



Crown Castle
300 Barr Harbor Drive
Suite 300
Conshohocken, PA 19428

July 22, 2024

Via Fedex #777534141965

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

RE: **Notice of Exempt Modification for Verizon Wireless: 5000381735**
Crown Site ID# 876361
20 Great Oak Rd, Oxford, CT 06478
Latitude: 41° 25' 34.91"/ Longitude: -73° 8' 39.33"

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains twelve (12) antennas at the 138-foot mount on the existing 150-foot monopole tower located at 20 Great Oak Road, Oxford, CT 06478. The property is owned by STC FIVE LLC and the tower is owned by Crown Castle. Cellco Partnership d/b/a Verizon Wireless now intends to add nine (9) new antennas with 0 remaining antennas and ancillary antenna equipment at the 138-ft mount level. This Eligible Facilities Request for antenna modification/proposal of an existing telecommunications facility includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Planned Modification:

Tower:

Install New:

- INSTALL (6) JMA - MX06FRO660-03 ANTENNAS
- INSTALL (3) SAMSUNG - MT6413-77A ANTENNAS
- INSTALL (3) SAMSUNG - RF4461D-13A RADIOS
- INSTALL (3) SAMSUNG - B2/B66A RRH ORAN (RF4439D-25A) RADIOS
- INSTALL (1) RAYCAP - 12 OVP
- INSTALL (2) RFS/CELWAVE - HB158-U12S24-XXX-LI HYBRID CABLE

Remove:

- REMOVE (6) AMPHENOL - BXA-70063-6CF ANTENNAS
- REMOVE (6) AMPHENOL - LPA-80063-6CF-EDIN-2 ANTENNAS

The facility was originally approved by the Town of Oxford on November 18, 1999.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 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 George R. Temple, First Selectman, Town of Oxford and Steven S. Macary, Zoning Enforcement Official, Town of Oxford and STC FIVE LLC, Property Owner. Crown Castle is the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Cellco Partnership d/b/a Verizon Wireless respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Jenifer Bachi.

Sincerely,



Jenifer Bachi
Permitting Specialist
300 Barr Harbor Drive, Ste. 300
Conshohocken, PA 19428
(610) 635-3221
Jenifer.bachi@crowncastle.com

Attachments are as follows:

Exhibit A – Original Facility Approval
Exhibit B – Property Card
Exhibit C – Property Map
Exhibit D – Construction Drawings
Exhibit E – Structural Analysis Report
Exhibit F – Mount Analysis Report

Exhibit G – Power Density / RF Emissions Report
Exhibit H – Recipient Mailing Records
Check #2969852 for \$625 Application Fee

cc: Via Fedex #777534069862
George R. Temple, First Selectman
Town of Oxford
486 Oxford Road
Oxford, CT 06478
203-888-2543 X3034

Via Fedex # 777534098880
Steven S. Macary, Zoning Enforcement Official
Town of Oxford
486 Oxford Road
Oxford, CT 06478
203-828-6503

Via Fedex # 777534124550
STC FIVE LLC, Property Owner
4017 Washington Road
McMurray, PA 15317

Crown Castle, Tower Owner

EXHIBIT A

Original Facility Approval

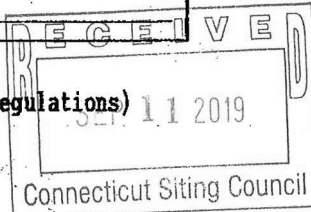
PLANNING & ZONING COMMISSION

TOWN OF OXFORD
486 Oxford Road
Oxford, CT 06478
(203) 888-2543

Z#: Z-99-182
Date Rec'd: 9/23/99
Date on Agenda: _____
65-Day Expiration: _____

ZONING PERMIT APPLICATION

(This permit is hereby applied for in accordance with the requirements of the Oxford Zoning Regulations)



Property Identification

Street Address: 20 Great Oak Road
Subdivision Name: _____ Date Approved: _____
Map: 21 Block: 61 Lot: 1A Zoning district: Municipal Property

Owner/Applicant

Owner Name: TOWN OF OXFORD
Owner Address: 486 Oxford Road, Oxford, Connecticut 06478
Owner Telephone: (203) 888-2543

Applicant Name: SPRINT SPECTRUM L.P.
Applicant Address: 9 Barnes Industrial Road, Wallingford, CT 06492
Applicant Telephone: (203) 294-5644

Alison - (203) 509-6583

Miscellaneous Information

Special Exception: Article 10 Section 8.4 Yes No
Site Plan Approval: Article _____ Section _____ Yes No
Estimated Cost of Construction: \$200,000
Variance Granted: _____ Date Granted: _____

Signatures/Authorization

Application for Zoning Permit approval as described herein is hereby made. The Oxford Planning & Zoning Commission and its technical staff are authorized to enter the property for the purpose of evaluating this application.

Permit Void If: a) Work or activity not commenced within 1 year of the date of issuance or b) Authorized construction not completed within 2 years of the date of issuance.

This permit, if issued, is based upon the plot plan submitted. Falsification, by misrepresentation or omission, or failure to comply with the conditions of approval of this permit constitute a violation of the Oxford Zoning Regulations.

Paul T. Schuber

Property Owner or Agent

9-2-99

Date

Purpose

☐ New Home
☐ Addition
☐ Garage
☐ Cottage Business
☐ Swimming Pool IG AG
☐ Sign
☐ Shed
☐ Barn
☐ Change of Use
☐ Excavating/Filling
☐ Trailer
☒ Other *wireless for communication tower/facility*

Use

☒ Single-Family Residence
☐ Multi-Family Residence
☐ Commercial
☐ Industrial
☐ Residential/POD
☐ Other _____

Required Approvals and Dates *4030*

☒ Inland Wetlands *9/23/99*
☒ P.D.D.H. _____
☐ Fire Marshal _____
☐ Z.B.A. _____
☐ W.P.C.A. _____
☐ Floodplain _____
☒ Copy of Deed *9/2/99*
☐ Driveway _____
☐ Erosion Control Plan _____
☒ Plot Plan * *Rev 9/21/99*
☐ Other _____

\$180.00 Town Fee *\$50 + 5/EW/PT*
\$10.00 State Fee *\$30 - Zoning Fee*
\$190.00 Total Fee *(190)*

*Draw plot plan of proposed construction and attach. Plan must show property boundaries and dimensions; location of proposed buildings on property with respect to boundaries; location of existing buildings on property; outside dimensions of all buildings proposed or now existing; location of water supply; location of sewage system. All copies must have a complete sketch. Construction and use must be exactly as described in this application. If later changes from this plan are desired prior approval of an amended application is necessary.

Denied Approved By: *Kelly Weymer* Date: *11-18-99*
Title: *ZFO*
Reason for Denial _____

ZPA-1
(Adopted 5/15/97)

EXHIBIT B

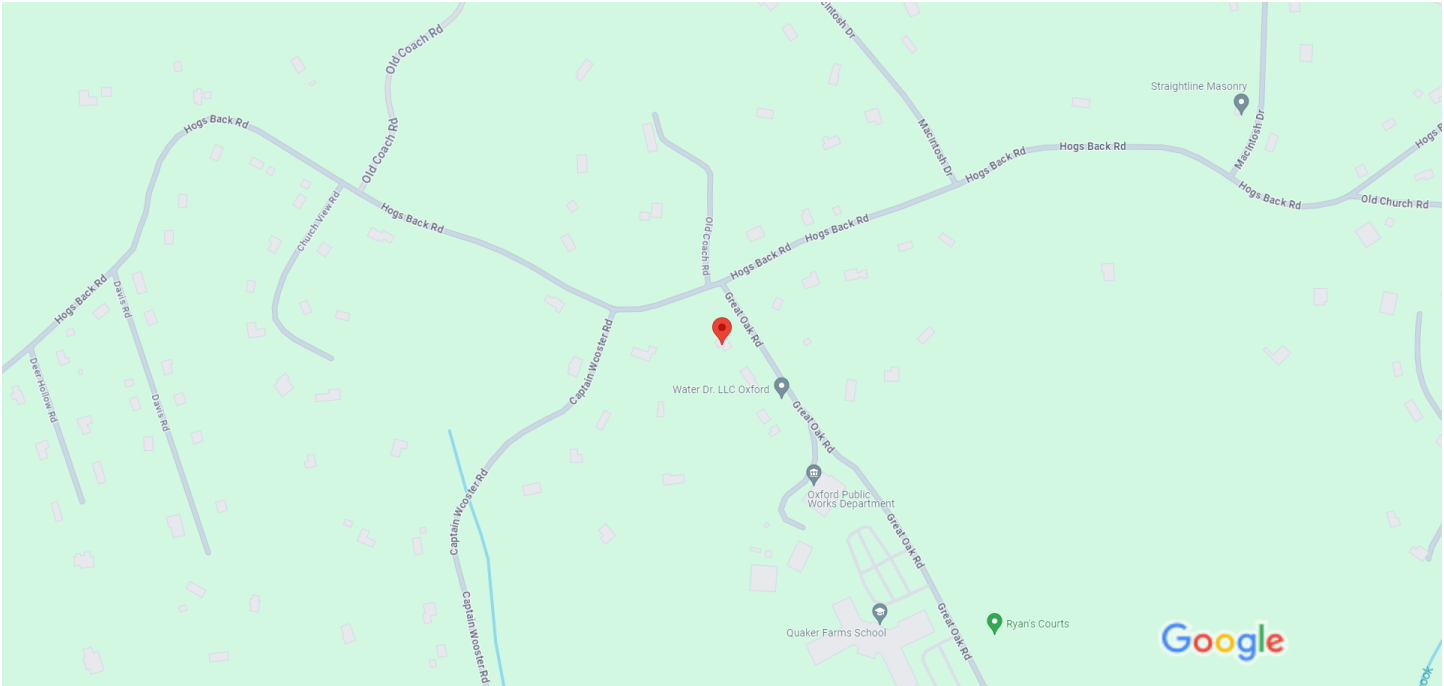
Property Card

EXHIBIT C

Property Map

Google Maps

20 Great Oak Rd



Map data ©2024 Google 200 ft



20 Great Oak Rd

Building

- 

Directions
- 

Save
- 

Nearby
- 

Send to
phone
- 

Share



20 Great Oak Rd, Oxford, CT 06478

Photos

EXHIBIT D

Construction Drawings



VERIZON SITE NUMBER: 5000381735
VERIZON SITE NAME: OXFORD W CT
VERIZON PROJECT: 5G L-SUB6 - CARRIER ADD
SITE TYPE: MONOPOLE
TOWER HEIGHT: 150'-11"

BUSINESS UNIT #: 876361
SITE ADDRESS: 20 GREAT OAK RD
OXFORD, CT 06478
COUNTY: NEW HAVEN
JURISDICTION: CONNECTICUT SITING COUNCIL



VERIZON SITE NUMBER:
5000381735

BU #: 876361

CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

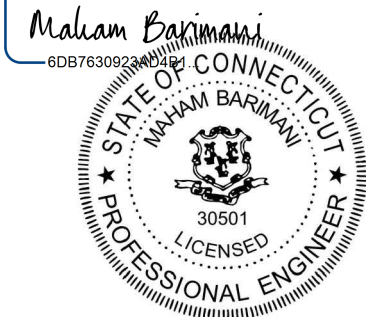
20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB

DocuSigned by:



5/28/2024 | 8:20:48 AM CDT

CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.000110
IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

T-1

REVISION:

1

SITE INFORMATION

CROWN CASTLE USA INC.
SITE NAME: SEYMOUR 2 / OXFORD TOWN GARAGE
BU NUMBER: 876361
TOWER OWNER: CROWN CASTLE
2000 CORPORATE DRIVE
CANONSBURG, PA 15317
CARRIER/APPLICANT: VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492
SITE ADDRESS: 20 GREAT OAK RD
OXFORD, CT 06478
COUNTY: NEW HAVEN
LATITUDE: 41° 25' 34.91" / 41.4264°
LONGITUDE: -73° 8' 39.33" / -73.1443°
LAT/LONG TYPE: NAD83
GROUND ELEVATION: 737'+/- AMSL
AREA OF CONSTRUCTION: EXISTING
CURRENT ZONING: 000021-000061-000038A-000050
MAP/PARCEL #: 000021-000061-000038A-000050
OCCUPANCY CLASSIFICATION: U
TYPE OF CONSTRUCTION: IIB
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND
NOT FOR HUMAN HABITATION
PROPERTY OWNER: SBA TOWERS IX, LLC
8051 CONGRESS AVE
BOCA RATON, FL 33487
JURISDICTION: CONNECTICUT SITING COUNCIL
TEN FRANKLIN SQUARE
NEW BRITAIN, CT 06051
ELECTRIC PROVIDER: CONNECTICUT LIGHT & POWER CO
(800) 286-2000
TELCO PROVIDER: AT&T
(800) 288-2020

PROJECT TEAM

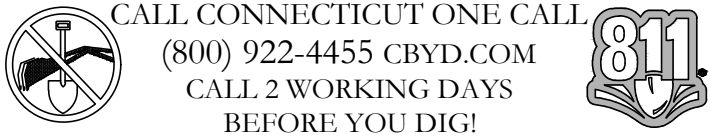
A&E FIRM: CROWN CASTLE USA INC.
2000 CORPORATE DRIVE
CANONSBURG, PA 15317
CROWN CASTLE
USA INC. DISTRICT
CONTACTS: 2000 CORPORATE DRIVE
CANONSBURG, PA 15317
ALEXANDER MABBETT - PROJECT MANAGER
ALEXANDER.MABBETT@CROWNCastle.COM
HEATHER MILLER - AES
HEATHER.MILLER@CROWNCastle.COM

NOTE:
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE
CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATIONS
C-3	ANTENNA PLANS
C-4	FINAL EQUIPMENT SCHEDULE
C-5.1	RFDS PLUMBING DIAGRAMs
C-5.2	RFDS PLUMBING DIAGRAMs
C-5.3	RFDS PLUMBING DIAGRAMs
C-5.4	RFDS PLUMBING DIAGRAMs
C-6	EQUIPMENT DETAILS & SPECIFICATIONS
C-7	COLOR CODE MATRIX
G-1	GROUNDING DETAILS
ATTACHED	MOUNT MODIFICATION (BY OTHERS)

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22x34.
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS
AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY
THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE
PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT	https://pmi.vzwsmart.com
SMART TOOL VENDOR	
PROJECT NUMBER	10213431
VzW LOCATION CODE (PSLC)	467421
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT	

MOUNT MODIFICATION REQUIRED

Y

VzW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS
PAGE FOR VzW SMART KIT APPROVED VENDORS

APPROVALS

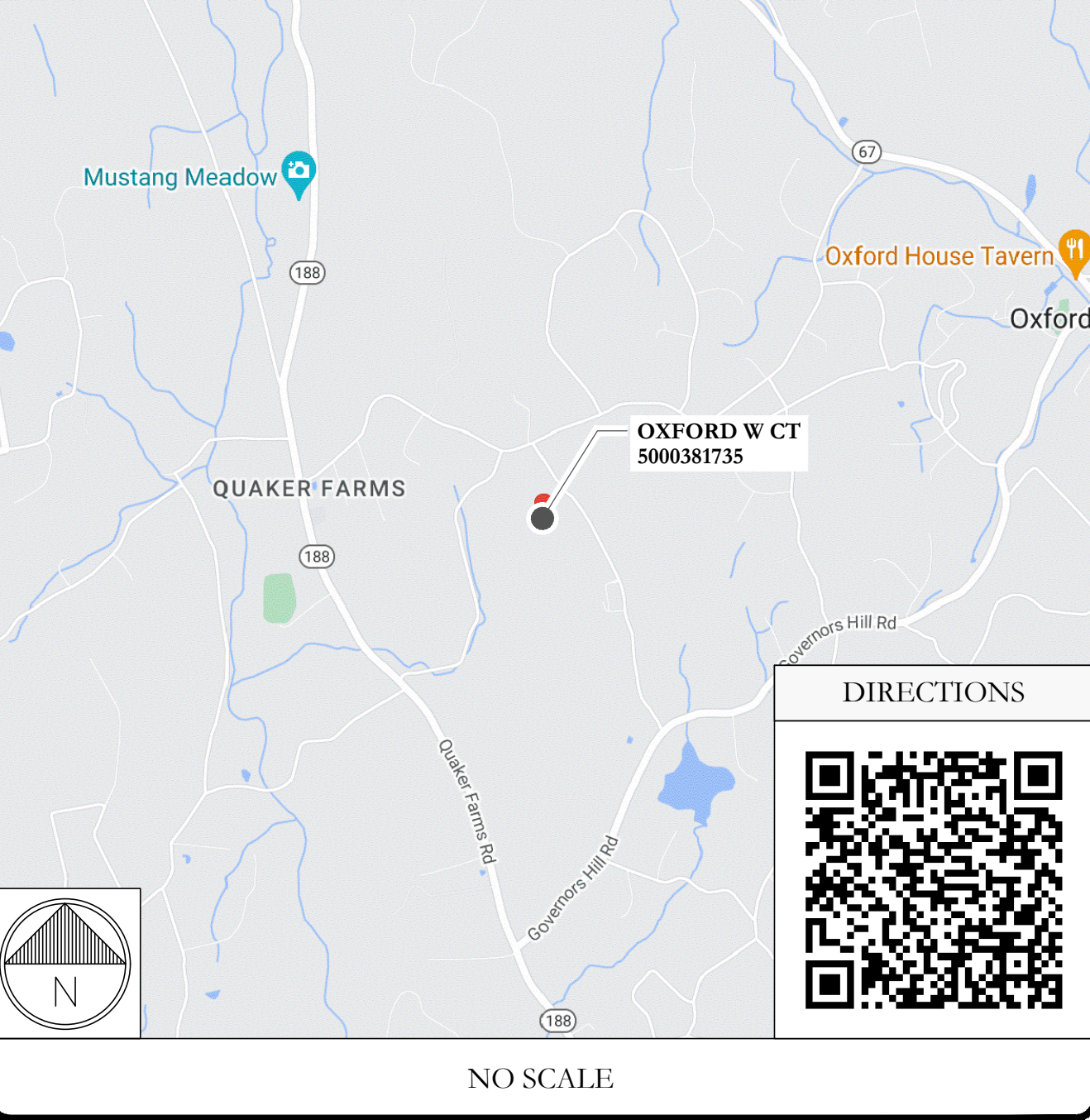
VERIZON SIGNATURE BLOCK		
APPROVAL	SIGNATURE	DATE
SITE ACQUISITION		
CONSTRUCTION		
RADIO		
MICROWAVE		
TELCO		
EQUIPMENT		
PROJECT ADMINISTRATOR		
WO ADMINISTRATOR		
CROWN CASTLE USA INC. SINGNATURE BLOCK		
APPROVAL	SIGNATURE	DATE
SITE ACQUISITION		
PLANNER		
CONSTRUCTION		
PROJECT MANAGER		
UTILITY MANAGER		
LANDLORD		

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND
CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE
WIRELESS FACILITY.
TOWER SCOPE OF WORK:
• REMOVE (6) AMPHENOL - BXA-70063-6CF ANTENNAS
• REMOVE (6) AMPHENOL - LPA-80063-6CF-EDIN-2 ANTENNAS
• REMOVE (2) ANDREW - 1 5/8" COAX CABLES
• INSTALL (6) JMA - MX06FRO660-03 ANTENNAS
• INSTALL (3) SAMSUNG - MT6413-77A ANTENNAS
• INSTALL (3) SAMSUNG - RF4461D-13A RADIOS
• INSTALL (3) SAMSUNG - B2/B66A RRH ORAN (RF4439D-25A) RADIOS
• INSTALL (1) RAYCAP - 12 OVP
• INSTALL (2) RFS/CELWAVE - HB158-U12S24-XXX-L1 HYBRID CABLES

GROUND SCOPE OF WORK:
• REMOVE (3) NOKIA - UHBA B13 RRH 4X30 RADIOS

LOCATION MAP



APPLICABLE CODES &
REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN
ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES
AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN
THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING
TO THESE CODES:

CODE TYPE	CODE
BUILDING	2022 CT STATE BUILDING CODE/2021 IBC W/ CT AMENDMENTS
MECHANICAL	2022 CT STATE BUILDING CODE/2021 IMC W/ CT AMENDMENTS
ELECTRICAL	2022 CT STATE BUILDING CODE/2020 NEC W/ CT AMENDMENTS

REFERENCE DOCUMENTS:
STRUCTURAL ANALYSIS: CROWN CASTLE
DATED: 2/20/24
MOUNT ANALYSIS: COLLIERS ENGINEERING & DESIGN
DATED: 11/15/23
RFDS REVISION: REV5
DATED: 11/8/23
ORDER ID: 662915
REVISION: 0

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED-- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" -- CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR 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. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. 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 CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR 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 AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. 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 CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. 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 ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR 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.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR 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.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. 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.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: VERIZON
TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR 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 CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR 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. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR 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.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE--THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER.....40 ksi
#5 BARS AND LARGER.....60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER.....2"
#5 BARS AND SMALLER.....1-1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS.....3/4"
BEAMS AND COLUMNS.....1-1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
 - 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
 - 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR--CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE, CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. 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 NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC ON STRAIGHTS AND SCHEDULE 80 PVC UNDER ALL TRAFFIC EASEMENTS AND ALL ELBOWS/90° ABOVE GRADE CONDUIT TO BE SCH 80 PVC OR IMC/RMC CONDUIT. EMT IS ALLOWED AT STUB UP LOCATIONS AND INDOORS ONLY.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREFOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER--ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER: PARALLEL AND PERPENDICULAR TO STRUCTURE AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY--COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. 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 BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
DC VOLTAGE	GROUND	GREEN
	POS (+)	RED**
	NEG (-)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

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CROWN CASTLE

VERIZON SITE NUMBER:
5000381735

BU #: 876361

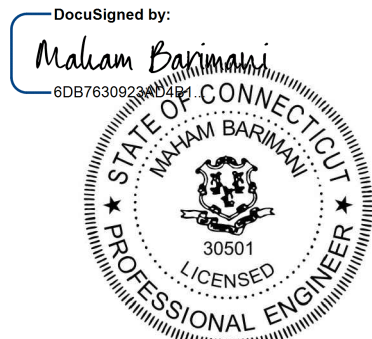
CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



