11.994	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	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	18.764	18.764	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	18.764	18.764	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	30.36	30.36	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	4.215	4.215	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	4.215	4.215	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	7.731	7.731	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	8.143	8.143	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	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,%]
22	M117	Z	7.731	7.731	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	8.143	8.143	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	14.715	14.715	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	4.691	4.691	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	4.691	4.691	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	7.59	7.59	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	4.215	4.215	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	16.859	16.859	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	22.77	22.77	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	7.731	7.731	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	8.143	8.143	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	22.77	22.77	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	30.923	30.923	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	32.57	32.57	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	14.715	14.715	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	4.691	4.691	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	4.691	4.691	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	7.59	7.59	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	16.859	16.859	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	4.215	4.215	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	22.77	22.77	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	30.923	30.923	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	32.57	32.57	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	22.77	22.77	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	7.731	7.731	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	8.143	8.143	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	15.575	15.575	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	12.018	12.018	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	14.548	14.548	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,%]
79	MP3A	X	0	0	0	%100
80	MP3A	Z	12.018	12.018	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	12.018	12.018	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	3.894	3.894	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	12.018	12.018	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	14.548	14.548	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	12.018	12.018	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	12.018	12.018	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	3.894	3.894	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	12.018	12.018	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	14.548	14.548	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	12.018	12.018	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	12.018	12.018	0	%100
103	M101A	X	0	0	0	%100
104	M101A	Z	9.827	9.827	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	18.466	18.466	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	14.548	14.548	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	3.637	3.637	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	3.637	3.637	0	%100
113	M132A	X	0	0	0	%100
114	M132A	Z	19.259	19.259	0	%100
115	M133A	X	0	0	0	%100
116	M133A	Z	21.251	21.251	0	%100
117	M134A	X	0	0	0	%100
118	M134A	Z	21.251	21.251	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	4.616	4.616	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	4.616	4.616	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	M100	X	-2.452	-2.452	0	%100
2	M100	Z	4.248	4.248	0	%100
3	M101	X	-7.037	-7.037	0	%100
4	M101	Z	12.188	12.188	0	%100
5	M102	X	-7.037	-7.037	0	%100
6	M102	Z	12.188	12.188	0	%100
7	M103	X	-11.385	-11.385	0	%100
8	M103	Z	19.72	19.72	0	%100
9	M106	X	-6.322	-6.322	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,%]
10	M106	Z	10.95	10.95	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-3.795	-3.795	0	%100
14	M111	Z	6.573	6.573	0	%100
15	M112	X	-11.596	-11.596	0	%100
16	M112	Z	20.085	20.085	0	%100
17	M114	X	-12.214	-12.214	0	%100
18	M114	Z	21.155	21.155	0	%100
19	M116	X	-3.795	-3.795	0	%100
20	M116	Z	6.573	6.573	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-2.452	-2.452	0	%100
26	M124	Z	4.248	4.248	0	%100
27	M125	X	-7.037	-7.037	0	%100
28	M125	Z	12.188	12.188	0	%100
29	M126	X	-7.037	-7.037	0	%100
30	M126	Z	12.188	12.188	0	%100
31	M127	X	-11.385	-11.385	0	%100
32	M127	Z	19.72	19.72	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	-6.322	-6.322	0	%100
36	M131	Z	10.95	10.95	0	%100
37	M135	X	-3.795	-3.795	0	%100
38	M135	Z	6.573	6.573	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-3.795	-3.795	0	%100
44	M140	Z	6.573	6.573	0	%100
45	M141	X	-11.596	-11.596	0	%100
46	M141	Z	20.085	20.085	0	%100
47	M143	X	-12.214	-12.214	0	%100
48	M143	Z	21.155	21.155	0	%100
49	M148	X	-9.81	-9.81	0	%100
50	M148	Z	16.991	16.991	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	-6.322	-6.322	0	%100
58	M154	Z	10.95	10.95	0	%100
59	M155	X	-6.322	-6.322	0	%100
60	M155	Z	10.95	10.95	0	%100
61	M159	X	-15.18	-15.18	0	%100
62	M159	Z	26.293	26.293	0	%100
63	M160	X	-11.596	-11.596	0	%100
64	M160	Z	20.085	20.085	0	%100
65	M162	X	-12.214	-12.214	0	%100
66	M162	Z	21.155	21.155	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,%]
67	M164	X	-15.18	-15.18	0	%100
68	M164	Z	26.293	26.293	0	%100
69	M165	X	-11.596	-11.596	0	%100
70	M165	Z	20.085	20.085	0	%100
71	M167	X	-12.214	-12.214	0	%100
72	M167	Z	21.155	21.155	0	%100
73	M172	X	-5.841	-5.841	0	%100
74	M172	Z	10.116	10.116	0	%100
75	MP1A	X	-6.009	-6.009	0	%100
76	MP1A	Z	10.408	10.408	0	%100
77	MP2A	X	-7.274	-7.274	0	%100
78	MP2A	Z	12.599	12.599	0	%100
79	MP3A	X	-6.009	-6.009	0	%100
80	MP3A	Z	10.408	10.408	0	%100
81	MP4A	X	-6.009	-6.009	0	%100
82	MP4A	Z	10.408	10.408	0	%100
83	M181	X	-5.841	-5.841	0	%100
84	M181	Z	10.116	10.116	0	%100
85	MP1C	X	-6.009	-6.009	0	%100
86	MP1C	Z	10.408	10.408	0	%100
87	MP2C	X	-7.274	-7.274	0	%100
88	MP2C	Z	12.599	12.599	0	%100
89	MP3C	X	-6.009	-6.009	0	%100
90	MP3C	Z	10.408	10.408	0	%100
91	MP4C	X	-6.009	-6.009	0	%100
92	MP4C	Z	10.408	10.408	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	-6.009	-6.009	0	%100
96	MP1B	Z	10.408	10.408	0	%100
97	MP2B	X	-7.274	-7.274	0	%100
98	MP2B	Z	12.599	12.599	0	%100
99	MP3B	X	-6.009	-6.009	0	%100
100	MP3B	Z	10.408	10.408	0	%100
101	MP4B	X	-6.009	-6.009	0	%100
102	MP4B	Z	10.408	10.408	0	%100
103	M101A	X	-4.914	-4.914	0	%100
104	M101A	Z	8.511	8.511	0	%100
105	M102A	X	-6.925	-6.925	0	%100
106	M102A	Z	11.994	11.994	0	%100
107	M116A	X	-5.455	-5.455	0	%100
108	M116A	Z	9.449	9.449	0	%100
109	M120A	X	-5.455	-5.455	0	%100
110	M120A	Z	9.449	9.449	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	-9.961	-9.961	0	%100
114	M132A	Z	17.254	17.254	0	%100
115	M133A	X	-9.961	-9.961	0	%100
116	M133A	Z	17.254	17.254	0	%100
117	M134A	X	-10.957	-10.957	0	%100
118	M134A	Z	18.979	18.979	0	%100
119	M125B	X	-6.925	-6.925	0	%100
120	M125B	Z	11.994	11.994	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M100	X	-12.743	-12.743	0	%100
2	M100	Z	7.357	7.357	0	%100
3	M101	X	-4.063	-4.063	0	%100
4	M101	Z	2.346	2.346	0	%100
5	M102	X	-4.063	-4.063	0	%100
6	M102	Z	2.346	2.346	0	%100
7	M103	X	-6.573	-6.573	0	%100
8	M103	Z	3.795	3.795	0	%100
9	M106	X	-14.6	-14.6	0	%100
10	M106	Z	8.429	8.429	0	%100
11	M107	X	-3.65	-3.65	0	%100
12	M107	Z	2.107	2.107	0	%100
13	M111	X	-19.72	-19.72	0	%100
14	M111	Z	11.385	11.385	0	%100
15	M112	X	-26.78	-26.78	0	%100
16	M112	Z	15.461	15.461	0	%100
17	M114	X	-28.206	-28.206	0	%100
18	M114	Z	16.285	16.285	0	%100
19	M116	X	-19.72	-19.72	0	%100
20	M116	Z	11.385	11.385	0	%100
21	M117	X	-6.695	-6.695	0	%100
22	M117	Z	3.865	3.865	0	%100
23	M119	X	-7.052	-7.052	0	%100
24	M119	Z	4.071	4.071	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-16.25	-16.25	0	%100
28	M125	Z	9.382	9.382	0	%100
29	M126	X	-16.25	-16.25	0	%100
30	M126	Z	9.382	9.382	0	%100
31	M127	X	-26.293	-26.293	0	%100
32	M127	Z	15.18	15.18	0	%100
33	M130	X	-3.65	-3.65	0	%100
34	M130	Z	2.107	2.107	0	%100
35	M131	X	-3.65	-3.65	0	%100
36	M131	Z	2.107	2.107	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-6.695	-6.695	0	%100
40	M136	Z	3.865	3.865	0	%100
41	M138	X	-7.052	-7.052	0	%100
42	M138	Z	4.071	4.071	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	-6.695	-6.695	0	%100
46	M141	Z	3.865	3.865	0	%100
47	M143	X	-7.052	-7.052	0	%100
48	M143	Z	4.071	4.071	0	%100
49	M148	X	-12.743	-12.743	0	%100
50	M148	Z	7.357	7.357	0	%100
51	M149	X	-4.063	-4.063	0	%100
52	M149	Z	2.346	2.346	0	%100
53	M150	X	-4.063	-4.063	0	%100
54	M150	Z	2.346	2.346	0	%100
55	M151	X	-6.573	-6.573	0	%100
56	M151	Z	3.795	3.795	0	%100
57	M154	X	-3.65	-3.65	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,%]
58	M154	Z	2.107	2.107	0	%100
59	M155	X	-14.6	-14.6	0	%100
60	M155	Z	8.429	8.429	0	%100
61	M159	X	-19.72	-19.72	0	%100
62	M159	Z	11.385	11.385	0	%100
63	M160	X	-6.695	-6.695	0	%100
64	M160	Z	3.865	3.865	0	%100
65	M162	X	-7.052	-7.052	0	%100
66	M162	Z	4.071	4.071	0	%100
67	M164	X	-19.72	-19.72	0	%100
68	M164	Z	11.385	11.385	0	%100
69	M165	X	-26.78	-26.78	0	%100
70	M165	Z	15.461	15.461	0	%100
71	M167	X	-28.206	-28.206	0	%100
72	M167	Z	16.285	16.285	0	%100
73	M172	X	-3.372	-3.372	0	%100
74	M172	Z	1.947	1.947	0	%100
75	MP1A	X	-10.408	-10.408	0	%100
76	MP1A	Z	6.009	6.009	0	%100
77	MP2A	X	-12.599	-12.599	0	%100
78	MP2A	Z	7.274	7.274	0	%100
79	MP3A	X	-10.408	-10.408	0	%100
80	MP3A	Z	6.009	6.009	0	%100
81	MP4A	X	-10.408	-10.408	0	%100
82	MP4A	Z	6.009	6.009	0	%100
83	M181	X	-13.488	-13.488	0	%100
84	M181	Z	7.787	7.787	0	%100
85	MP1C	X	-10.408	-10.408	0	%100
86	MP1C	Z	6.009	6.009	0	%100
87	MP2C	X	-12.599	-12.599	0	%100
88	MP2C	Z	7.274	7.274	0	%100
89	MP3C	X	-10.408	-10.408	0	%100
90	MP3C	Z	6.009	6.009	0	%100
91	MP4C	X	-10.408	-10.408	0	%100
92	MP4C	Z	6.009	6.009	0	%100
93	M190	X	-3.372	-3.372	0	%100
94	M190	Z	1.947	1.947	0	%100
95	MP1B	X	-10.408	-10.408	0	%100
96	MP1B	Z	6.009	6.009	0	%100
97	MP2B	X	-12.599	-12.599	0	%100
98	MP2B	Z	7.274	7.274	0	%100
99	MP3B	X	-10.408	-10.408	0	%100
100	MP3B	Z	6.009	6.009	0	%100
101	MP4B	X	-10.408	-10.408	0	%100
102	MP4B	Z	6.009	6.009	0	%100
103	M101A	X	-8.511	-8.511	0	%100
104	M101A	Z	4.914	4.914	0	%100
105	M102A	X	-3.998	-3.998	0	%100
106	M102A	Z	2.308	2.308	0	%100
107	M116A	X	-3.15	-3.15	0	%100
108	M116A	Z	1.818	1.818	0	%100
109	M120A	X	-12.599	-12.599	0	%100
110	M120A	Z	7.274	7.274	0	%100
111	M125A	X	-3.15	-3.15	0	%100
112	M125A	Z	1.818	1.818	0	%100
113	M132A	X	-18.404	-18.404	0	%100
114	M132A	Z	10.625	10.625	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,%]
115	M133A	X	-16.679	-16.679	0	%100
116	M133A	Z	9.629	9.629	0	%100
117	M134A	X	-18.404	-18.404	0	%100
118	M134A	Z	10.625	10.625	0	%100
119	M125B	X	-15.992	-15.992	0	%100
120	M125B	Z	9.233	9.233	0	%100
121	M130A	X	-3.998	-3.998	0	%100
122	M130A	Z	2.308	2.308	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	M100	X	-19.62	-19.62	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	-12.644	-12.644	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-12.644	-12.644	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-30.36	-30.36	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	-23.192	-23.192	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	-24.428	-24.428	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-30.36	-30.36	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	-23.192	-23.192	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	-24.428	-24.428	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-4.905	-4.905	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-14.073	-14.073	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	-14.073	-14.073	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	-22.77	-22.77	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-12.644	-12.644	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	-7.59	-7.59	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-23.192	-23.192	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	-24.428	-24.428	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-7.59	-7.59	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	-4.905	-4.905	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-14.073	-14.073	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	-14.073	-14.073	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	-22.77	-22.77	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	-12.644	-12.644	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-7.59	-7.59	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	-7.59	-7.59	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-23.192	-23.192	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	-24.428	-24.428	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	-12.018	-12.018	0	%100
76	MP1A	Z	0	0	0	%100
77	MP2A	X	-14.548	-14.548	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	-12.018	-12.018	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	-12.018	-12.018	0	%100
82	MP4A	Z	0	0	0	%100
83	M181	X	-11.681	-11.681	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	-12.018	-12.018	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	-14.548	-14.548	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	-12.018	-12.018	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	-12.018	-12.018	0	%100
92	MP4C	Z	0	0	0	%100
93	M190	X	-11.681	-11.681	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	-12.018	-12.018	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-14.548	-14.548	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-12.018	-12.018	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-12.018	-12.018	0	%100
102	MP4B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	M101A	X	-9.827	-9.827	0	%100
104	M101A	Z	0	0	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	0	0	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	0	0	0	%100
109	M120A	X	-10.911	-10.911	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	-10.911	-10.911	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	-21.915	-21.915	0	%100
114	M132A	Z	0	0	0	%100
115	M133A	X	-19.923	-19.923	0	%100
116	M133A	Z	0	0	0	%100
117	M134A	X	-19.923	-19.923	0	%100
118	M134A	Z	0	0	0	%100
119	M125B	X	-13.849	-13.849	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	-13.849	-13.849	0	%100
122	M130A	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	M100	X	-12.743	-12.743	0	%100
2	M100	Z	-7.357	-7.357	0	%100
3	M101	X	-4.063	-4.063	0	%100
4	M101	Z	-2.346	-2.346	0	%100
5	M102	X	-4.063	-4.063	0	%100
6	M102	Z	-2.346	-2.346	0	%100
7	M103	X	-6.573	-6.573	0	%100
8	M103	Z	-3.795	-3.795	0	%100
9	M106	X	-3.65	-3.65	0	%100
10	M106	Z	-2.107	-2.107	0	%100
11	M107	X	-14.6	-14.6	0	%100
12	M107	Z	-8.429	-8.429	0	%100
13	M111	X	-19.72	-19.72	0	%100
14	M111	Z	-11.385	-11.385	0	%100
15	M112	X	-6.695	-6.695	0	%100
16	M112	Z	-3.865	-3.865	0	%100
17	M114	X	-7.052	-7.052	0	%100
18	M114	Z	-4.071	-4.071	0	%100
19	M116	X	-19.72	-19.72	0	%100
20	M116	Z	-11.385	-11.385	0	%100
21	M117	X	-26.78	-26.78	0	%100
22	M117	Z	-15.461	-15.461	0	%100
23	M119	X	-28.206	-28.206	0	%100
24	M119	Z	-16.285	-16.285	0	%100
25	M124	X	-12.743	-12.743	0	%100
26	M124	Z	-7.357	-7.357	0	%100
27	M125	X	-4.063	-4.063	0	%100
28	M125	Z	-2.346	-2.346	0	%100
29	M126	X	-4.063	-4.063	0	%100
30	M126	Z	-2.346	-2.346	0	%100
31	M127	X	-6.573	-6.573	0	%100
32	M127	Z	-3.795	-3.795	0	%100
33	M130	X	-14.6	-14.6	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,%]
34	M130	Z	-8.429	-8.429	0	%100
35	M131	X	-3.65	-3.65	0	%100
36	M131	Z	-2.107	-2.107	0	%100
37	M135	X	-19.72	-19.72	0	%100
38	M135	Z	-11.385	-11.385	0	%100
39	M136	X	-26.78	-26.78	0	%100
40	M136	Z	-15.461	-15.461	0	%100
41	M138	X	-28.206	-28.206	0	%100
42	M138	Z	-16.285	-16.285	0	%100
43	M140	X	-19.72	-19.72	0	%100
44	M140	Z	-11.385	-11.385	0	%100
45	M141	X	-6.695	-6.695	0	%100
46	M141	Z	-3.865	-3.865	0	%100
47	M143	X	-7.052	-7.052	0	%100
48	M143	Z	-4.071	-4.071	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-16.25	-16.25	0	%100
52	M149	Z	-9.382	-9.382	0	%100
53	M150	X	-16.25	-16.25	0	%100
54	M150	Z	-9.382	-9.382	0	%100
55	M151	X	-26.293	-26.293	0	%100
56	M151	Z	-15.18	-15.18	0	%100
57	M154	X	-3.65	-3.65	0	%100
58	M154	Z	-2.107	-2.107	0	%100
59	M155	X	-3.65	-3.65	0	%100
60	M155	Z	-2.107	-2.107	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	-6.695	-6.695	0	%100
64	M160	Z	-3.865	-3.865	0	%100
65	M162	X	-7.052	-7.052	0	%100
66	M162	Z	-4.071	-4.071	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-6.695	-6.695	0	%100
70	M165	Z	-3.865	-3.865	0	%100
71	M167	X	-7.052	-7.052	0	%100
72	M167	Z	-4.071	-4.071	0	%100
73	M172	X	-3.372	-3.372	0	%100
74	M172	Z	-1.947	-1.947	0	%100
75	MP1A	X	-10.408	-10.408	0	%100
76	MP1A	Z	-6.009	-6.009	0	%100
77	MP2A	X	-12.599	-12.599	0	%100
78	MP2A	Z	-7.274	-7.274	0	%100
79	MP3A	X	-10.408	-10.408	0	%100
80	MP3A	Z	-6.009	-6.009	0	%100
81	MP4A	X	-10.408	-10.408	0	%100
82	MP4A	Z	-6.009	-6.009	0	%100
83	M181	X	-3.372	-3.372	0	%100
84	M181	Z	-1.947	-1.947	0	%100
85	MP1C	X	-10.408	-10.408	0	%100
86	MP1C	Z	-6.009	-6.009	0	%100
87	MP2C	X	-12.599	-12.599	0	%100
88	MP2C	Z	-7.274	-7.274	0	%100
89	MP3C	X	-10.408	-10.408	0	%100
90	MP3C	Z	-6.009	-6.009	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,%]
91	MP4C	X	-10.408	-10.408	0	%100
92	MP4C	Z	-6.009	-6.009	0	%100
93	M190	X	-13.488	-13.488	0	%100
94	M190	Z	-7.787	-7.787	0	%100
95	MP1B	X	-10.408	-10.408	0	%100
96	MP1B	Z	-6.009	-6.009	0	%100
97	MP2B	X	-12.599	-12.599	0	%100
98	MP2B	Z	-7.274	-7.274	0	%100
99	MP3B	X	-10.408	-10.408	0	%100
100	MP3B	Z	-6.009	-6.009	0	%100
101	MP4B	X	-10.408	-10.408	0	%100
102	MP4B	Z	-6.009	-6.009	0	%100
103	M101A	X	-8.511	-8.511	0	%100
104	M101A	Z	-4.914	-4.914	0	%100
105	M102A	X	-3.998	-3.998	0	%100
106	M102A	Z	-2.308	-2.308	0	%100
107	M116A	X	-3.15	-3.15	0	%100
108	M116A	Z	-1.818	-1.818	0	%100
109	M120A	X	-3.15	-3.15	0	%100
110	M120A	Z	-1.818	-1.818	0	%100
111	M125A	X	-12.599	-12.599	0	%100
112	M125A	Z	-7.274	-7.274	0	%100
113	M132A	X	-18.404	-18.404	0	%100
114	M132A	Z	-10.625	-10.625	0	%100
115	M133A	X	-18.404	-18.404	0	%100
116	M133A	Z	-10.625	-10.625	0	%100
117	M134A	X	-16.679	-16.679	0	%100
118	M134A	Z	-9.629	-9.629	0	%100
119	M125B	X	-3.998	-3.998	0	%100
120	M125B	Z	-2.308	-2.308	0	%100
121	M130A	X	-15.992	-15.992	0	%100
122	M130A	Z	-9.233	-9.233	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	M100	X	-2.452	-2.452	0	%100
2	M100	Z	-4.248	-4.248	0	%100
3	M101	X	-7.037	-7.037	0	%100
4	M101	Z	-12.188	-12.188	0	%100
5	M102	X	-7.037	-7.037	0	%100
6	M102	Z	-12.188	-12.188	0	%100
7	M103	X	-11.385	-11.385	0	%100
8	M103	Z	-19.72	-19.72	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-6.322	-6.322	0	%100
12	M107	Z	-10.95	-10.95	0	%100
13	M111	X	-3.795	-3.795	0	%100
14	M111	Z	-6.573	-6.573	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-3.795	-3.795	0	%100
20	M116	Z	-6.573	-6.573	0	%100
21	M117	X	-11.596	-11.596	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,%]
22	M117	Z	-20.085	-20.085	0	%100
23	M119	X	-12.214	-12.214	0	%100
24	M119	Z	-21.155	-21.155	0	%100
25	M124	X	-9.81	-9.81	0	%100
26	M124	Z	-16.991	-16.991	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-6.322	-6.322	0	%100
34	M130	Z	-10.95	-10.95	0	%100
35	M131	X	-6.322	-6.322	0	%100
36	M131	Z	-10.95	-10.95	0	%100
37	M135	X	-15.18	-15.18	0	%100
38	M135	Z	-26.293	-26.293	0	%100
39	M136	X	-11.596	-11.596	0	%100
40	M136	Z	-20.085	-20.085	0	%100
41	M138	X	-12.214	-12.214	0	%100
42	M138	Z	-21.155	-21.155	0	%100
43	M140	X	-15.18	-15.18	0	%100
44	M140	Z	-26.293	-26.293	0	%100
45	M141	X	-11.596	-11.596	0	%100
46	M141	Z	-20.085	-20.085	0	%100
47	M143	X	-12.214	-12.214	0	%100
48	M143	Z	-21.155	-21.155	0	%100
49	M148	X	-2.452	-2.452	0	%100
50	M148	Z	-4.248	-4.248	0	%100
51	M149	X	-7.037	-7.037	0	%100
52	M149	Z	-12.188	-12.188	0	%100
53	M150	X	-7.037	-7.037	0	%100
54	M150	Z	-12.188	-12.188	0	%100
55	M151	X	-11.385	-11.385	0	%100
56	M151	Z	-19.72	-19.72	0	%100
57	M154	X	-6.322	-6.322	0	%100
58	M154	Z	-10.95	-10.95	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-3.795	-3.795	0	%100
62	M159	Z	-6.573	-6.573	0	%100
63	M160	X	-11.596	-11.596	0	%100
64	M160	Z	-20.085	-20.085	0	%100
65	M162	X	-12.214	-12.214	0	%100
66	M162	Z	-21.155	-21.155	0	%100
67	M164	X	-3.795	-3.795	0	%100
68	M164	Z	-6.573	-6.573	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	-5.841	-5.841	0	%100
74	M172	Z	-10.116	-10.116	0	%100
75	MP1A	X	-6.009	-6.009	0	%100
76	MP1A	Z	-10.408	-10.408	0	%100
77	MP2A	X	-7.274	-7.274	0	%100
78	MP2A	Z	-12.599	-12.599	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,%]
79	MP3A	X	-6.009	-6.009	0	%100
80	MP3A	Z	-10.408	-10.408	0	%100
81	MP4A	X	-6.009	-6.009	0	%100
82	MP4A	Z	-10.408	-10.408	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	-6.009	-6.009	0	%100
86	MP1C	Z	-10.408	-10.408	0	%100
87	MP2C	X	-7.274	-7.274	0	%100
88	MP2C	Z	-12.599	-12.599	0	%100
89	MP3C	X	-6.009	-6.009	0	%100
90	MP3C	Z	-10.408	-10.408	0	%100
91	MP4C	X	-6.009	-6.009	0	%100
92	MP4C	Z	-10.408	-10.408	0	%100
93	M190	X	-5.841	-5.841	0	%100
94	M190	Z	-10.116	-10.116	0	%100
95	MP1B	X	-6.009	-6.009	0	%100
96	MP1B	Z	-10.408	-10.408	0	%100
97	MP2B	X	-7.274	-7.274	0	%100
98	MP2B	Z	-12.599	-12.599	0	%100
99	MP3B	X	-6.009	-6.009	0	%100
100	MP3B	Z	-10.408	-10.408	0	%100
101	MP4B	X	-6.009	-6.009	0	%100
102	MP4B	Z	-10.408	-10.408	0	%100
103	M101A	X	-4.914	-4.914	0	%100
104	M101A	Z	-8.511	-8.511	0	%100
105	M102A	X	-6.925	-6.925	0	%100
106	M102A	Z	-11.994	-11.994	0	%100
107	M116A	X	-5.455	-5.455	0	%100
108	M116A	Z	-9.449	-9.449	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	-5.455	-5.455	0	%100
112	M125A	Z	-9.449	-9.449	0	%100
113	M132A	X	-9.961	-9.961	0	%100
114	M132A	Z	-17.254	-17.254	0	%100
115	M133A	X	-10.957	-10.957	0	%100
116	M133A	Z	-18.979	-18.979	0	%100
117	M134A	X	-9.961	-9.961	0	%100
118	M134A	Z	-17.254	-17.254	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	-6.925	-6.925	0	%100
122	M130A	Z	-11.994	-11.994	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	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	-4.103	-4.103	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	-4.103	-4.103	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	-5.595	-5.595	0	%100
9	M106	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,%]
10	M106	Z	-1.03	-1.03	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	-1.03	-1.03	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	-1.397	-1.397	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	-1.458	-1.458	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	-1.397	-1.397	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	-1.458	-1.458	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	-3.479	-3.479	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	-1.026	-1.026	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	-1.026	-1.026	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	-1.399	-1.399	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	-1.03	-1.03	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	-4.118	-4.118	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	-4.128	-4.128	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	-1.397	-1.397	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	-1.458	-1.458	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	-4.128	-4.128	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	-5.587	-5.587	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	-5.831	-5.831	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	-3.479	-3.479	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	-1.026	-1.026	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	-1.026	-1.026	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	-1.399	-1.399	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	-4.118	-4.118	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	-1.03	-1.03	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	-4.128	-4.128	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	-5.587	-5.587	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	-5.831	-5.831	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,%]
67	M164	X	0	0	0	%100
68	M164	Z	-4.128	-4.128	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	-1.397	-1.397	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	-1.458	-1.458	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	-4.356	-4.356	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-3.514	-3.514	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-3.888	-3.888	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	-3.514	-3.514	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-3.514	-3.514	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	-1.089	-1.089	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	-3.514	-3.514	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	-3.888	-3.888	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-3.514	-3.514	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-3.514	-3.514	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	-1.089	-1.089	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-3.514	-3.514	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-3.888	-3.888	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-3.514	-3.514	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-3.514	-3.514	0	%100
103	M101A	X	0	0	0	%100
104	M101A	Z	-2.885	-2.885	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	-4.029	-4.029	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	-3.888	-3.888	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	-.972	-.972	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	-.972	-.972	0	%100
113	M132A	X	0	0	0	%100
114	M132A	Z	-3.668	-3.668	0	%100
115	M133A	X	0	0	0	%100
116	M133A	Z	-4.577	-4.577	0	%100
117	M134A	X	0	0	0	%100
118	M134A	Z	-4.577	-4.577	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	-1.007	-1.007	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	-1.007	-1.007	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	M100	X	.58	.58	0	%100
2	M100	Z	-1.004	-1.004	0	%100
3	M101	X	1.539	1.539	0	%100
4	M101	Z	-2.665	-2.665	0	%100
5	M102	X	1.539	1.539	0	%100
6	M102	Z	-2.665	-2.665	0	%100
7	M103	X	2.098	2.098	0	%100
8	M103	Z	-3.634	-3.634	0	%100
9	M106	X	1.544	1.544	0	%100
10	M106	Z	-2.675	-2.675	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	.688	.688	0	%100
14	M111	Z	-1.192	-1.192	0	%100
15	M112	X	2.095	2.095	0	%100
16	M112	Z	-3.629	-3.629	0	%100
17	M114	X	2.186	2.186	0	%100
18	M114	Z	-3.787	-3.787	0	%100
19	M116	X	.688	.688	0	%100
20	M116	Z	-1.192	-1.192	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	.58	.58	0	%100
26	M124	Z	-1.004	-1.004	0	%100
27	M125	X	1.539	1.539	0	%100
28	M125	Z	-2.665	-2.665	0	%100
29	M126	X	1.539	1.539	0	%100
30	M126	Z	-2.665	-2.665	0	%100
31	M127	X	2.098	2.098	0	%100
32	M127	Z	-3.634	-3.634	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	1.544	1.544	0	%100
36	M131	Z	-2.675	-2.675	0	%100
37	M135	X	.688	.688	0	%100
38	M135	Z	-1.192	-1.192	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	.688	.688	0	%100
44	M140	Z	-1.192	-1.192	0	%100
45	M141	X	2.095	2.095	0	%100
46	M141	Z	-3.629	-3.629	0	%100
47	M143	X	2.186	2.186	0	%100
48	M143	Z	-3.787	-3.787	0	%100
49	M148	X	2.319	2.319	0	%100
50	M148	Z	-4.017	-4.017	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	1.544	1.544	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,%]
58	M154	Z	-2.675	-2.675	0	%100
59	M155	X	1.544	1.544	0	%100
60	M155	Z	-2.675	-2.675	0	%100
61	M159	X	2.752	2.752	0	%100
62	M159	Z	-4.766	-4.766	0	%100
63	M160	X	2.095	2.095	0	%100
64	M160	Z	-3.629	-3.629	0	%100
65	M162	X	2.186	2.186	0	%100
66	M162	Z	-3.787	-3.787	0	%100
67	M164	X	2.752	2.752	0	%100
68	M164	Z	-4.766	-4.766	0	%100
69	M165	X	2.095	2.095	0	%100
70	M165	Z	-3.629	-3.629	0	%100
71	M167	X	2.186	2.186	0	%100
72	M167	Z	-3.787	-3.787	0	%100
73	M172	X	1.633	1.633	0	%100
74	M172	Z	-2.829	-2.829	0	%100
75	MP1A	X	1.757	1.757	0	%100
76	MP1A	Z	-3.043	-3.043	0	%100
77	MP2A	X	1.944	1.944	0	%100
78	MP2A	Z	-3.367	-3.367	0	%100
79	MP3A	X	1.757	1.757	0	%100
80	MP3A	Z	-3.043	-3.043	0	%100
81	MP4A	X	1.757	1.757	0	%100
82	MP4A	Z	-3.043	-3.043	0	%100
83	M181	X	1.633	1.633	0	%100
84	M181	Z	-2.829	-2.829	0	%100
85	MP1C	X	1.757	1.757	0	%100
86	MP1C	Z	-3.043	-3.043	0	%100
87	MP2C	X	1.944	1.944	0	%100
88	MP2C	Z	-3.367	-3.367	0	%100
89	MP3C	X	1.757	1.757	0	%100
90	MP3C	Z	-3.043	-3.043	0	%100
91	MP4C	X	1.757	1.757	0	%100
92	MP4C	Z	-3.043	-3.043	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	1.757	1.757	0	%100
96	MP1B	Z	-3.043	-3.043	0	%100
97	MP2B	X	1.944	1.944	0	%100
98	MP2B	Z	-3.367	-3.367	0	%100
99	MP3B	X	1.757	1.757	0	%100
100	MP3B	Z	-3.043	-3.043	0	%100
101	MP4B	X	1.757	1.757	0	%100
102	MP4B	Z	-3.043	-3.043	0	%100
103	M101A	X	1.443	1.443	0	%100
104	M101A	Z	-2.498	-2.498	0	%100
105	M102A	X	1.511	1.511	0	%100
106	M102A	Z	-2.617	-2.617	0	%100
107	M116A	X	1.458	1.458	0	%100
108	M116A	Z	-2.525	-2.525	0	%100
109	M120A	X	1.458	1.458	0	%100
110	M120A	Z	-2.525	-2.525	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	1.985	1.985	0	%100
114	M132A	Z	-3.439	-3.439	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,%]
115	M133A	X	1.985	1.985	0	%100
116	M133A	Z	-3.439	-3.439	0	%100
117	M134A	X	2.44	2.44	0	%100
118	M134A	Z	-4.226	-4.226	0	%100
119	M125B	X	1.511	1.511	0	%100
120	M125B	Z	-2.617	-2.617	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M100	X	3.013	3.013	0	%100
2	M100	Z	-1.739	-1.739	0	%100
3	M101	X	.888	.888	0	%100
4	M101	Z	-.513	-.513	0	%100
5	M102	X	.888	.888	0	%100
6	M102	Z	-.513	-.513	0	%100
7	M103	X	1.211	1.211	0	%100
8	M103	Z	-.699	-.699	0	%100
9	M106	X	3.567	3.567	0	%100
10	M106	Z	-2.059	-2.059	0	%100
11	M107	X	.892	.892	0	%100
12	M107	Z	-.515	-.515	0	%100
13	M111	X	3.575	3.575	0	%100
14	M111	Z	-2.064	-2.064	0	%100
15	M112	X	4.838	4.838	0	%100
16	M112	Z	-2.793	-2.793	0	%100
17	M114	X	5.05	5.05	0	%100
18	M114	Z	-2.915	-2.915	0	%100
19	M116	X	3.575	3.575	0	%100
20	M116	Z	-2.064	-2.064	0	%100
21	M117	X	1.21	1.21	0	%100
22	M117	Z	-.698	-.698	0	%100
23	M119	X	1.262	1.262	0	%100
24	M119	Z	-.729	-.729	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	3.553	3.553	0	%100
28	M125	Z	-2.052	-2.052	0	%100
29	M126	X	3.553	3.553	0	%100
30	M126	Z	-2.052	-2.052	0	%100
31	M127	X	4.845	4.845	0	%100
32	M127	Z	-2.797	-2.797	0	%100
33	M130	X	.892	.892	0	%100
34	M130	Z	-.515	-.515	0	%100
35	M131	X	.892	.892	0	%100
36	M131	Z	-.515	-.515	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	1.21	1.21	0	%100
40	M136	Z	-.698	-.698	0	%100
41	M138	X	1.262	1.262	0	%100
42	M138	Z	-.729	-.729	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	1.21	1.21	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,%]
46	M141	Z	-.698	-.698	0	%100
47	M143	X	1.262	1.262	0	%100
48	M143	Z	-.729	-.729	0	%100
49	M148	X	3.013	3.013	0	%100
50	M148	Z	-1.739	-1.739	0	%100
51	M149	X	.888	.888	0	%100
52	M149	Z	-.513	-.513	0	%100
53	M150	X	.888	.888	0	%100
54	M150	Z	-.513	-.513	0	%100
55	M151	X	1.211	1.211	0	%100
56	M151	Z	-.699	-.699	0	%100
57	M154	X	.892	.892	0	%100
58	M154	Z	-.515	-.515	0	%100
59	M155	X	3.567	3.567	0	%100
60	M155	Z	-2.059	-2.059	0	%100
61	M159	X	3.575	3.575	0	%100
62	M159	Z	-2.064	-2.064	0	%100
63	M160	X	1.21	1.21	0	%100
64	M160	Z	-.698	-.698	0	%100
65	M162	X	1.262	1.262	0	%100
66	M162	Z	-.729	-.729	0	%100
67	M164	X	3.575	3.575	0	%100
68	M164	Z	-2.064	-2.064	0	%100
69	M165	X	4.838	4.838	0	%100
70	M165	Z	-2.793	-2.793	0	%100
71	M167	X	5.05	5.05	0	%100
72	M167	Z	-2.915	-2.915	0	%100
73	M172	X	.943	.943	0	%100
74	M172	Z	-.544	-.544	0	%100
75	MP1A	X	3.043	3.043	0	%100
76	MP1A	Z	-1.757	-1.757	0	%100
77	MP2A	X	3.367	3.367	0	%100
78	MP2A	Z	-1.944	-1.944	0	%100
79	MP3A	X	3.043	3.043	0	%100
80	MP3A	Z	-1.757	-1.757	0	%100
81	MP4A	X	3.043	3.043	0	%100
82	MP4A	Z	-1.757	-1.757	0	%100
83	M181	X	3.772	3.772	0	%100
84	M181	Z	-2.178	-2.178	0	%100
85	MP1C	X	3.043	3.043	0	%100
86	MP1C	Z	-1.757	-1.757	0	%100
87	MP2C	X	3.367	3.367	0	%100
88	MP2C	Z	-1.944	-1.944	0	%100
89	MP3C	X	3.043	3.043	0	%100
90	MP3C	Z	-1.757	-1.757	0	%100
91	MP4C	X	3.043	3.043	0	%100
92	MP4C	Z	-1.757	-1.757	0	%100
93	M190	X	.943	.943	0	%100
94	M190	Z	-.544	-.544	0	%100
95	MP1B	X	3.043	3.043	0	%100
96	MP1B	Z	-1.757	-1.757	0	%100
97	MP2B	X	3.367	3.367	0	%100
98	MP2B	Z	-1.944	-1.944	0	%100
99	MP3B	X	3.043	3.043	0	%100
100	MP3B	Z	-1.757	-1.757	0	%100
101	MP4B	X	3.043	3.043	0	%100
102	MP4B	Z	-1.757	-1.757	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,%]
103	M101A	X	2.498	2.498	0	%100
104	M101A	Z	-1.443	-1.443	0	%100
105	M102A	X	.872	.872	0	%100
106	M102A	Z	-.504	-.504	0	%100
107	M116A	X	.842	.842	0	%100
108	M116A	Z	-.486	-.486	0	%100
109	M120A	X	3.367	3.367	0	%100
110	M120A	Z	-1.944	-1.944	0	%100
111	M125A	X	.842	.842	0	%100
112	M125A	Z	-.486	-.486	0	%100
113	M132A	X	3.964	3.964	0	%100
114	M132A	Z	-2.288	-2.288	0	%100
115	M133A	X	3.177	3.177	0	%100
116	M133A	Z	-1.834	-1.834	0	%100
117	M134A	X	3.964	3.964	0	%100
118	M134A	Z	-2.288	-2.288	0	%100
119	M125B	X	3.49	3.49	0	%100
120	M125B	Z	-2.015	-2.015	0	%100
121	M130A	X	.872	.872	0	%100
122	M130A	Z	-.504	-.504	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	M100	X	4.638	4.638	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	3.089	3.089	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	3.089	3.089	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	5.504	5.504	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	4.19	4.19	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	4.373	4.373	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	5.504	5.504	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	4.19	4.19	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	4.373	4.373	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	1.16	1.16	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	3.077	3.077	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	3.077	3.077	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	4.196	4.196	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	3.089	3.089	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,%]
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	1.376	1.376	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	4.19	4.19	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	4.373	4.373	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	1.376	1.376	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	1.16	1.16	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	3.077	3.077	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	3.077	3.077	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	4.196	4.196	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	3.089	3.089	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	1.376	1.376	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	1.376	1.376	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	4.19	4.19	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	4.373	4.373	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	3.514	3.514	0	%100
76	MP1A	Z	0	0	0	%100
77	MP2A	X	3.888	3.888	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	3.514	3.514	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	3.514	3.514	0	%100
82	MP4A	Z	0	0	0	%100
83	M181	X	3.267	3.267	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	3.514	3.514	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	3.888	3.888	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	3.514	3.514	0	%100
90	MP3C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
91	MP4C	X	3.514	3.514	0	%100
92	MP4C	Z	0	0	0	%100