5/28/2024 | 8:20:48 AM CDT

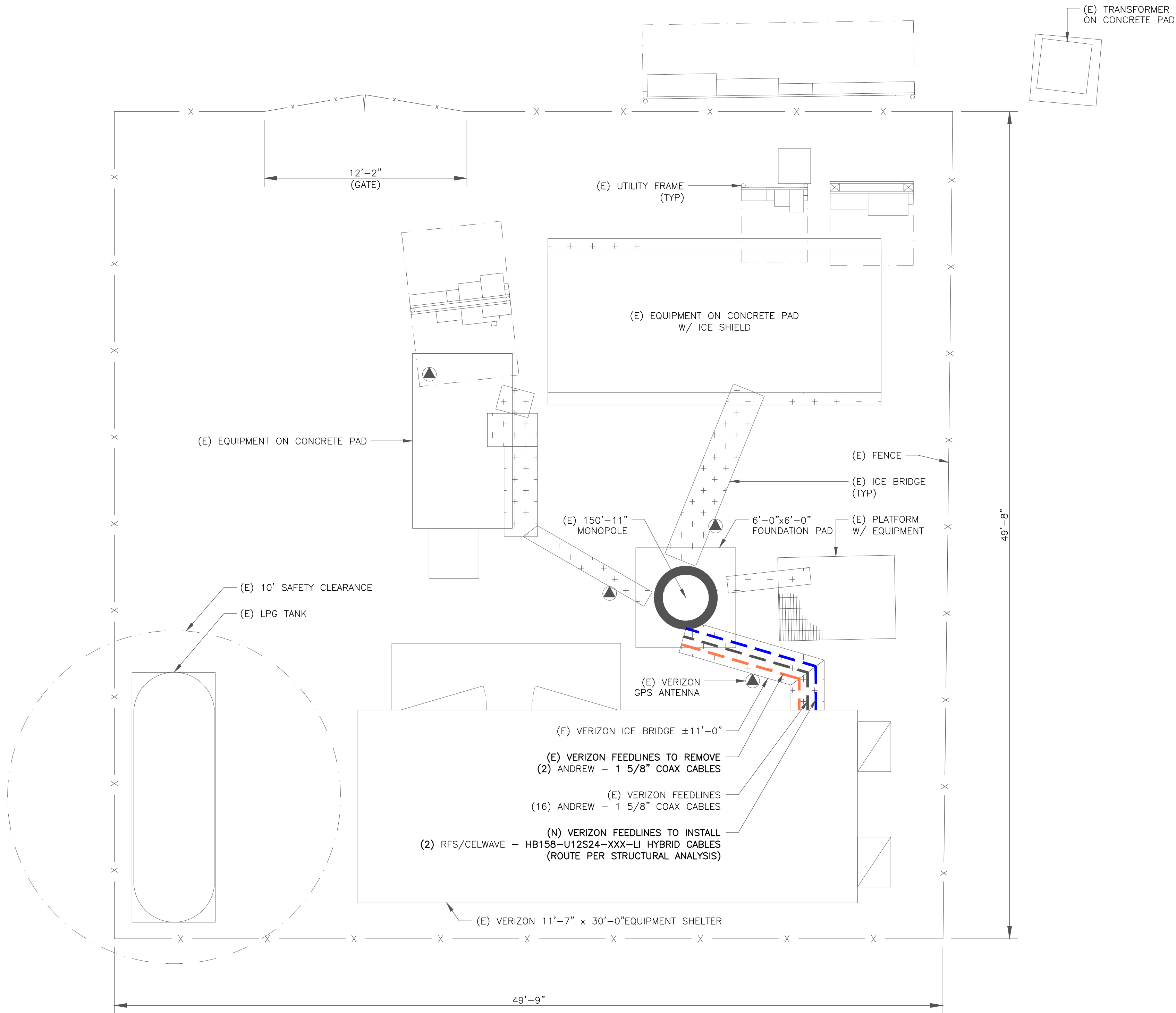
CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.000110
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UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

T-2

REVISION:

1



1 SITE PLAN
SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)



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CROWN
CASTLE

VERIZON SITE NUMBER:
5000381735

BU #: 876361

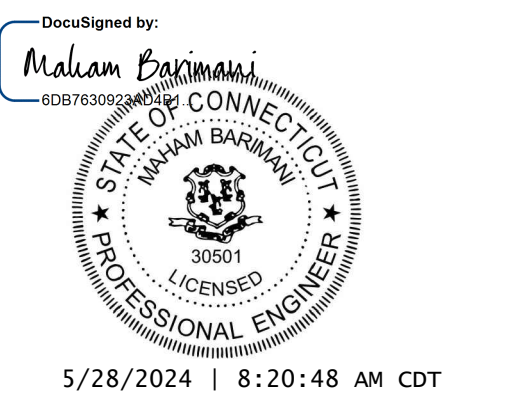
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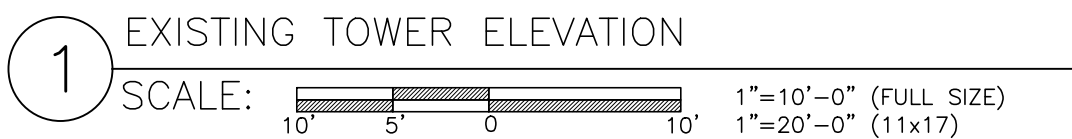
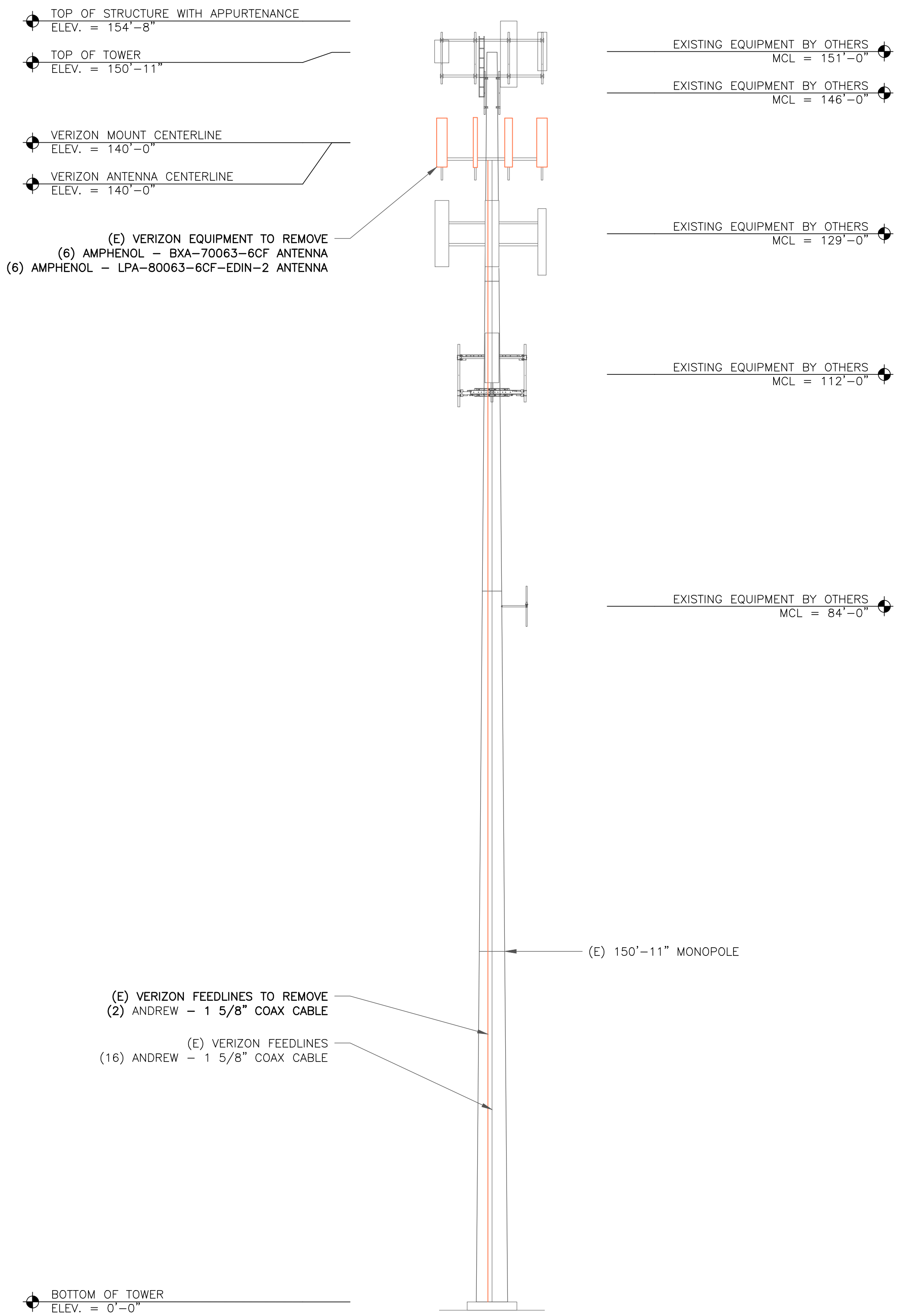
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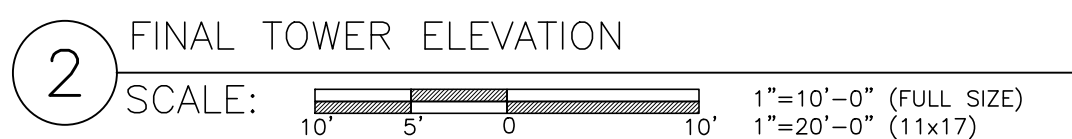
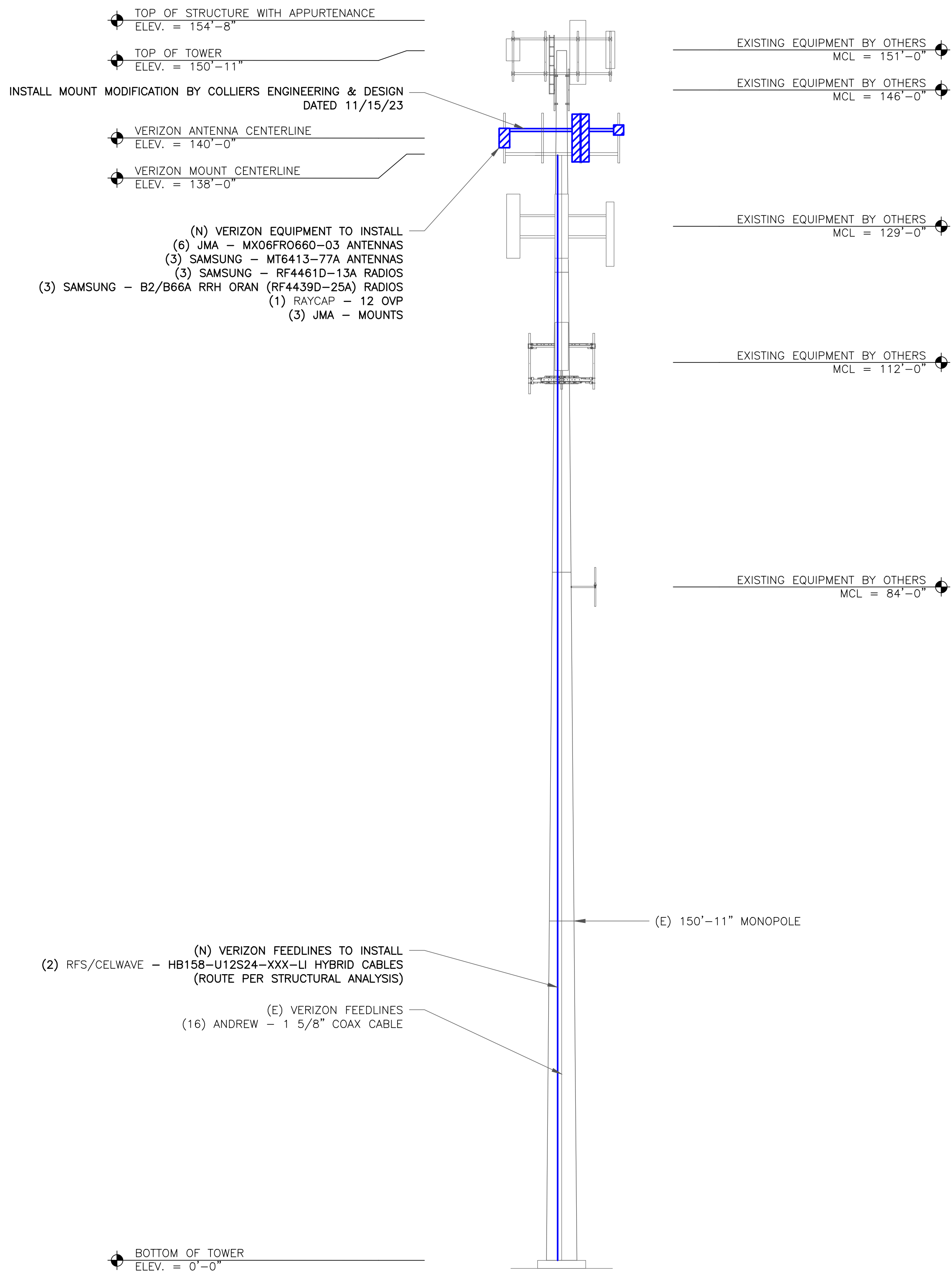
REVISION:

1

VERIZON_WBV_SOVA_TRIST_ANTENNA AMENDMENT



VERIZON EQUIPMENT
ANTENNA CL: 140'-0"
MOUNT CL: 138'-0"



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CASTLE

VERIZON SITE NUMBER:
5000381735

BU #: 876361

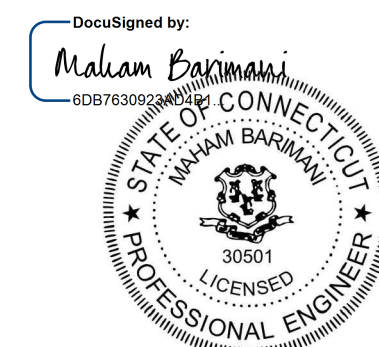
CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

20 GREAT OAK RD
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EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



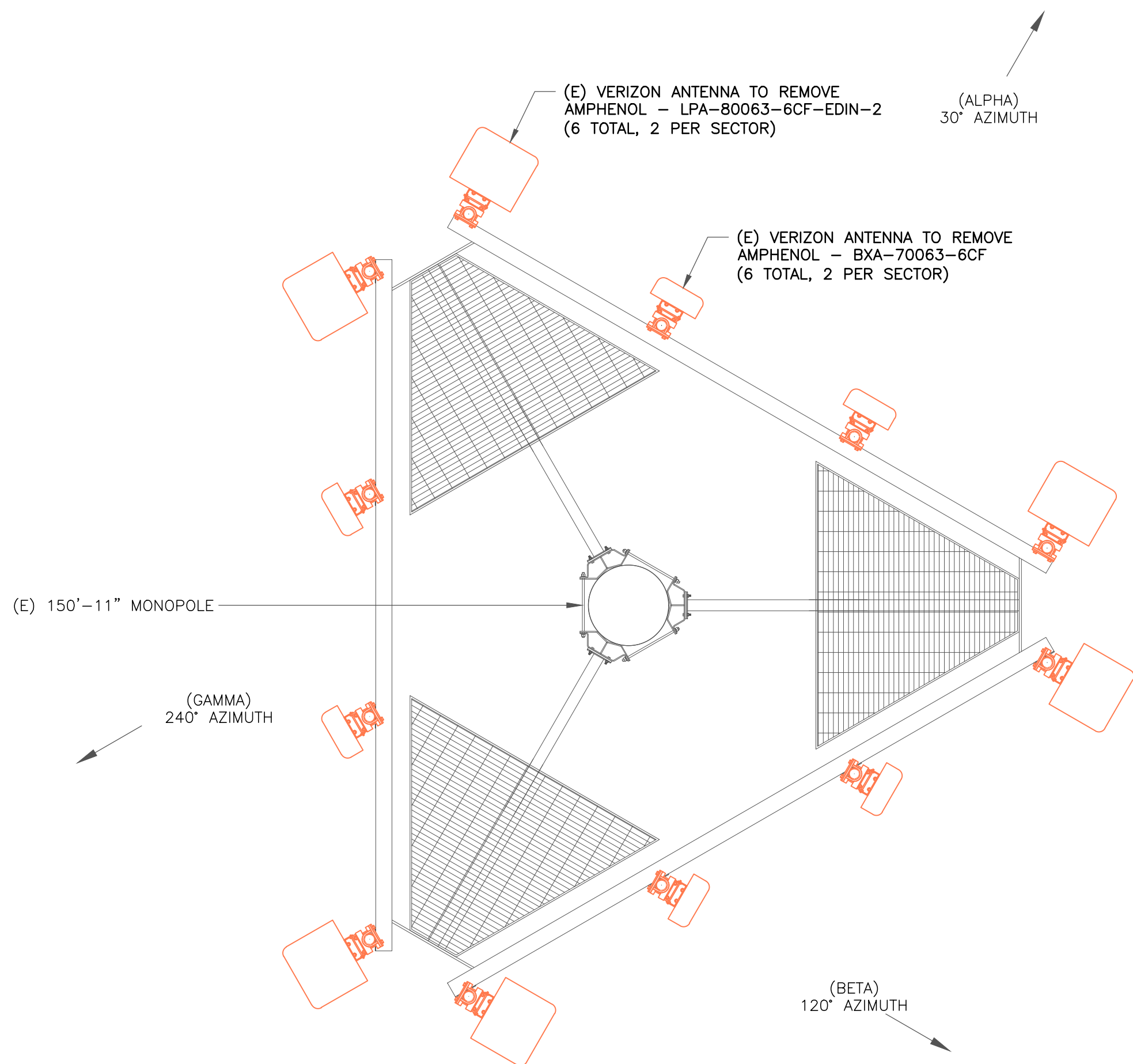
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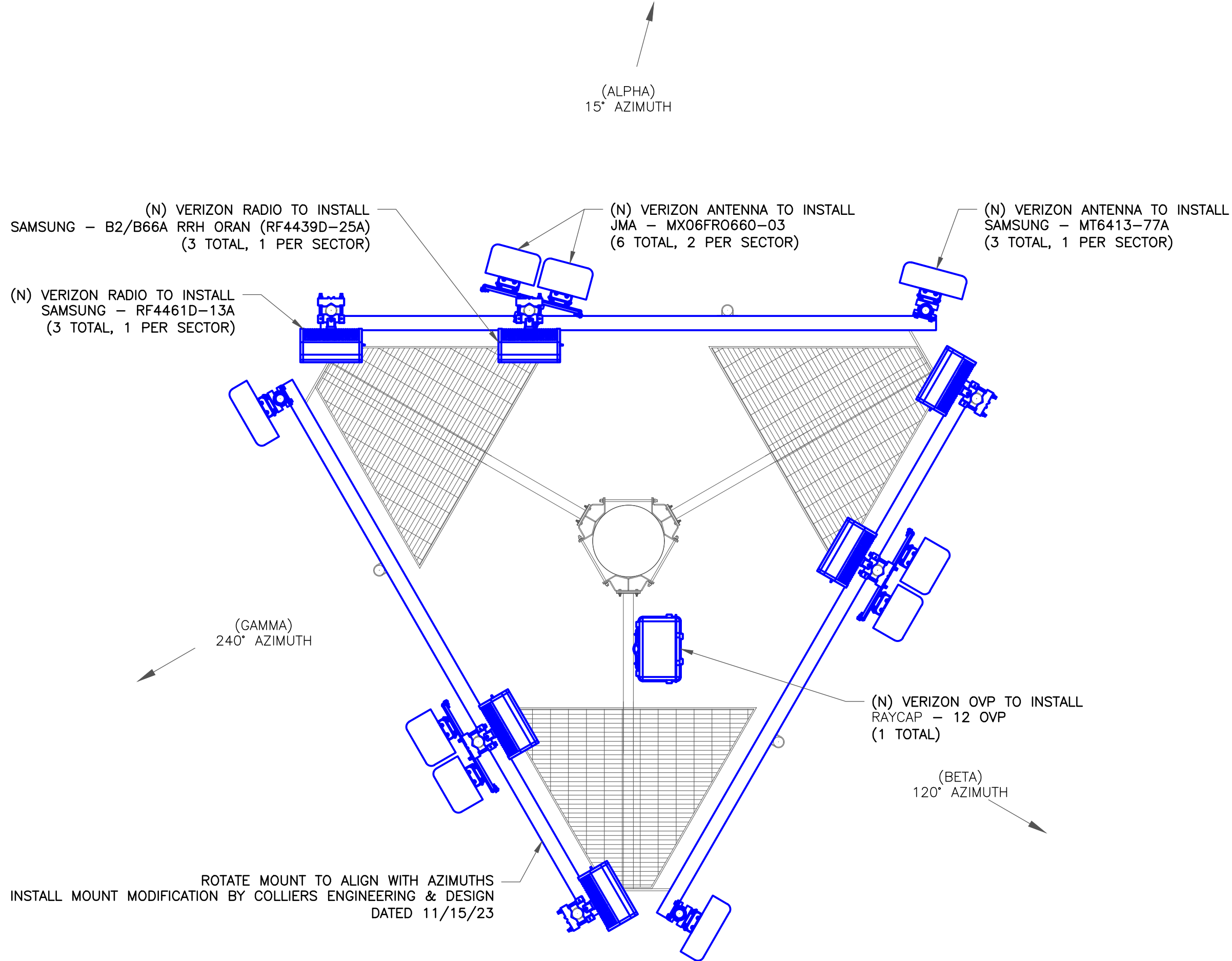
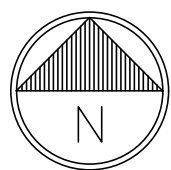
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REVISION:
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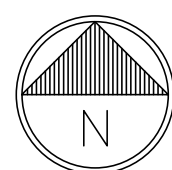
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1 EXISTING ANTENNA PLAN
SCALE: 1/2\"/>



2 FINAL ANTENNA PLAN
SCALE: 1/2\"/>



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CROWN
CASTLE

VERIZON SITE NUMBER:
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BU #: 876361

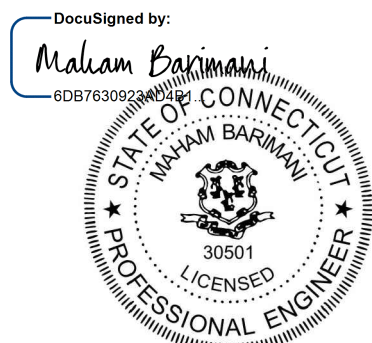
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ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
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C-3