93	M190	X	3.267	3.267	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	3.514	3.514	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	3.888	3.888	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	3.514	3.514	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	3.514	3.514	0	%100
102	MP4B	Z	0	0	0	%100
103	M101A	X	2.885	2.885	0	%100
104	M101A	Z	0	0	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	0	0	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	0	0	0	%100
109	M120A	X	2.916	2.916	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	2.916	2.916	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	4.88	4.88	0	%100
114	M132A	Z	0	0	0	%100
115	M133A	X	3.971	3.971	0	%100
116	M133A	Z	0	0	0	%100
117	M134A	X	3.971	3.971	0	%100
118	M134A	Z	0	0	0	%100
119	M125B	X	3.022	3.022	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	3.022	3.022	0	%100
122	M130A	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	M100	X	3.013	3.013	0	%100
2	M100	Z	1.739	1.739	0	%100
3	M101	X	.888	.888	0	%100
4	M101	Z	.513	.513	0	%100
5	M102	X	.888	.888	0	%100
6	M102	Z	.513	.513	0	%100
7	M103	X	1.211	1.211	0	%100
8	M103	Z	.699	.699	0	%100
9	M106	X	.892	.892	0	%100
10	M106	Z	.515	.515	0	%100
11	M107	X	3.567	3.567	0	%100
12	M107	Z	2.059	2.059	0	%100
13	M111	X	3.575	3.575	0	%100
14	M111	Z	2.064	2.064	0	%100
15	M112	X	1.21	1.21	0	%100
16	M112	Z	.698	.698	0	%100
17	M114	X	1.262	1.262	0	%100
18	M114	Z	.729	.729	0	%100
19	M116	X	3.575	3.575	0	%100
20	M116	Z	2.064	2.064	0	%100
21	M117	X	4.838	4.838	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,%]
22	M117	Z	2.793	2.793	0	%100
23	M119	X	5.05	5.05	0	%100
24	M119	Z	2.915	2.915	0	%100
25	M124	X	3.013	3.013	0	%100
26	M124	Z	1.739	1.739	0	%100
27	M125	X	.888	.888	0	%100
28	M125	Z	.513	.513	0	%100
29	M126	X	.888	.888	0	%100
30	M126	Z	.513	.513	0	%100
31	M127	X	1.211	1.211	0	%100
32	M127	Z	.699	.699	0	%100
33	M130	X	3.567	3.567	0	%100
34	M130	Z	2.059	2.059	0	%100
35	M131	X	.892	.892	0	%100
36	M131	Z	.515	.515	0	%100
37	M135	X	3.575	3.575	0	%100
38	M135	Z	2.064	2.064	0	%100
39	M136	X	4.838	4.838	0	%100
40	M136	Z	2.793	2.793	0	%100
41	M138	X	5.05	5.05	0	%100
42	M138	Z	2.915	2.915	0	%100
43	M140	X	3.575	3.575	0	%100
44	M140	Z	2.064	2.064	0	%100
45	M141	X	1.21	1.21	0	%100
46	M141	Z	.698	.698	0	%100
47	M143	X	1.262	1.262	0	%100
48	M143	Z	.729	.729	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	3.553	3.553	0	%100
52	M149	Z	2.052	2.052	0	%100
53	M150	X	3.553	3.553	0	%100
54	M150	Z	2.052	2.052	0	%100
55	M151	X	4.845	4.845	0	%100
56	M151	Z	2.797	2.797	0	%100
57	M154	X	.892	.892	0	%100
58	M154	Z	.515	.515	0	%100
59	M155	X	.892	.892	0	%100
60	M155	Z	.515	.515	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	1.21	1.21	0	%100
64	M160	Z	.698	.698	0	%100
65	M162	X	1.262	1.262	0	%100
66	M162	Z	.729	.729	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	1.21	1.21	0	%100
70	M165	Z	.698	.698	0	%100
71	M167	X	1.262	1.262	0	%100
72	M167	Z	.729	.729	0	%100
73	M172	X	.943	.943	0	%100
74	M172	Z	.544	.544	0	%100
75	MP1A	X	3.043	3.043	0	%100
76	MP1A	Z	1.757	1.757	0	%100
77	MP2A	X	3.367	3.367	0	%100
78	MP2A	Z	1.944	1.944	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,%]
79	MP3A	X	3.043	3.043	0	%100
80	MP3A	Z	1.757	1.757	0	%100
81	MP4A	X	3.043	3.043	0	%100
82	MP4A	Z	1.757	1.757	0	%100
83	M181	X	.943	.943	0	%100
84	M181	Z	.544	.544	0	%100
85	MP1C	X	3.043	3.043	0	%100
86	MP1C	Z	1.757	1.757	0	%100
87	MP2C	X	3.367	3.367	0	%100
88	MP2C	Z	1.944	1.944	0	%100
89	MP3C	X	3.043	3.043	0	%100
90	MP3C	Z	1.757	1.757	0	%100
91	MP4C	X	3.043	3.043	0	%100
92	MP4C	Z	1.757	1.757	0	%100
93	M190	X	3.772	3.772	0	%100
94	M190	Z	2.178	2.178	0	%100
95	MP1B	X	3.043	3.043	0	%100
96	MP1B	Z	1.757	1.757	0	%100
97	MP2B	X	3.367	3.367	0	%100
98	MP2B	Z	1.944	1.944	0	%100
99	MP3B	X	3.043	3.043	0	%100
100	MP3B	Z	1.757	1.757	0	%100
101	MP4B	X	3.043	3.043	0	%100
102	MP4B	Z	1.757	1.757	0	%100
103	M101A	X	2.498	2.498	0	%100
104	M101A	Z	1.443	1.443	0	%100
105	M102A	X	.872	.872	0	%100
106	M102A	Z	.504	.504	0	%100
107	M116A	X	.842	.842	0	%100
108	M116A	Z	.486	.486	0	%100
109	M120A	X	.842	.842	0	%100
110	M120A	Z	.486	.486	0	%100
111	M125A	X	3.367	3.367	0	%100
112	M125A	Z	1.944	1.944	0	%100
113	M132A	X	3.964	3.964	0	%100
114	M132A	Z	2.288	2.288	0	%100
115	M133A	X	3.964	3.964	0	%100
116	M133A	Z	2.288	2.288	0	%100
117	M134A	X	3.177	3.177	0	%100
118	M134A	Z	1.834	1.834	0	%100
119	M125B	X	.872	.872	0	%100
120	M125B	Z	.504	.504	0	%100
121	M130A	X	3.49	3.49	0	%100
122	M130A	Z	2.015	2.015	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	M100	X	.58	.58	0	%100
2	M100	Z	1.004	1.004	0	%100
3	M101	X	1.539	1.539	0	%100
4	M101	Z	2.665	2.665	0	%100
5	M102	X	1.539	1.539	0	%100
6	M102	Z	2.665	2.665	0	%100
7	M103	X	2.098	2.098	0	%100
8	M103	Z	3.634	3.634	0	%100
9	M106	X	0	0	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,%]
10	M106	Z	0	0	0	%100
11	M107	X	1.544	1.544	0	%100
12	M107	Z	2.675	2.675	0	%100
13	M111	X	.688	.688	0	%100
14	M111	Z	1.192	1.192	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	.688	.688	0	%100
20	M116	Z	1.192	1.192	0	%100
21	M117	X	2.095	2.095	0	%100
22	M117	Z	3.629	3.629	0	%100
23	M119	X	2.186	2.186	0	%100
24	M119	Z	3.787	3.787	0	%100
25	M124	X	2.319	2.319	0	%100
26	M124	Z	4.017	4.017	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	1.544	1.544	0	%100
34	M130	Z	2.675	2.675	0	%100
35	M131	X	1.544	1.544	0	%100
36	M131	Z	2.675	2.675	0	%100
37	M135	X	2.752	2.752	0	%100
38	M135	Z	4.766	4.766	0	%100
39	M136	X	2.095	2.095	0	%100
40	M136	Z	3.629	3.629	0	%100
41	M138	X	2.186	2.186	0	%100
42	M138	Z	3.787	3.787	0	%100
43	M140	X	2.752	2.752	0	%100
44	M140	Z	4.766	4.766	0	%100
45	M141	X	2.095	2.095	0	%100
46	M141	Z	3.629	3.629	0	%100
47	M143	X	2.186	2.186	0	%100
48	M143	Z	3.787	3.787	0	%100
49	M148	X	.58	.58	0	%100
50	M148	Z	1.004	1.004	0	%100
51	M149	X	1.539	1.539	0	%100
52	M149	Z	2.665	2.665	0	%100
53	M150	X	1.539	1.539	0	%100
54	M150	Z	2.665	2.665	0	%100
55	M151	X	2.098	2.098	0	%100
56	M151	Z	3.634	3.634	0	%100
57	M154	X	1.544	1.544	0	%100
58	M154	Z	2.675	2.675	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	.688	.688	0	%100
62	M159	Z	1.192	1.192	0	%100
63	M160	X	2.095	2.095	0	%100
64	M160	Z	3.629	3.629	0	%100
65	M162	X	2.186	2.186	0	%100
66	M162	Z	3.787	3.787	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,%]
67	M164	X	.688	.688	0	%100
68	M164	Z	1.192	1.192	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	1.633	1.633	0	%100
74	M172	Z	2.829	2.829	0	%100
75	MP1A	X	1.757	1.757	0	%100
76	MP1A	Z	3.043	3.043	0	%100
77	MP2A	X	1.944	1.944	0	%100
78	MP2A	Z	3.367	3.367	0	%100
79	MP3A	X	1.757	1.757	0	%100
80	MP3A	Z	3.043	3.043	0	%100
81	MP4A	X	1.757	1.757	0	%100
82	MP4A	Z	3.043	3.043	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	1.757	1.757	0	%100
86	MP1C	Z	3.043	3.043	0	%100
87	MP2C	X	1.944	1.944	0	%100
88	MP2C	Z	3.367	3.367	0	%100
89	MP3C	X	1.757	1.757	0	%100
90	MP3C	Z	3.043	3.043	0	%100
91	MP4C	X	1.757	1.757	0	%100
92	MP4C	Z	3.043	3.043	0	%100
93	M190	X	1.633	1.633	0	%100
94	M190	Z	2.829	2.829	0	%100
95	MP1B	X	1.757	1.757	0	%100
96	MP1B	Z	3.043	3.043	0	%100
97	MP2B	X	1.944	1.944	0	%100
98	MP2B	Z	3.367	3.367	0	%100
99	MP3B	X	1.757	1.757	0	%100
100	MP3B	Z	3.043	3.043	0	%100
101	MP4B	X	1.757	1.757	0	%100
102	MP4B	Z	3.043	3.043	0	%100
103	M101A	X	1.443	1.443	0	%100
104	M101A	Z	2.498	2.498	0	%100
105	M102A	X	1.511	1.511	0	%100
106	M102A	Z	2.617	2.617	0	%100
107	M116A	X	1.458	1.458	0	%100
108	M116A	Z	2.525	2.525	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	1.458	1.458	0	%100
112	M125A	Z	2.525	2.525	0	%100
113	M132A	X	1.985	1.985	0	%100
114	M132A	Z	3.439	3.439	0	%100
115	M133A	X	2.44	2.44	0	%100
116	M133A	Z	4.226	4.226	0	%100
117	M134A	X	1.985	1.985	0	%100
118	M134A	Z	3.439	3.439	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	1.511	1.511	0	%100
122	M130A	Z	2.617	2.617	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	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	4.103	4.103	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	4.103	4.103	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	5.595	5.595	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	1.03	1.03	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	1.03	1.03	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	1.397	1.397	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	1.458	1.458	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	1.397	1.397	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	1.458	1.458	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	3.479	3.479	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	1.026	1.026	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	1.026	1.026	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	1.399	1.399	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	1.03	1.03	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	4.118	4.118	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	4.128	4.128	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	1.397	1.397	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	1.458	1.458	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	4.128	4.128	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	5.587	5.587	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	5.831	5.831	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	3.479	3.479	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	1.026	1.026	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	1.026	1.026	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	1.399	1.399	0	%100
57	M154	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M154	Z	4.118	4.118	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	1.03	1.03	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	4.128	4.128	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	5.587	5.587	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	5.831	5.831	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	4.128	4.128	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	1.397	1.397	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	1.458	1.458	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	4.356	4.356	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	3.514	3.514	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	3.888	3.888	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	3.514	3.514	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	3.514	3.514	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	1.089	1.089	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	3.514	3.514	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	3.888	3.888	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	3.514	3.514	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	3.514	3.514	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	1.089	1.089	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	3.514	3.514	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	3.888	3.888	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	3.514	3.514	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	3.514	3.514	0	%100
103	M101A	X	0	0	0	%100
104	M101A	Z	2.885	2.885	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	4.029	4.029	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	3.888	3.888	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	.972	.972	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	.972	.972	0	%100
113	M132A	X	0	0	0	%100
114	M132A	Z	3.668	3.668	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,%]
115	M133A	X	0	0	0	%100
116	M133A	Z	4.577	4.577	0	%100
117	M134A	X	0	0	0	%100
118	M134A	Z	4.577	4.577	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	1.007	1.007	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	1.007	1.007	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	M100	X	-.58	-.58	0	%100
2	M100	Z	1.004	1.004	0	%100
3	M101	X	-1.539	-1.539	0	%100
4	M101	Z	2.665	2.665	0	%100
5	M102	X	-1.539	-1.539	0	%100
6	M102	Z	2.665	2.665	0	%100
7	M103	X	-2.098	-2.098	0	%100
8	M103	Z	3.634	3.634	0	%100
9	M106	X	-1.544	-1.544	0	%100
10	M106	Z	2.675	2.675	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-.688	-.688	0	%100
14	M111	Z	1.192	1.192	0	%100
15	M112	X	-2.095	-2.095	0	%100
16	M112	Z	3.629	3.629	0	%100
17	M114	X	-2.186	-2.186	0	%100
18	M114	Z	3.787	3.787	0	%100
19	M116	X	-.688	-.688	0	%100
20	M116	Z	1.192	1.192	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-.58	-.58	0	%100
26	M124	Z	1.004	1.004	0	%100
27	M125	X	-1.539	-1.539	0	%100
28	M125	Z	2.665	2.665	0	%100
29	M126	X	-1.539	-1.539	0	%100
30	M126	Z	2.665	2.665	0	%100
31	M127	X	-2.098	-2.098	0	%100
32	M127	Z	3.634	3.634	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	-1.544	-1.544	0	%100
36	M131	Z	2.675	2.675	0	%100
37	M135	X	-.688	-.688	0	%100
38	M135	Z	1.192	1.192	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-.688	-.688	0	%100
44	M140	Z	1.192	1.192	0	%100
45	M141	X	-2.095	-2.095	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,%]
46	M141	Z	3.629	3.629	0	%100
47	M143	X	-2.186	-2.186	0	%100
48	M143	Z	3.787	3.787	0	%100
49	M148	X	-2.319	-2.319	0	%100
50	M148	Z	4.017	4.017	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	-1.544	-1.544	0	%100
58	M154	Z	2.675	2.675	0	%100
59	M155	X	-1.544	-1.544	0	%100
60	M155	Z	2.675	2.675	0	%100
61	M159	X	-2.752	-2.752	0	%100
62	M159	Z	4.766	4.766	0	%100
63	M160	X	-2.095	-2.095	0	%100
64	M160	Z	3.629	3.629	0	%100
65	M162	X	-2.186	-2.186	0	%100
66	M162	Z	3.787	3.787	0	%100
67	M164	X	-2.752	-2.752	0	%100
68	M164	Z	4.766	4.766	0	%100
69	M165	X	-2.095	-2.095	0	%100
70	M165	Z	3.629	3.629	0	%100
71	M167	X	-2.186	-2.186	0	%100
72	M167	Z	3.787	3.787	0	%100
73	M172	X	-1.633	-1.633	0	%100
74	M172	Z	2.829	2.829	0	%100
75	MP1A	X	-1.757	-1.757	0	%100
76	MP1A	Z	3.043	3.043	0	%100
77	MP2A	X	-1.944	-1.944	0	%100
78	MP2A	Z	3.367	3.367	0	%100
79	MP3A	X	-1.757	-1.757	0	%100
80	MP3A	Z	3.043	3.043	0	%100
81	MP4A	X	-1.757	-1.757	0	%100
82	MP4A	Z	3.043	3.043	0	%100
83	M181	X	-1.633	-1.633	0	%100
84	M181	Z	2.829	2.829	0	%100
85	MP1C	X	-1.757	-1.757	0	%100
86	MP1C	Z	3.043	3.043	0	%100
87	MP2C	X	-1.944	-1.944	0	%100
88	MP2C	Z	3.367	3.367	0	%100
89	MP3C	X	-1.757	-1.757	0	%100
90	MP3C	Z	3.043	3.043	0	%100
91	MP4C	X	-1.757	-1.757	0	%100
92	MP4C	Z	3.043	3.043	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	-1.757	-1.757	0	%100
96	MP1B	Z	3.043	3.043	0	%100
97	MP2B	X	-1.944	-1.944	0	%100
98	MP2B	Z	3.367	3.367	0	%100
99	MP3B	X	-1.757	-1.757	0	%100
100	MP3B	Z	3.043	3.043	0	%100
101	MP4B	X	-1.757	-1.757	0	%100
102	MP4B	Z	3.043	3.043	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,%]
103	M101A	X	-1.443	-1.443	0	%100
104	M101A	Z	2.498	2.498	0	%100
105	M102A	X	-1.511	-1.511	0	%100
106	M102A	Z	2.617	2.617	0	%100
107	M116A	X	-1.458	-1.458	0	%100
108	M116A	Z	2.525	2.525	0	%100
109	M120A	X	-1.458	-1.458	0	%100
110	M120A	Z	2.525	2.525	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	-1.985	-1.985	0	%100
114	M132A	Z	3.439	3.439	0	%100
115	M133A	X	-1.985	-1.985	0	%100
116	M133A	Z	3.439	3.439	0	%100
117	M134A	X	-2.44	-2.44	0	%100
118	M134A	Z	4.226	4.226	0	%100
119	M125B	X	-1.511	-1.511	0	%100
120	M125B	Z	2.617	2.617	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M100	X	-3.013	-3.013	0	%100
2	M100	Z	1.739	1.739	0	%100
3	M101	X	-.888	-.888	0	%100
4	M101	Z	.513	.513	0	%100
5	M102	X	-.888	-.888	0	%100
6	M102	Z	.513	.513	0	%100
7	M103	X	-1.211	-1.211	0	%100
8	M103	Z	.699	.699	0	%100
9	M106	X	-3.567	-3.567	0	%100
10	M106	Z	2.059	2.059	0	%100
11	M107	X	-.892	-.892	0	%100
12	M107	Z	.515	.515	0	%100
13	M111	X	-3.575	-3.575	0	%100
14	M111	Z	2.064	2.064	0	%100
15	M112	X	-4.838	-4.838	0	%100
16	M112	Z	2.793	2.793	0	%100
17	M114	X	-5.05	-5.05	0	%100
18	M114	Z	2.915	2.915	0	%100
19	M116	X	-3.575	-3.575	0	%100
20	M116	Z	2.064	2.064	0	%100
21	M117	X	-1.21	-1.21	0	%100
22	M117	Z	.698	.698	0	%100
23	M119	X	-1.262	-1.262	0	%100
24	M119	Z	.729	.729	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-3.553	-3.553	0	%100
28	M125	Z	2.052	2.052	0	%100
29	M126	X	-3.553	-3.553	0	%100
30	M126	Z	2.052	2.052	0	%100
31	M127	X	-4.845	-4.845	0	%100
32	M127	Z	2.797	2.797	0	%100
33	M130	X	-.892	-.892	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,%]
34	M130	Z	.515	.515	0	%100
35	M131	X	-.892	-.892	0	%100
36	M131	Z	.515	.515	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-1.21	-1.21	0	%100
40	M136	Z	.698	.698	0	%100
41	M138	X	-1.262	-1.262	0	%100
42	M138	Z	.729	.729	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	-1.21	-1.21	0	%100
46	M141	Z	.698	.698	0	%100
47	M143	X	-1.262	-1.262	0	%100
48	M143	Z	.729	.729	0	%100
49	M148	X	-3.013	-3.013	0	%100
50	M148	Z	1.739	1.739	0	%100
51	M149	X	-.888	-.888	0	%100
52	M149	Z	.513	.513	0	%100
53	M150	X	-.888	-.888	0	%100
54	M150	Z	.513	.513	0	%100
55	M151	X	-1.211	-1.211	0	%100
56	M151	Z	.699	.699	0	%100
57	M154	X	-.892	-.892	0	%100
58	M154	Z	.515	.515	0	%100
59	M155	X	-3.567	-3.567	0	%100
60	M155	Z	2.059	2.059	0	%100
61	M159	X	-3.575	-3.575	0	%100
62	M159	Z	2.064	2.064	0	%100
63	M160	X	-1.21	-1.21	0	%100
64	M160	Z	.698	.698	0	%100
65	M162	X	-1.262	-1.262	0	%100
66	M162	Z	.729	.729	0	%100
67	M164	X	-3.575	-3.575	0	%100
68	M164	Z	2.064	2.064	0	%100
69	M165	X	-4.838	-4.838	0	%100
70	M165	Z	2.793	2.793	0	%100
71	M167	X	-5.05	-5.05	0	%100
72	M167	Z	2.915	2.915	0	%100
73	M172	X	-.943	-.943	0	%100
74	M172	Z	.544	.544	0	%100
75	MP1A	X	-3.043	-3.043	0	%100
76	MP1A	Z	1.757	1.757	0	%100
77	MP2A	X	-3.367	-3.367	0	%100
78	MP2A	Z	1.944	1.944	0	%100
79	MP3A	X	-3.043	-3.043	0	%100
80	MP3A	Z	1.757	1.757	0	%100
81	MP4A	X	-3.043	-3.043	0	%100
82	MP4A	Z	1.757	1.757	0	%100
83	M181	X	-3.772	-3.772	0	%100
84	M181	Z	2.178	2.178	0	%100
85	MP1C	X	-3.043	-3.043	0	%100
86	MP1C	Z	1.757	1.757	0	%100
87	MP2C	X	-3.367	-3.367	0	%100
88	MP2C	Z	1.944	1.944	0	%100
89	MP3C	X	-3.043	-3.043	0	%100
90	MP3C	Z	1.757	1.757	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,%]
91	MP4C	X	-3.043	-3.043	0	%100
92	MP4C	Z	1.757	1.757	0	%100
93	M190	X	-.943	-.943	0	%100
94	M190	Z	.544	.544	0	%100
95	MP1B	X	-3.043	-3.043	0	%100
96	MP1B	Z	1.757	1.757	0	%100
97	MP2B	X	-3.367	-3.367	0	%100
98	MP2B	Z	1.944	1.944	0	%100
99	MP3B	X	-3.043	-3.043	0	%100
100	MP3B	Z	1.757	1.757	0	%100
101	MP4B	X	-3.043	-3.043	0	%100
102	MP4B	Z	1.757	1.757	0	%100
103	M101A	X	-2.498	-2.498	0	%100
104	M101A	Z	1.443	1.443	0	%100
105	M102A	X	-.872	-.872	0	%100
106	M102A	Z	.504	.504	0	%100
107	M116A	X	-.842	-.842	0	%100
108	M116A	Z	.486	.486	0	%100
109	M120A	X	-3.367	-3.367	0	%100
110	M120A	Z	1.944	1.944	0	%100
111	M125A	X	-.842	-.842	0	%100
112	M125A	Z	.486	.486	0	%100
113	M132A	X	-3.964	-3.964	0	%100
114	M132A	Z	2.288	2.288	0	%100
115	M133A	X	-3.177	-3.177	0	%100
116	M133A	Z	1.834	1.834	0	%100
117	M134A	X	-3.964	-3.964	0	%100
118	M134A	Z	2.288	2.288	0	%100
119	M125B	X	-3.49	-3.49	0	%100
120	M125B	Z	2.015	2.015	0	%100
121	M130A	X	-.872	-.872	0	%100
122	M130A	Z	.504	.504	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	M100	X	-4.638	-4.638	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	-3.089	-3.089	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-3.089	-3.089	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-5.504	-5.504	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	-4.19	-4.19	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	-4.373	-4.373	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-5.504	-5.504	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	-4.19	-4.19	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,%]
22	M117	Z	0	0	0	%100
23	M119	X	-4.373	-4.373	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-1.16	-1.16	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-3.077	-3.077	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	-3.077	-3.077	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	-4.196	-4.196	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-3.089	-3.089	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	-1.376	-1.376	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-4.19	-4.19	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	-4.373	-4.373	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-1.376	-1.376	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	-1.16	-1.16	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-3.077	-3.077	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	-3.077	-3.077	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	-4.196	-4.196	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	-3.089	-3.089	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-1.376	-1.376	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	-1.376	-1.376	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-4.19	-4.19	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	-4.373	-4.373	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	-3.514	-3.514	0	%100
76	MP1A	Z	0	0	0	%100
77	MP2A	X	-3.888	-3.888	0	%100
78	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	MP3A	X	-3.514	-3.514	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	-3.514	-3.514	0	%100
82	MP4A	Z	0	0	0	%100
83	M181	X	-3.267	-3.267	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	-3.514	-3.514	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	-3.888	-3.888	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	-3.514	-3.514	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	-3.514	-3.514	0	%100
92	MP4C	Z	0	0	0	%100
93	M190	X	-3.267	-3.267	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	-3.514	-3.514	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-3.888	-3.888	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-3.514	-3.514	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-3.514	-3.514	0	%100
102	MP4B	Z	0	0	0	%100
103	M101A	X	-2.885	-2.885	0	%100
104	M101A	Z	0	0	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	0	0	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	0	0	0	%100
109	M120A	X	-2.916	-2.916	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	-2.916	-2.916	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	-4.88	-4.88	0	%100
114	M132A	Z	0	0	0	%100
115	M133A	X	-3.971	-3.971	0	%100
116	M133A	Z	0	0	0	%100
117	M134A	X	-3.971	-3.971	0	%100
118	M134A	Z	0	0	0	%100
119	M125B	X	-3.022	-3.022	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	-3.022	-3.022	0	%100
122	M130A	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	M100	X	-3.013	-3.013	0	%100
2	M100	Z	-1.739	-1.739	0	%100
3	M101	X	-.888	-.888	0	%100
4	M101	Z	-.513	-.513	0	%100
5	M102	X	-.888	-.888	0	%100
6	M102	Z	-.513	-.513	0	%100
7	M103	X	-1.211	-1.211	0	%100
8	M103	Z	-.699	-.699	0	%100
9	M106	X	-.892	-.892	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,%]
10	M106	Z	-.515	-.515	0	%100
11	M107	X	-3.567	-3.567	0	%100
12	M107	Z	-2.059	-2.059	0	%100
13	M111	X	-3.575	-3.575	0	%100
14	M111	Z	-2.064	-2.064	0	%100
15	M112	X	-1.21	-1.21	0	%100
16	M112	Z	-.698	-.698	0	%100
17	M114	X	-1.262	-1.262	0	%100
18	M114	Z	-.729	-.729	0	%100
19	M116	X	-3.575	-3.575	0	%100
20	M116	Z	-2.064	-2.064	0	%100
21	M117	X	-4.838	-4.838	0	%100
22	M117	Z	-2.793	-2.793	0	%100
23	M119	X	-5.05	-5.05	0	%100
24	M119	Z	-2.915	-2.915	0	%100
25	M124	X	-3.013	-3.013	0	%100
26	M124	Z	-1.739	-1.739	0	%100
27	M125	X	-.888	-.888	0	%100
28	M125	Z	-.513	-.513	0	%100
29	M126	X	-.888	-.888	0	%100
30	M126	Z	-.513	-.513	0	%100
31	M127	X	-1.211	-1.211	0	%100
32	M127	Z	-.699	-.699	0	%100
33	M130	X	-3.567	-3.567	0	%100
34	M130	Z	-2.059	-2.059	0	%100
35	M131	X	-.892	-.892	0	%100
36	M131	Z	-.515	-.515	0	%100
37	M135	X	-3.575	-3.575	0	%100
38	M135	Z	-2.064	-2.064	0	%100
39	M136	X	-4.838	-4.838	0	%100
40	M136	Z	-2.793	-2.793	0	%100
41	M138	X	-5.05	-5.05	0	%100
42	M138	Z	-2.915	-2.915	0	%100
43	M140	X	-3.575	-3.575	0	%100
44	M140	Z	-2.064	-2.064	0	%100
45	M141	X	-1.21	-1.21	0	%100
46	M141	Z	-.698	-.698	0	%100
47	M143	X	-1.262	-1.262	0	%100
48	M143	Z	-.729	-.729	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-3.553	-3.553	0	%100
52	M149	Z	-2.052	-2.052	0	%100
53	M150	X	-3.553	-3.553	0	%100
54	M150	Z	-2.052	-2.052	0	%100
55	M151	X	-4.845	-4.845	0	%100
56	M151	Z	-2.797	-2.797	0	%100
57	M154	X	-.892	-.892	0	%100
58	M154	Z	-.515	-.515	0	%100
59	M155	X	-.892	-.892	0	%100
60	M155	Z	-.515	-.515	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	-1.21	-1.21	0	%100
64	M160	Z	-.698	-.698	0	%100
65	M162	X	-1.262	-1.262	0	%100
66	M162	Z	-.729	-.729	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,%]
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-1.21	-1.21	0	%100
70	M165	Z	-.698	-.698	0	%100
71	M167	X	-1.262	-1.262	0	%100
72	M167	Z	-.729	-.729	0	%100
73	M172	X	-.943	-.943	0	%100
74	M172	Z	-.544	-.544	0	%100
75	MP1A	X	-3.043	-3.043	0	%100
76	MP1A	Z	-1.757	-1.757	0	%100
77	MP2A	X	-3.367	-3.367	0	%100
78	MP2A	Z	-1.944	-1.944	0	%100
79	MP3A	X	-3.043	-3.043	0	%100
80	MP3A	Z	-1.757	-1.757	0	%100
81	MP4A	X	-3.043	-3.043	0	%100
82	MP4A	Z	-1.757	-1.757	0	%100
83	M181	X	-.943	-.943	0	%100
84	M181	Z	-.544	-.544	0	%100
85	MP1C	X	-3.043	-3.043	0	%100
86	MP1C	Z	-1.757	-1.757	0	%100
87	MP2C	X	-3.367	-3.367	0	%100
88	MP2C	Z	-1.944	-1.944	0	%100
89	MP3C	X	-3.043	-3.043	0	%100
90	MP3C	Z	-1.757	-1.757	0	%100
91	MP4C	X	-3.043	-3.043	0	%100
92	MP4C	Z	-1.757	-1.757	0	%100
93	M190	X	-3.772	-3.772	0	%100
94	M190	Z	-2.178	-2.178	0	%100
95	MP1B	X	-3.043	-3.043	0	%100
96	MP1B	Z	-1.757	-1.757	0	%100
97	MP2B	X	-3.367	-3.367	0	%100
98	MP2B	Z	-1.944	-1.944	0	%100
99	MP3B	X	-3.043	-3.043	0	%100
100	MP3B	Z	-1.757	-1.757	0	%100
101	MP4B	X	-3.043	-3.043	0	%100
102	MP4B	Z	-1.757	-1.757	0	%100
103	M101A	X	-2.498	-2.498	0	%100
104	M101A	Z	-1.443	-1.443	0	%100
105	M102A	X	-.872	-.872	0	%100
106	M102A	Z	-.504	-.504	0	%100
107	M116A	X	-.842	-.842	0	%100
108	M116A	Z	-.486	-.486	0	%100
109	M120A	X	-.842	-.842	0	%100
110	M120A	Z	-.486	-.486	0	%100
111	M125A	X	-3.367	-3.367	0	%100
112	M125A	Z	-1.944	-1.944	0	%100
113	M132A	X	-3.964	-3.964	0	%100
114	M132A	Z	-2.288	-2.288	0	%100
115	M133A	X	-3.964	-3.964	0	%100
116	M133A	Z	-2.288	-2.288	0	%100
117	M134A	X	-3.177	-3.177	0	%100
118	M134A	Z	-1.834	-1.834	0	%100
119	M125B	X	-.872	-.872	0	%100
120	M125B	Z	-.504	-.504	0	%100
121	M130A	X	-3.49	-3.49	0	%100
122	M130A	Z	-2.015	-2.015	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	M100	X	-.58	-.58	0	%100
2	M100	Z	-1.004	-1.004	0	%100
3	M101	X	-1.539	-1.539	0	%100
4	M101	Z	-2.665	-2.665	0	%100
5	M102	X	-1.539	-1.539	0	%100
6	M102	Z	-2.665	-2.665	0	%100
7	M103	X	-2.098	-2.098	0	%100
8	M103	Z	-3.634	-3.634	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-1.544	-1.544	0	%100
12	M107	Z	-2.675	-2.675	0	%100
13	M111	X	-.688	-.688	0	%100
14	M111	Z	-1.192	-1.192	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-.688	-.688	0	%100
20	M116	Z	-1.192	-1.192	0	%100
21	M117	X	-2.095	-2.095	0	%100
22	M117	Z	-3.629	-3.629	0	%100
23	M119	X	-2.186	-2.186	0	%100
24	M119	Z	-3.787	-3.787	0	%100
25	M124	X	-2.319	-2.319	0	%100
26	M124	Z	-4.017	-4.017	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-1.544	-1.544	0	%100
34	M130	Z	-2.675	-2.675	0	%100
35	M131	X	-1.544	-1.544	0	%100
36	M131	Z	-2.675	-2.675	0	%100
37	M135	X	-2.752	-2.752	0	%100
38	M135	Z	-4.766	-4.766	0	%100
39	M136	X	-2.095	-2.095	0	%100
40	M136	Z	-3.629	-3.629	0	%100
41	M138	X	-2.186	-2.186	0	%100
42	M138	Z	-3.787	-3.787	0	%100
43	M140	X	-2.752	-2.752	0	%100
44	M140	Z	-4.766	-4.766	0	%100
45	M141	X	-2.095	-2.095	0	%100
46	M141	Z	-3.629	-3.629	0	%100
47	M143	X	-2.186	-2.186	0	%100
48	M143	Z	-3.787	-3.787	0	%100
49	M148	X	-.58	-.58	0	%100
50	M148	Z	-1.004	-1.004	0	%100
51	M149	X	-1.539	-1.539	0	%100
52	M149	Z	-2.665	-2.665	0	%100
53	M150	X	-1.539	-1.539	0	%100
54	M150	Z	-2.665	-2.665	0	%100
55	M151	X	-2.098	-2.098	0	%100
56	M151	Z	-3.634	-3.634	0	%100
57	M154	X	-1.544	-1.544	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,%]
58	M154	Z	-2.675	-2.675	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-.688	-.688	0	%100
62	M159	Z	-1.192	-1.192	0	%100
63	M160	X	-2.095	-2.095	0	%100
64	M160	Z	-3.629	-3.629	0	%100
65	M162	X	-2.186	-2.186	0	%100
66	M162	Z	-3.787	-3.787	0	%100
67	M164	X	-.688	-.688	0	%100
68	M164	Z	-1.192	-1.192	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	-1.633	-1.633	0	%100
74	M172	Z	-2.829	-2.829	0	%100
75	MP1A	X	-1.757	-1.757	0	%100
76	MP1A	Z	-3.043	-3.043	0	%100
77	MP2A	X	-1.944	-1.944	0	%100
78	MP2A	Z	-3.367	-3.367	0	%100
79	MP3A	X	-1.757	-1.757	0	%100
80	MP3A	Z	-3.043	-3.043	0	%100
81	MP4A	X	-1.757	-1.757	0	%100
82	MP4A	Z	-3.043	-3.043	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	-1.757	-1.757	0	%100
86	MP1C	Z	-3.043	-3.043	0	%100
87	MP2C	X	-1.944	-1.944	0	%100
88	MP2C	Z	-3.367	-3.367	0	%100
89	MP3C	X	-1.757	-1.757	0	%100
90	MP3C	Z	-3.043	-3.043	0	%100
91	MP4C	X	-1.757	-1.757	0	%100
92	MP4C	Z	-3.043	-3.043	0	%100
93	M190	X	-1.633	-1.633	0	%100
94	M190	Z	-2.829	-2.829	0	%100
95	MP1B	X	-1.757	-1.757	0	%100
96	MP1B	Z	-3.043	-3.043	0	%100
97	MP2B	X	-1.944	-1.944	0	%100
98	MP2B	Z	-3.367	-3.367	0	%100
99	MP3B	X	-1.757	-1.757	0	%100
100	MP3B	Z	-3.043	-3.043	0	%100
101	MP4B	X	-1.757	-1.757	0	%100
102	MP4B	Z	-3.043	-3.043	0	%100
103	M101A	X	-1.443	-1.443	0	%100
104	M101A	Z	-2.498	-2.498	0	%100
105	M102A	X	-1.511	-1.511	0	%100
106	M102A	Z	-2.617	-2.617	0	%100
107	M116A	X	-1.458	-1.458	0	%100
108	M116A	Z	-2.525	-2.525	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	-1.458	-1.458	0	%100
112	M125A	Z	-2.525	-2.525	0	%100
113	M132A	X	-1.985	-1.985	0	%100
114	M132A	Z	-3.439	-3.439	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,%]
115	M133A	X	-2.44	-2.44	0	%100
116	M133A	Z	-4.226	-4.226	0	%100
117	M134A	X	-1.985	-1.985	0	%100
118	M134A	Z	-3.439	-3.439	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	-1.511	-1.511	0	%100
122	M130A	Z	-2.617	-2.617	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	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	-.999	-.999	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	-.999	-.999	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	-1.617	-1.617	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	-.224	-.224	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	-.224	-.224	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	-.412	-.412	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	-.434	-.434	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	-.412	-.412	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	-.434	-.434	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	-.784	-.784	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	-.25	-.25	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	-.25	-.25	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	-.404	-.404	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	-.224	-.224	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	-.898	-.898	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	-1.213	-1.213	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	-.412	-.412	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	-.434	-.434	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	-1.213	-1.213	0	%100
45	M141	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,%]
46	M141	Z	-1.647	-1.647	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	-1.734	-1.734	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	-.784	-.784	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	-.25	-.25	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	-.25	-.25	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	-.404	-.404	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	-.898	-.898	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	-.224	-.224	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	-1.213	-1.213	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	-1.647	-1.647	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	-1.734	-1.734	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	-1.213	-1.213	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	-.412	-.412	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	-.434	-.434	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	-.829	-.829	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	-.64	-.64	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	-.775	-.775	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	-.64	-.64	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	-.64	-.64	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	-.207	-.207	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	-.64	-.64	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	-.775	-.775	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	-.64	-.64	0	%100
91	MP4C	X	0	0	0	%100
92	MP4C	Z	-.64	-.64	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	-.207	-.207	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	-.64	-.64	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	-.775	-.775	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	-.64	-.64	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	-.64	-.64	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,%]
103	M101A	X	0	0	0	%100
104	M101A	Z	-.523	-.523	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	-.983	-.983	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	-.775	-.775	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	-.194	-.194	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	-.194	-.194	0	%100
113	M132A	X	0	0	0	%100
114	M132A	Z	-1.026	-1.026	0	%100
115	M133A	X	0	0	0	%100
116	M133A	Z	-1.132	-1.132	0	%100
117	M134A	X	0	0	0	%100
118	M134A	Z	-1.132	-1.132	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	-.246	-.246	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	-.246	-.246	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	M100	X	.131	.131	0	%100
2	M100	Z	-.226	-.226	0	%100
3	M101	X	.375	.375	0	%100
4	M101	Z	-.649	-.649	0	%100
5	M102	X	.375	.375	0	%100
6	M102	Z	-.649	-.649	0	%100
7	M103	X	.606	.606	0	%100
8	M103	Z	-1.05	-1.05	0	%100
9	M106	X	.337	.337	0	%100
10	M106	Z	-.583	-.583	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	.202	.202	0	%100
14	M111	Z	-.35	-.35	0	%100
15	M112	X	.618	.618	0	%100
16	M112	Z	-1.07	-1.07	0	%100
17	M114	X	.65	.65	0	%100
18	M114	Z	-1.127	-1.127	0	%100
19	M116	X	.202	.202	0	%100
20	M116	Z	-.35	-.35	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	.131	.131	0	%100
26	M124	Z	-.226	-.226	0	%100
27	M125	X	.375	.375	0	%100
28	M125	Z	-.649	-.649	0	%100
29	M126	X	.375	.375	0	%100
30	M126	Z	-.649	-.649	0	%100
31	M127	X	.606	.606	0	%100
32	M127	Z	-1.05	-1.05	0	%100
33	M130	X	0	0	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,%]
34	M130	Z	0	0	0	%100
35	M131	X	.337	.337	0	%100
36	M131	Z	-.583	-.583	0	%100
37	M135	X	.202	.202	0	%100
38	M135	Z	-.35	-.35	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	.202	.202	0	%100
44	M140	Z	-.35	-.35	0	%100
45	M141	X	.618	.618	0	%100
46	M141	Z	-1.07	-1.07	0	%100
47	M143	X	.65	.65	0	%100
48	M143	Z	-1.127	-1.127	0	%100
49	M148	X	.522	.522	0	%100
50	M148	Z	-.905	-.905	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	.337	.337	0	%100
58	M154	Z	-.583	-.583	0	%100
59	M155	X	.337	.337	0	%100
60	M155	Z	-.583	-.583	0	%100
61	M159	X	.808	.808	0	%100
62	M159	Z	-1.4	-1.4	0	%100
63	M160	X	.618	.618	0	%100
64	M160	Z	-1.07	-1.07	0	%100
65	M162	X	.65	.65	0	%100
66	M162	Z	-1.127	-1.127	0	%100
67	M164	X	.808	.808	0	%100
68	M164	Z	-1.4	-1.4	0	%100
69	M165	X	.618	.618	0	%100
70	M165	Z	-1.07	-1.07	0	%100
71	M167	X	.65	.65	0	%100
72	M167	Z	-1.127	-1.127	0	%100
73	M172	X	.311	.311	0	%100
74	M172	Z	-.539	-.539	0	%100
75	MP1A	X	.32	.32	0	%100
76	MP1A	Z	-.554	-.554	0	%100
77	MP2A	X	.387	.387	0	%100
78	MP2A	Z	-.671	-.671	0	%100
79	MP3A	X	.32	.32	0	%100
80	MP3A	Z	-.554	-.554	0	%100
81	MP4A	X	.32	.32	0	%100
82	MP4A	Z	-.554	-.554	0	%100
83	M181	X	.311	.311	0	%100
84	M181	Z	-.539	-.539	0	%100
85	MP1C	X	.32	.32	0	%100
86	MP1C	Z	-.554	-.554	0	%100
87	MP2C	X	.387	.387	0	%100
88	MP2C	Z	-.671	-.671	0	%100
89	MP3C	X	.32	.32	0	%100
90	MP3C	Z	-.554	-.554	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,%]
91	MP4C	X	.32	.32	0	%100
92	MP4C	Z	-.554	-.554	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	.32	.32	0	%100
96	MP1B	Z	-.554	-.554	0	%100
97	MP2B	X	.387	.387	0	%100
98	MP2B	Z	-.671	-.671	0	%100
99	MP3B	X	.32	.32	0	%100
100	MP3B	Z	-.554	-.554	0	%100
101	MP4B	X	.32	.32	0	%100
102	MP4B	Z	-.554	-.554	0	%100
103	M101A	X	.262	.262	0	%100
104	M101A	Z	-.453	-.453	0	%100
105	M102A	X	.369	.369	0	%100
106	M102A	Z	-.639	-.639	0	%100
107	M116A	X	.291	.291	0	%100
108	M116A	Z	-.503	-.503	0	%100
109	M120A	X	.291	.291	0	%100
110	M120A	Z	-.503	-.503	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	.53	.53	0	%100
114	M132A	Z	-.919	-.919	0	%100
115	M133A	X	.53	.53	0	%100
116	M133A	Z	-.919	-.919	0	%100
117	M134A	X	.584	.584	0	%100
118	M134A	Z	-1.011	-1.011	0	%100
119	M125B	X	.369	.369	0	%100
120	M125B	Z	-.639	-.639	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M100	X	.679	.679	0	%100
2	M100	Z	-.392	-.392	0	%100
3	M101	X	.216	.216	0	%100
4	M101	Z	-.125	-.125	0	%100
5	M102	X	.216	.216	0	%100
6	M102	Z	-.125	-.125	0	%100
7	M103	X	.35	.35	0	%100
8	M103	Z	-.202	-.202	0	%100
9	M106	X	.778	.778	0	%100
10	M106	Z	-.449	-.449	0	%100
11	M107	X	.194	.194	0	%100
12	M107	Z	-.112	-.112	0	%100
13	M111	X	1.05	1.05	0	%100
14	M111	Z	-.606	-.606	0	%100
15	M112	X	1.426	1.426	0	%100
16	M112	Z	-.823	-.823	0	%100
17	M114	X	1.502	1.502	0	%100
18	M114	Z	-.867	-.867	0	%100
19	M116	X	1.05	1.05	0	%100
20	M116	Z	-.606	-.606	0	%100
21	M117	X	.357	.357	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,%]
22	M117	Z	-.206	-.206	0	%100
23	M119	X	.376	.376	0	%100
24	M119	Z	-.217	-.217	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	.865	.865	0	%100
28	M125	Z	-.5	-.5	0	%100
29	M126	X	.865	.865	0	%100
30	M126	Z	-.5	-.5	0	%100
31	M127	X	1.4	1.4	0	%100
32	M127	Z	-.808	-.808	0	%100
33	M130	X	.194	.194	0	%100
34	M130	Z	-.112	-.112	0	%100
35	M131	X	.194	.194	0	%100
36	M131	Z	-.112	-.112	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	.357	.357	0	%100
40	M136	Z	-.206	-.206	0	%100
41	M138	X	.376	.376	0	%100
42	M138	Z	-.217	-.217	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	.357	.357	0	%100
46	M141	Z	-.206	-.206	0	%100
47	M143	X	.376	.376	0	%100
48	M143	Z	-.217	-.217	0	%100
49	M148	X	.679	.679	0	%100
50	M148	Z	-.392	-.392	0	%100
51	M149	X	.216	.216	0	%100
52	M149	Z	-.125	-.125	0	%100
53	M150	X	.216	.216	0	%100
54	M150	Z	-.125	-.125	0	%100
55	M151	X	.35	.35	0	%100
56	M151	Z	-.202	-.202	0	%100
57	M154	X	.194	.194	0	%100
58	M154	Z	-.112	-.112	0	%100
59	M155	X	.778	.778	0	%100
60	M155	Z	-.449	-.449	0	%100
61	M159	X	1.05	1.05	0	%100
62	M159	Z	-.606	-.606	0	%100
63	M160	X	.357	.357	0	%100
64	M160	Z	-.206	-.206	0	%100
65	M162	X	.376	.376	0	%100
66	M162	Z	-.217	-.217	0	%100
67	M164	X	1.05	1.05	0	%100
68	M164	Z	-.606	-.606	0	%100
69	M165	X	1.426	1.426	0	%100
70	M165	Z	-.823	-.823	0	%100
71	M167	X	1.502	1.502	0	%100
72	M167	Z	-.867	-.867	0	%100
73	M172	X	.18	.18	0	%100
74	M172	Z	-.104	-.104	0	%100
75	MP1A	X	.554	.554	0	%100
76	MP1A	Z	-.32	-.32	0	%100
77	MP2A	X	.671	.671	0	%100
78	MP2A	Z	-.387	-.387	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,%]
79	MP3A	X	.554	.554	0	%100
80	MP3A	Z	-.32	-.32	0	%100
81	MP4A	X	.554	.554	0	%100
82	MP4A	Z	-.32	-.32	0	%100
83	M181	X	.718	.718	0	%100
84	M181	Z	-.415	-.415	0	%100
85	MP1C	X	.554	.554	0	%100
86	MP1C	Z	-.32	-.32	0	%100
87	MP2C	X	.671	.671	0	%100
88	MP2C	Z	-.387	-.387	0	%100
89	MP3C	X	.554	.554	0	%100
90	MP3C	Z	-.32	-.32	0	%100
91	MP4C	X	.554	.554	0	%100
92	MP4C	Z	-.32	-.32	0	%100
93	M190	X	.18	.18	0	%100
94	M190	Z	-.104	-.104	0	%100
95	MP1B	X	.554	.554	0	%100
96	MP1B	Z	-.32	-.32	0	%100
97	MP2B	X	.671	.671	0	%100
98	MP2B	Z	-.387	-.387	0	%100
99	MP3B	X	.554	.554	0	%100
100	MP3B	Z	-.32	-.32	0	%100
101	MP4B	X	.554	.554	0	%100
102	MP4B	Z	-.32	-.32	0	%100
103	M101A	X	.453	.453	0	%100
104	M101A	Z	-.262	-.262	0	%100
105	M102A	X	.213	.213	0	%100
106	M102A	Z	-.123	-.123	0	%100
107	M116A	X	.168	.168	0	%100
108	M116A	Z	-.097	-.097	0	%100
109	M120A	X	.671	.671	0	%100
110	M120A	Z	-.387	-.387	0	%100
111	M125A	X	.168	.168	0	%100
112	M125A	Z	-.097	-.097	0	%100
113	M132A	X	.98	.98	0	%100
114	M132A	Z	-.566	-.566	0	%100
115	M133A	X	.888	.888	0	%100
116	M133A	Z	-.513	-.513	0	%100
117	M134A	X	.98	.98	0	%100
118	M134A	Z	-.566	-.566	0	%100
119	M125B	X	.852	.852	0	%100
120	M125B	Z	-.492	-.492	0	%100
121	M130A	X	.213	.213	0	%100
122	M130A	Z	-.123	-.123	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	M100	X	1.045	1.045	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	.673	.673	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,%]
10	M106	Z	0	0	0	%100
11	M107	X	.673	.673	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	1.617	1.617	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	1.235	1.235	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	1.301	1.301	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	1.617	1.617	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	1.235	1.235	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	1.301	1.301	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	.261	.261	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	.749	.749	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	.749	.749	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	1.213	1.213	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	.673	.673	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	.404	.404	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	1.235	1.235	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	1.301	1.301	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	.404	.404	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	.261	.261	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	.749	.749	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	.749	.749	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	1.213	1.213	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	0	0	0	%100
59	M155	X	.673	.673	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	.404	.404	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
67	M164	X	.404	.404	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	1.235	1.235	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	1.301	1.301	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	.64	.64	0	%100
76	MP1A	Z	0	0	0	%100
77	MP2A	X	.775	.775	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	.64	.64	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	.64	.64	0	%100
82	MP4A	Z	0	0	0	%100
83	M181	X	.622	.622	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	.64	.64	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	.775	.775	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	.64	.64	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	.64	.64	0	%100
92	MP4C	Z	0	0	0	%100
93	M190	X	.622	.622	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	.64	.64	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	.775	.775	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	.64	.64	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	.64	.64	0	%100
102	MP4B	Z	0	0	0	%100
103	M101A	X	.523	.523	0	%100
104	M101A	Z	0	0	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	0	0	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	0	0	0	%100
109	M120A	X	.581	.581	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	.581	.581	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	1.167	1.167	0	%100
114	M132A	Z	0	0	0	%100
115	M133A	X	1.061	1.061	0	%100
116	M133A	Z	0	0	0	%100
117	M134A	X	1.061	1.061	0	%100
118	M134A	Z	0	0	0	%100
119	M125B	X	.738	.738	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	.738	.738	0	%100
122	M130A	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	M100	X	.679	.679	0	%100
2	M100	Z	.392	.392	0	%100
3	M101	X	.216	.216	0	%100
4	M101	Z	.125	.125	0	%100
5	M102	X	.216	.216	0	%100
6	M102	Z	.125	.125	0	%100
7	M103	X	.35	.35	0	%100
8	M103	Z	.202	.202	0	%100
9	M106	X	.194	.194	0	%100
10	M106	Z	.112	.112	0	%100
11	M107	X	.778	.778	0	%100
12	M107	Z	.449	.449	0	%100
13	M111	X	1.05	1.05	0	%100
14	M111	Z	.606	.606	0	%100
15	M112	X	.357	.357	0	%100
16	M112	Z	.206	.206	0	%100
17	M114	X	.376	.376	0	%100
18	M114	Z	.217	.217	0	%100
19	M116	X	1.05	1.05	0	%100
20	M116	Z	.606	.606	0	%100
21	M117	X	1.426	1.426	0	%100
22	M117	Z	.823	.823	0	%100
23	M119	X	1.502	1.502	0	%100
24	M119	Z	.867	.867	0	%100
25	M124	X	.679	.679	0	%100
26	M124	Z	.392	.392	0	%100
27	M125	X	.216	.216	0	%100
28	M125	Z	.125	.125	0	%100
29	M126	X	.216	.216	0	%100
30	M126	Z	.125	.125	0	%100
31	M127	X	.35	.35	0	%100
32	M127	Z	.202	.202	0	%100
33	M130	X	.778	.778	0	%100
34	M130	Z	.449	.449	0	%100
35	M131	X	.194	.194	0	%100
36	M131	Z	.112	.112	0	%100
37	M135	X	1.05	1.05	0	%100
38	M135	Z	.606	.606	0	%100
39	M136	X	1.426	1.426	0	%100
40	M136	Z	.823	.823	0	%100
41	M138	X	1.502	1.502	0	%100
42	M138	Z	.867	.867	0	%100
43	M140	X	1.05	1.05	0	%100
44	M140	Z	.606	.606	0	%100
45	M141	X	.357	.357	0	%100
46	M141	Z	.206	.206	0	%100
47	M143	X	.376	.376	0	%100
48	M143	Z	.217	.217	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	.865	.865	0	%100
52	M149	Z	.5	.5	0	%100
53	M150	X	.865	.865	0	%100
54	M150	Z	.5	.5	0	%100
55	M151	X	1.4	1.4	0	%100
56	M151	Z	.808	.808	0	%100
57	M154	X	.194	.194	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,%]
58	M154	Z	.112	.112	0	%100
59	M155	X	.194	.194	0	%100
60	M155	Z	.112	.112	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	.357	.357	0	%100
64	M160	Z	.206	.206	0	%100
65	M162	X	.376	.376	0	%100
66	M162	Z	.217	.217	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	.357	.357	0	%100
70	M165	Z	.206	.206	0	%100
71	M167	X	.376	.376	0	%100
72	M167	Z	.217	.217	0	%100
73	M172	X	.18	.18	0	%100
74	M172	Z	.104	.104	0	%100
75	MP1A	X	.554	.554	0	%100
76	MP1A	Z	.32	.32	0	%100
77	MP2A	X	.671	.671	0	%100
78	MP2A	Z	.387	.387	0	%100
79	MP3A	X	.554	.554	0	%100
80	MP3A	Z	.32	.32	0	%100
81	MP4A	X	.554	.554	0	%100
82	MP4A	Z	.32	.32	0	%100
83	M181	X	.18	.18	0	%100
84	M181	Z	.104	.104	0	%100
85	MP1C	X	.554	.554	0	%100
86	MP1C	Z	.32	.32	0	%100
87	MP2C	X	.671	.671	0	%100
88	MP2C	Z	.387	.387	0	%100
89	MP3C	X	.554	.554	0	%100
90	MP3C	Z	.32	.32	0	%100
91	MP4C	X	.554	.554	0	%100
92	MP4C	Z	.32	.32	0	%100
93	M190	X	.718	.718	0	%100
94	M190	Z	.415	.415	0	%100
95	MP1B	X	.554	.554	0	%100
96	MP1B	Z	.32	.32	0	%100
97	MP2B	X	.671	.671	0	%100
98	MP2B	Z	.387	.387	0	%100
99	MP3B	X	.554	.554	0	%100
100	MP3B	Z	.32	.32	0	%100
101	MP4B	X	.554	.554	0	%100
102	MP4B	Z	.32	.32	0	%100
103	M101A	X	.453	.453	0	%100
104	M101A	Z	.262	.262	0	%100
105	M102A	X	.213	.213	0	%100
106	M102A	Z	.123	.123	0	%100
107	M116A	X	.168	.168	0	%100
108	M116A	Z	.097	.097	0	%100
109	M120A	X	.168	.168	0	%100
110	M120A	Z	.097	.097	0	%100
111	M125A	X	.671	.671	0	%100
112	M125A	Z	.387	.387	0	%100
113	M132A	X	.98	.98	0	%100
114	M132A	Z	.566	.566	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,%]
115	M133A	X	.98	.98	0	%100
116	M133A	Z	.566	.566	0	%100
117	M134A	X	.888	.888	0	%100
118	M134A	Z	.513	.513	0	%100
119	M125B	X	.213	.213	0	%100
120	M125B	Z	.123	.123	0	%100
121	M130A	X	.852	.852	0	%100
122	M130A	Z	.492	.492	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	M100	X	.131	.131	0	%100
2	M100	Z	.226	.226	0	%100
3	M101	X	.375	.375	0	%100
4	M101	Z	.649	.649	0	%100
5	M102	X	.375	.375	0	%100
6	M102	Z	.649	.649	0	%100
7	M103	X	.606	.606	0	%100
8	M103	Z	1.05	1.05	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	.337	.337	0	%100
12	M107	Z	.583	.583	0	%100
13	M111	X	.202	.202	0	%100
14	M111	Z	.35	.35	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	.202	.202	0	%100
20	M116	Z	.35	.35	0	%100
21	M117	X	.618	.618	0	%100
22	M117	Z	1.07	1.07	0	%100
23	M119	X	.65	.65	0	%100
24	M119	Z	1.127	1.127	0	%100
25	M124	X	.522	.522	0	%100
26	M124	Z	.905	.905	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	.337	.337	0	%100
34	M130	Z	.583	.583	0	%100
35	M131	X	.337	.337	0	%100
36	M131	Z	.583	.583	0	%100
37	M135	X	.808	.808	0	%100
38	M135	Z	1.4	1.4	0	%100
39	M136	X	.618	.618	0	%100
40	M136	Z	1.07	1.07	0	%100
41	M138	X	.65	.65	0	%100
42	M138	Z	1.127	1.127	0	%100
43	M140	X	.808	.808	0	%100
44	M140	Z	1.4	1.4	0	%100
45	M141	X	.618	.618	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,%]
46	M141	Z	1.07	1.07	0	%100
47	M143	X	.65	.65	0	%100
48	M143	Z	1.127	1.127	0	%100
49	M148	X	.131	.131	0	%100
50	M148	Z	.226	.226	0	%100
51	M149	X	.375	.375	0	%100
52	M149	Z	.649	.649	0	%100
53	M150	X	.375	.375	0	%100
54	M150	Z	.649	.649	0	%100
55	M151	X	.606	.606	0	%100
56	M151	Z	1.05	1.05	0	%100
57	M154	X	.337	.337	0	%100
58	M154	Z	.583	.583	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	.202	.202	0	%100
62	M159	Z	.35	.35	0	%100
63	M160	X	.618	.618	0	%100
64	M160	Z	1.07	1.07	0	%100
65	M162	X	.65	.65	0	%100
66	M162	Z	1.127	1.127	0	%100
67	M164	X	.202	.202	0	%100
68	M164	Z	.35	.35	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	.311	.311	0	%100
74	M172	Z	.539	.539	0	%100
75	MP1A	X	.32	.32	0	%100
76	MP1A	Z	.554	.554	0	%100
77	MP2A	X	.387	.387	0	%100
78	MP2A	Z	.671	.671	0	%100
79	MP3A	X	.32	.32	0	%100
80	MP3A	Z	.554	.554	0	%100
81	MP4A	X	.32	.32	0	%100
82	MP4A	Z	.554	.554	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	.32	.32	0	%100
86	MP1C	Z	.554	.554	0	%100
87	MP2C	X	.387	.387	0	%100
88	MP2C	Z	.671	.671	0	%100
89	MP3C	X	.32	.32	0	%100
90	MP3C	Z	.554	.554	0	%100
91	MP4C	X	.32	.32	0	%100
92	MP4C	Z	.554	.554	0	%100
93	M190	X	.311	.311	0	%100
94	M190	Z	.539	.539	0	%100
95	MP1B	X	.32	.32	0	%100
96	MP1B	Z	.554	.554	0	%100
97	MP2B	X	.387	.387	0	%100
98	MP2B	Z	.671	.671	0	%100
99	MP3B	X	.32	.32	0	%100
100	MP3B	Z	.554	.554	0	%100
101	MP4B	X	.32	.32	0	%100
102	MP4B	Z	.554	.554	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,%]
103	M101A	X	.262	.262	0	%100
104	M101A	Z	.453	.453	0	%100
105	M102A	X	.369	.369	0	%100
106	M102A	Z	.639	.639	0	%100
107	M116A	X	.291	.291	0	%100
108	M116A	Z	.503	.503	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	.291	.291	0	%100
112	M125A	Z	.503	.503	0	%100
113	M132A	X	.53	.53	0	%100
114	M132A	Z	.919	.919	0	%100
115	M133A	X	.584	.584	0	%100
116	M133A	Z	1.011	1.011	0	%100
117	M134A	X	.53	.53	0	%100
118	M134A	Z	.919	.919	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	.369	.369	0	%100
122	M130A	Z	.639	.639	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	M100	X	0	0	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	.999	.999	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	.999	.999	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	1.617	1.617	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	.224	.224	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	.224	.224	0	%100
13	M111	X	0	0	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	.412	.412	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	.434	.434	0	%100
19	M116	X	0	0	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	0	0	0	%100
22	M117	Z	.412	.412	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	.434	.434	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	.784	.784	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	.25	.25	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	.25	.25	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	.404	.404	0	%100
33	M130	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,%]
34	M130	Z	.224	.224	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	.898	.898	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	1.213	1.213	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	.412	.412	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	.434	.434	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	1.213	1.213	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	1.647	1.647	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	1.734	1.734	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	.784	.784	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	.25	.25	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	.25	.25	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	.404	.404	0	%100
57	M154	X	0	0	0	%100
58	M154	Z	.898	.898	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	.224	.224	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	1.213	1.213	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	1.647	1.647	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	1.734	1.734	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	1.213	1.213	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	.412	.412	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	.434	.434	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	.829	.829	0	%100
75	MP1A	X	0	0	0	%100
76	MP1A	Z	.64	.64	0	%100
77	MP2A	X	0	0	0	%100
78	MP2A	Z	.775	.775	0	%100
79	MP3A	X	0	0	0	%100
80	MP3A	Z	.64	.64	0	%100
81	MP4A	X	0	0	0	%100
82	MP4A	Z	.64	.64	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	.207	.207	0	%100
85	MP1C	X	0	0	0	%100
86	MP1C	Z	.64	.64	0	%100
87	MP2C	X	0	0	0	%100
88	MP2C	Z	.775	.775	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	.64	.64	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,%]
91	MP4C	X	0	0	0	%100
92	MP4C	Z	.64	.64	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	.207	.207	0	%100
95	MP1B	X	0	0	0	%100
96	MP1B	Z	.64	.64	0	%100
97	MP2B	X	0	0	0	%100
98	MP2B	Z	.775	.775	0	%100
99	MP3B	X	0	0	0	%100
100	MP3B	Z	.64	.64	0	%100
101	MP4B	X	0	0	0	%100
102	MP4B	Z	.64	.64	0	%100
103	M101A	X	0	0	0	%100
104	M101A	Z	.523	.523	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	.983	.983	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	.775	.775	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	.194	.194	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	.194	.194	0	%100
113	M132A	X	0	0	0	%100
114	M132A	Z	1.026	1.026	0	%100
115	M133A	X	0	0	0	%100
116	M133A	Z	1.132	1.132	0	%100
117	M134A	X	0	0	0	%100
118	M134A	Z	1.132	1.132	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	.246	.246	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	.246	.246	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	M100	X	-.131	-.131	0	%100
2	M100	Z	.226	.226	0	%100
3	M101	X	-.375	-.375	0	%100
4	M101	Z	.649	.649	0	%100
5	M102	X	-.375	-.375	0	%100
6	M102	Z	.649	.649	0	%100
7	M103	X	-.606	-.606	0	%100
8	M103	Z	1.05	1.05	0	%100
9	M106	X	-.337	-.337	0	%100
10	M106	Z	.583	.583	0	%100
11	M107	X	0	0	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-.202	-.202	0	%100
14	M111	Z	.35	.35	0	%100
15	M112	X	-.618	-.618	0	%100
16	M112	Z	1.07	1.07	0	%100
17	M114	X	-.65	-.65	0	%100
18	M114	Z	1.127	1.127	0	%100
19	M116	X	-.202	-.202	0	%100
20	M116	Z	.35	.35	0	%100
21	M117	X	0	0	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,%]
22	M117	Z	0	0	0	%100
23	M119	X	0	0	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-.131	-.131	0	%100
26	M124	Z	.226	.226	0	%100
27	M125	X	-.375	-.375	0	%100
28	M125	Z	.649	.649	0	%100
29	M126	X	-.375	-.375	0	%100
30	M126	Z	.649	.649	0	%100
31	M127	X	-.606	-.606	0	%100
32	M127	Z	1.05	1.05	0	%100
33	M130	X	0	0	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	-.337	-.337	0	%100
36	M131	Z	.583	.583	0	%100
37	M135	X	-.202	-.202	0	%100
38	M135	Z	.35	.35	0	%100
39	M136	X	0	0	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	0	0	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-.202	-.202	0	%100
44	M140	Z	.35	.35	0	%100
45	M141	X	-.618	-.618	0	%100
46	M141	Z	1.07	1.07	0	%100
47	M143	X	-.65	-.65	0	%100
48	M143	Z	1.127	1.127	0	%100
49	M148	X	-.522	-.522	0	%100
50	M148	Z	.905	.905	0	%100
51	M149	X	0	0	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	0	0	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	0	0	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	-.337	-.337	0	%100
58	M154	Z	.583	.583	0	%100
59	M155	X	-.337	-.337	0	%100
60	M155	Z	.583	.583	0	%100
61	M159	X	-.808	-.808	0	%100
62	M159	Z	1.4	1.4	0	%100
63	M160	X	-.618	-.618	0	%100
64	M160	Z	1.07	1.07	0	%100
65	M162	X	-.65	-.65	0	%100
66	M162	Z	1.127	1.127	0	%100
67	M164	X	-.808	-.808	0	%100
68	M164	Z	1.4	1.4	0	%100
69	M165	X	-.618	-.618	0	%100
70	M165	Z	1.07	1.07	0	%100
71	M167	X	-.65	-.65	0	%100
72	M167	Z	1.127	1.127	0	%100
73	M172	X	-.311	-.311	0	%100
74	M172	Z	.539	.539	0	%100
75	MP1A	X	-.32	-.32	0	%100
76	MP1A	Z	.554	.554	0	%100
77	MP2A	X	-.387	-.387	0	%100
78	MP2A	Z	.671	.671	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,%]
79	MP3A	X	-.32	-.32	0	%100
80	MP3A	Z	.554	.554	0	%100
81	MP4A	X	-.32	-.32	0	%100
82	MP4A	Z	.554	.554	0	%100
83	M181	X	-.311	-.311	0	%100
84	M181	Z	.539	.539	0	%100
85	MP1C	X	-.32	-.32	0	%100
86	MP1C	Z	.554	.554	0	%100
87	MP2C	X	-.387	-.387	0	%100
88	MP2C	Z	.671	.671	0	%100
89	MP3C	X	-.32	-.32	0	%100
90	MP3C	Z	.554	.554	0	%100
91	MP4C	X	-.32	-.32	0	%100
92	MP4C	Z	.554	.554	0	%100
93	M190	X	0	0	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	-.32	-.32	0	%100
96	MP1B	Z	.554	.554	0	%100
97	MP2B	X	-.387	-.387	0	%100
98	MP2B	Z	.671	.671	0	%100
99	MP3B	X	-.32	-.32	0	%100
100	MP3B	Z	.554	.554	0	%100
101	MP4B	X	-.32	-.32	0	%100
102	MP4B	Z	.554	.554	0	%100
103	M101A	X	-.262	-.262	0	%100
104	M101A	Z	.453	.453	0	%100
105	M102A	X	-.369	-.369	0	%100
106	M102A	Z	.639	.639	0	%100
107	M116A	X	-.291	-.291	0	%100
108	M116A	Z	.503	.503	0	%100
109	M120A	X	-.291	-.291	0	%100
110	M120A	Z	.503	.503	0	%100
111	M125A	X	0	0	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	-.53	-.53	0	%100
114	M132A	Z	.919	.919	0	%100
115	M133A	X	-.53	-.53	0	%100
116	M133A	Z	.919	.919	0	%100
117	M134A	X	-.584	-.584	0	%100
118	M134A	Z	1.011	1.011	0	%100
119	M125B	X	-.369	-.369	0	%100
120	M125B	Z	.639	.639	0	%100
121	M130A	X	0	0	0	%100
122	M130A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M100	X	-.679	-.679	0	%100
2	M100	Z	.392	.392	0	%100
3	M101	X	-.216	-.216	0	%100
4	M101	Z	.125	.125	0	%100
5	M102	X	-.216	-.216	0	%100
6	M102	Z	.125	.125	0	%100
7	M103	X	-.35	-.35	0	%100
8	M103	Z	.202	.202	0	%100
9	M106	X	-.778	-.778	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,%]
10	M106	Z	.449	.449	0	%100
11	M107	X	-.194	-.194	0	%100
12	M107	Z	.112	.112	0	%100
13	M111	X	-1.05	-1.05	0	%100
14	M111	Z	.606	.606	0	%100
15	M112	X	-1.426	-1.426	0	%100
16	M112	Z	.823	.823	0	%100
17	M114	X	-1.502	-1.502	0	%100
18	M114	Z	.867	.867	0	%100
19	M116	X	-1.05	-1.05	0	%100
20	M116	Z	.606	.606	0	%100
21	M117	X	-.357	-.357	0	%100
22	M117	Z	.206	.206	0	%100
23	M119	X	-.376	-.376	0	%100
24	M119	Z	.217	.217	0	%100
25	M124	X	0	0	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-.865	-.865	0	%100
28	M125	Z	.5	.5	0	%100
29	M126	X	-.865	-.865	0	%100
30	M126	Z	.5	.5	0	%100
31	M127	X	-1.4	-1.4	0	%100
32	M127	Z	.808	.808	0	%100
33	M130	X	-.194	-.194	0	%100
34	M130	Z	.112	.112	0	%100
35	M131	X	-.194	-.194	0	%100
36	M131	Z	.112	.112	0	%100
37	M135	X	0	0	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-.357	-.357	0	%100
40	M136	Z	.206	.206	0	%100
41	M138	X	-.376	-.376	0	%100
42	M138	Z	.217	.217	0	%100
43	M140	X	0	0	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	-.357	-.357	0	%100
46	M141	Z	.206	.206	0	%100
47	M143	X	-.376	-.376	0	%100
48	M143	Z	.217	.217	0	%100
49	M148	X	-.679	-.679	0	%100
50	M148	Z	.392	.392	0	%100
51	M149	X	-.216	-.216	0	%100
52	M149	Z	.125	.125	0	%100
53	M150	X	-.216	-.216	0	%100
54	M150	Z	.125	.125	0	%100
55	M151	X	-.35	-.35	0	%100
56	M151	Z	.202	.202	0	%100
57	M154	X	-.194	-.194	0	%100
58	M154	Z	.112	.112	0	%100
59	M155	X	-.778	-.778	0	%100
60	M155	Z	.449	.449	0	%100
61	M159	X	-1.05	-1.05	0	%100
62	M159	Z	.606	.606	0	%100
63	M160	X	-.357	-.357	0	%100
64	M160	Z	.206	.206	0	%100
65	M162	X	-.376	-.376	0	%100
66	M162	Z	.217	.217	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,%]
67	M164	X	-1.05	-1.05	0	%100
68	M164	Z	.606	.606	0	%100
69	M165	X	-1.426	-1.426	0	%100
70	M165	Z	.823	.823	0	%100
71	M167	X	-1.502	-1.502	0	%100
72	M167	Z	.867	.867	0	%100
73	M172	X	-.18	-.18	0	%100
74	M172	Z	.104	.104	0	%100
75	MP1A	X	-.554	-.554	0	%100
76	MP1A	Z	.32	.32	0	%100
77	MP2A	X	-.671	-.671	0	%100
78	MP2A	Z	.387	.387	0	%100
79	MP3A	X	-.554	-.554	0	%100
80	MP3A	Z	.32	.32	0	%100
81	MP4A	X	-.554	-.554	0	%100
82	MP4A	Z	.32	.32	0	%100
83	M181	X	-.718	-.718	0	%100
84	M181	Z	.415	.415	0	%100
85	MP1C	X	-.554	-.554	0	%100
86	MP1C	Z	.32	.32	0	%100
87	MP2C	X	-.671	-.671	0	%100
88	MP2C	Z	.387	.387	0	%100
89	MP3C	X	-.554	-.554	0	%100
90	MP3C	Z	.32	.32	0	%100
91	MP4C	X	-.554	-.554	0	%100
92	MP4C	Z	.32	.32	0	%100
93	M190	X	-.18	-.18	0	%100
94	M190	Z	.104	.104	0	%100
95	MP1B	X	-.554	-.554	0	%100
96	MP1B	Z	.32	.32	0	%100
97	MP2B	X	-.671	-.671	0	%100
98	MP2B	Z	.387	.387	0	%100
99	MP3B	X	-.554	-.554	0	%100
100	MP3B	Z	.32	.32	0	%100
101	MP4B	X	-.554	-.554	0	%100
102	MP4B	Z	.32	.32	0	%100
103	M101A	X	-.453	-.453	0	%100
104	M101A	Z	.262	.262	0	%100
105	M102A	X	-.213	-.213	0	%100
106	M102A	Z	.123	.123	0	%100
107	M116A	X	-.168	-.168	0	%100
108	M116A	Z	.097	.097	0	%100
109	M120A	X	-.671	-.671	0	%100
110	M120A	Z	.387	.387	0	%100
111	M125A	X	-.168	-.168	0	%100
112	M125A	Z	.097	.097	0	%100
113	M132A	X	-.98	-.98	0	%100
114	M132A	Z	.566	.566	0	%100
115	M133A	X	-.888	-.888	0	%100
116	M133A	Z	.513	.513	0	%100
117	M134A	X	-.98	-.98	0	%100
118	M134A	Z	.566	.566	0	%100
119	M125B	X	-.852	-.852	0	%100
120	M125B	Z	.492	.492	0	%100
121	M130A	X	-.213	-.213	0	%100
122	M130A	Z	.123	.123	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	M100	X	-1.045	-1.045	0	%100
2	M100	Z	0	0	0	%100
3	M101	X	0	0	0	%100
4	M101	Z	0	0	0	%100
5	M102	X	0	0	0	%100
6	M102	Z	0	0	0	%100
7	M103	X	0	0	0	%100
8	M103	Z	0	0	0	%100
9	M106	X	-.673	-.673	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-.673	-.673	0	%100
12	M107	Z	0	0	0	%100
13	M111	X	-1.617	-1.617	0	%100
14	M111	Z	0	0	0	%100
15	M112	X	-1.235	-1.235	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	-1.301	-1.301	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-1.617	-1.617	0	%100
20	M116	Z	0	0	0	%100
21	M117	X	-1.235	-1.235	0	%100
22	M117	Z	0	0	0	%100
23	M119	X	-1.301	-1.301	0	%100
24	M119	Z	0	0	0	%100
25	M124	X	-.261	-.261	0	%100
26	M124	Z	0	0	0	%100
27	M125	X	-.749	-.749	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	-.749	-.749	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	-1.213	-1.213	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-.673	-.673	0	%100
34	M130	Z	0	0	0	%100
35	M131	X	0	0	0	%100
36	M131	Z	0	0	0	%100
37	M135	X	-.404	-.404	0	%100
38	M135	Z	0	0	0	%100
39	M136	X	-1.235	-1.235	0	%100
40	M136	Z	0	0	0	%100
41	M138	X	-1.301	-1.301	0	%100
42	M138	Z	0	0	0	%100
43	M140	X	-.404	-.404	0	%100
44	M140	Z	0	0	0	%100
45	M141	X	0	0	0	%100
46	M141	Z	0	0	0	%100
47	M143	X	0	0	0	%100
48	M143	Z	0	0	0	%100
49	M148	X	-.261	-.261	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-.749	-.749	0	%100
52	M149	Z	0	0	0	%100
53	M150	X	-.749	-.749	0	%100
54	M150	Z	0	0	0	%100
55	M151	X	-1.213	-1.213	0	%100
56	M151	Z	0	0	0	%100
57	M154	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M154	Z	0	0	0	%100
59	M155	X	-.673	-.673	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-.404	-.404	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	0	0	0	%100
64	M160	Z	0	0	0	%100
65	M162	X	0	0	0	%100
66	M162	Z	0	0	0	%100
67	M164	X	-.404	-.404	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-1.235	-1.235	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	-1.301	-1.301	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	0	0	0	%100
74	M172	Z	0	0	0	%100
75	MP1A	X	-.64	-.64	0	%100
76	MP1A	Z	0	0	0	%100
77	MP2A	X	-.775	-.775	0	%100
78	MP2A	Z	0	0	0	%100
79	MP3A	X	-.64	-.64	0	%100
80	MP3A	Z	0	0	0	%100
81	MP4A	X	-.64	-.64	0	%100
82	MP4A	Z	0	0	0	%100
83	M181	X	-.622	-.622	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	-.64	-.64	0	%100
86	MP1C	Z	0	0	0	%100
87	MP2C	X	-.775	-.775	0	%100
88	MP2C	Z	0	0	0	%100
89	MP3C	X	-.64	-.64	0	%100
90	MP3C	Z	0	0	0	%100
91	MP4C	X	-.64	-.64	0	%100
92	MP4C	Z	0	0	0	%100
93	M190	X	-.622	-.622	0	%100
94	M190	Z	0	0	0	%100
95	MP1B	X	-.64	-.64	0	%100
96	MP1B	Z	0	0	0	%100
97	MP2B	X	-.775	-.775	0	%100
98	MP2B	Z	0	0	0	%100
99	MP3B	X	-.64	-.64	0	%100
100	MP3B	Z	0	0	0	%100
101	MP4B	X	-.64	-.64	0	%100
102	MP4B	Z	0	0	0	%100
103	M101A	X	-.523	-.523	0	%100
104	M101A	Z	0	0	0	%100
105	M102A	X	0	0	0	%100
106	M102A	Z	0	0	0	%100
107	M116A	X	0	0	0	%100
108	M116A	Z	0	0	0	%100
109	M120A	X	-.581	-.581	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	-.581	-.581	0	%100
112	M125A	Z	0	0	0	%100
113	M132A	X	-1.167	-1.167	0	%100
114	M132A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
115	M133A	X	-1.061	-1.061	0	%100
116	M133A	Z	0	0	0	%100
117	M134A	X	-1.061	-1.061	0	%100
118	M134A	Z	0	0	0	%100
119	M125B	X	-.738	-.738	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	-.738	-.738	0	%100
122	M130A	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	M100	X	-.679	-.679	0	%100
2	M100	Z	-.392	-.392	0	%100
3	M101	X	-.216	-.216	0	%100
4	M101	Z	-.125	-.125	0	%100
5	M102	X	-.216	-.216	0	%100
6	M102	Z	-.125	-.125	0	%100
7	M103	X	-.35	-.35	0	%100
8	M103	Z	-.202	-.202	0	%100
9	M106	X	-.194	-.194	0	%100
10	M106	Z	-.112	-.112	0	%100
11	M107	X	-.778	-.778	0	%100
12	M107	Z	-.449	-.449	0	%100
13	M111	X	-1.05	-1.05	0	%100
14	M111	Z	-.606	-.606	0	%100
15	M112	X	-.357	-.357	0	%100
16	M112	Z	-.206	-.206	0	%100
17	M114	X	-.376	-.376	0	%100
18	M114	Z	-.217	-.217	0	%100
19	M116	X	-1.05	-1.05	0	%100
20	M116	Z	-.606	-.606	0	%100
21	M117	X	-1.426	-1.426	0	%100
22	M117	Z	-.823	-.823	0	%100
23	M119	X	-1.502	-1.502	0	%100
24	M119	Z	-.867	-.867	0	%100
25	M124	X	-.679	-.679	0	%100
26	M124	Z	-.392	-.392	0	%100
27	M125	X	-.216	-.216	0	%100
28	M125	Z	-.125	-.125	0	%100
29	M126	X	-.216	-.216	0	%100
30	M126	Z	-.125	-.125	0	%100
31	M127	X	-.35	-.35	0	%100
32	M127	Z	-.202	-.202	0	%100
33	M130	X	-.778	-.778	0	%100
34	M130	Z	-.449	-.449	0	%100
35	M131	X	-.194	-.194	0	%100
36	M131	Z	-.112	-.112	0	%100
37	M135	X	-1.05	-1.05	0	%100
38	M135	Z	-.606	-.606	0	%100
39	M136	X	-1.426	-1.426	0	%100
40	M136	Z	-.823	-.823	0	%100
41	M138	X	-1.502	-1.502	0	%100
42	M138	Z	-.867	-.867	0	%100
43	M140	X	-1.05	-1.05	0	%100
44	M140	Z	-.606	-.606	0	%100
45	M141	X	-.357	-.357	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,%]
46	M141	Z	-.206	-.206	0	%100
47	M143	X	-.376	-.376	0	%100
48	M143	Z	-.217	-.217	0	%100
49	M148	X	0	0	0	%100
50	M148	Z	0	0	0	%100
51	M149	X	-.865	-.865	0	%100
52	M149	Z	-.5	-.5	0	%100
53	M150	X	-.865	-.865	0	%100
54	M150	Z	-.5	-.5	0	%100
55	M151	X	-1.4	-1.4	0	%100
56	M151	Z	-.808	-.808	0	%100
57	M154	X	-.194	-.194	0	%100
58	M154	Z	-.112	-.112	0	%100
59	M155	X	-.194	-.194	0	%100
60	M155	Z	-.112	-.112	0	%100
61	M159	X	0	0	0	%100
62	M159	Z	0	0	0	%100
63	M160	X	-.357	-.357	0	%100
64	M160	Z	-.206	-.206	0	%100
65	M162	X	-.376	-.376	0	%100
66	M162	Z	-.217	-.217	0	%100
67	M164	X	0	0	0	%100
68	M164	Z	0	0	0	%100
69	M165	X	-.357	-.357	0	%100
70	M165	Z	-.206	-.206	0	%100
71	M167	X	-.376	-.376	0	%100
72	M167	Z	-.217	-.217	0	%100
73	M172	X	-.18	-.18	0	%100
74	M172	Z	-.104	-.104	0	%100
75	MP1A	X	-.554	-.554	0	%100
76	MP1A	Z	-.32	-.32	0	%100
77	MP2A	X	-.671	-.671	0	%100
78	MP2A	Z	-.387	-.387	0	%100
79	MP3A	X	-.554	-.554	0	%100
80	MP3A	Z	-.32	-.32	0	%100
81	MP4A	X	-.554	-.554	0	%100
82	MP4A	Z	-.32	-.32	0	%100
83	M181	X	-.18	-.18	0	%100
84	M181	Z	-.104	-.104	0	%100
85	MP1C	X	-.554	-.554	0	%100
86	MP1C	Z	-.32	-.32	0	%100
87	MP2C	X	-.671	-.671	0	%100
88	MP2C	Z	-.387	-.387	0	%100
89	MP3C	X	-.554	-.554	0	%100
90	MP3C	Z	-.32	-.32	0	%100
91	MP4C	X	-.554	-.554	0	%100
92	MP4C	Z	-.32	-.32	0	%100
93	M190	X	-.718	-.718	0	%100
94	M190	Z	-.415	-.415	0	%100
95	MP1B	X	-.554	-.554	0	%100
96	MP1B	Z	-.32	-.32	0	%100
97	MP2B	X	-.671	-.671	0	%100
98	MP2B	Z	-.387	-.387	0	%100
99	MP3B	X	-.554	-.554	0	%100
100	MP3B	Z	-.32	-.32	0	%100
101	MP4B	X	-.554	-.554	0	%100
102	MP4B	Z	-.32	-.32	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,%]
103	M101A	X	-.453	-.453	0	%100
104	M101A	Z	-.262	-.262	0	%100
105	M102A	X	-.213	-.213	0	%100
106	M102A	Z	-.123	-.123	0	%100
107	M116A	X	-.168	-.168	0	%100
108	M116A	Z	-.097	-.097	0	%100
109	M120A	X	-.168	-.168	0	%100
110	M120A	Z	-.097	-.097	0	%100
111	M125A	X	-.671	-.671	0	%100
112	M125A	Z	-.387	-.387	0	%100
113	M132A	X	-.98	-.98	0	%100
114	M132A	Z	-.566	-.566	0	%100
115	M133A	X	-.98	-.98	0	%100
116	M133A	Z	-.566	-.566	0	%100
117	M134A	X	-.888	-.888	0	%100
118	M134A	Z	-.513	-.513	0	%100
119	M125B	X	-.213	-.213	0	%100
120	M125B	Z	-.123	-.123	0	%100
121	M130A	X	-.852	-.852	0	%100
122	M130A	Z	-.492	-.492	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	M100	X	-.131	-.131	0	%100
2	M100	Z	-.226	-.226	0	%100
3	M101	X	-.375	-.375	0	%100
4	M101	Z	-.649	-.649	0	%100
5	M102	X	-.375	-.375	0	%100
6	M102	Z	-.649	-.649	0	%100
7	M103	X	-.606	-.606	0	%100
8	M103	Z	-1.05	-1.05	0	%100
9	M106	X	0	0	0	%100
10	M106	Z	0	0	0	%100
11	M107	X	-.337	-.337	0	%100
12	M107	Z	-.583	-.583	0	%100
13	M111	X	-.202	-.202	0	%100
14	M111	Z	-.35	-.35	0	%100
15	M112	X	0	0	0	%100
16	M112	Z	0	0	0	%100
17	M114	X	0	0	0	%100
18	M114	Z	0	0	0	%100
19	M116	X	-.202	-.202	0	%100
20	M116	Z	-.35	-.35	0	%100
21	M117	X	-.618	-.618	0	%100
22	M117	Z	-1.07	-1.07	0	%100
23	M119	X	-.65	-.65	0	%100
24	M119	Z	-1.127	-1.127	0	%100
25	M124	X	-.522	-.522	0	%100
26	M124	Z	-.905	-.905	0	%100
27	M125	X	0	0	0	%100
28	M125	Z	0	0	0	%100
29	M126	X	0	0	0	%100
30	M126	Z	0	0	0	%100
31	M127	X	0	0	0	%100
32	M127	Z	0	0	0	%100
33	M130	X	-.337	-.337	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,%]
34	M130	Z	-.583	-.583	0	%100
35	M131	X	-.337	-.337	0	%100
36	M131	Z	-.583	-.583	0	%100
37	M135	X	-.808	-.808	0	%100
38	M135	Z	-1.4	-1.4	0	%100
39	M136	X	-.618	-.618	0	%100
40	M136	Z	-1.07	-1.07	0	%100
41	M138	X	-.65	-.65	0	%100
42	M138	Z	-1.127	-1.127	0	%100
43	M140	X	-.808	-.808	0	%100
44	M140	Z	-1.4	-1.4	0	%100
45	M141	X	-.618	-.618	0	%100
46	M141	Z	-1.07	-1.07	0	%100
47	M143	X	-.65	-.65	0	%100
48	M143	Z	-1.127	-1.127	0	%100
49	M148	X	-.131	-.131	0	%100
50	M148	Z	-.226	-.226	0	%100
51	M149	X	-.375	-.375	0	%100
52	M149	Z	-.649	-.649	0	%100
53	M150	X	-.375	-.375	0	%100
54	M150	Z	-.649	-.649	0	%100
55	M151	X	-.606	-.606	0	%100
56	M151	Z	-1.05	-1.05	0	%100
57	M154	X	-.337	-.337	0	%100
58	M154	Z	-.583	-.583	0	%100
59	M155	X	0	0	0	%100
60	M155	Z	0	0	0	%100
61	M159	X	-.202	-.202	0	%100
62	M159	Z	-.35	-.35	0	%100
63	M160	X	-.618	-.618	0	%100
64	M160	Z	-1.07	-1.07	0	%100
65	M162	X	-.65	-.65	0	%100
66	M162	Z	-1.127	-1.127	0	%100
67	M164	X	-.202	-.202	0	%100
68	M164	Z	-.35	-.35	0	%100
69	M165	X	0	0	0	%100
70	M165	Z	0	0	0	%100
71	M167	X	0	0	0	%100
72	M167	Z	0	0	0	%100
73	M172	X	-.311	-.311	0	%100
74	M172	Z	-.539	-.539	0	%100
75	MP1A	X	-.32	-.32	0	%100
76	MP1A	Z	-.554	-.554	0	%100
77	MP2A	X	-.387	-.387	0	%100
78	MP2A	Z	-.671	-.671	0	%100
79	MP3A	X	-.32	-.32	0	%100
80	MP3A	Z	-.554	-.554	0	%100
81	MP4A	X	-.32	-.32	0	%100
82	MP4A	Z	-.554	-.554	0	%100
83	M181	X	0	0	0	%100
84	M181	Z	0	0	0	%100
85	MP1C	X	-.32	-.32	0	%100
86	MP1C	Z	-.554	-.554	0	%100
87	MP2C	X	-.387	-.387	0	%100
88	MP2C	Z	-.671	-.671	0	%100
89	MP3C	X	-.32	-.32	0	%100
90	MP3C	Z	-.554	-.554	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,%]
91	MP4C	X	-.32	-.32	0	%100
92	MP4C	Z	-.554	-.554	0	%100
93	M190	X	-.311	-.311	0	%100
94	M190	Z	-.539	-.539	0	%100
95	MP1B	X	-.32	-.32	0	%100
96	MP1B	Z	-.554	-.554	0	%100
97	MP2B	X	-.387	-.387	0	%100
98	MP2B	Z	-.671	-.671	0	%100
99	MP3B	X	-.32	-.32	0	%100
100	MP3B	Z	-.554	-.554	0	%100
101	MP4B	X	-.32	-.32	0	%100
102	MP4B	Z	-.554	-.554	0	%100
103	M101A	X	-.262	-.262	0	%100
104	M101A	Z	-.453	-.453	0	%100
105	M102A	X	-.369	-.369	0	%100
106	M102A	Z	-.639	-.639	0	%100
107	M116A	X	-.291	-.291	0	%100
108	M116A	Z	-.503	-.503	0	%100
109	M120A	X	0	0	0	%100
110	M120A	Z	0	0	0	%100
111	M125A	X	-.291	-.291	0	%100
112	M125A	Z	-.503	-.503	0	%100
113	M132A	X	-.53	-.53	0	%100
114	M132A	Z	-.919	-.919	0	%100
115	M133A	X	-.584	-.584	0	%100
116	M133A	Z	-1.011	-1.011	0	%100
117	M134A	X	-.53	-.53	0	%100
118	M134A	Z	-.919	-.919	0	%100
119	M125B	X	0	0	0	%100
120	M125B	Z	0	0	0	%100
121	M130A	X	-.369	-.369	0	%100
122	M130A	Z	-.639	-.639	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M130	Y	-1.664	-4.227	0	.832
2	M130	Y	-4.227	-6.899	.832	1.665
3	M130	Y	-6.899	-8.187	1.665	2.497
4	M130	Y	-8.187	-6.544	2.497	3.329
5	M130	Y	-6.544	-3.463	3.329	4.162
6	M131	Y	-3.462	-6.572	0	.832
7	M131	Y	-6.572	-8.261	.832	1.665
8	M131	Y	-8.261	-7.048	1.665	2.497
9	M131	Y	-7.048	-4.428	2.497	3.329
10	M131	Y	-4.428	-1.883	3.329	4.162
11	M106	Y	-1.879	-4.428	0	.832
12	M106	Y	-4.428	-7.042	.832	1.665
13	M106	Y	-7.042	-8.256	1.665	2.497
14	M106	Y	-8.256	-6.578	2.497	3.329
15	M106	Y	-6.578	-3.47	3.329	4.162
16	M107	Y	-3.463	-6.545	0	.832
17	M107	Y	-6.545	-8.189	.832	1.665
18	M107	Y	-8.189	-6.9	1.665	2.497
19	M107	Y	-6.9	-4.227	2.497	3.329
20	M107	Y	-4.227	-1.665	3.329	4.162
21	M154	Y	-1.879	-4.428	0	.832