REVISION:
1

FINAL EQUIPMENT SCHEDULE (VERIFY WITH CURRENT RFDS)																		
POSITION	ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES			
	TECH	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	700 850	—	—	—	1	(N) SAMSUNG — RF4461D—13A	TOWER	—	—	—	—	—	—	—	—	—	—	—
A2	1900	(N) JMA — MX06FRO660—03	15°	140'—0"	1	(N) SAMSUNG — B2/B66A RRH-ORAN (RF4439D—25A)	TOWER	—	—	—	—	—	1	(N) RAYCAP — 12 OVP	2	(N) HYBRID CABLE	1 5/8"	191' +/-
		(N) JMA — MX06FRO660—03	15°	140'—0"														
A4	—	(N) SAMSUNG — MT6413—77A	15°	140'—0"	—	—	—	—	—	—	—	—	—	—	—	—	—	—
B1	700 850	—	—	—	1	(N) SAMSUNG — RF4461D—13A	TOWER	—	—	—	—	—	—	—	—	—	—	—
B2	1900	(N) JMA — MX06FRO660—03	120°	140'—0"	1	(N) SAMSUNG — B2/B66A RRH-ORAN (RF4439D—25A)	TOWER	—	—	—	—	—	—	—	—	—	—	—
		(N) JMA — MX06FRO660—03	120°	140'—0"														
B4	—	(N) SAMSUNG — MT6413—77A	120°	140'—0"	—	—	—	—	—	—	—	—	—	—	—	—	—	—
G1	700 850	—	—	—	1	(N) SAMSUNG — RF4461D—13A	TOWER	—	—	—	—	—	—	—	—	—	—	—
G2	1900	(N) JMA — MX06FRO660—03	240°	140'—0"	1	(N) SAMSUNG — B2/B66A RRH-ORAN (RF4439D—25A)	TOWER	—	—	—	—	—	—	—	—	—	—	—
		(N) JMA — MX06FRO660—03	240°	140'—0"														
G4	—	(N) SAMSUNG — MT6413—77A	240°	140'—0"	—	—	—	—	—	—	—	—	—	—	—	—	—	—

UNUSED FEEDLINES			
16	COAX CABLES	1 5/8"	—
—	—	—	—

1

FINAL EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE



VERIZON SITE NUMBER:
5000381735

BU #: 876361

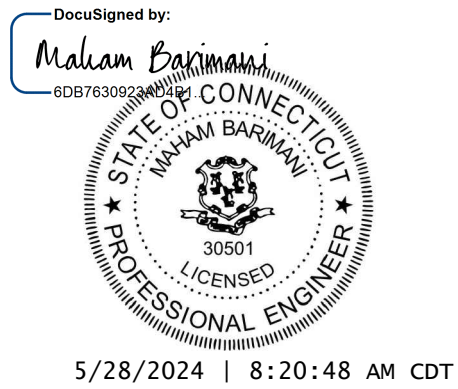
CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



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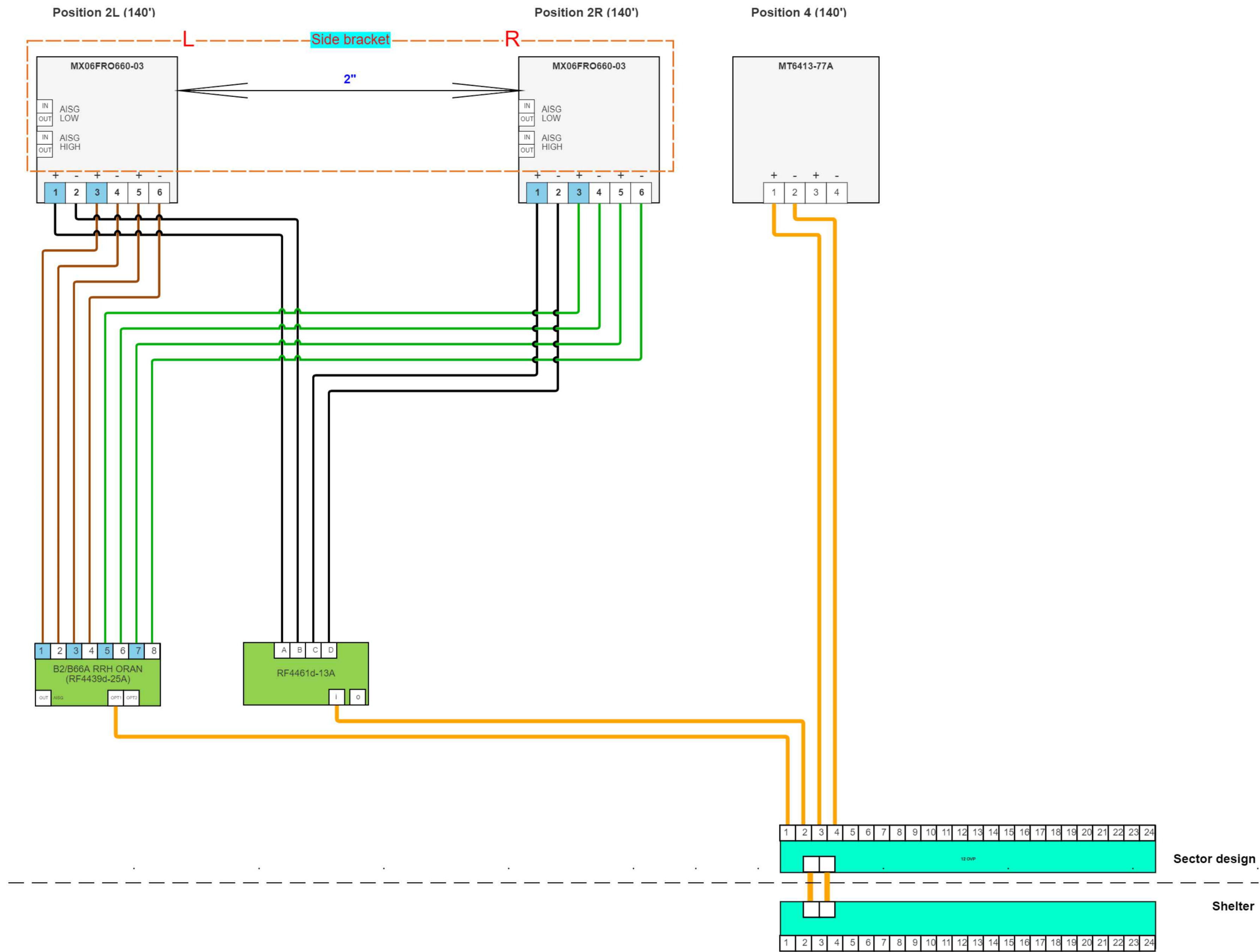
SHEET NUMBER:

C-4

REVISION:

1

VERIZON_WBV_SOVA_TRIST_ ANTENNA AMENDMENT



Alpha
(Proposed)

Legends

RET dc signal capable port

700/850(LB)

700(LT)

850(CB)

AWS(AW)

PCS(PC)

AWS/PCS(HB)

28GHz(U28)

39GHz(U39)

L-Sub6(S6)

CBRS(RS)

LAA(LA)

Fiber

AISG

DC

Coax

Coax Jumper

Sectors Shared Equipments

Notes:

-Antenna view is from the back of the antennas

-Colors of connections are just for clarification

-Size of objects in drawing doesn't reflect equipment true dimensions



VERIZON SITE NUMBER:
5000381735

BU #: 876361

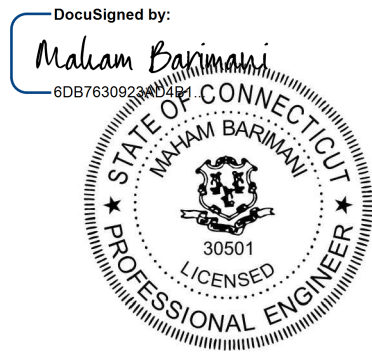
CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



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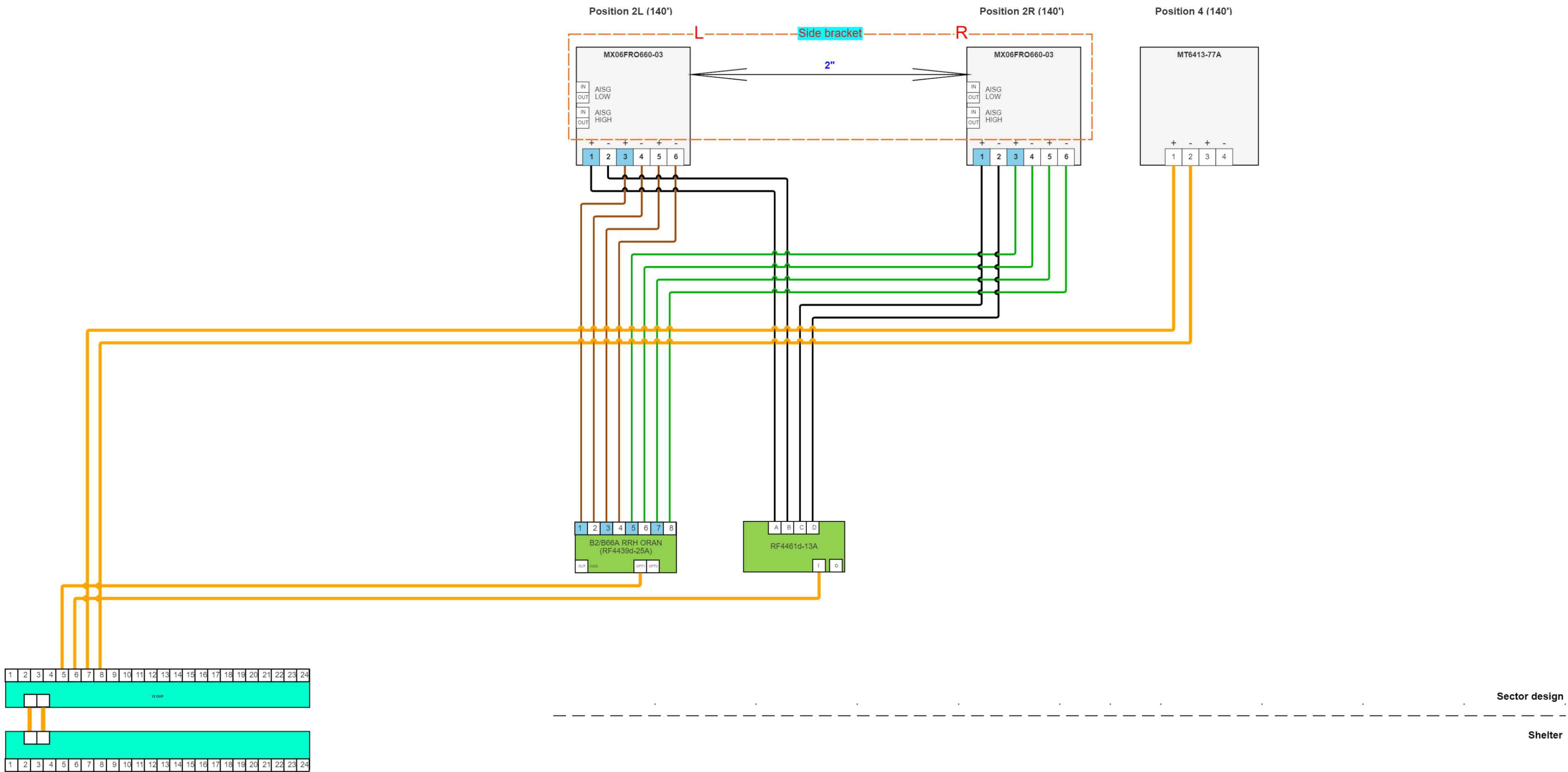
SHEET NUMBER:

C-5.1

REVISION:

1

VERIZON_WBV_SOVA_TRIST_ANTENNA_AMENDMENT



Beta
(Proposed)



VERIZON SITE NUMBER:
5000381735

BU #: 876361

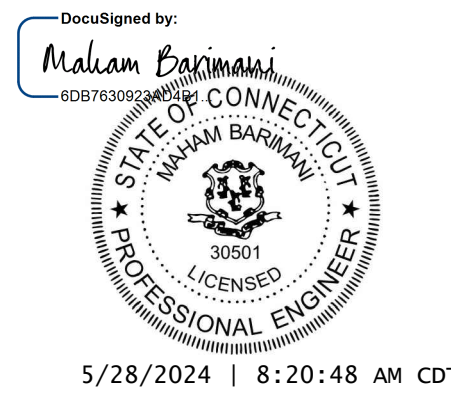
CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



5/28/2024 | 8:20:48 AM CDT

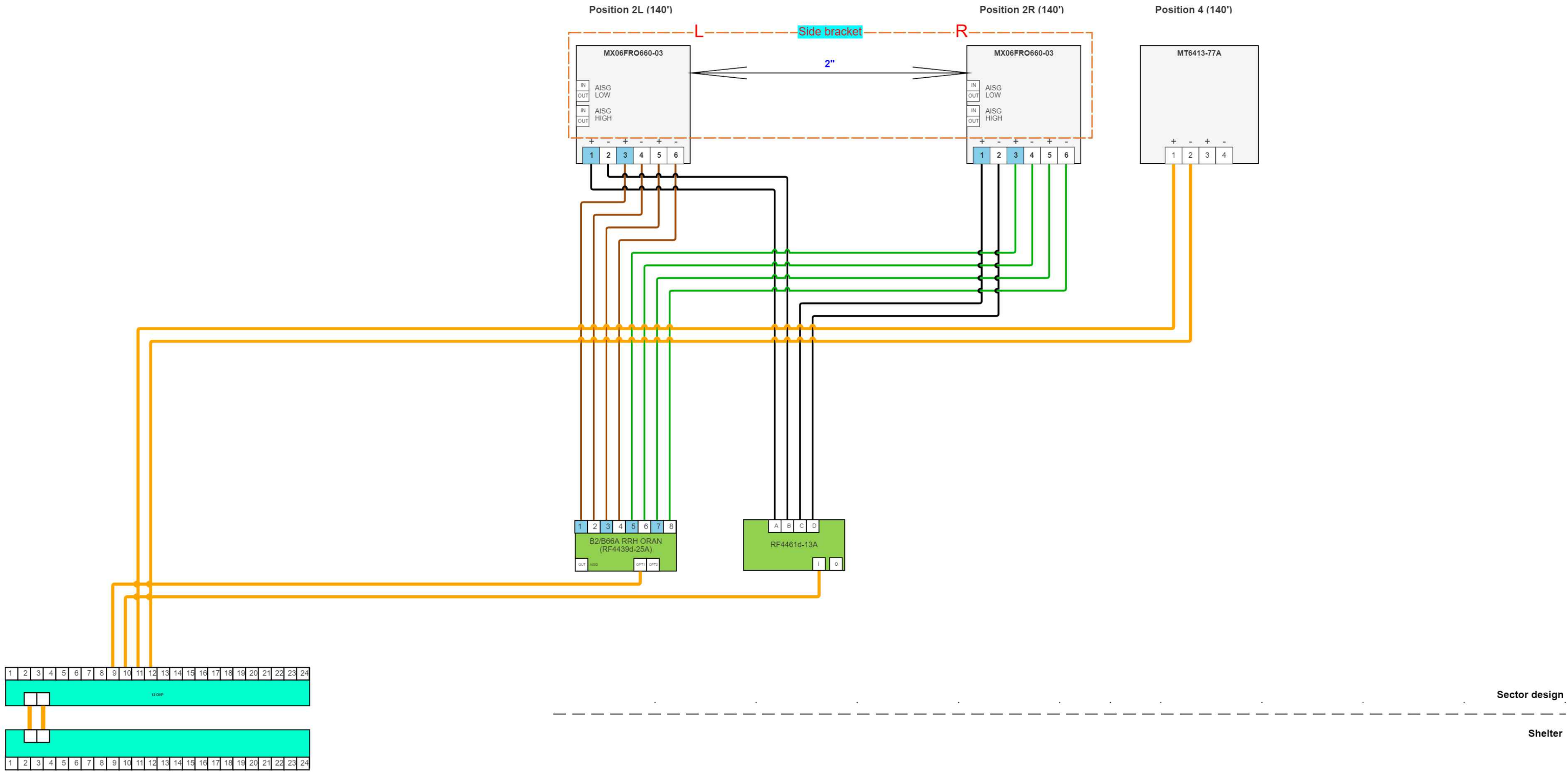
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SHEET NUMBER:

C-5.2

REVISION:

1



Gamma
(Proposed)

Legends

RET dc signal capable port

700/850(LB)

700(LT)

850(CB)

AWS(AW)

PCS(PC)

AWS/PCS(HB)

28GHz(U28)

39GHz(U39)

L-Sub6(S6)

CBRS(RS)

LAA(LA)

Fiber

AISG

DC

CoaxCoax JumperSectors Shared Equipments

Notes:

-Antenna view is from the back of the antennas

-Colors of connections are just for clarification

-Size of objects in drawing doesn't reflect equipment true dimensions



VERIZON SITE NUMBER:
5000381735

BU #: **876361**

CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD TOWN GARAGE

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB

DocuSigned by:
Maham Barmani
6D8763023

5/28/2024 | 8:20:48 AM CDT

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SHEET NUMBER:
C-5.3

REVISION:
1



VERIZON SITE NUMBER:
5000381735

BU #: 876361

CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

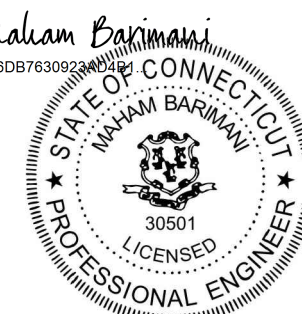
20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB

DocuSigned by:



5/28/2024 | 8:20:48 AM CDT

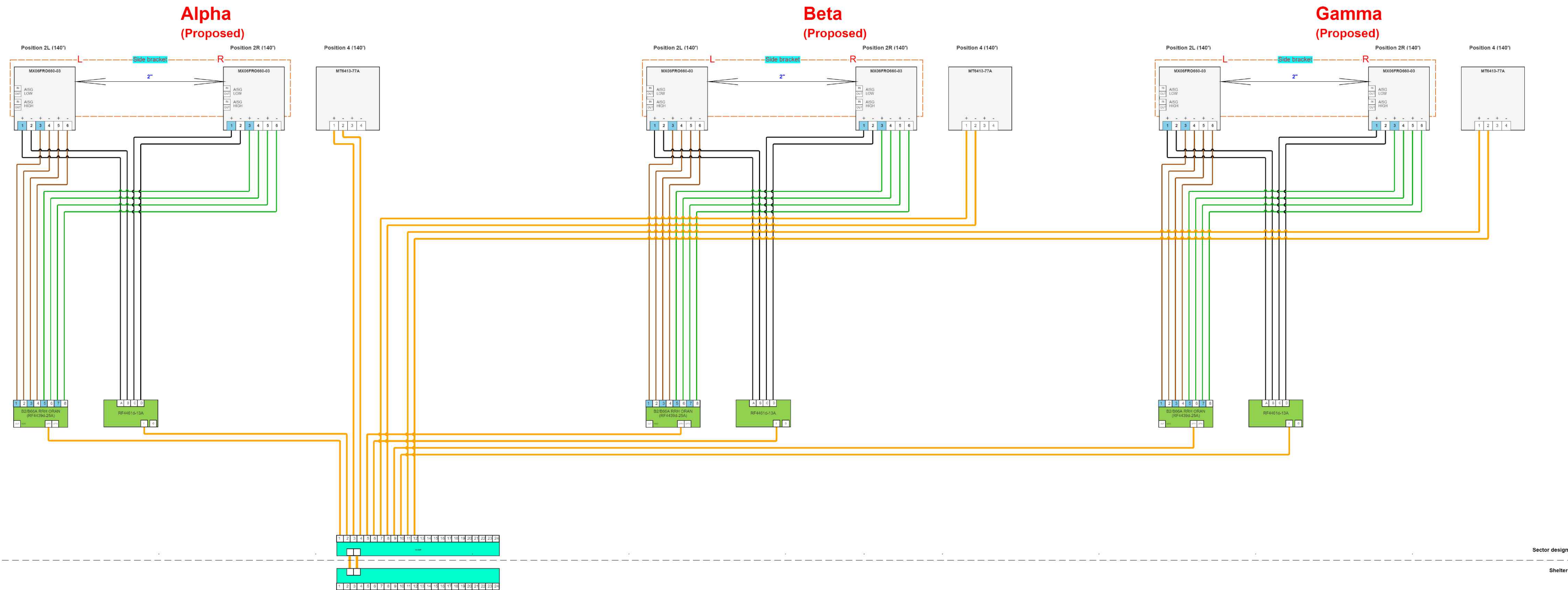
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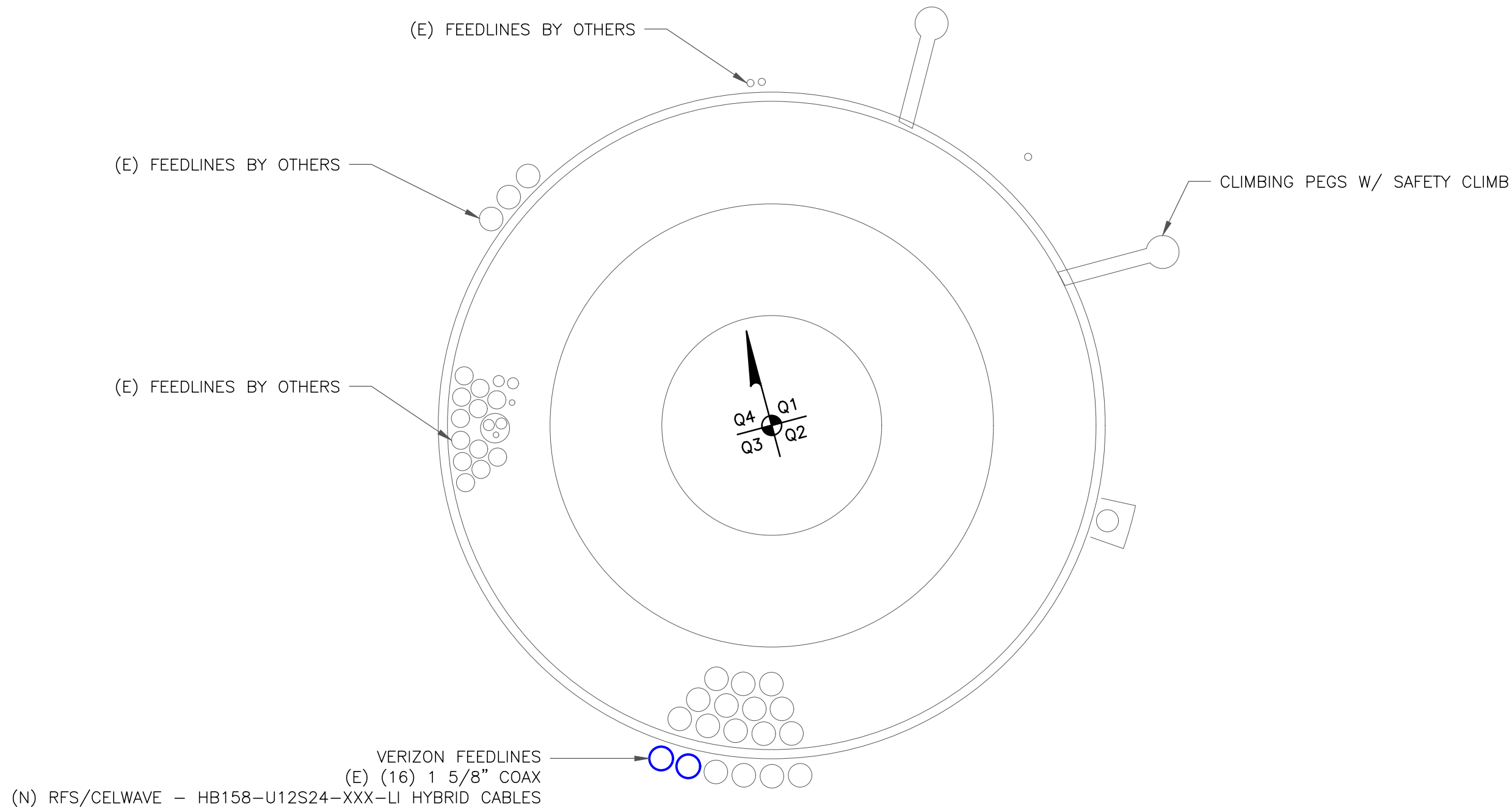
SHEET NUMBER:

C-5.4

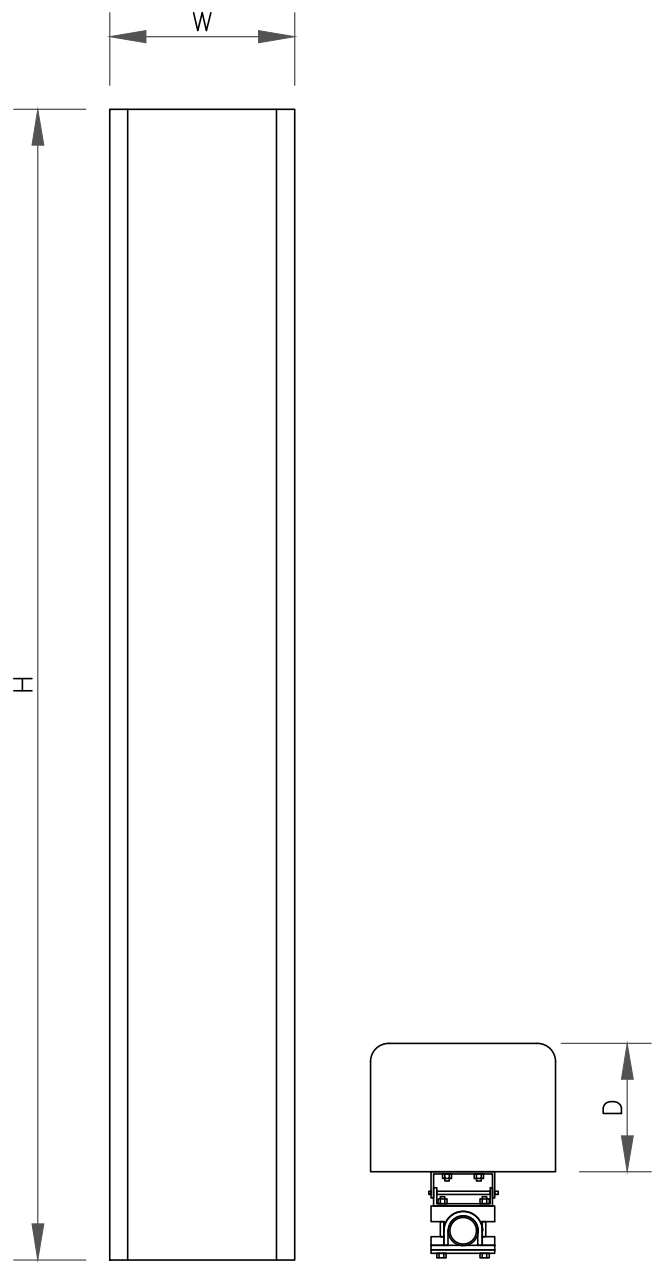
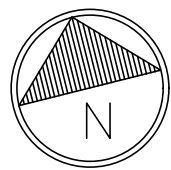
REVISION:

1





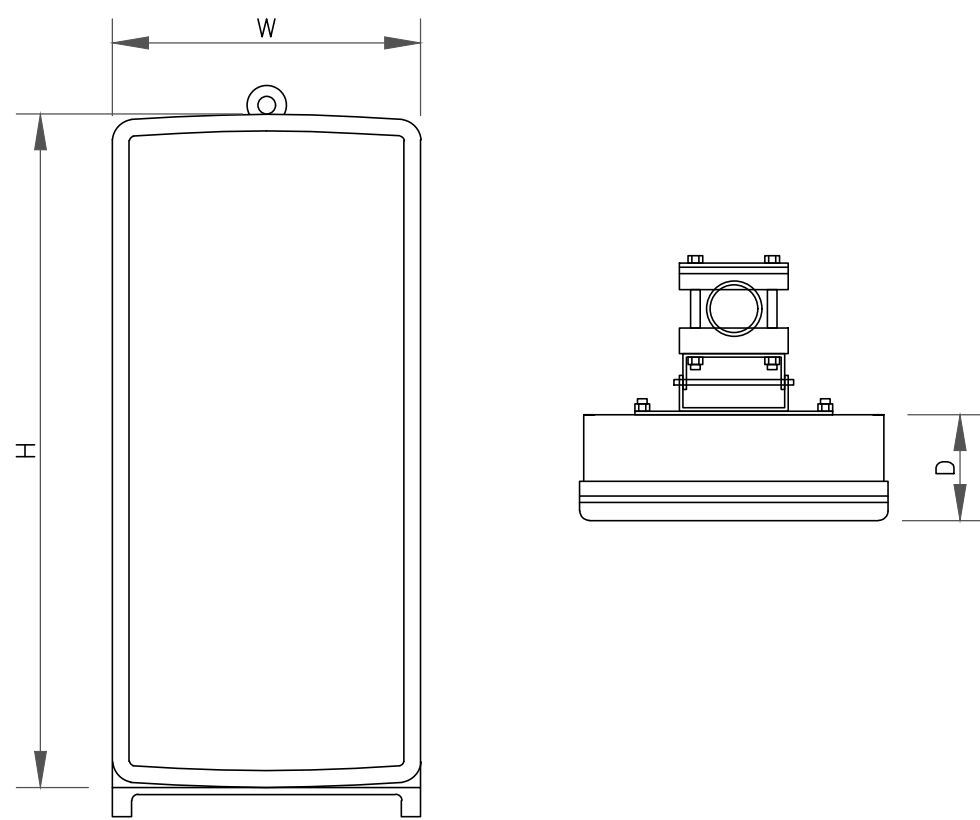
1 BASE LEVEL DETAIL
SCALE: NOT TO SCALE



ANTENNA SPECS

MANUFACTURER	JMA WIRELESS
MODEL #	MX06FRO660-03
HxWxD	71.3" x 15.4" x 10.7"
WEIGHT	78 LBS

3 JMA WIRELESS - MX06FRO660-03
SCALE: NOT TO SCALE



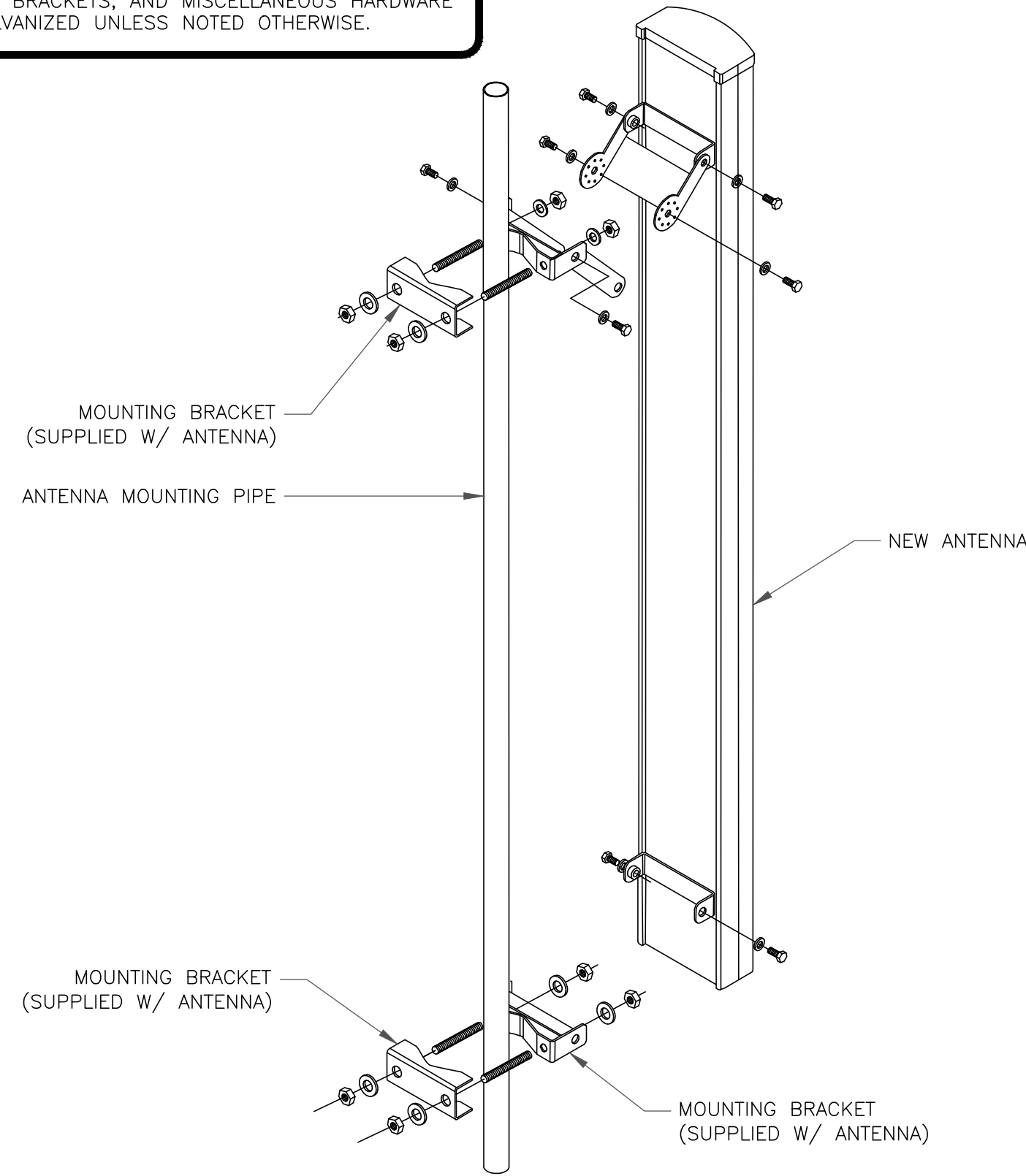
ANTENNA SPECS

MANUFACTURER	SAMSUNG
MODEL #	MT6413-77A
HxWxD	28.9" x 15.75" x 5.51"
WEIGHT	57.3 LBS

4 SAMSUNG - MT6413-77A
SCALE: NOT TO SCALE

INSTALLER NOTE:

1. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



2 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

verizon

CROWN
CASTLE

VERIZON SITE NUMBER:
5000381735

BU #: **876361**

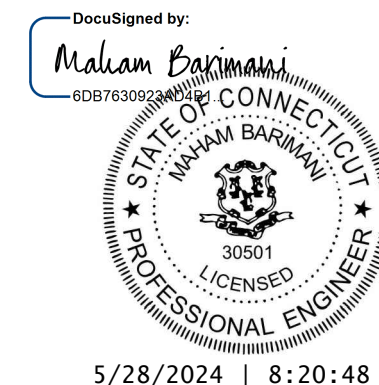
CROWN CASTLE SITE NAME
**SEYMOUR 2 / OXFORD
TOWN GARAGE**

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



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SHEET NUMBER:

C-6

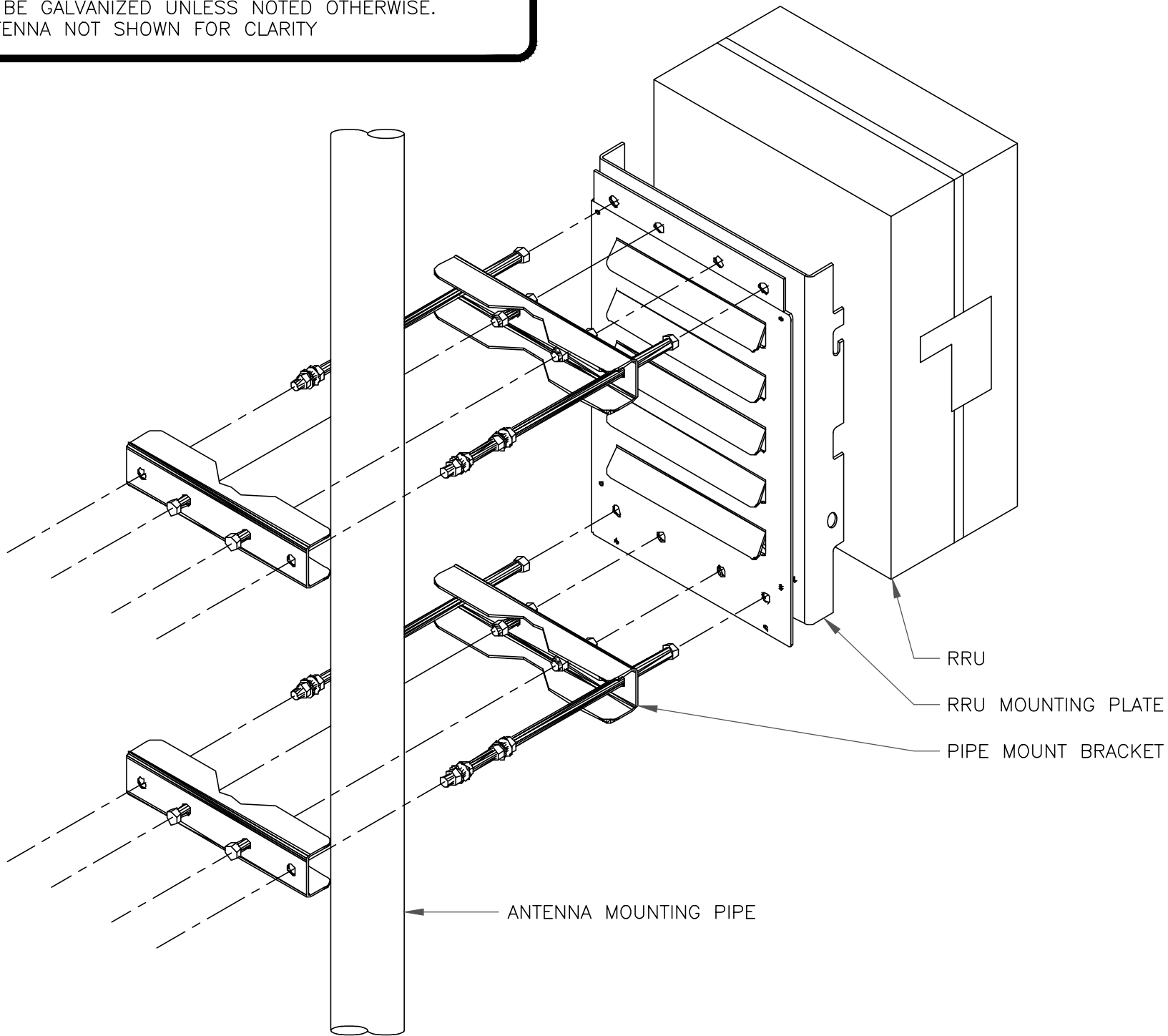
REVISION:

1

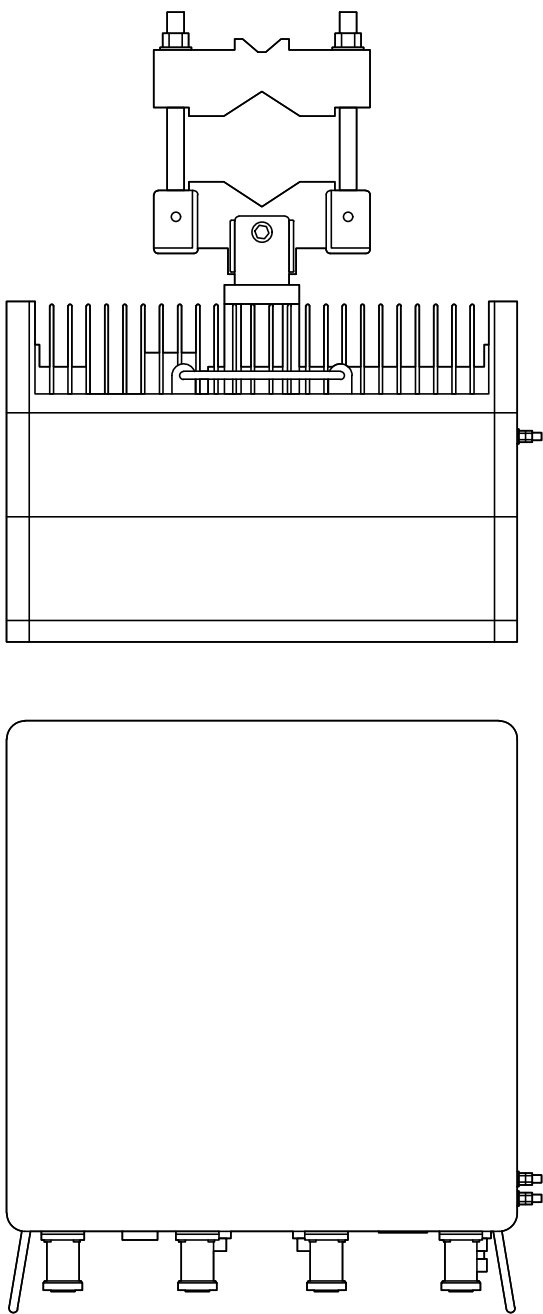
5 NOT USED
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRU's RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRU PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
4. ANTENNA NOT SHOWN FOR CLARITY

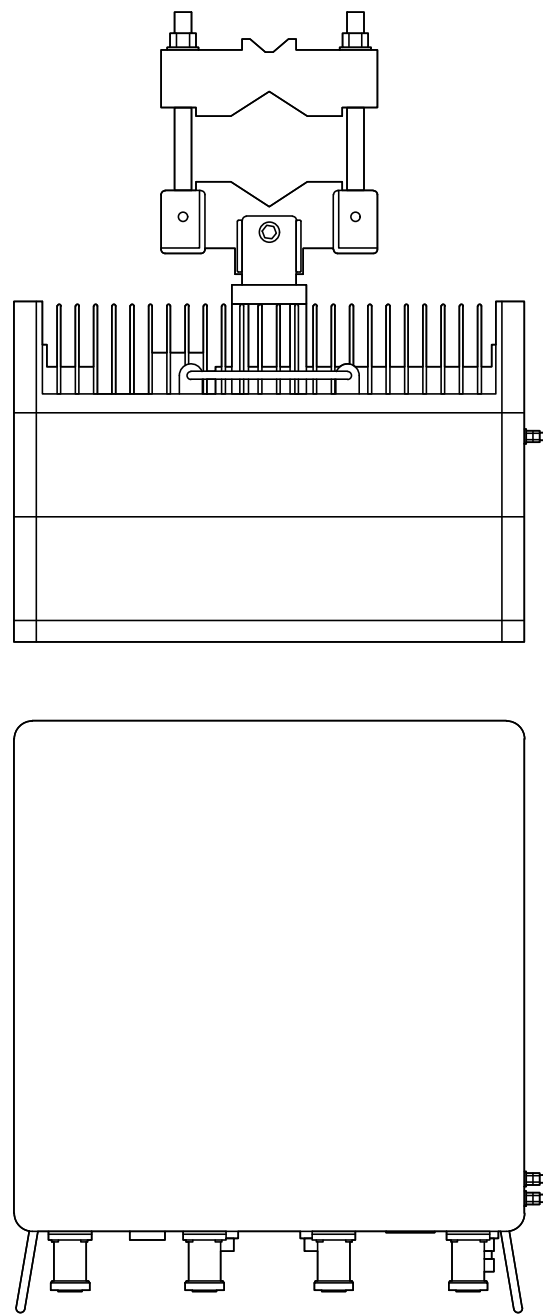


1 RRU MOUNTING DETAIL
SCALE: NOT TO SCALE



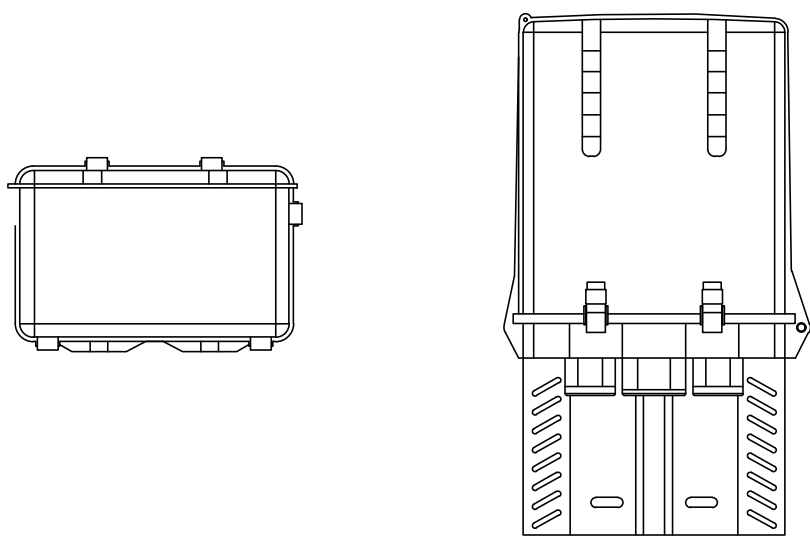
RADIO SPECS	
MANUFACTURER	SAMSUNG
MODEL #	RF4439D-25A
HxWxD	14.96" x 14.96" x 10.04"
WEIGHT	74.7 LBS

2 SAMSUNG — RF4439D-25A
SCALE: NOT TO SCALE



RADIO SPECS	
MANUFACTURER	SAMSUNG
MODEL #	RF4461D-13A
HxWxD	14.96" x 14.96" x 10.23"
WEIGHT	79.1 LBS

3 SAMSUNG — RF4461D-13A
SCALE: NOT TO SCALE



RAYCAP — RCMDC-6627-PF-48
WEIGHT (WITHOUT MOUNTING HARDWARE): 32.0 LBS
SIZE (HxWxD): 28.9x15.7x10.3 IN.