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M154	Y	-4.428	-7.042	.832	1.665
23	M154	Y	-7.042	-8.256	1.665	2.497
24	M154	Y	-8.256	-6.578	2.497	3.329
25	M154	Y	-6.578	-3.47	3.329	4.162
26	M155	Y	-3.463	-6.545	0	.832
27	M155	Y	-6.545	-8.189	.832	1.665
28	M155	Y	-8.189	-6.9	1.665	2.497
29	M155	Y	-6.9	-4.227	2.497	3.329
30	M155	Y	-4.227	-1.665	3.329	4.162

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M130	Y	-3.224	-8.193	0	.832
2	M130	Y	-8.193	-13.372	.832	1.665
3	M130	Y	-13.372	-15.868	1.665	2.497
4	M130	Y	-15.868	-12.683	2.497	3.329
5	M130	Y	-12.683	-6.712	3.329	4.162
6	M131	Y	-6.71	-12.737	0	.832
7	M131	Y	-12.737	-16.011	.832	1.665
8	M131	Y	-16.011	-13.659	1.665	2.497
9	M131	Y	-13.659	-8.581	2.497	3.329
10	M131	Y	-8.581	-3.649	3.329	4.162
11	M106	Y	-3.642	-8.582	0	.832
12	M106	Y	-8.582	-13.647	.832	1.665
13	M106	Y	-13.647	-16.001	1.665	2.497
14	M106	Y	-16.001	-12.749	2.497	3.329
15	M106	Y	-12.749	-6.725	3.329	4.162
16	M107	Y	-6.711	-12.684	0	.832
17	M107	Y	-12.684	-15.87	.832	1.665
18	M107	Y	-15.87	-13.372	1.665	2.497
19	M107	Y	-13.372	-8.192	2.497	3.329
20	M107	Y	-8.192	-3.228	3.329	4.162
21	M154	Y	-3.642	-8.582	0	.832
22	M154	Y	-8.582	-13.647	.832	1.665
23	M154	Y	-13.647	-16.001	1.665	2.497
24	M154	Y	-16.001	-12.749	2.497	3.329
25	M154	Y	-12.749	-6.725	3.329	4.162
26	M155	Y	-6.711	-12.684	0	.832
27	M155	Y	-12.684	-15.87	.832	1.665
28	M155	Y	-15.87	-13.372	1.665	2.497
29	M155	Y	-13.372	-8.192	2.497	3.329
30	M155	Y	-8.192	-3.228	3.329	4.162

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M130	Y	-.07	-.179	0	.832
2	M130	Y	-.179	-.292	.832	1.665
3	M130	Y	-.292	-.346	1.665	2.497
4	M130	Y	-.346	-.277	2.497	3.329
5	M130	Y	-.277	-.147	3.329	4.162
6	M131	Y	-.146	-.278	0	.832
7	M131	Y	-.278	-.35	.832	1.665
8	M131	Y	-.35	-.298	1.665	2.497
9	M131	Y	-.298	-.187	2.497	3.329
10	M131	Y	-.187	-.08	3.329	4.162
11	M106	Y	-.08	-.187	0	.832

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	M106	Y	-.187	-.298	.832	1.665
13	M106	Y	-.298	-.349	1.665	2.497
14	M106	Y	-.349	-.278	2.497	3.329
15	M106	Y	-.278	-.147	3.329	4.162
16	M107	Y	-.147	-.277	0	.832
17	M107	Y	-.277	-.346	.832	1.665
18	M107	Y	-.346	-.292	1.665	2.497
19	M107	Y	-.292	-.179	2.497	3.329
20	M107	Y	-.179	-.07	3.329	4.162
21	M154	Y	-.08	-.187	0	.832
22	M154	Y	-.187	-.298	.832	1.665
23	M154	Y	-.298	-.349	1.665	2.497
24	M154	Y	-.349	-.278	2.497	3.329
25	M154	Y	-.278	-.147	3.329	4.162
26	M155	Y	-.147	-.277	0	.832
27	M155	Y	-.277	-.346	.832	1.665
28	M155	Y	-.346	-.292	1.665	2.497
29	M155	Y	-.292	-.179	2.497	3.329
30	M155	Y	-.179	-.07	3.329	4.162