RATED WIND VELOCITY: 150 MPH (SUSTAINED)
OPERATING TEMPERATURE: -40° C TO +80° C
NOMINAL OPERATING DC VOLTAGE: 48 VDC

4 RAYCAP — RCMDC-6627-PF-48
SCALE: NOT TO SCALE

verizon

CROWN
CASTLE

VERIZON SITE NUMBER:
5000381735

BU #: 876361

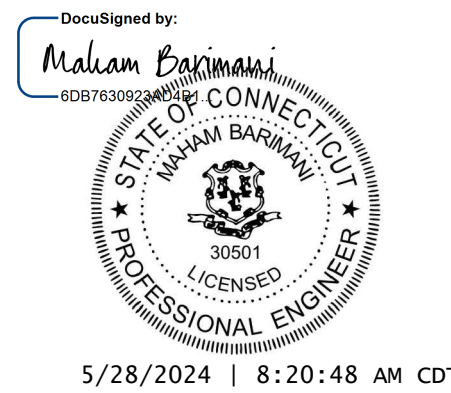
CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



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SHEET NUMBER:

C-6.1

REVISION:

1

Azimuth (1) Alpha					
Cell (850 CDMA)	Red				
PCS2 (1900 LTE)	Pink	Red	Pink		
700 LTE	Lt. Green	Red	Lt. Green		
850 LTE	Purple	Red	Purple		
2100 LTE	Orange	Red	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Red	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Red	Lt. Green	Purple
5G 28GHz	Brown	Red	Brown		
5G 39GHz	Blue	Red	Blue		
LAA	Gray	Red	Gray		
CBRS	White	Red	White		
L-Sub6 (C-Band)	Red	Red	Red		

Azimuth (2) Beta					
Cell (850 CDMA)	Blue				
PCS2 (1900 LTE)	Pink	Blue	Pink		
700 LTE	Lt. Green	Blue	Lt. Green		
850 LTE	Purple	Blue	Purple		
2100 LTE	Orange	Blue	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Blue	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Blue	Lt. Green	Purple
5G 28GHz	Brown	Blue	Brown		
5G 39GHz	Blue	Blue	Blue		
LAA	Gray	Blue	Gray		
CBRS	White	Blue	White		
L-Sub6 (C-Band)	Red	Blue	Red		

Azimuth (3) Gamma					
Cell (850 CDMA)	Yellow				
PCS2 (1900 LTE)	Pink	Yellow	Pink		
700 LTE	Lt. Green	Yellow	Lt. Green		
850 LTE	Purple	Yellow	Purple		
2100 LTE	Orange	Yellow	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Yellow	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Yellow	Lt. Green	Purple
5G 28GHz	Brown	Yellow	Brown		
5G 39GHz	Blue	Yellow	Blue		
LAA	Gray	Yellow	Gray		
CBRS	White	Yellow	White		
L-Sub6 (C-Band)	Red	Yellow	Red		

Azimuth (4) Delta					
Cell (850 CDMA)	Orange				
PCS2 (1900 LTE)	Pink	Orange	Pink		
700 LTE	Lt. Green	Orange	Lt. Green		
850 LTE	Purple	Orange	Purple		
2100 LTE	Orange	Orange	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Orange	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Orange	Lt. Green	Purple
5G 28GHz	Brown	Orange	Brown		
5G 39GHz	Blue	Orange	Blue		
LAA	Gray	Orange	Gray		
CBRS	White	Orange	White		
L-Sub6 (C-Band)	Red	Orange	Red		

Azimuth (5) Epsilon					
Cell (850 CDMA)	White				
PCS2 (1900 LTE)	Pink	White	Pink		
700 LTE	Lt. Green	White	Lt. Green		
850 LTE	Purple	White	Purple		
2100 LTE	Orange	White	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	White	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	White	Lt. Green	Purple
5G 28GHz	Brown	White	Brown		
5G 39GHz	Blue	White	Blue		
LAA	Gray	White	Gray		
CBRS	White	White	White		
L-Sub6 (C-Band)	Red	White	Red		

Azimuth (6) Zeta					
Cell (850 CDMA)	Gray				
PCS2 (1900 LTE)	Pink	Gray	Pink		
700 LTE	Lt. Green	Gray	Lt. Green		
850 LTE	Purple	Gray	Purple		
2100 LTE	Orange	Gray	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Gray	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Gray	Lt. Green	Purple
5G 28GHz	Brown	Gray	Brown		
5G 39GHz	Blue	Gray	Blue		
LAA	Gray	Gray	Gray		
CBRS	White	Gray	White		
L-Sub6 (C-Band)	Red	Gray	Red		



VERIZON SITE NUMBER:
5000381735

BU #: 876361

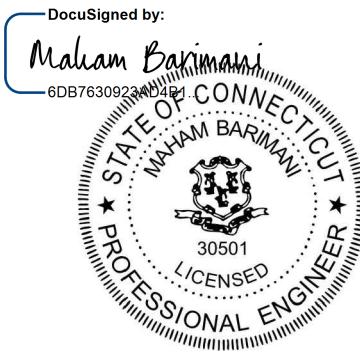
CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



5/28/2024 | 8:20:48 AM CDT

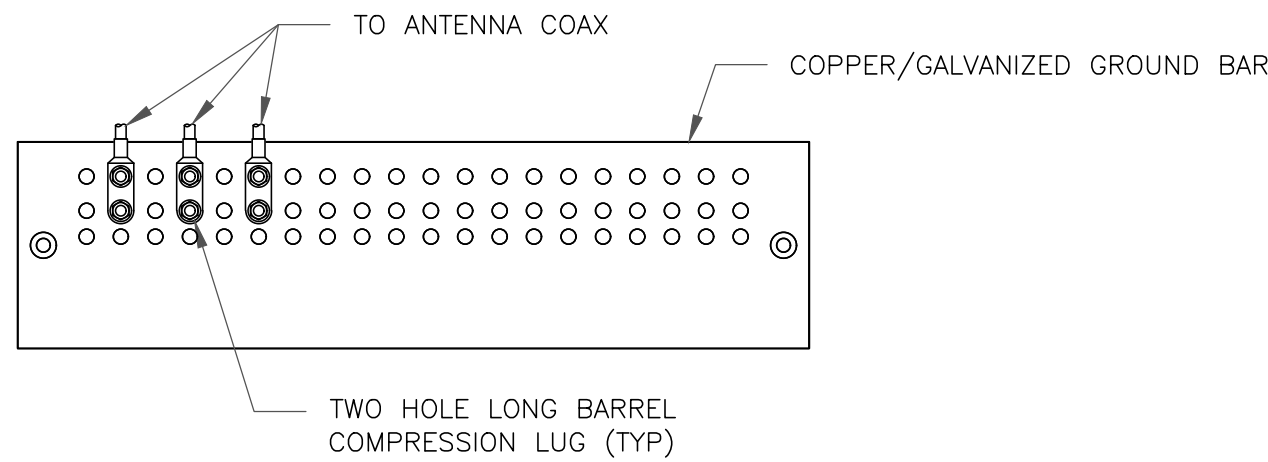
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SHEET NUMBER:

C-7

REVISION:

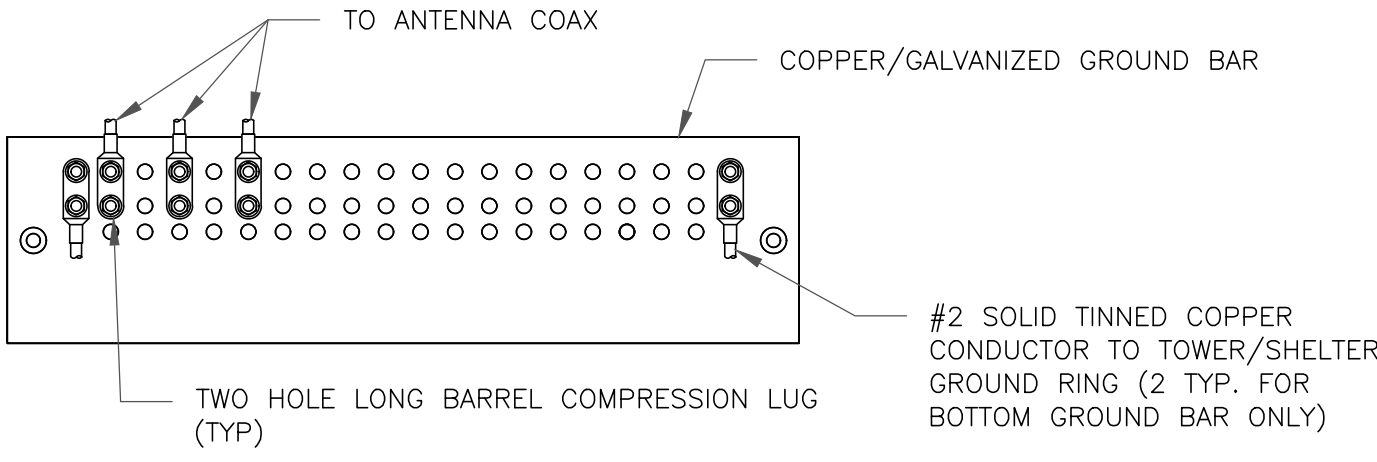
1



NOTES:

- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

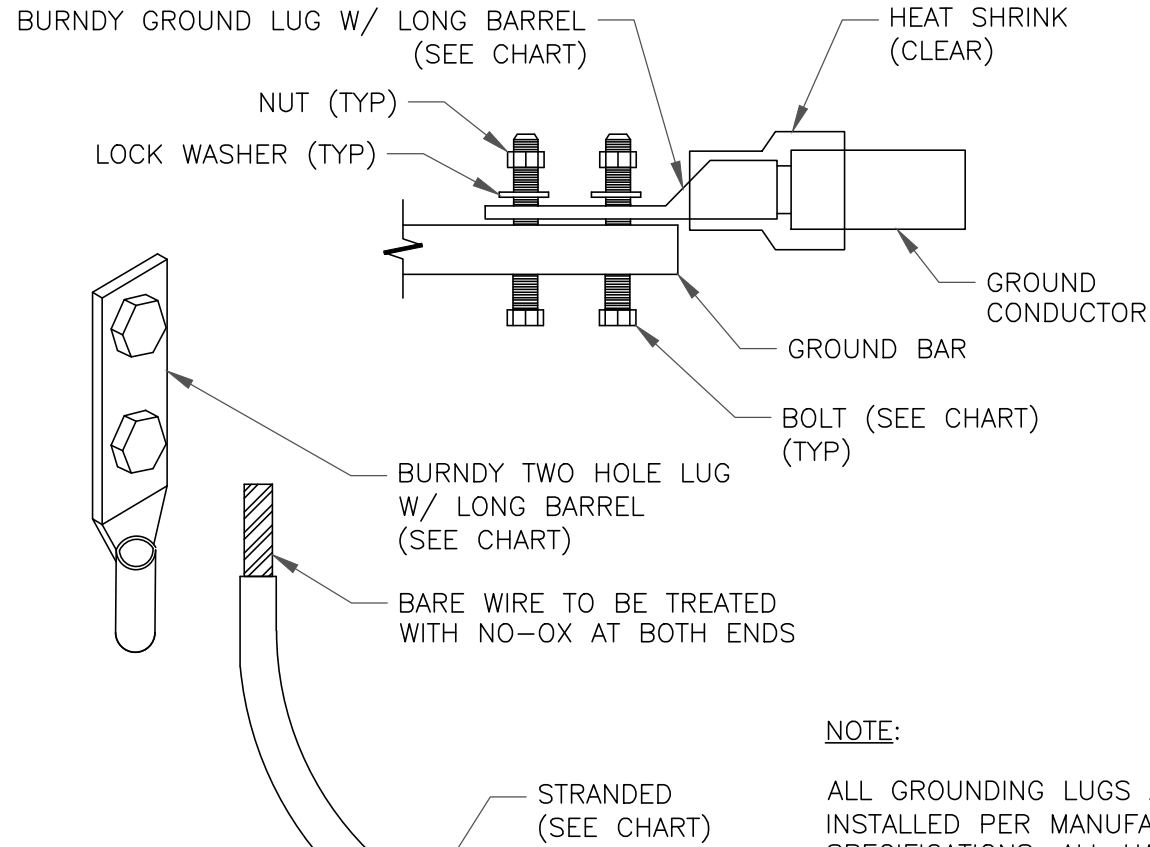


NOTES:

- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

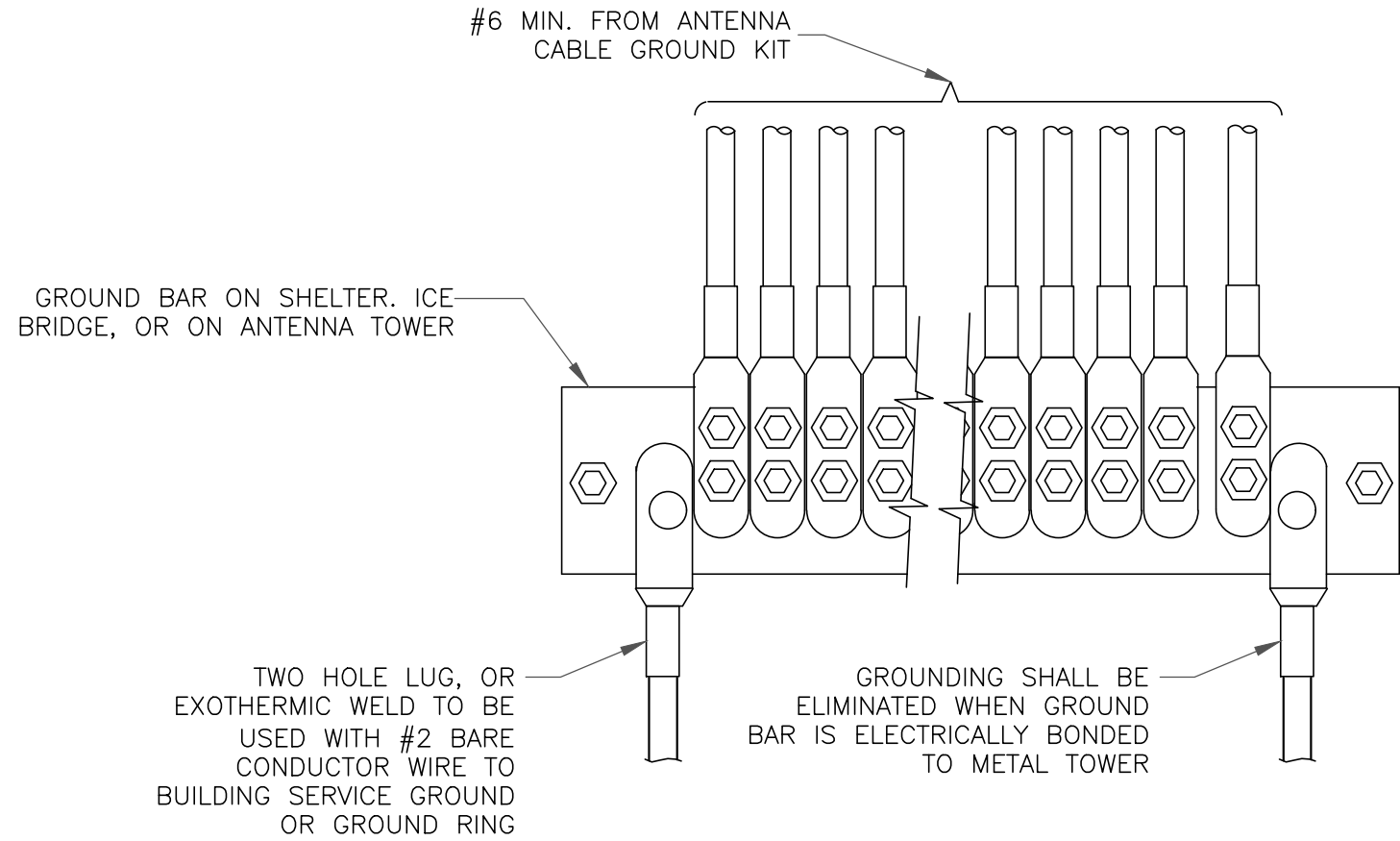
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



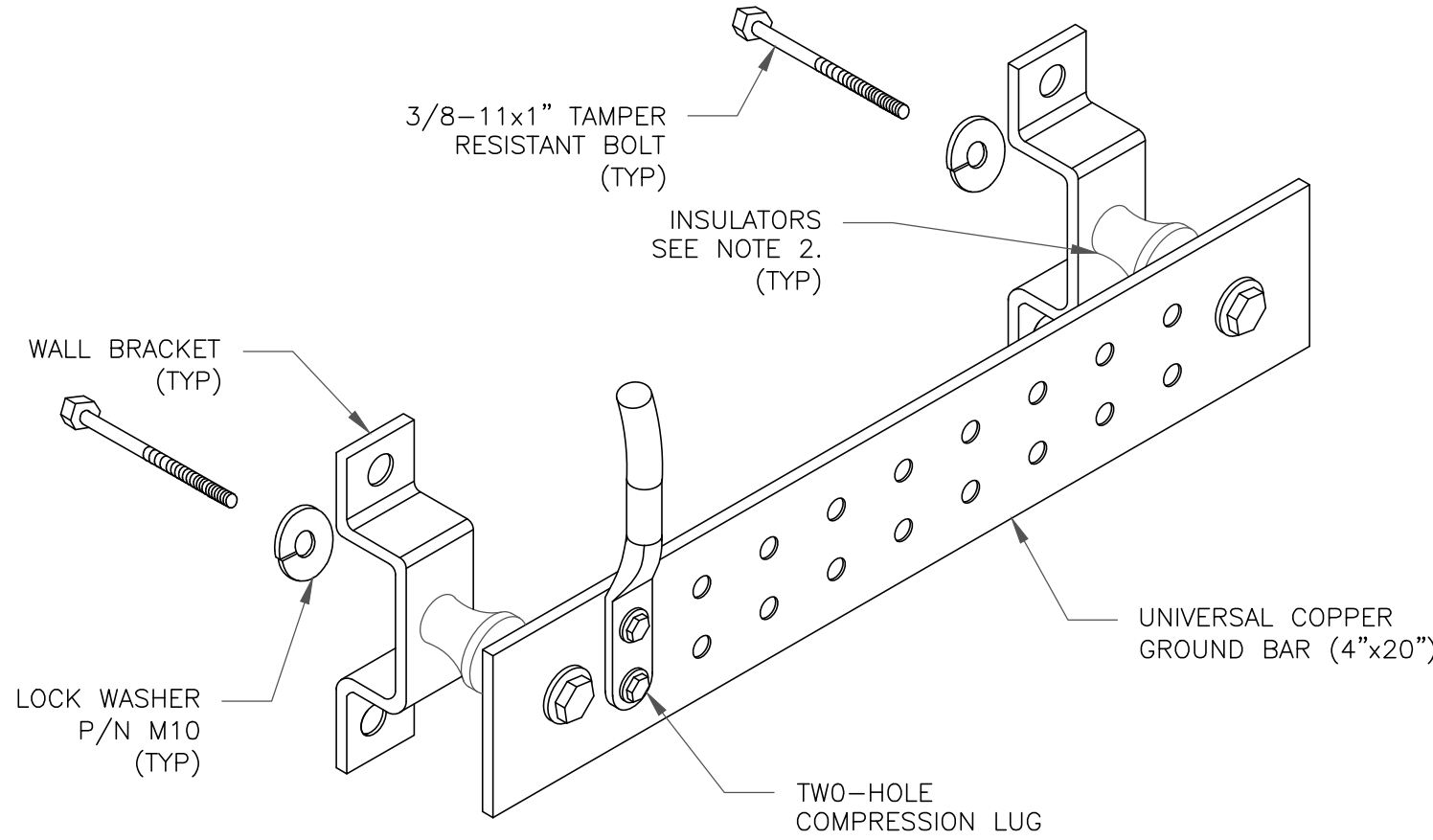
NOTE:

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



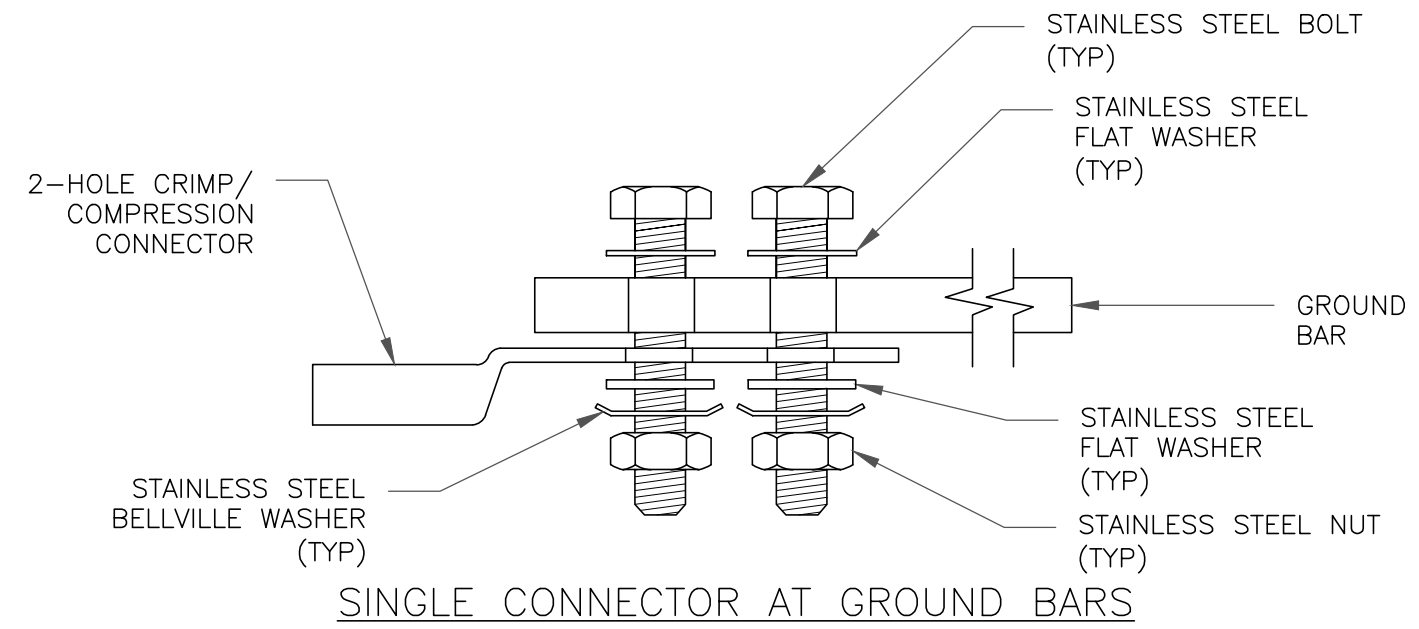
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