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M130	Z	-.176	-.446	0	.832
2	M130	Z	-.446	-.728	.832	1.665
3	M130	Z	-.728	-.864	1.665	2.497
4	M130	Z	-.864	-.691	2.497	3.329
5	M130	Z	-.691	-.366	3.329	4.162
6	M131	Z	-.366	-.694	0	.832
7	M131	Z	-.694	-.872	.832	1.665
8	M131	Z	-.872	-.744	1.665	2.497
9	M131	Z	-.744	-.467	2.497	3.329
10	M131	Z	-.467	-.199	3.329	4.162
11	M106	Z	-.198	-.468	0	.832
12	M106	Z	-.468	-.743	.832	1.665
13	M106	Z	-.743	-.872	1.665	2.497
14	M106	Z	-.872	-.694	2.497	3.329
15	M106	Z	-.694	-.366	3.329	4.162
16	M107	Z	-.366	-.691	0	.832
17	M107	Z	-.691	-.865	.832	1.665
18	M107	Z	-.865	-.728	1.665	2.497
19	M107	Z	-.728	-.446	2.497	3.329
20	M107	Z	-.446	-.176	3.329	4.162
21	M154	Z	-.198	-.468	0	.832
22	M154	Z	-.468	-.743	.832	1.665
23	M154	Z	-.743	-.872	1.665	2.497
24	M154	Z	-.872	-.694	2.497	3.329
25	M154	Z	-.694	-.366	3.329	4.162
26	M155	Z	-.366	-.691	0	.832
27	M155	Z	-.691	-.865	.832	1.665
28	M155	Z	-.865	-.728	1.665	2.497
29	M155	Z	-.728	-.446	2.497	3.329
30	M155	Z	-.446	-.176	3.329	4.162

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M130	X	.176	.446	0	.832

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M130	X	.446	.728	.832	1.665
3	M130	X	.728	.864	1.665	2.497
4	M130	X	.864	.691	2.497	3.329
5	M130	X	.691	.366	3.329	4.162
6	M131	X	.366	.694	0	.832
7	M131	X	.694	.872	.832	1.665
8	M131	X	.872	.744	1.665	2.497
9	M131	X	.744	.467	2.497	3.329
10	M131	X	.467	.199	3.329	4.162
11	M106	X	.198	.468	0	.832
12	M106	X	.468	.743	.832	1.665
13	M106	X	.743	.872	1.665	2.497
14	M106	X	.872	.694	2.497	3.329
15	M106	X	.694	.366	3.329	4.162
16	M107	X	.366	.691	0	.832
17	M107	X	.691	.865	.832	1.665
18	M107	X	.865	.728	1.665	2.497
19	M107	X	.728	.446	2.497	3.329
20	M107	X	.446	.176	3.329	4.162
21	M154	X	.198	.468	0	.832
22	M154	X	.468	.743	.832	1.665
23	M154	X	.743	.872	1.665	2.497
24	M154	X	.872	.694	2.497	3.329
25	M154	X	.694	.366	3.329	4.162
26	M155	X	.366	.691	0	.832
27	M155	X	.691	.865	.832	1.665
28	M155	X	.865	.728	1.665	2.497
29	M155	X	.728	.446	2.497	3.329
30	M155	X	.446	.176	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N176	N200	N198	N175	Y	Two Way	-.005
2	N147	N171	N169	N146	Y	Two Way	-.005
3	N205	N229	N227	N204	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N176	N200	N198	N175	Y	Two Way	-.01
2	N147	N171	N169	N146	Y	Two Way	-.01
3	N205	N229	N227	N204	Y	Two Way	-.01

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N176	N200	N198	N175	Y	Two Way	-.00022
2	N147	N171	N169	N146	Y	Two Way	-.00022
3	N205	N229	N227	N204	Y	Two Way	-.00022

Member Area Loads (BLC 85 : Structure Eh (0 Deg))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N176	N200	N198	N175	Z	Two Way	-.000549
2	N147	N171	N169	N146	Z	Two Way	-.000549
3	N205	N229	N227	N204	Z	Two Way	-.000549

Member Area Loads (BLC 86 : Structure Eh (90 Deg))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N176	N200	N198	N175	X	Two Way	.000549
2	N147	N171	N169	N146	X	Two Way	.000549
3	N205	N229	N227	N204	X	Two Way	.000549