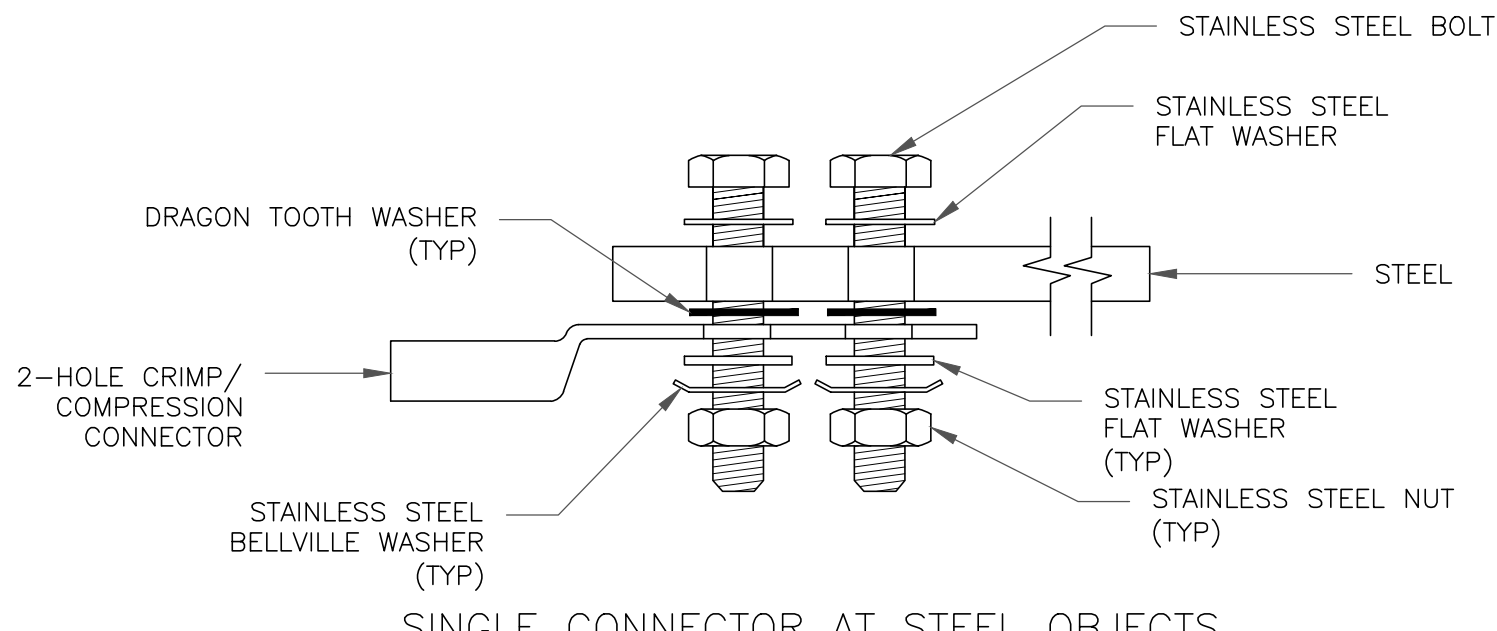
NOTES:

- DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
- OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

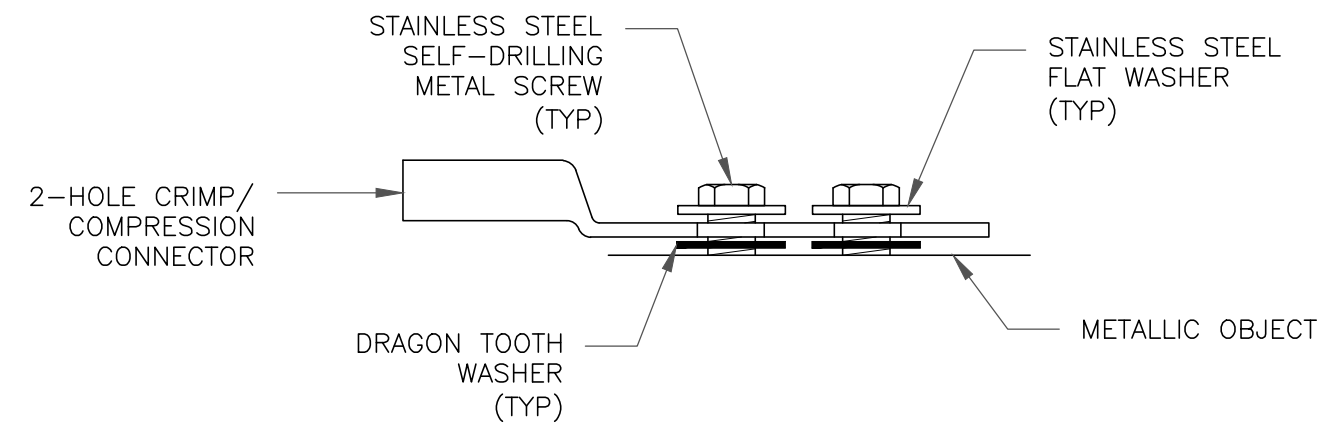
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



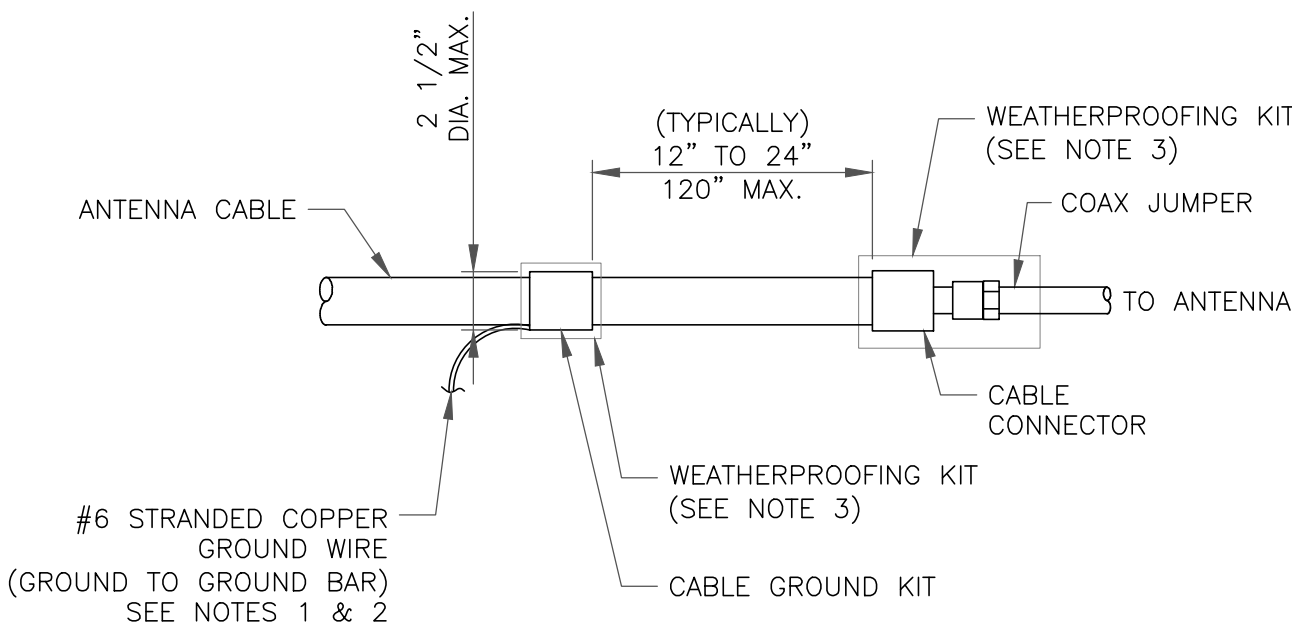
SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



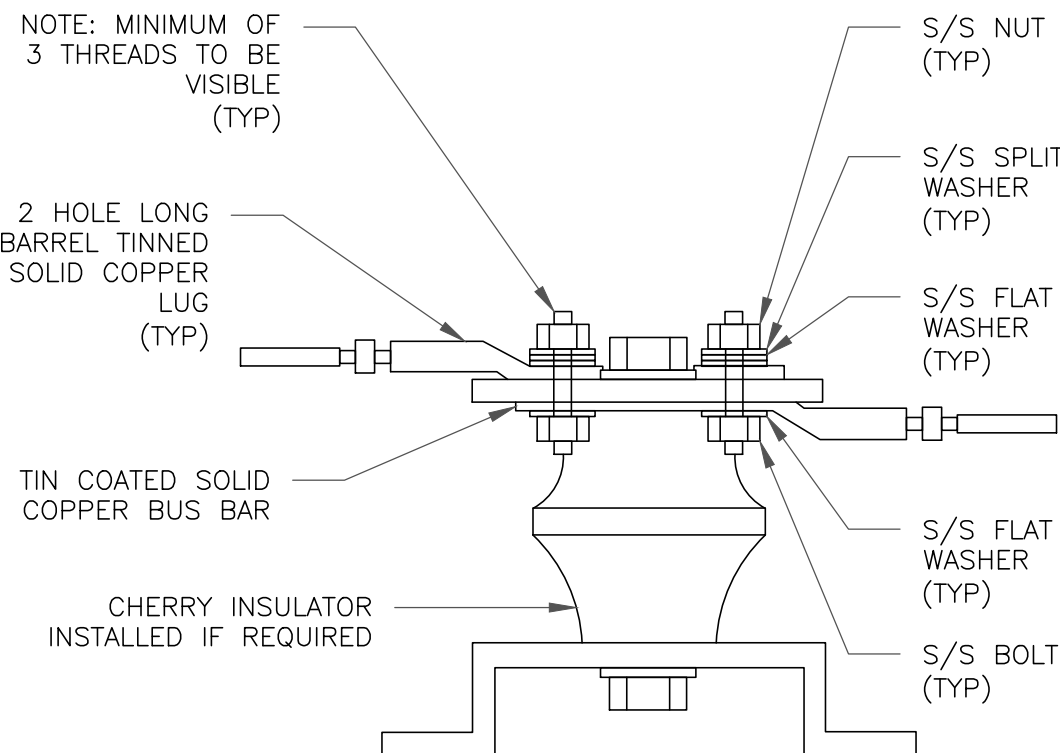
SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS



NOTES:

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

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE

verizon

CROWN CASTLE

VERIZON SITE NUMBER:
5000381735

BU #: 876361

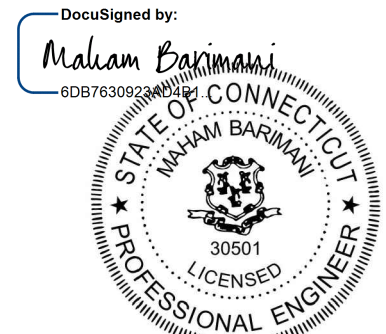
CROWN CASTLE SITE NAME
SEYMOUR 2 / OXFORD
TOWN GARAGE

20 GREAT OAK RD
OXFORD, CT 06478

EXISTING 150'-11"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	3/1/24	MDW	CONSTRUCTION	MB
1	5/24/24	MDW	CONSTRUCTION	MB



5/28/2024 | 8:20:48 AM CDT

CROWN CASTLE USA INC.
CERTIFICATE OF REGISTRATION #PEC.000110
IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

G-1

REVISION:

1

EXHIBIT E

Structural Analysis Report

Date: **February 20, 2024**



Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject: **Structural Analysis Report**

Carrier Designation: **Verizon Wireless Co-Locate**
Site Number: 5000381735
Site Name: OXFORD W CT

Crown Castle Designation: **BU Number:** 876361
Site Name: SEYMOUR 2 / OXFORD TOWN GARAGE
JDE Job Number: 2107976
Work Order Number: 2284799
Order Number: 662915 Rev. 0

Engineering Firm Designation: **Crown Castle Project Number** 2284799

Site Data: **20 Great Oak Rd., Oxford, New Haven County, CT**
Latitude: 41° 25' 34.91" Longitude: -73° 8' 39.33"
150 ft - Monopole Tower

Crown Castle is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC5: Proposed Equipment Configuration

Sufficient Capacity-81.5%

This analysis has been performed in accordance with the 2022 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 117 mph. Applicable Standard references and design criteria are listed in Section 2 – "Analysis Criteria".

Structural analysis prepared by: Brad Sparks

Respectfully submitted by:

Sudarshan C Kasera, P.E.
Senior Project Engineer

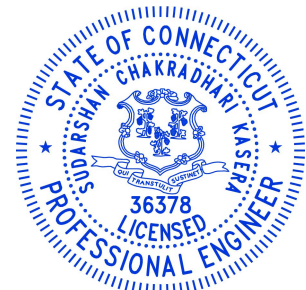


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1) INTRODUCTION

This tower is a 150 ft Monopole Tower designed by Engineered Endeavors, Inc.. The tower has been modified in the past to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	117 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1.00 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
138	140	6	jma wireless	MX06FRO660-03 w/ Mount Pipe	18	1-5/8
		1	raycap	RVZDC-6627-PF-48		
		3	samsung telecommunications	MT6413-77A w/ Mount Pipe		
		3	samsung telecommunications	RF4439D-25A		
		3	samsung telecommunications	RF4461D-13A		
	138	1	-	Mount Modifications		
		1	tower mounts	Platform Mount [LP 712-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
151	153	1	ericsson	RADIO 2212 B13	3	1-5/8
		3	ericsson	RADIO 4424 B25_TMO		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
	152	2	ericsson	RADIO 2212 B13		
	151	1	-	HD Top Rail Kit [#HRK12-3HD]		
		3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		3	rfs celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe		
		3	rfs celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
		1	tower mounts	Platform Mount [LP 604-1]		
146	150	3	alcatel lucent	800 EXTERNAL NOTCH FILTER	-	-
		5	alcatel lucent	800MHZ RRH		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
	148	3	alcatel lucent	1900MHz RRH (65MHz)		
	146	1	tower mounts	Pipe Mount [PM 601-3]		
129	131	1	ericsson	RRUS 4449 B5/B12	12 4 2 1	1-1/4 3/4 3/8 Conduit
	130	2	ericsson	RRUS 4449 B5/B12		
		1	kathrein	80010966 w/ Mount Pipe		
		1	raycap	DC6-48-60-18-8C-EV		
	129	3	ericsson	RRUS 8843 B2/B66A		
		2	kathrein	80010965 w/ Mount Pipe		
		3	kathrein	80010966 w/ Mount Pipe		
		1	raycap	DC6-48-60-18-8F		
		1	tower mounts	Platform Mount [LP 305-1 HR-1]		
	128	2	andrew	SBNH-1D6565C w/ Mount Pipe		
		1	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe		
112	116	3	fujitsu	TA08025-B604	1	1-1/2
		3	fujitsu	TA08025-B605		
	114	3	jma wireless	MX08FRO665-21 w/ Mount Pipe		
	113	1	raycap	RDIDC-9181-PF-48		
	112	1	tower mounts	Valmont SNP8HR-396		
84	84	1	lucent	KS24019-L112A	1	1/2
		1	tower mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	1532984	CCISITES
4-POST-MODIFICATION INSPECTION	3772404	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1447042	CCISITES
4-TOWER MANUFACTURER DRAWINGS	1446979	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3354881	CCISITES

3.1) Analysis Method

tnxTower (version 8.2.2.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the reinforcing elements. These calculations are included in Appendix C.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP16.08x15x0.1875	Pole	14.3	Pass
145 - 140	Pole	TP17.16x16.08x0.1875	Pole	23.5	Pass
140 - 135	Pole	TP18.239x17.16x0.1875	Pole	36.0	Pass
135 - 130	Pole	TP19.319x18.239x0.1875	Pole	46.8	Pass
130 - 126.59	Pole	TP20.74x19.319x0.1875	Pole	56.2	Pass
126.59 - 121.59	Pole	TP20.744x19.68x0.25	Pole	51.6	Pass
121.59 - 117	Pole	TP21.72x20.744x0.25	Pole	58.0	Pass
117 - 116.75	Pole + Reinf.	TP21.773x21.72x0.5625	Reinf. 6 Tension Rupture	40.4	Pass
116.75 - 111.75	Pole + Reinf.	TP22.836x21.773x0.55	Reinf. 6 Tension Rupture	46.1	Pass
111.75 - 106.75	Pole + Reinf.	TP23.899x22.836x0.525	Reinf. 6 Tension Rupture	52.0	Pass
106.75 - 101.75	Pole + Reinf.	TP24.962x23.899x0.5125	Reinf. 6 Tension Rupture	57.2	Pass
101.75 - 96.75	Pole + Reinf.	TP26.026x24.962x0.5	Reinf. 6 Tension Rupture	61.9	Pass
96.75 - 91.75	Pole + Reinf.	TP27.089x26.026x0.4875	Reinf. 6 Tension Rupture	66.0	Pass
91.75 - 90.04	Pole + Reinf.	TP28.32x27.089x0.4875	Reinf. 6 Tension Rupture	67.3	Pass
90.04 - 84.96	Pole + Reinf.	TP28.035x26.952x0.675	Reinf. 5 Tension Rupture	52.2	Pass
84.96 - 79.96	Pole + Reinf.	TP29.1x28.035x0.6625	Reinf. 5 Tension Rupture	54.7	Pass
79.96 - 74.96	Pole + Reinf.	TP30.165x29.1x0.6375	Reinf. 5 Tension Rupture	57.0	Pass
74.96 - 69.96	Pole + Reinf.	TP31.23x30.165x0.625	Reinf. 5 Tension Rupture	59.0	Pass
69.96 - 64.96	Pole + Reinf.	TP32.296x31.23x0.6125	Reinf. 5 Tension Rupture	60.8	Pass
64.96 - 60.5	Pole + Reinf.	TP33.246x32.296x0.6	Reinf. 5 Tension Rupture	62.3	Pass
60.5 - 60.25	Pole + Reinf.	TP33.299x33.246x0.6	Reinf. 4 Tension Rupture	62.4	Pass
60.25 - 55.25	Pole + Reinf.	TP34.364x33.299x0.5875	Reinf. 4 Tension Rupture	63.9	Pass
55.25 - 50.25	Pole + Reinf.	TP35.43x34.364x0.5875	Reinf. 4 Tension Rupture	65.2	Pass
50.25 - 47.58	Pole + Reinf.	TP37.1x35.43x0.575	Reinf. 4 Tension Rupture	65.9	Pass
47.58 - 41.41	Pole + Reinf.	TP36.687x35.374x0.6375	Reinf. 4 Tension Rupture	62.4	Pass
41.41 - 36.41	Pole + Reinf.	TP37.751x36.687x0.625	Reinf. 4 Tension Rupture	63.2	Pass

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
36.41 - 31.41	Pole + Reinf.	TP38.815x37.751x0.625	Reinf. 4 Tension Rupture	63.9	Pass
31.41 - 30.5	Pole + Reinf.	TP39.009x38.815x0.6125	Reinf. 4 Tension Rupture	64.0	Pass
30.5 - 30.25	Pole + Reinf.	TP39.062x39.009x0.6125	Reinf. 3 Tension Rupture	64.1	Pass
30.25 - 25.25	Pole + Reinf.	TP40.126x39.062x0.6125	Reinf. 3 Tension Rupture	64.7	Pass
25.25 - 20.25	Pole + Reinf.	TP41.19x40.126x0.6	Reinf. 3 Tension Rupture	65.2	Pass
20.25 - 18	Pole + Reinf.	TP41.669x41.19x0.6	Reinf. 3 Tension Rupture	65.5	Pass
18 - 17.75	Pole + Reinf.	TP41.722x41.669x0.5563	Reinf. 1 Tension Rupture	67.3	Pass
17.75 - 12.75	Pole + Reinf.	TP42.786x41.722x0.55	Reinf. 1 Tension Rupture	67.7	Pass
12.75 - 7.75	Pole + Reinf.	TP43.851x42.786x0.55	Reinf. 1 Tension Rupture	68.0	Pass
7.75 - 3.92	Pole + Reinf.	TP44.667x43.851x0.5375	Reinf. 1 Tension Rupture	68.3	Pass
3.92 - 3.67	Pole + Reinf.	TP44.72x44.667x0.525	Reinf. 7 Tension Yield	67.3	Pass
3.67 - 0	Pole + Reinf.	TP45.5x44.72x0.5125	Reinf. 7 Tension Yield	67.4	Pass
				Summary	
			Pole	58.0	Pass
			Reinforcement	68.3	Pass
			Overall	68.3	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	60.7	Pass
1	Base Plate	0	66.8	Pass
1	Base Foundation (Structural)	0	81.5	Pass
1	Base Foundation (Soil)	0	72.2	Pass

Structure Rating (max from all components) =	81.5%
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Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed

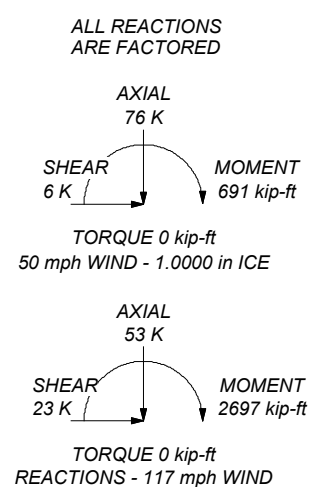
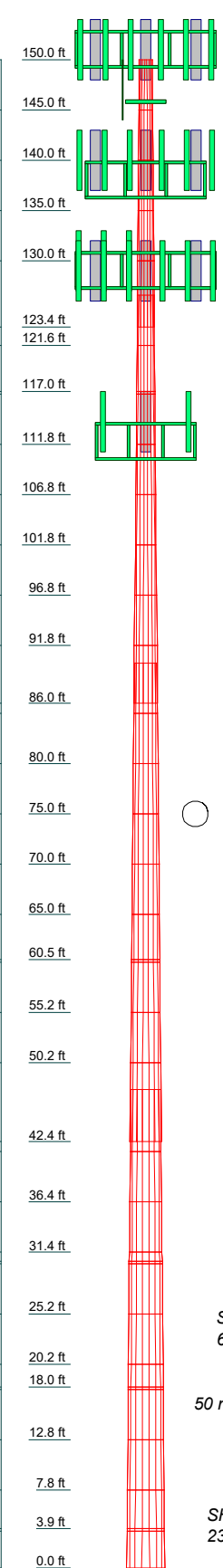
4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the considered equipment configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Length (ft)	3.67	3.79	3.83	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.17	8.4	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00		
Number of Sides	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		
Thickness (in)	0.5125	0.5125	0.5125	0.5500	0.5500	0.5500	0.5500	0.6000	0.6000	0.6125	0.6125	0.6250	0.6250	0.6375	0.6375	0.6625	0.6625	0.6750	0.6750	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875	0.6875		
Socket Length (ft)	5.17										4.08										3.17																		
Top Dia (in)	44.746	46.385	46.42	78.64	41.72	40.18	40.18	126.90	98.06	98.06	150.75	150.36	68.85	37.33	5.4297	34.364	33.293	32.957	31.230	50.16	52.29	100.28	0.33	5.27	0.888	26.02	56.24	9.62	23.89	92.22	8.360	21.72	87.97	136.69	49.319	18.23	93	15.000	
Bot Dia (in)	45.30	46.94	46.94	85.06	42.74	44.23	44.19	190.2	140.12	139.07	187.57	175.98	86.73	7.1000	35.4297	34.364	33.92	32.45	32.957	31.230	50.16	52.29	100.28	0.33	5.27	0.888	26.02	56.24	9.62	23.89	92.22	8.360	21.72	87.97	136.69	49.319	18.23	93	15.000
Grade	A572-65																																						
Weight (K)	26.2	0.90	1.10	1.3	1.3	0.06	1.2	1.2	0.02	1.2	1.2	1.4	1.6	1.0	1.0	0.09	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.2	0.2	0.2	0.2		



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 68.3%



CROWN CASTLE
The Pathway to Possible

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
Phone: (724) 416-2000
FAX:

Job: **876361**

Project:	Client: Crown Castle USA	Drawn by: BSparks	App'd:
Code: TIA-222-H	Date: 02/20/24	Scale: NTS	
Path: C:\Work Area\876361\WO 2284799 - SA\Prod\876361.dwg		Dwg No. E-1	

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Tower base elevation above sea level: 734.00 ft.