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

	Member	Shape	Code Check	L...	LC	Shear C...	Loc...	...	phi*P...	phi*P...	phi*M...	phi*M...	...	Eqn
1	M100	HSS4X4...	.230	2....	13	.075	2.9...	y	23	95848..	106812	12.662	12.662	...	H1-1b
2	M101	L3X3X3	.545	2....	14	.468	.223	z	8	26973..	35316	1.32	2.833	...	H2-1
3	M102	L3X3X3	.567	0	13	.429	2.1...	z	7	26973..	35316	1.32	2.833	...	H2-1
4	M103	PL3/8x6	.292	.5...	1	.247	.516	y	23	36639..	72900	.57	9.113	...	H1-1b
5	M106	L2x2x3	.351	4....	8	.027	0	y	1	99823....	23392..	.558	1.075	...	H2-1
6	M107	L2x2x3	.307	0	6	.028	4.1...	y	1	99823....	23392..	.558	1.075	...	H2-1
7	M111	PL3/8x6	.221	0	4	.216	0	y	18	70677..	72900	.57	9.113	...	H1-1b
8	M112	PL3/8x6	.224	.1...	8	.106	0	y	14	71601..	72900	.57	9.113	...	H1-1b
9	M114	PL3/8x6	.095	.1...	1	.320	0	y	24	72311..	72900	.57	9.113	...	H1-1b
10	M116	PL3/8x6	.206	0	9	.218	0	y	17	70677..	72900	.57	9.113	...	H1-1b
11	M117	PL3/8x6	.204	.1...	7	.111	0	y	13	71601..	72900	.57	9.113	...	H1-1b
12	M119	PL3/8x6	.099	.1...	1	.217	0	y	2	72311..	72900	.57	9.113	...	H1-1b
13	M124	HSS4X4...	.231	2....	21	.073	2.9...	y	19	95848..	106812	12.662	12.662	...	H1-1b
14	M125	L3X3X3	.551	2....	22	.489	.223	z	4	26973..	35316	1.32	2.833	...	H2-1
15	M126	L3X3X3	.568	0	21	.453	2.1...	z	3	26973..	35316	1.32	2.833	...	H2-1
16	M127	PL3/8x6	.309	.5...	9	.247	.516	y	19	36639..	72900	.57	9.113	...	H1-1b
17	M130	L2x2x3	.364	4....	4	.027	0	y	15	9823....	23392..	.558	1.075	...	H2-1
18	M131	L2x2x3	.320	0	3	.029	4.1...	y	15	9823....	23392..	.558	1.076	...	H2-1
19	M135	PL3/8x6	.195	0	12	.219	0	y	14	70677..	72900	.57	9.113	...	H1-1b
20	M136	PL3/8x6	.233	.1...	4	.107	0	y	22	71601..	72900	.57	9.113	...	H1-1b
21	M138	PL3/8x6	.100	.1...	9	.319	0	y	20	72311..	72900	.57	9.113	...	H1-1b
22	M140	PL3/8x6	.185	0	5	.217	0	y	15	70677..	72900	.57	9.113	...	H1-1b
23	M141	PL3/8x6	.217	.1...	3	.111	0	y	21	71601..	72900	.57	9.113	...	H1-1b
24	M143	PL3/8x6	.105	.1...	9	.241	0	y	49	72311..	72900	.57	9.113	...	H1-1b
25	M148	HSS4X4...	.230	2....	17	.102	2.9...	y	27	95848..	106812	12.662	12.662	...	H1-1b
26	M149	L3X3X3	.549	2....	18	.463	.223	z	11	26973..	35316	1.32	2.833	...	H2-1
27	M150	L3X3X3	.567	0	17	.442	2.1...	z	11	26973..	35316	1.32	2.833	...	H2-1
28	M151	PL3/8x6	.305	.5...	5	.267	.516	y	27	36639..	72900	.57	9.113	...	H1-1b
29	M154	L2x2x3	.345	4....	12	.027	0	y	23	9823....	23392..	.558	1.075	...	H2-1
30	M155	L2x2x3	.318	0	10	.028	4.1...	y	23	9823....	23392..	.558	1.075	...	H2-1
31	M159	PL3/8x6	.220	0	8	.218	0	y	22	70677..	72900	.57	9.113	...	H1-1b
32	M160	PL3/8x6	.219	.1...	11	.107	0	y	18	71601..	72900	.57	9.113	...	H1-1b
33	M162	PL3/8x6	.097	.1...	5	.449	0	y	28	72311..	72900	.57	9.113	...	H1-1b
34	M164	PL3/8x6	.200	0	1	.216	0	y	23	70677..	72900	.57	9.113	...	H1-1b
35	M165	PL3/8x6	.214	.1...	11	.111	0	y	17	71601..	72900	.57	9.113	...	H1-1b
36	M167	PL3/8x6	.103	.1...	5	.212	0	y	6	72311..	72900	.57	9.113	...	H1-1b
37	M172	PIPE_3.0	.155	8....	39	.068	7.9...		8	28250..	65205	5.749	5.749	...	H1-1b
38	MP1A	PIPE_2.0	.267	4	4	.078	4		6	14916..	32130	1.872	1.872	...	H1-1b
39	MP2A	PIPE_2.5	.298	4....	4	.111	4.6...		11	30038..	50715	3.596	3.596	...	H1-1b
40	MP3A	PIPE_2.0	.372	4....	10	.089	1.9...		8	14916..	32130	1.872	1.872	...	H1-1b
41	MP4A	PIPE_2.0	.263	4	10	.073	4		12	14916..	32130	1.872	1.872	...	H1-1b
42	M181	PIPE_3.0	.143	8....	6	.072	4.1...		3	28250..	65205	5.749	5.749	...	H1-1b
43	MP1C	PIPE_2.0	.253	4	12	.079	4		2	14916..	32130	1.872	1.872	...	H1-1b
44	MP2C	PIPE_2.5	.284	4....	12	.113	4.6...		7	30038..	50715	3.596	3.596	...	H1-1b
45	MP3C	PIPE_2.0	.357	4....	6	.091	1.9...		4	14916..	32130	1.872	1.872	...	H1-1b
46	MP4C	PIPE_2.0	.251	4	6	.075	4		8	14916..	32130	1.872	1.872	...	H1-1b
47	M190	PIPE_3.0	.151	8....	2	.064	7.9...		12	28250..	65205	5.749	5.749	...	H1-1b
48	MP1B	PIPE_2.0	.267	4	8	.082	.5		5	14916..	32130	1.872	1.872	...	H1-1b
49	MP2B	PIPE_2.5	.294	4....	8	.113	4.6...		3	30038..	50715	3.596	3.596	...	H1-1b

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

	Member	Shape	Code Check	L...	LC	Shear C...	Loc...	...	...	phi*P...	phi*P...	phi*M...	phi*M...	...	Eqn
50	MP3B	PIPE_2.0	.364	4...	2	.089	1.9...		12	14916..	32130	1.872	1.872	...	H1-1b
51	MP4B	PIPE_2.0	.247	4	2	.074	4		4	14916..	32130	1.872	1.872	...	H1-1b
52	M101A	PIPE_2.0	.097	2	6	.019	2		6	28843..	32130	1.872	1.872	...	H1-1b
53	M102A	L3X3X4	.315	0	3	.030	0	y	10	41921..	46656	1.688	3.756	...	H2-1
54	M116A	PIPE_2.5	.156	2...	10	.083	10....		6	14558..	50715	3.596	3.596	...	H1-1b
55	M120A	PIPE_2.5	.149	8...	5	.086	10....		2	14558..	50715	3.596	3.596	...	H1-1b
56	M125A	PIPE_2.5	.151	8...	2	.091	10....		10	14558..	50715	3.596	3.596	...	H1-1b
57	M132A	LL3x3x3...	.090	0	13	.006	0	z	10	47907..	70632	5.543	3.751	1	H1-1..
58	M133A	LL3x3x3...	.090	0	21	.006	4.2...	z	6	47907..	70632	5.543	3.751	1	H1-1..
59	M134A	LL3x3x3...	.089	0	17	.006	4.2...	z	2	47907..	70632	5.543	3.751	1	H1-1..
60	M125B	L3X3X4	.311	0	11	.029	0	y	11	41921..	46656	1.688	3.756	...	H2-1
61	M130A	L3X3X4	.309	0	7	.029	0	y	2	41921..	46656	1.688	3.756	...	H2-1

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N144A	max	1192.191	10	309.675	7	4798.638	1	.139	7	1.806	4	.238	22
2		min	-1179.179	4	-791.422	1	-2312.267	7	-.593	1	-1.779	10	-.012	3
3	N173	max	4189.451	9	268.778	3	1100.481	3	.466	19	1.534	12	.599	9
4		min	-2068.204	3	-832.303	9	-2342.265	9	-.086	37	-1.508	6	-.245	3
5	N202	max	1870.427	11	243.08	11	1187.418	11	.332	5	1.664	8	.098	10
6		min	-4006.857	5	-931.231	29	-2403.945	5	-.312	47	-1.639	2	-.918	28
7	N192A	max	44.784	10	3063.455	13	-114.781	7	0	75	0	4	0	10
8		min	-44.835	4	92.815	7	-3014.987	13	0	1	0	10	0	4
9	N194A	max	-42.356	3	3058.307	21	1504.867	21	0	6	0	12	0	12
10		min	-2606.627	21	26.937	3	24.453	3	0	12	0	6	0	6
11	N196A	max	2589.405	17	3038.531	17	1495.12	17	0	8	0	8	0	8
12		min	88.689	11	80.445	11	51.209	11	0	2	0	2	0	2
13	Totals:	max	5044.312	10	6522.643	20	4859.8	1						
14		min	-5044.315	4	2206.464	65	-4859.793	7						

VzW SMART Tool© Vendor

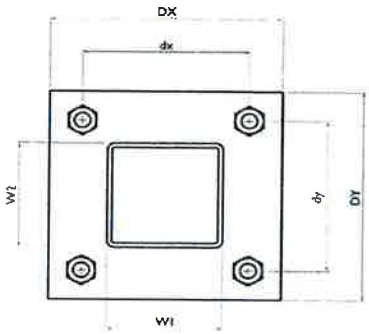
Client:	VERIZON WIRELESS	Date:	9/27/2023
Site Name:	ROCKY NECK CT		
MDG #:	5000122067		
Fuze ID #:	2505529	Page:	1

Version 1.01

I. Mount-to-Tower Connection Check

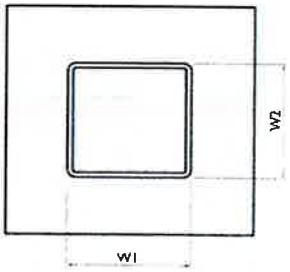
Custom Orientation Required	No
Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel

Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)*:	6
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	6
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	2.5
Required Shear Strength / bolt (kips):	0.3
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	11.9%



Tower Connection Baseplate Checks	Yes

Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	10
Plate Height, D_y (in):	10
W1(in):	4
W2 (in):	4
Member Thickness (in):	0.1875
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.5
Length of Yield Line, L_y (in):	6.29
Bolt Eccentricity, e (in):	1.59
M_u (kip-in):	3.93
Phi*M_n (kip-in):	12.73
Plate Bending Utilization:	30.8%

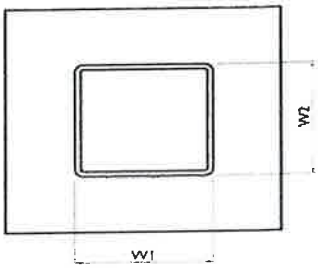


VzW SMART Tool© Vendor

Client:	VERIZON WIRELESS	Date:	9/27/2023
Site Name:	ROCKY NECK CT		
MDG #:	5000122067		
Fuze ID #:	2505529	Page:	2
			Version 1.01

Tower Connection Weld Checks

	Yes
Weld Shape:	Rectangle
Weld Stiffener Configuration:	None
Weld Size (1/16 in):	4
W1 (in):	4
W2 (in):	4
Weld Total Length (in):	16.00
Z_x (in^3/in):	21.33
Z_y (in^3/in):	21.33
J_p (in^4/in):	85.33
c_x (in)	2.1875
c_y (in)	2.1875
Required combined strength (kip/in):	0.84
Weld Capacity (kip/in):	5.57
Weld Utilization:	**15.1%**



verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 12.50' PLATFORM

TOWER OWNER: SBA COMMUNICATIONS
TOWER OWNER SITE NUMBER: CT11794

CARRIER SITE NAME: ROCKY NECK CT
CARRIER SITE NUMBER: 5000122067
FUZE ID: 2505529

49 BRAINERD ROAD
NIANTIC, CT 06357
NEW LONDON COUNTY

LATITUDE: 41.307583° N
LONGITUDE: 72.223917° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 130 MPH
EXPOSURE CATEGORY C
TOPOGRAPHIC METHOD II
TOPOGRAPHIC CONSIDERED NO
MEAN BASE ELEVATION (AMSL) = 13.5'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_s = .198
LONG TERM MCER GROUND MOTION, S_1 = .053

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: COLLIERS ENGINEERING & DESIGN
CONTACT: PETER ALBANO
PHONE: 856.797.0412
E-MAIL: PETER.ALBANO@COLLIERSENG.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10178167
VZW LOCATION CODE (MDG): 5000122067
ANALYSIS DATE: 10/11/2023

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

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

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NEW LONDON COUNTY

TITLE SHEET

ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	504	504
1	VZWSMART	VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	291	291
1	VZWSMART	VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
1	VZWSMART	VZWSMART-MSK6	BACK TO BACK CROSSOVER PLATE		34	34
3	VZWSMART	VZWSMART-P40-278X096	96" LONG, PIPE 2.5 SCH40 (2.875"OD X 0.203" THK)		44	132
1	VZWSMART	VZWSMART-P40-238X048	48" LONG, PIPE 2 SCH40 (2.375"OD X 0.154" THK)		15	15

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	SITE PRO 1	SP219-H	2-7/8" TO 3-1/2" PIPE MOUNT ASSEMBLY	OR EOR APPROVED EQUAL, CONTACT EOR FOR APPROVAL OF SUBSTITUTION.	13	39
-	-	-	1/2" J429 GR-2 U-BOLTS			

SECTION 3 - REQUIRED SAFETY CLIMB PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	PERFECT VISON	H42-0501-06	STANDOFF CLAMP BRACKET	OR EOR APPROVED EQUIVALENT	-	-
1	PERFECT VISION	PV-CMX-CG-8O	WIRE ROPE GUIDE	OR EOR APPROVED EQUIVALENT	-	-
					TOTAL:	1165

NOTES:

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.

2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM

METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM

SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NEWAVE	
CONTACT	NEWAVE SALES TEAM
PHONE	(971) 239-4762
EMAIL	SALES@NEWAVETC.COM
WEBSITE	WWW.NEWAVETC.COM

BETTER METAL, LLC	
CONTACT	DAVID STANSBERRY
PHONE	(615) 535-0990 (O), (615) 631-2520 (M)
EMAIL	DLS@BETTERMETAL.COM
WEBSITE	WWW.BETTERMETAL.COM

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BILL OF MATERIALS

SBOM-1

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS: INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

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

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

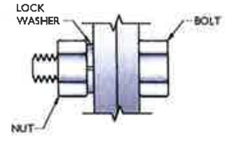
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENG.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8

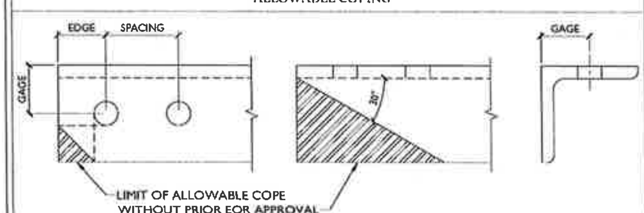


TYP. BOLT ASSEMBLY

NOTES:

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

ALLOWABLE COPING



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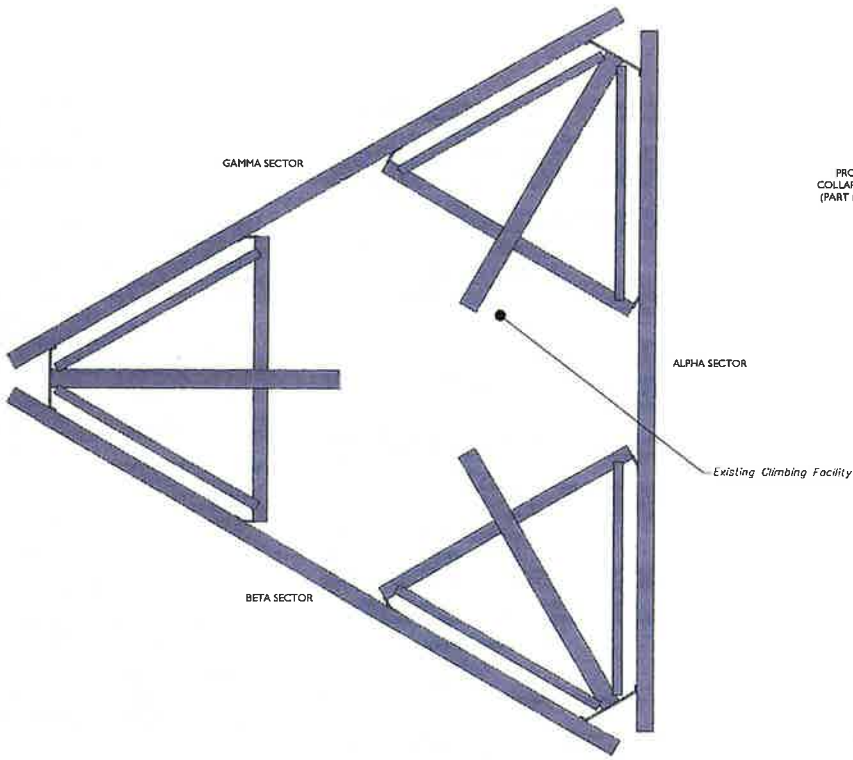
NEW LONDON COUNTY

GENERAL NOTES

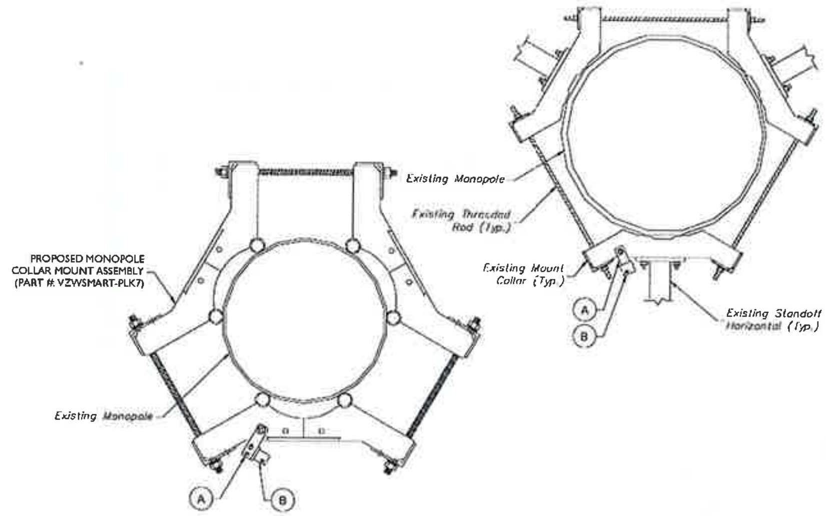
SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 CLIMBING FACILITY LOCATION

SCALE : N.T.S.



ITEM #	QTY	PART NUMBER	DESCRIPTIONS
A	1	H42-0501-06	STANDOFF CLAMP BRACKET (PERFECT VISION OR EOR APPROVED EQ.)
B	1	PV-CMX-CG-BO	WIRE ROPE GUIDE (PERFECT VISION OR EOR APPROVED EQ.)

2 PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW

SCALE : N.T.S.

NOTE: CONTRACTOR SHALL ENSURE THAT WIRE ROPE GUIDE DOES NOT PUSH THE WIRE ROPE OUTSIDE OF THE VERTICAL PLANE OF THE SAFETY CLIMB. CONTRACT EOR WITH PHOTOS OF SAFETY CLIMB AND COLLAR FOR FURTHER DIRECTION IF NEEDED.

CLIMBING FACILITY PHOTO

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY STRUCTURAL COMPONENTS, LLC ON 9/10/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (145'-0") ARE IN GOOD CONDITION. COLLIERS ENGINEERING & DESIGN DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

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CLIMBING FACILITY DETAIL

SCF-1

LEGEND:

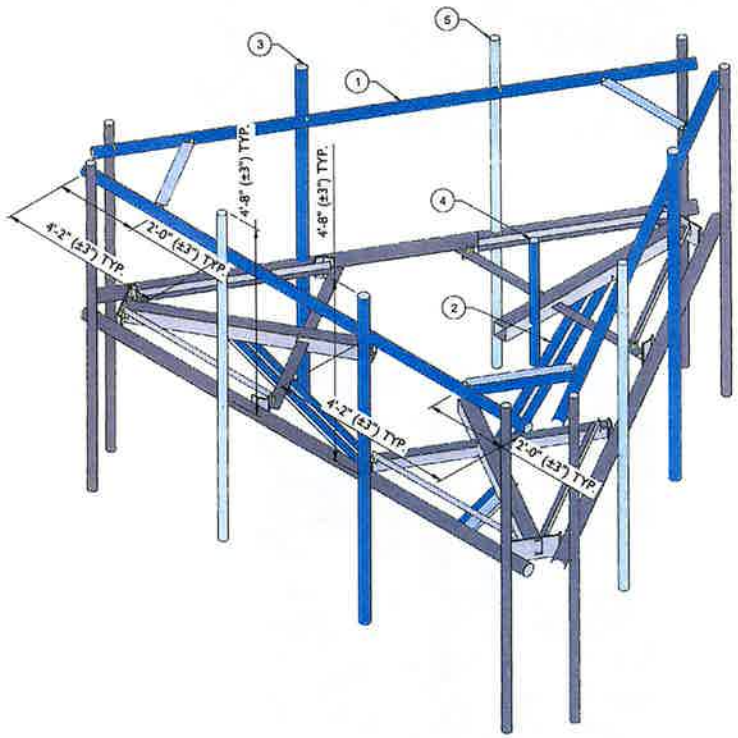
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

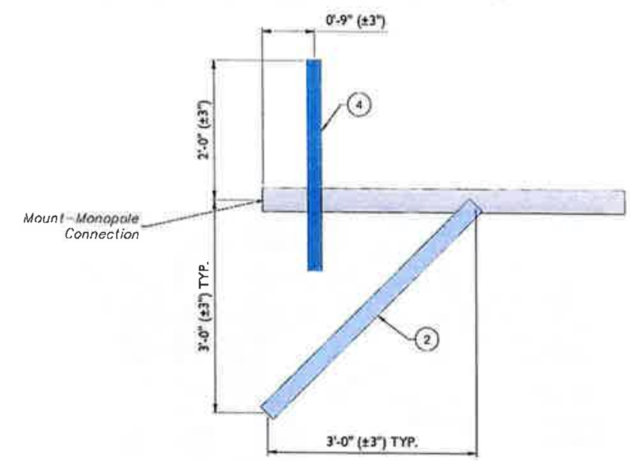
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	145'-0"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
2		1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7)
3		3	PROPOSED 96" LONG, PIPE 2.5 SCH40 (PART #: VZWSMART-P40-278X096)	CONNECT NEW MOUNT PIPES TO EXISTING FACE HORIZONTAL WITH CROSSOVER PLATES (SITE PRO 1 PART #: SP219-H)
4		1	PROPOSED 48" LONG, PIPE 2 SCH40 (PART #: VZWSMART-P40-238X048)	CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK6, OR EOR APPROVED EQUAL). CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.
5		3	RELOCATED MOUNT PIPE	CONNECT RELOCATED MOUNT PIPES TO EXISTING FACE HORIZONTAL WITH EXISTING CROSSOVER PLATES AND NEW 1/2" J429 GR-2 U-BOLTS

GENERAL NOTES:

A. THREADED ROD FROM PROPOSED KITS SHALL BE TRIMMED TO EXTEND NO MORE THAN 3" BEYOND THE LOCK NUT. TREAT ALL CUT ENDS WITH (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC KOTE).
B. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