Basic wind speed of 117 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

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

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.

Maximum demand-capacity ratio is: 1.05.

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

Options

Consider Moments - Legs	Assume Legs Pinned	Calculate Redundant Bracing Forces
Consider Moments - Horizontals	✓ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Consider Moments - Diagonals	✓ Use Clear Spans For Wind Area	SR Leg Bolts Resist Compression
Use Moment Magnification	Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
✓ Use Code Stress Ratios	Retension Guys To Initial Tension	Offset Girt At Foundation
✓ Use Code Safety Factors - Guys	✓ Bypass Mast Stability Checks	✓ Consider Feed Line Torque
Escalate Ice	✓ Use Azimuth Dish Coefficients	Include Angle Block Shear Check
Always Use Max Kz	✓ Project Wind Area of Appurtenances	Use TIA-222-H Bracing Resist. Exemption
Use Special Wind Profile	✓ Alternative Appurt. EPA Calculation	Use TIA-222-H Tension Splice Exemption
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Poles
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	✓ Include Shear-Torsion Interaction
Secondary Horizontal Braces Leg	✓ Sort Capacity Reports By Component	Always Use Sub-Critical Flow
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Use Top Mounted Sockets
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Pole Without Linear Attachments
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole With Shroud Or No Appurtenances
Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules	Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.00-145.00	5.00	0.00	18	15.0000	16.0798	0.1875	0.7500	A572-65 (65 ksi)
L2	145.00-140.00	5.00	0.00	18	16.0798	17.1595	0.1875	0.7500	A572-65 (65 ksi)
L3	140.00-135.00	5.00	0.00	18	17.1595	18.2393	0.1875	0.7500	A572-65 (65 ksi)
L4	135.00-130.00	5.00	0.00	18	18.2393	19.3190	0.1875	0.7500	A572-65 (65 ksi)
L5	130.00-123.42	6.58	3.17	18	19.3190	20.7400	0.1875	0.7500	A572-65 (65 ksi)
L6	123.42-121.59	5.00	0.00	18	19.6804	20.7436	0.2500	1.0000	A572-65 (65 ksi)
L7	121.59-117.00	4.59	0.00	18	20.7436	21.7197	0.2500	1.0000	A572-65 (65 ksi)
L8	117.00-116.75	0.25	0.00	18	21.7197	21.7728	0.5625	2.2500	A572-65 (65 ksi)
L9	116.75-111.75	5.00	0.00	18	21.7728	22.8360	0.5500	2.2000	A572-65 (65 ksi)
L10	111.75-106.75	5.00	0.00	18	22.8360	23.8992	0.5250	2.1000	A572-65 (65 ksi)
L11	106.75-101.75	5.00	0.00	18	23.8992	24.9624	0.5125	2.0500	A572-65 (65 ksi)
L12	101.75-96.75	5.00	0.00	18	24.9624	26.0256	0.5000	2.0000	A572-65 (65 ksi)
L13	96.75-91.75	5.00	0.00	18	26.0256	27.0888	0.4875	1.9500	A572-65 (65 ksi)
L14	91.75-85.96	5.79	4.08	18	27.0888	28.3200	0.4875	1.9500	A572-65 (65 ksi)
L15	85.96-84.96	5.08	0.00	18	26.9524	28.0347	0.6750	2.7000	A572-65 (65 ksi)
L16	84.96-79.96	5.00	0.00	18	28.0347	29.1000	0.6625	2.6500	A572-65 (65 ksi)
L17	79.96-74.96	5.00	0.00	18	29.1000	30.1652	0.6375	2.5500	A572-65 (65 ksi)
L18	74.96-69.96	5.00	0.00	18	30.1652	31.2305	0.6250	2.5000	A572-65 (65 ksi)
L19	69.96-64.96	5.00	0.00	18	31.2305	32.2957	0.6125	2.4500	A572-65 (65 ksi)
L20	64.96-60.50	4.46	0.00	18	32.2957	33.2459	0.6000	2.4000	A572-65 (65 ksi)
L21	60.50-60.25	0.25	0.00	18	33.2459	33.2992	0.6000	2.4000	A572-65 (65 ksi)
L22	60.25-55.25	5.00	0.00	18	33.2992	34.3644	0.5875	2.3500	A572-65 (65 ksi)
L23	55.25-50.25	5.00	0.00	18	34.3644	35.4297	0.5875	2.3500	A572-65 (65 ksi)
L24	50.25-42.41	7.84	5.17	18	35.4297	37.1000	0.5750	2.3000	A572-65 (65 ksi)
L25	42.41-41.41	6.17	0.00	18	35.3735	36.6867	0.6375	2.5500	A572-65 (65 ksi)
L26	41.41-36.41	5.00	0.00	18	36.6867	37.7508	0.6250	2.5000	A572-65 (65 ksi)
L27	36.41-31.41	5.00	0.00	18	37.7508	38.8150	0.6250	2.5000	A572-65 (65 ksi)
L28	31.41-30.50	0.91	0.00	18	38.8150	39.0087	0.6125	2.4500	A572-65 (65 ksi)
L29	30.50-30.25	0.25	0.00	18	39.0087	39.0619	0.6125	2.4500	A572-65 (65 ksi)
L30	30.25-25.25	5.00	0.00	18	39.0619	40.1260	0.6125	2.4500	A572-65 (65 ksi)
L31	25.25-20.25	5.00	0.00	18	40.1260	41.1902	0.6000	2.4000	A572-65 (65 ksi)

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L32	20.25-18.00	2.25	0.00	18	41.1902	41.6691	0.6000	2.4000	A572-65 (65 ksi)
L33	18.00-17.75	0.25	0.00	18	41.6691	41.7223	0.5563	2.2250	A572-65 (65 ksi)
L34	17.75-12.75	5.00	0.00	18	41.7223	42.7864	0.5500	2.2000	A572-65 (65 ksi)
L35	12.75-7.75	5.00	0.00	18	42.7864	43.8506	0.5500	2.2000	A572-65 (65 ksi)
L36	7.75-3.92	3.83	0.00	18	43.8506	44.6666	0.5375	2.1500	A572-65 (65 ksi)
L37	3.92-3.67	0.25	0.00	18	44.6666	44.7198	0.5250	2.1000	A572-65 (65 ksi)
L38	3.67-0.00	3.67		18	44.7198	45.5000	0.5125	2.0500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	15.2025	8.8153	244.3603	5.2584	7.6200	32.0683	489.0422	4.4085	2.3100	12.32
	16.2989	9.4579	301.7884	5.6418	8.1685	36.9453	603.9739	4.7298	2.5000	13.334
L2	16.2989	9.4579	301.7884	5.6418	8.1685	36.9453	603.9739	4.7298	2.5000	13.334
	17.3953	10.1005	367.5751	6.0251	8.7170	42.1674	735.6339	5.0512	2.6901	14.347
L3	17.3953	10.1005	367.5751	6.0251	8.7170	42.1674	735.6339	5.0512	2.6901	14.347
	18.4917	10.7431	442.2884	6.4084	9.2656	47.7347	885.1588	5.3726	2.8801	15.361
L4	18.4917	10.7431	442.2884	6.4084	9.2656	47.7347	885.1588	5.3726	2.8801	15.361
	19.5881	11.3857	526.4962	6.7917	9.8141	53.6471	1053.6851	5.6939	3.0702	16.374
L5	19.5881	11.3857	526.4962	6.7917	9.8141	53.6471	1053.6851	5.6939	3.0702	16.374
	21.0310	12.2313	652.7391	7.2961	10.5359	61.9537	1306.3371	6.1168	3.3202	17.708
L6	20.6299	15.4180	735.4138	6.8978	9.9977	73.5586	1471.7953	7.7105	3.0238	12.095
	21.0251	16.2617	862.8618	7.2752	10.5378	81.8828	1726.8590	8.1324	3.2109	12.844
L7	21.0251	16.2617	862.8618	7.2752	10.5378	81.8828	1726.8590	8.1324	3.2109	12.844
	22.0161	17.0362	992.1089	7.6217	11.0336	89.9172	1985.5233	8.5197	3.3827	13.531
L8	21.9679	37.7734	2136.1831	7.5108	11.0336	193.6074	4275.1770	18.8903	2.8327	5.036
	22.0219	37.8684	2152.3259	7.5297	11.0606	194.5942	4307.4838	18.9378	2.8420	5.052
L9	22.0238	37.0487	2108.2194	7.5341	11.0606	190.6064	4219.2128	18.5279	2.8640	5.207
	23.1034	38.9047	2441.2043	7.9115	11.6007	210.4361	4885.6208	19.4560	3.0511	5.548
L10	23.1073	37.1780	2338.0913	7.9204	11.6007	201.5475	4679.2592	18.5925	3.0951	5.896
	24.1869	38.9496	2688.5284	8.2978	12.1408	221.4457	5380.5944	19.4785	3.2823	6.252
L11	24.1888	38.0426	2628.7287	8.3023	12.1408	216.5202	5260.9163	19.0249	3.3043	6.447
	25.2684	39.7721	3003.7943	8.6797	12.6809	236.8754	6011.5410	19.8898	3.4914	6.812
L12	25.2704	38.8218	2935.0280	8.6842	12.6809	231.4526	5873.9180	19.4146	3.5134	7.027
	26.3500	40.5091	3334.5938	9.0616	13.2210	252.2193	6673.5753	20.2584	3.7005	7.401
L13	26.3519	39.5158	3256.0077	9.0660	13.2210	246.2752	6516.2997	19.7616	3.7225	7.636
	27.4315	41.1609	3679.8342	9.4435	13.7611	267.4081	7364.5104	20.5843	3.9096	8.02
L14	27.4315	41.1609	3679.8342	9.4435	13.7611	267.4081	7364.5104	20.5843	3.9096	8.02
	28.6817	43.0659	4214.7871	9.8805	14.3866	292.9670	8435.1202	21.5371	4.1263	8.464
L15	28.1467	56.2981	4911.3030	9.3285	13.6918	358.7031	9829.0684	28.1544	3.5556	5.268
	28.3631	58.6168	5543.4892	9.7127	14.2416	389.2452	11094.2726	29.3140	3.7461	5.55
L16	28.3650	57.5576	5448.2927	9.7171	14.2416	382.5608	10903.7545	28.7843	3.7681	5.688
	29.4467	59.7976	6109.4657	10.0953	14.7828	413.2824	12226.9705	29.9045	3.9556	5.971
L17	29.4505	57.5917	5894.4383	10.1042	14.7828	398.7366	11796.6327	28.8013	3.9996	6.274
	30.5322	59.7471	6581.3413	10.4823	15.3239	429.4812	13171.3424	29.8792	4.1871	6.568
L18	30.5342	58.6004	6460.4932	10.4868	15.3239	421.5950	12929.4873	29.3058	4.2091	6.735
	31.6158	60.7136	7184.9153	10.8649	15.8651	452.8761	14379.2847	30.3626	4.3966	7.035
L19	31.6178	59.5236	7049.8479	10.8694	15.8651	444.3626	14108.9722	29.7675	4.4186	7.214
	32.6994	61.5946	7811.5732	11.2475	16.4062	476.1347	15633.4250	30.8031	4.6060	7.52
L20	32.7014	60.3613	7661.2139	11.2520	16.4062	466.9699	15332.5086	30.1864	4.6280	7.713

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L21	33.6662	62.1709	8371.1009	11.5893	16.8889	495.6561	16753.2167	31.0914	4.7953	7.992
	33.6662	62.1709	8371.1009	11.5893	16.8889	495.6561	16753.2167	31.0914	4.7953	7.992
	33.7203	62.2723	8412.1407	11.6082	16.9160	497.2894	16835.3502	31.1421	4.8047	8.008
L22	33.7223	60.9983	8246.3375	11.6126	16.9160	487.4878	16503.5258	30.5049	4.8267	8.216
	34.8039	62.9847	9078.4786	11.9908	17.4571	520.0440	18168.9028	31.4983	5.0141	8.535
L23	34.8039	62.9847	9078.4786	11.9908	17.4571	520.0440	18168.9028	31.4983	5.0141	8.535
	35.8856	64.9711	9964.7981	12.3690	17.9983	553.6528	19942.7081	32.4917	5.2016	8.854
L24	35.8875	63.6115	9763.2816	12.3734	17.9983	542.4563	19539.4100	31.8118	5.2236	9.085
	37.5836	66.6600	11235.2539	12.9664	18.8468	596.1359	22485.2914	33.3363	5.5176	9.596
L25	36.9382	70.2858	10714.3335	12.3313	17.9698	596.2426	21442.7652	35.1496	5.1037	8.006
	37.1543	72.9428	11975.9857	12.7975	18.6368	642.5974	23967.7297	36.4784	5.3349	8.368
L26	37.1562	71.5374	11753.3804	12.8019	18.6368	630.6530	23522.2261	35.7755	5.3569	8.571
	38.2368	73.6484	12824.8852	13.1797	19.1774	668.7489	25666.6458	36.8312	5.5441	8.871
L27	38.2368	73.6484	12824.8852	13.1797	19.1774	668.7489	25666.6458	36.8312	5.5441	8.871
	39.3174	75.7594	13959.6108	13.5574	19.7180	707.9621	27937.5900	37.8869	5.7314	9.17
L28	39.3193	74.2685	13693.8562	13.5619	19.7180	694.4844	27405.7312	37.1413	5.7534	9.393
	39.5160	74.6450	13903.1856	13.6306	19.8164	701.5997	27824.6653	37.3296	5.7875	9.449
L29	39.5160	74.6450	13903.1856	13.6306	19.8164	701.5997	27824.6653	37.3296	5.7875	9.449
	39.5700	74.7485	13961.0648	13.6495	19.8434	703.5609	27940.5000	37.3813	5.7969	9.464
L30	39.5700	74.7485	13961.0648	13.6495	19.8434	703.5609	27940.5000	37.3813	5.7969	9.464
	40.6506	76.8173	15152.6317	14.0273	20.3840	743.3582	30325.2016	38.4159	5.9842	9.77
L31	40.6525	75.2734	14857.4858	14.0317	20.3840	728.8789	29734.5214	37.6438	6.0062	10.01
	41.7331	77.2999	16090.0992	14.4095	20.9246	768.9556	32201.3702	38.6573	6.1935	10.322
L32	41.7331	77.2999	16090.0992	14.4095	20.9246	768.9556	32201.3702	38.6573	6.1935	10.322
	42.2193	78.2119	16666.3196	14.5795	21.1679	787.3401	33354.5692	39.1134	6.2778	10.463
L33	42.2261	72.5862	15500.4988	14.5950	21.1679	732.2651	31021.3936	36.3000	6.3548	11.424
	42.2801	72.6801	15560.7583	14.6139	21.1949	734.1744	31141.9919	36.3470	6.3641	11.441
L34	42.2810	71.8744	15392.9273	14.6162	21.1949	726.2559	30806.1090	35.9440	6.3751	11.591
	43.3616	73.7321	16617.5940	14.9939	21.7355	764.5371	33257.0538	36.8731	6.5624	11.932
L35	43.3616	73.7321	16617.5940	14.9939	21.7355	764.5371	33257.0538	36.8731	6.5624	11.932
	44.4422	75.5898	17905.5532	15.3717	22.2761	803.8016	35834.6670	37.8021	6.7497	12.272
L36	44.4441	73.8932	17513.7677	15.3761	22.2761	786.2138	35050.5804	36.9536	6.7717	12.599
	45.2727	75.2853	18522.3788	15.6658	22.6906	816.3015	37069.1299	37.6498	6.9153	12.866
L37	45.2746	73.5553	18107.0041	15.6703	22.6906	797.9955	36237.8338	36.7846	6.9373	13.214
	45.3286	73.6439	18172.5608	15.6891	22.7176	799.9317	36369.0335	36.8290	6.9467	13.232
L38	45.3306	71.9109	17754.9376	15.6936	22.7176	781.5485	35533.2376	35.9623	6.9687	13.597
	46.1228	73.1800	18711.7248	15.9706	23.1140	809.5407	37448.0710	36.5970	7.1060	13.865

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L1 150.00-145.00				1	1	1			
L2 145.00-140.00				1	1	1			
L3 140.00-135.00				1	1	1			
L4 135.00-130.00				1	1	1			
L5 130.00-123.42				1	1	1			
L6 123.42-121.59				1	1	1			
L7 121.59-117.00				1	1	1			
L8 117.00-116.75				1	1	0.898612			
L9 116.75-111.75				1	1	0.89636			
L10 111.75-106.75				1	1	0.916986			

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L11 106.75-101.75				1	1	0.919236			
L12 101.75-96.75				1	1	0.923336			
L13 96.75-91.75				1	1	0.929213			
L14 91.75-85.96				1	1	0.923598			
L15 85.96-84.96				1	1	0.902606			
L16 84.96-79.96				1	1	0.902452			
L17 79.96-74.96				1	1	0.920899			
L18 74.96-69.96				1	1	0.923643			
L19 69.96-64.96				1	1	0.927586			
L20 64.96-60.50				1	1	0.934147			
L21 60.50-60.25				1	1	0.933474			
L22 60.25-55.25				1	1	0.939691			
L23 55.25-50.25				1	1	0.927224			
L24 50.25-42.41				1	1	0.940561			
L25 42.41-41.41				1	1	0.940886			
L26 41.41-36.41				1	1	0.94907			
L27 36.41-31.41				1	1	0.939344			
L28 31.41-30.50				1	1	0.956455			
L29 30.50-30.25				1	1	0.955979			
L30 30.25-25.25				1	1	0.946722			
L31 25.25-20.25				1	1	0.957196			
L32 20.25-18.00				1	1	0.953322			
L33 18.00-17.75				1	1	1.02675			
L34 17.75-12.75				1	1	1.02928			
L35 12.75-7.75				1	1	1.02074			
L36 7.75-3.92				1	1	1.03777			
L37 3.92-3.67				1	1	1.00315			
L38 3.67-0.00				1	1	1.0222			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf

Climbing Pegs	B	No	Surface Ar (CaAa)	150.00 - 0.00	1	1	-0.150 0.150	0.7050		1.80
Safety Line 3/8	B	No	Surface Ar (CaAa)	150.00 - 0.00	1	1	0.000 0.000	0.3750		0.22

HB158-21U6S24- xxM_TMO(1-5/8)	A	No	Surface Ar (CaAa)	150.00 - 0.00	3	3	0.200 0.300	1.9960		2.50

LDF7-50A(1-5/8)	C	No	Surface Ar (CaAa)	138.00 - 0.00	6	6	0.000 0.300	1.9800		0.82

CU12PSM9P6XXX(1-1/2)	B	No	Surface Ar (CaAa)	112.00 - 0.00	1	1	0.450 0.500	1.6000		2.35

LDF4-50A(1/2)	B	No	Surface Ar (CaAa)	85.00 - 0.00	2	2	-0.420 -0.400	0.6300		0.15

MP3-06	A	No	Surface Af (CaAa)	90.50 - 0.00	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-06	B	No	Surface Af (CaAa)	90.50 - 0.00	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-06	C	No	Surface Af (CaAa)	90.50 - 15.50	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-06	C	No	Surface Af (CaAa)	20.50 - 0.00	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-05	A	No	Surface Af (CaAa)	118.00 - 88.00	1	1	0.000 0.000	5.3300	14.8400	0.00
MP3-05	B	No	Surface Af (CaAa)	118.00 - 88.00	1	1	0.000 0.000	5.3300	14.8400	0.00
MP3-05	C	No	Surface Af (CaAa)	118.00 - 88.00	1	1	0.000 0.000	5.3300	14.8400	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		CA _{AA} ft ² /ft	Weight plf

LDF7-50A(1-5/8)	C	No	No	Inside Pole	138.00 - 0.00	12	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82

LDF6-50A(1-1/4)	A	No	No	Inside Pole	129.00 - 0.00	12	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.60 0.60 0.60
FB-L98B-002- 75000(3/8)	A	No	No	Inside Pole	129.00 - 0.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.06 0.06 0.06
FB-L98B-034- XXX(3/8)	A	No	No	Inside Pole	129.00 - 0.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.06 0.06 0.06
WR-VG86ST- BRD(3/4)	A	No	No	Inside Pole	129.00 - 0.00	4	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.58 0.58 0.58
CONDUIT(2)	A	No	No	Inside Pole	129.00 - 0.00	1	No Ice	0.00	0.34

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf
						1/2" Ice	0.00	0.34
						1" Ice	0.00	0.34