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



2 PROPOSED STANDOFF SIDE ELEVATION VIEW
SCALE: N.T.S.

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MODIFICATION DETAILS

SS-1

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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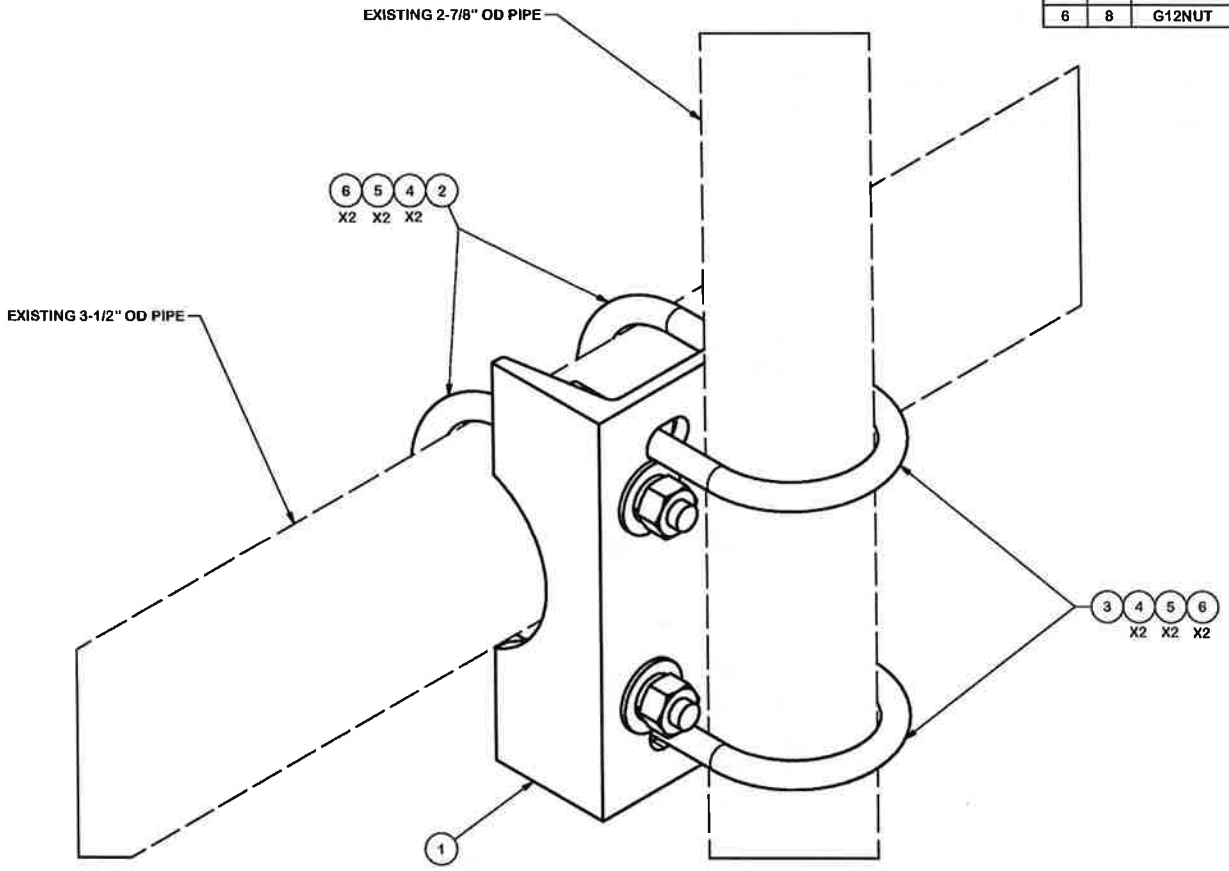
MOUNT PHOTOS

SS-2

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SP219	SMALL SUPPORT CROSS PLATE	8 1/4 In	8.61	8.61
2	2	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.66	1.31
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.66	1.31
4	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	12.61



FOR REFERENCE ONLY

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	REDRAWN IN INV, UPDATED VIEWS & TABLE		KC8	8-21-2012

REVISION HISTORY

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
2-7/8" TO 3-1/2"
PIPE MOUNT ASSEMBLY

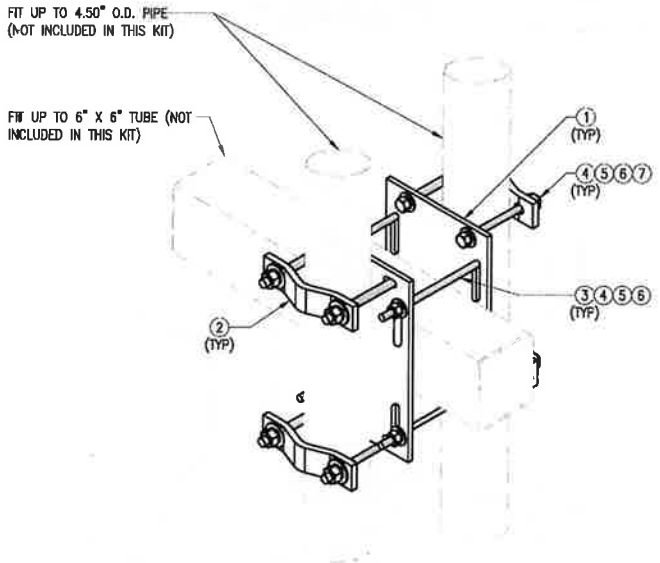
SITE PRO 1
A valmont COMPANY

Engineering Support Team: 1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
4518	BMC 6/3/2009		SP219-H

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	CEK 2/18/2013	SP219-H



ISOMETRIC VIEW
BACK TO BACK CROSSOVER

VZWSMART-MSK6 (VZWSMART-MSK6 - BACK TO BACK CROSSOVER)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	2	PL375-8512	PL 3/8" X 8 1/2" X 1'-0" A36	MSK6-F2	20.7
2	4	WCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK6-F1	9.6
3	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---
4	16	NUT-625	5/8" HDG HEX NUT	---	2
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	8	---	BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD	---	1
				GALVANIZED WT	34

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

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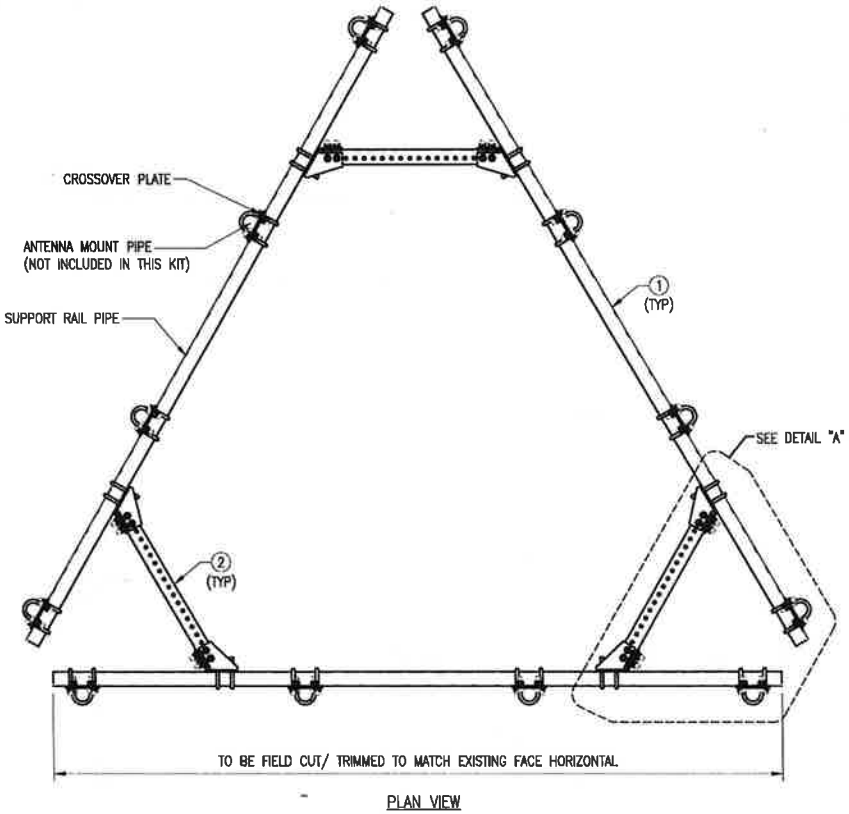
DRAWN BY: SK | CHECKED BY: GT/KW

REV	DESCRIPTION	BY	DATE
1	FIRST ISSUE	SK	05/08/20

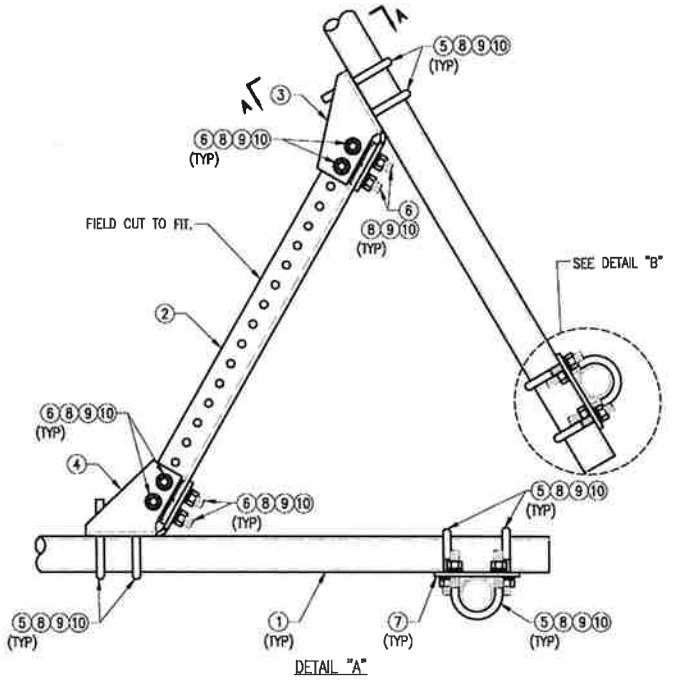
SHEET TITLE:
VZWSMART-MSK6
BACK TO BACK
CROSSOVER

SHEET NUMBER: VZWSMART-MSK6

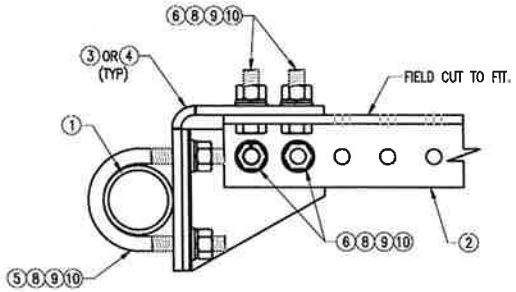
REV #: 0



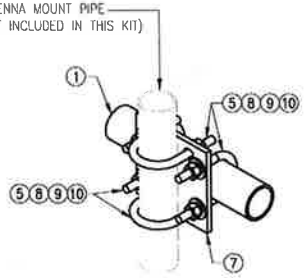
PLAN VIEW



DETAIL "A"



SECTION "A-A"



DETAIL "B"

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

VZW SMART-PLK1 (SUPPORT RAIL KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 1'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
				GALVANIZED WT	504

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DRAWN BY: H.R | CHECKED BY: HMA

REV	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/06/20

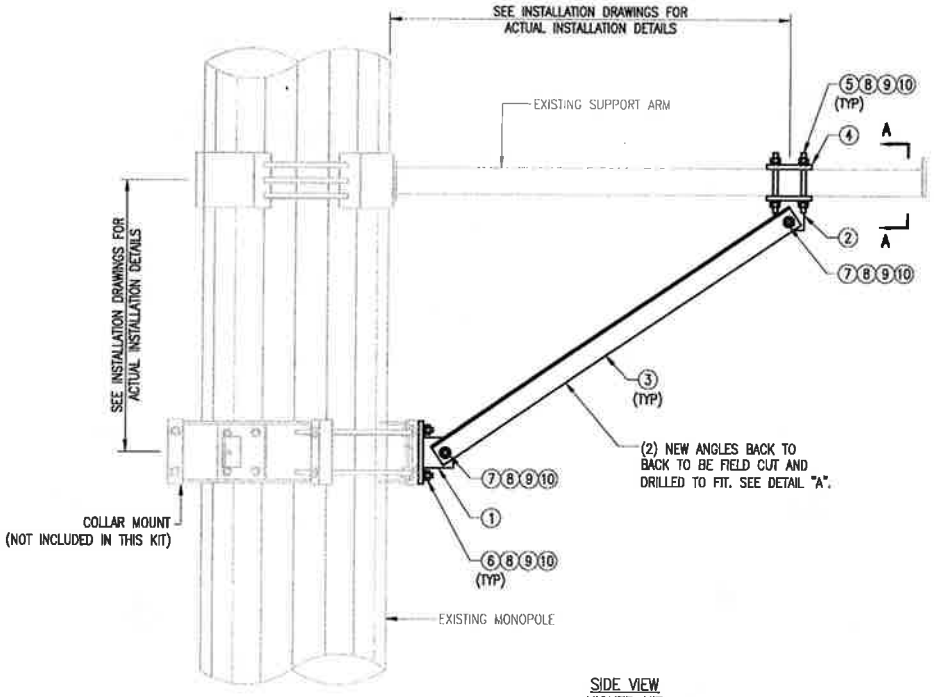
SHEET TITLE:

VZWSMART-PLK1
SUPPORT RAIL KIT

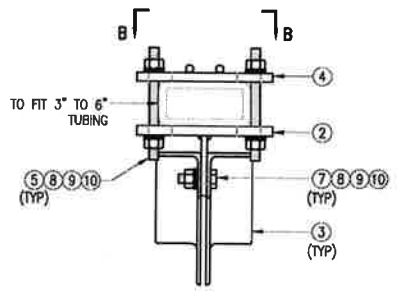
SHEET NUMBER: VZWSMART-PLK1

REV #: 0

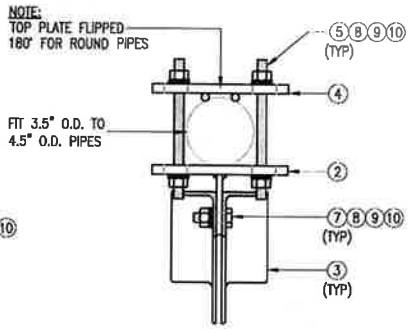
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



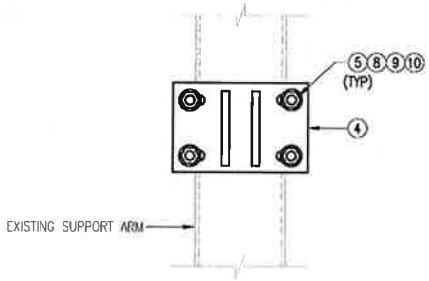
SIDE VIEW
KICKER KIT



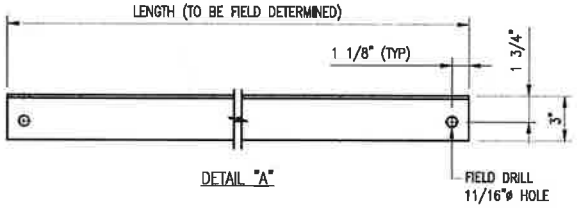
SECTION "A-A"
RECT. HSS MOUNTING



SECTION "A-A"
ROUND PIPE MOUNTING



SECTION "B-B"



DETAIL "A"

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

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

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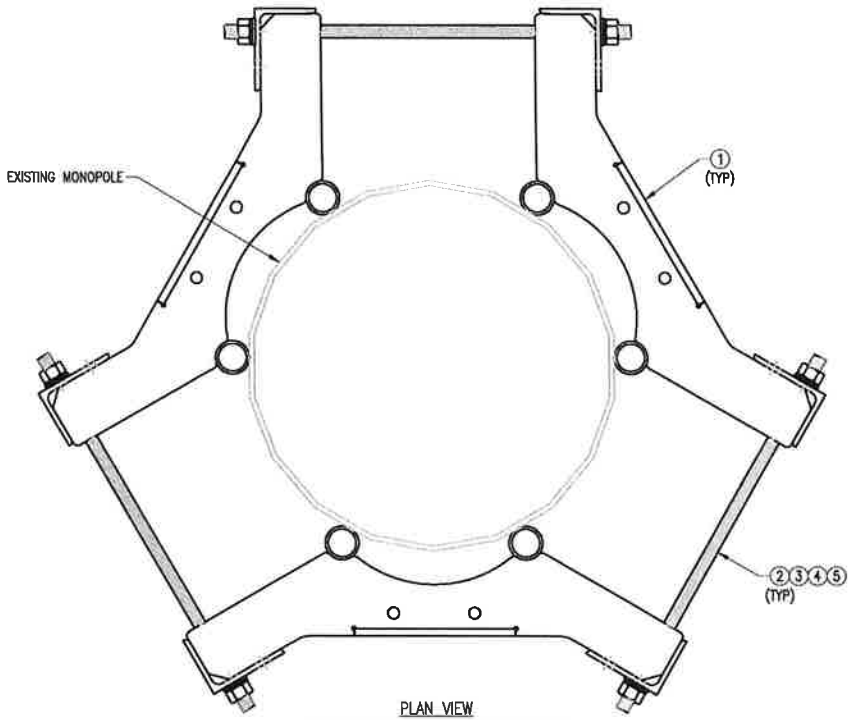
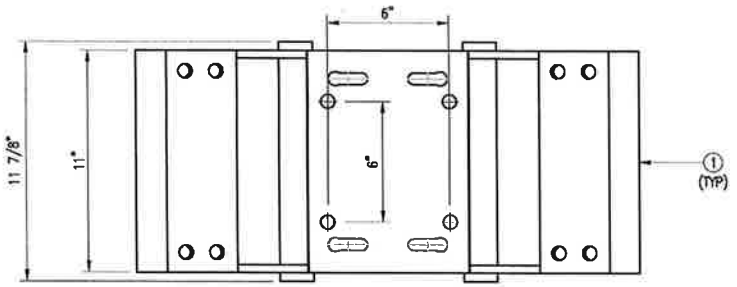
DRAWN BY: MN	CHECKED BY: MM/KW
REV	DESCRIPTION	BY	DATE
1	FIRST ISSUE	MN	05/08/20

SHEET TITLE:
VZWSMART-PLK5
KICKER KIT

SHEET NUMBER:	REV #:
VZWSMART-PLK5	0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

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

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

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

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FOR REFERENCE ONLY

DRAWN BY: BT | CHECKED BY: HMA/KW

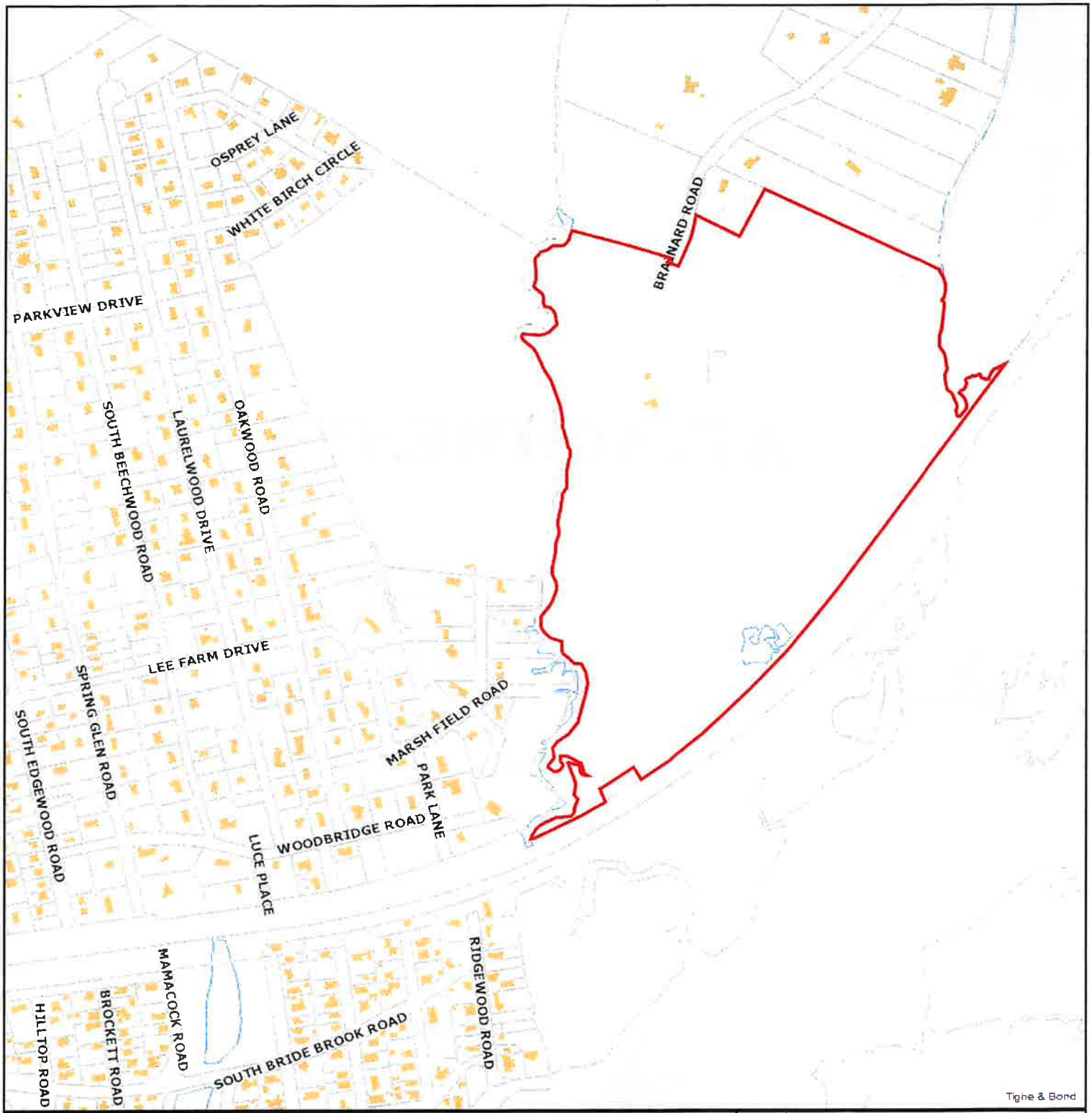
REV	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0

ATTACHMENT 5



49 BRAINERD RD

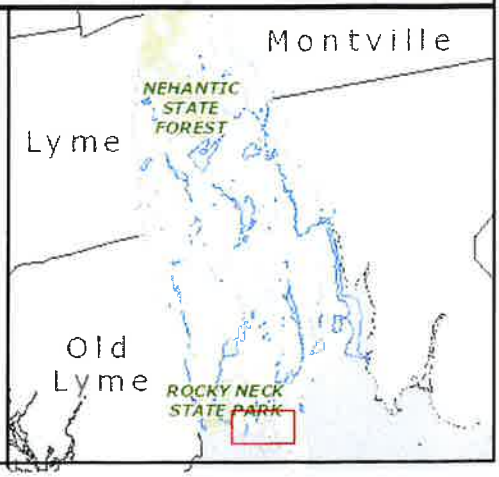
2/6/2024 1:35:39

1"=500'

Property Information

Parcel ID	07.4 21
Address	49 BRAINERD RD
Total Assessed Parcel	440990

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.



49 BRAINERD RD

Location	49 BRAINERD RD	**Mblu**	07.4/ 21/ / /
Acct#	005680	**Owner**	DOUBLE R RANCH LLC
Assessment	$440,990	**Appraisal**	$776,300
PID	5939	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$340,400	$435,900	$776,300
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$238,280	$202,710	$440,990

Owner of Record

Owner	DOUBLE R RANCH LLC
Co-Owner	
Address	468 PEQUOT AVE NEW LONDON, CT 06320

Sale Price	$1,200,000
Certificate	
Book & Page	1103/0411
Sale Date	11/09/2023
Instrument	00

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
SAMUELSEN CHRISTOPHER TR	$0		1087/0241	04	09/20/2022
SAMUELSEN CHRISTOPHER	$0		0831/0222	04	07/10/2009
SAMUELSEN CHRISTOPHER &	$0		0788/0266	04	10/24/2007
SAMUELSEN CHRISTOPHER	$560,000		0748/0207	07	07/13/2006

Building Information

Building 1 : Section 1

Year Built:	1890
Living Area:	2,485
Replacement Cost:	$423,858
Building Percent Good:	67

ATTACHMENT 6

Verizon/Rocky Neck

UNITED STATES POSTAL SERVICE®

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	3	3	quadient CORRECTION IMI $003.34 02/08/2024 ZIP 06101 043M32206619 US POSTAGE
	Postmaster, per *(name of receiving employee)*		

USPS® Tracking Number / Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Daniel Cunningham, First Selectman Town of East Lyme 108 Pennsylvania Avenue Niantic, CT 06357				
2.	Gary Goeschel, II, Director of Planning Town of East Lyme 108 Pennsylvania Avenue Niantic, CT 06357				
3.	Double R Ranch LLC 468 Pequot Avenue New London, CT 06320				
4.					
5.					
6.					

OLD STATE HOUSE POST OFFICE FEB - 8 2024 HARTFORD, CT 06103

See Reverse for Instructions