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	150.00-145.00	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L2	145.00-140.00	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	0.000	0.000	0.00
L3	140.00-135.00	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	3.564	0.000	0.04
L4	135.00-130.00	A	0.000	0.000	2.994	0.000	0.04
		B	0.000	0.000	0.540	0.000	0.01
		C	0.000	0.000	5.940	0.000	0.07
L5	130.00-123.42	A	0.000	0.000	3.940	0.000	0.11
		B	0.000	0.000	0.711	0.000	0.01
		C	0.000	0.000	7.817	0.000	0.10
L6	123.42-121.59	A	0.000	0.000	1.096	0.000	0.03
		B	0.000	0.000	0.198	0.000	0.00
		C	0.000	0.000	2.174	0.000	0.03
L7	121.59-117.00	A	0.000	0.000	3.637	0.000	0.08
		B	0.000	0.000	1.384	0.000	0.01
		C	0.000	0.000	6.341	0.000	0.07
L8	117.00-116.75	A	0.000	0.000	0.372	0.000	0.00
		B	0.000	0.000	0.249	0.000	0.00
		C	0.000	0.000	0.519	0.000	0.00
L9	116.75-111.75	A	0.000	0.000	7.436	0.000	0.09
		B	0.000	0.000	5.022	0.000	0.01
		C	0.000	0.000	10.382	0.000	0.07
L10	111.75-106.75	A	0.000	0.000	7.436	0.000	0.09
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.07
L11	106.75-101.75	A	0.000	0.000	7.436	0.000	0.09
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.07
L12	101.75-96.75	A	0.000	0.000	7.436	0.000	0.09
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.07
L13	96.75-91.75	A	0.000	0.000	7.436	0.000	0.09
		B	0.000	0.000	5.782	0.000	0.02
		C	0.000	0.000	10.382	0.000	0.07
L14	91.75-85.96	A	0.000	0.000	12.012	0.000	0.10
		B	0.000	0.000	10.096	0.000	0.03
		C	0.000	0.000	15.423	0.000	0.09
L15	85.96-84.96	A	0.000	0.000	1.747	0.000	0.02
		B	0.000	0.000	1.421	0.000	0.00
		C	0.000	0.000	2.336	0.000	0.01
L16	84.96-79.96	A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L17	79.96-74.96	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L18	74.96-69.96	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L19	69.96-64.96	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L20	64.96-60.50	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	7.792	0.000	0.08
		B	0.000	0.000	6.879	0.000	0.02
L21	60.50-60.25	C	0.000	0.000	10.420	0.000	0.07
		A	0.000	0.000	0.437	0.000	0.00
		B	0.000	0.000	0.386	0.000	0.00
L22	60.25-55.25	C	0.000	0.000	0.584	0.000	0.00
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L23	55.25-50.25	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L24	50.25-42.41	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	13.698	0.000	0.14
		B	0.000	0.000	12.092	0.000	0.04
L25	42.41-41.41	C	0.000	0.000	18.317	0.000	0.12
		A	0.000	0.000	1.747	0.000	0.02
		B	0.000	0.000	1.542	0.000	0.00
L26	41.41-36.41	C	0.000	0.000	2.336	0.000	0.01
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L27	36.41-31.41	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L28	31.41-30.50	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	1.590	0.000	0.02
		B	0.000	0.000	1.404	0.000	0.00
L29	30.50-30.25	C	0.000	0.000	2.126	0.000	0.01
		A	0.000	0.000	0.437	0.000	0.00
		B	0.000	0.000	0.386	0.000	0.00
L30	30.25-25.25	C	0.000	0.000	0.584	0.000	0.00
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L31	25.25-20.25	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L32	20.25-18.00	C	0.000	0.000	11.969	0.000	0.07
		A	0.000	0.000	3.931	0.000	0.04
		B	0.000	0.000	3.470	0.000	0.01
L33	18.00-17.75	C	0.000	0.000	7.840	0.000	0.03
		A	0.000	0.000	0.437	0.000	0.00
		B	0.000	0.000	0.386	0.000	0.00
L34	17.75-12.75	C	0.000	0.000	0.871	0.000	0.00
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L35	12.75-7.75	C	0.000	0.000	14.265	0.000	0.07
		A	0.000	0.000	8.736	0.000	0.09
		B	0.000	0.000	7.712	0.000	0.02
L36	7.75-3.92	C	0.000	0.000	11.682	0.000	0.07
		A	0.000	0.000	6.699	0.000	0.07
		B	0.000	0.000	5.913	0.000	0.02
L37	3.92-3.67	C	0.000	0.000	8.958	0.000	0.06
		A	0.000	0.000	0.437	0.000	0.00

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L38	3.67-0.00	B	0.000	0.000	0.386	0.000	0.00
		C	0.000	0.000	0.584	0.000	0.00
		A	0.000	0.000	6.405	0.000	0.06
		B	0.000	0.000	5.654	0.000	0.02
		C	0.000	0.000	8.565	0.000	0.05

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	150.00-145.00	A	0.987	0.000	0.000	4.977	0.000	0.07
		B		0.000	0.000	2.515	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L2	145.00-140.00	A	0.984	0.000	0.000	4.972	0.000	0.07
		B		0.000	0.000	2.508	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L3	140.00-135.00	A	0.980	0.000	0.000	4.968	0.000	0.07
		B		0.000	0.000	2.501	0.000	0.03
		C		0.000	0.000	5.190	0.000	0.08
L4	135.00-130.00	A	0.977	0.000	0.000	4.963	0.000	0.07
		B		0.000	0.000	2.493	0.000	0.03
		C		0.000	0.000	8.646	0.000	0.14
L5	130.00-123.42	A	0.972	0.000	0.000	6.525	0.000	0.15
		B		0.000	0.000	3.270	0.000	0.04
		C		0.000	0.000	11.371	0.000	0.18
L6	123.42-121.59	A	0.969	0.000	0.000	1.815	0.000	0.05
		B		0.000	0.000	0.909	0.000	0.01
		C		0.000	0.000	3.162	0.000	0.05
L7	121.59-117.00	A	0.967	0.000	0.000	5.626	0.000	0.12
		B		0.000	0.000	3.352	0.000	0.03
		C		0.000	0.000	9.007	0.000	0.13
L8	117.00-116.75	A	0.965	0.000	0.000	0.518	0.000	0.01
		B		0.000	0.000	0.394	0.000	0.00
		C		0.000	0.000	0.702	0.000	0.01
L9	116.75-111.75	A	0.962	0.000	0.000	10.350	0.000	0.16
		B		0.000	0.000	7.957	0.000	0.06
		C		0.000	0.000	14.032	0.000	0.17
L10	111.75-106.75	A	0.958	0.000	0.000	10.340	0.000	0.16
		B		0.000	0.000	9.614	0.000	0.09
		C		0.000	0.000	14.022	0.000	0.17
L11	106.75-101.75	A	0.954	0.000	0.000	10.330	0.000	0.16
		B		0.000	0.000	9.596	0.000	0.09
		C		0.000	0.000	14.012	0.000	0.17
L12	101.75-96.75	A	0.949	0.000	0.000	10.319	0.000	0.16
		B		0.000	0.000	9.577	0.000	0.09
		C		0.000	0.000	14.002	0.000	0.17
L13	96.75-91.75	A	0.944	0.000	0.000	10.308	0.000	0.16
		B		0.000	0.000	9.558	0.000	0.09
		C		0.000	0.000	13.991	0.000	0.17
L14	91.75-85.96	A	0.938	0.000	0.000	15.793	0.000	0.20
		B		0.000	0.000	14.913	0.000	0.12
		C		0.000	0.000	20.057	0.000	0.22
L15	85.96-84.96	A	0.935	0.000	0.000	2.319	0.000	0.03
		B		0.000	0.000	2.183	0.000	0.02
		C		0.000	0.000	3.056	0.000	0.04
L16	84.96-79.96	A	0.932	0.000	0.000	11.580	0.000	0.16
		B		0.000	0.000	12.760	0.000	0.11
		C		0.000	0.000	15.263	0.000	0.18
L17	79.96-74.96	A	0.926	0.000	0.000	11.567	0.000	0.16

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
		B		0.000	0.000	12.729	0.000	0.11
		C		0.000	0.000	15.249	0.000	0.17
L18	74.96-69.96	A	0.920	0.000	0.000	11.553	0.000	0.16
		B		0.000	0.000	12.697	0.000	0.11
		C		0.000	0.000	15.236	0.000	0.17
L19	69.96-64.96	A	0.913	0.000	0.000	11.538	0.000	0.16
		B		0.000	0.000	12.662	0.000	0.10
		C		0.000	0.000	15.221	0.000	0.17
L20	64.96-60.50	A	0.906	0.000	0.000	10.279	0.000	0.14
		B		0.000	0.000	11.264	0.000	0.09
		C		0.000	0.000	13.564	0.000	0.15
L21	60.50-60.25	A	0.903	0.000	0.000	0.576	0.000	0.01
		B		0.000	0.000	0.630	0.000	0.01
		C		0.000	0.000	0.760	0.000	0.01
L22	60.25-55.25	A	0.899	0.000	0.000	11.507	0.000	0.16
		B		0.000	0.000	12.588	0.000	0.10
		C		0.000	0.000	15.189	0.000	0.17
L23	55.25-50.25	A	0.891	0.000	0.000	11.488	0.000	0.16
		B		0.000	0.000	12.546	0.000	0.10
		C		0.000	0.000	15.171	0.000	0.17
L24	50.25-42.41	A	0.879	0.000	0.000	17.973	0.000	0.25
		B		0.000	0.000	19.577	0.000	0.16
		C		0.000	0.000	23.747	0.000	0.27
L25	42.41-41.41	A	0.871	0.000	0.000	2.293	0.000	0.03
		B		0.000	0.000	2.497	0.000	0.02
		C		0.000	0.000	3.029	0.000	0.03
L26	41.41-36.41	A	0.864	0.000	0.000	11.428	0.000	0.16
		B		0.000	0.000	12.406	0.000	0.10
		C		0.000	0.000	15.111	0.000	0.17
L27	36.41-31.41	A	0.852	0.000	0.000	11.402	0.000	0.16
		B		0.000	0.000	12.344	0.000	0.10
		C		0.000	0.000	15.084	0.000	0.17
L28	31.41-30.50	A	0.845	0.000	0.000	2.072	0.000	0.03
		B		0.000	0.000	2.239	0.000	0.02
		C		0.000	0.000	2.742	0.000	0.03
L29	30.50-30.25	A	0.843	0.000	0.000	0.569	0.000	0.01
		B		0.000	0.000	0.615	0.000	0.00
		C		0.000	0.000	0.753	0.000	0.01
L30	30.25-25.25	A	0.835	0.000	0.000	11.364	0.000	0.15
		B		0.000	0.000	12.255	0.000	0.10
		C		0.000	0.000	15.046	0.000	0.16
L31	25.25-20.25	A	0.819	0.000	0.000	11.327	0.000	0.15
		B		0.000	0.000	12.169	0.000	0.09
		C		0.000	0.000	15.337	0.000	0.16
L32	20.25-18.00	A	0.805	0.000	0.000	5.083	0.000	0.07
		B		0.000	0.000	5.443	0.000	0.04
		C		0.000	0.000	9.686	0.000	0.09
L33	18.00-17.75	A	0.799	0.000	0.000	0.564	0.000	0.01
		B		0.000	0.000	0.603	0.000	0.00
		C		0.000	0.000	1.075	0.000	0.01
L34	17.75-12.75	A	0.787	0.000	0.000	11.254	0.000	0.15
		B		0.000	0.000	12.000	0.000	0.09
		C		0.000	0.000	17.875	0.000	0.17
L35	12.75-7.75	A	0.756	0.000	0.000	11.185	0.000	0.15
		B		0.000	0.000	11.839	0.000	0.09
		C		0.000	0.000	14.868	0.000	0.16
L36	7.75-3.92	A	0.715	0.000	0.000	8.505	0.000	0.11
		B		0.000	0.000	8.911	0.000	0.06
		C		0.000	0.000	11.329	0.000	0.12
L37	3.92-3.67	A	0.685	0.000	0.000	0.551	0.000	0.01
		B		0.000	0.000	0.573	0.000	0.00
		C		0.000	0.000	0.735	0.000	0.01

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L38	3.67-0.00	A	0.636	0.000	0.000	8.004	0.000	0.10
		B		0.000	0.000	8.220	0.000	0.05
		C		0.000	0.000	10.704	0.000	0.10

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	150.00-145.00	-1.1236	-2.9925	-0.2281	-2.5433
L2	145.00-140.00	-1.1445	-3.0557	-0.2322	-2.6257
L3	140.00-135.00	-1.7061	0.4552	-0.7776	-0.1760
L4	135.00-130.00	-1.9701	1.9055	-1.0353	0.9087
L5	130.00-123.42	-2.0359	1.9698	-1.0751	0.9451
L6	123.42-121.59	-2.0627	1.9960	-1.0907	0.9591
L7	121.59-117.00	-1.7749	1.7178	-1.0045	0.8843
L8	117.00-116.75	-1.1639	1.1266	-0.7566	0.6665
L9	116.75-111.75	-1.1679	1.1522	-0.7492	0.6873
L10	111.75-106.75	-0.9011	1.2995	-0.3893	0.8706
L11	106.75-101.75	-0.9284	1.3396	-0.4020	0.8985
L12	101.75-96.75	-0.9550	1.3788	-0.4148	0.9260
L13	96.75-91.75	-0.9812	1.4172	-0.4276	0.9531
L14	91.75-85.96	-0.7917	1.1441	-0.3719	0.8273
L15	85.96-84.96	-0.9022	1.2969	-0.4090	0.8993
L16	84.96-79.96	-0.8564	1.0609	-0.3117	0.4271
L17	79.96-74.96	-0.8779	1.0877	-0.3216	0.4399
L18	74.96-69.96	-0.8990	1.1140	-0.3317	0.4529
L19	69.96-64.96	-0.9198	1.1399	-0.3421	0.4661
L20	64.96-60.50	-0.9391	1.1639	-0.3523	0.4789
L21	60.50-60.25	-0.9486	1.1758	-0.3574	0.4853
L22	60.25-55.25	-0.9591	1.1888	-0.3633	0.4925
L23	55.25-50.25	-0.9788	1.2135	-0.3748	0.5067
L24	50.25-42.41	-1.0037	1.2444	-0.3904	0.5255
L25	42.41-41.41	-1.0094	1.2516	-0.3925	0.5284
L26	41.41-36.41	-1.0208	1.2657	-0.4059	0.5430
L27	36.41-31.41	-1.0395	1.2890	-0.4202	0.5596
L28	31.41-30.50	-1.0504	1.3026	-0.4292	0.5700
L29	30.50-30.25	-1.0525	1.3053	-0.4310	0.5721
L30	30.25-25.25	-1.0621	1.3172	-0.4396	0.5818
L31	25.25-20.25	-1.0725	1.4837	-0.4552	0.7072
L32	20.25-18.00	-0.9585	3.8997	-0.4296	2.5476
L33	18.00-17.75	-0.9625	3.9162	-0.4346	2.5619
L34	17.75-12.75	-1.0412	2.6080	-0.4693	1.5568
L35	12.75-7.75	-1.1239	1.3942	-0.5191	0.6677
L36	7.75-3.92	-1.1389	1.4130	-0.5561	0.7055
L37	3.92-3.67	-1.1458	1.4215	-0.5818	0.7313
L38	3.67-0.00	-1.1524	1.4297	-0.6219	0.7709

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	2	Climbing Pegs	145.00 - 150.00	1.0000	1.0000
L1	3	Safety Line 3/8	145.00 - 150.00	1.0000	1.0000
L1	8	HB158-21U6S24- xxM_TMO(1-5/8)	145.00 - 150.00	1.0000	1.0000
L2	2	Climbing Pegs	140.00 - 145.00	1.0000	1.0000
L2	3	Safety Line 3/8	140.00 - 145.00	1.0000	1.0000
L2	8	HB158-21U6S24- xxM_TMO(1-5/8)	140.00 - 145.00	1.0000	1.0000
L3	2	Climbing Pegs	135.00 - 140.00	1.0000	1.0000
L3	3	Safety Line 3/8	135.00 - 140.00	1.0000	1.0000
L3	8	HB158-21U6S24- xxM_TMO(1-5/8)	135.00 - 140.00	1.0000	1.0000
L3	10	LDF7-50A(1-5/8)	135.00 - 138.00	1.0000	1.0000
L4	2	Climbing Pegs	130.00 - 135.00	1.0000	1.0000
L4	3	Safety Line 3/8	130.00 - 135.00	1.0000	1.0000
L4	8	HB158-21U6S24- xxM_TMO(1-5/8)	130.00 - 135.00	1.0000	1.0000
L4	10	LDF7-50A(1-5/8)	130.00 - 135.00	1.0000	1.0000
L5	2	Climbing Pegs	123.42 - 130.00	1.0000	1.0000
L5	3	Safety Line 3/8	123.42 - 130.00	1.0000	1.0000
L5	8	HB158-21U6S24- xxM_TMO(1-5/8)	123.42 - 130.00	1.0000	1.0000
L5	10	LDF7-50A(1-5/8)	123.42 - 130.00	1.0000	1.0000
L6	2	Climbing Pegs	121.59 - 123.42	1.0000	1.0000
L6	3	Safety Line 3/8	121.59 - 123.42	1.0000	1.0000
L6	8	HB158-21U6S24- xxM_TMO(1-5/8)	121.59 - 123.42	1.0000	1.0000
L6	10	LDF7-50A(1-5/8)	121.59 - 123.42	1.0000	1.0000
L7	2	Climbing Pegs	117.00 - 121.59	1.0000	1.0000
L7	3	Safety Line 3/8	117.00 - 121.59	1.0000	1.0000
L7	8	HB158-21U6S24- xxM_TMO(1-5/8)	117.00 - 121.59	1.0000	1.0000
L7	10	LDF7-50A(1-5/8)	117.00 - 121.59	1.0000	1.0000
L7	30	MP3-05	117.00 - 118.00	1.0000	1.0000
L7	31	MP3-05	117.00 - 118.00	1.0000	1.0000
L7	32	MP3-05	117.00 - 118.00	1.0000	1.0000
L8	2	Climbing Pegs	116.75 - 117.00	1.0000	1.0000
L8	3	Safety Line 3/8	116.75 - 117.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L8	8	HB158-21U6S24-xxM_TMO(1-5/8)	116.75 - 117.00	1.0000	1.0000
L8	10	LDF7-50A(1-5/8)	116.75 - 117.00	1.0000	1.0000
L8	30	MP3-05	116.75 - 117.00	1.0000	1.0000
L8	31	MP3-05	116.75 - 117.00	1.0000	1.0000
L8	32	MP3-05	116.75 - 117.00	1.0000	1.0000
L9	2	Climbing Pegs	111.75 - 116.75	1.0000	1.0000
L9	3	Safety Line 3/8	111.75 - 116.75	1.0000	1.0000
L9	8	HB158-21U6S24-xxM_TMO(1-5/8)	111.75 - 116.75	1.0000	1.0000
L9	10	LDF7-50A(1-5/8)	111.75 - 116.75	1.0000	1.0000
L9	22	CU12PSM9P6XXX(1-1/2)	111.75 - 112.00	1.0000	1.0000
L9	30	MP3-05	111.75 - 116.75	1.0000	1.0000
L9	31	MP3-05	111.75 - 116.75	1.0000	1.0000
L9	32	MP3-05	111.75 - 116.75	1.0000	1.0000
L10	2	Climbing Pegs	106.75 - 111.75	1.0000	1.0000
L10	3	Safety Line 3/8	106.75 - 111.75	1.0000	1.0000
L10	8	HB158-21U6S24-xxM_TMO(1-5/8)	106.75 - 111.75	1.0000	1.0000
L10	10	LDF7-50A(1-5/8)	106.75 - 111.75	1.0000	1.0000
L10	22	CU12PSM9P6XXX(1-1/2)	106.75 - 111.75	1.0000	1.0000
L10	30	MP3-05	106.75 - 111.75	1.0000	1.0000
L10	31	MP3-05	106.75 - 111.75	1.0000	1.0000
L10	32	MP3-05	106.75 - 111.75	1.0000	1.0000
L11	2	Climbing Pegs	101.75 - 106.75	1.0000	1.0000
L11	3	Safety Line 3/8	101.75 - 106.75	1.0000	1.0000
L11	8	HB158-21U6S24-xxM_TMO(1-5/8)	101.75 - 106.75	1.0000	1.0000
L11	10	LDF7-50A(1-5/8)	101.75 - 106.75	1.0000	1.0000
L11	22	CU12PSM9P6XXX(1-1/2)	101.75 - 106.75	1.0000	1.0000
L11	30	MP3-05	101.75 - 106.75	1.0000	1.0000
L11	31	MP3-05	101.75 - 106.75	1.0000	1.0000
L11	32	MP3-05	101.75 - 106.75	1.0000	1.0000
L12	2	Climbing Pegs	96.75 - 101.75	1.0000	1.0000
L12	3	Safety Line 3/8	96.75 - 101.75	1.0000	1.0000
L12	8	HB158-21U6S24-xxM_TMO(1-5/8)	96.75 - 101.75	1.0000	1.0000
L12	10	LDF7-50A(1-5/8)	96.75 - 101.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L12	22	CU12PSM9P6XXX(1-1/2)	96.75 - 101.75	1.0000	1.0000
L12	30	MP3-05	96.75 - 101.75	1.0000	1.0000
L12	31	MP3-05	96.75 - 101.75	1.0000	1.0000
L12	32	MP3-05	96.75 - 101.75	1.0000	1.0000
L13	2	Climbing Pegs	91.75 - 96.75	1.0000	1.0000
L13	3	Safety Line 3/8	91.75 - 96.75	1.0000	1.0000
L13	8	HB158-21U6S24- xxM_TMO(1-5/8)	91.75 - 96.75	1.0000	1.0000
L13	10	LDF7-50A(1-5/8)	91.75 - 96.75	1.0000	1.0000
L13	22	CU12PSM9P6XXX(1-1/2)	91.75 - 96.75	1.0000	1.0000
L13	30	MP3-05	91.75 - 96.75	1.0000	1.0000
L13	31	MP3-05	91.75 - 96.75	1.0000	1.0000
L13	32	MP3-05	91.75 - 96.75	1.0000	1.0000
L14	2	Climbing Pegs	85.96 - 91.75	1.0000	1.0000
L14	3	Safety Line 3/8	85.96 - 91.75	1.0000	1.0000
L14	8	HB158-21U6S24- xxM_TMO(1-5/8)	85.96 - 91.75	1.0000	1.0000
L14	10	LDF7-50A(1-5/8)	85.96 - 91.75	1.0000	1.0000
L14	22	CU12PSM9P6XXX(1-1/2)	85.96 - 91.75	1.0000	1.0000
L14	26	MP3-06	85.96 - 90.50	1.0000	1.0000
L14	27	MP3-06	85.96 - 90.50	1.0000	1.0000
L14	28	MP3-06	85.96 - 90.50	1.0000	1.0000
L14	30	MP3-05	88.00 - 91.75	1.0000	1.0000
L14	31	MP3-05	88.00 - 91.75	1.0000	1.0000
L14	32	MP3-05	88.00 - 91.75	1.0000	1.0000
L15	2	Climbing Pegs	84.96 - 85.96	1.0000	1.0000
L15	3	Safety Line 3/8	84.96 - 85.96	1.0000	1.0000
L15	8	HB158-21U6S24- xxM_TMO(1-5/8)	84.96 - 85.96	1.0000	1.0000
L15	10	LDF7-50A(1-5/8)	84.96 - 85.96	1.0000	1.0000
L15	22	CU12PSM9P6XXX(1-1/2)	84.96 - 85.96	1.0000	1.0000
L15	24	LDF4-50A(1/2)	84.96 - 85.00	1.0000	1.0000
L15	26	MP3-06	84.96 - 85.96	1.0000	1.0000
L15	27	MP3-06	84.96 - 85.96	1.0000	1.0000
L15	28	MP3-06	84.96 - 85.96	1.0000	1.0000
L16	2	Climbing Pegs	79.96 - 84.96	1.0000	1.0000
L16	3	Safety Line 3/8	79.96 - 84.96	1.0000	1.0000
L16	8	HB158-21U6S24- xxM_TMO(1-5/8)	79.96 - 84.96	1.0000	1.0000
L16	10	LDF7-50A(1-5/8)	79.96 - 84.96	1.0000	1.0000
L16	22	CU12PSM9P6XXX(1-1/2)	79.96 - 84.96	1.0000	1.0000
L16	24	LDF4-50A(1/2)	79.96 - 84.96	1.0000	1.0000
L16	26	MP3-06	79.96 - 84.96	1.0000	1.0000
L16	27	MP3-06	79.96 - 84.96	1.0000	1.0000
L16	28	MP3-06	79.96 - 84.96	1.0000	1.0000
L17	2	Climbing Pegs	74.96 - 79.96	1.0000	1.0000
L17	3	Safety Line 3/8	74.96 - 79.96	1.0000	1.0000
L17	8	HB158-21U6S24- xxM_TMO(1-5/8)	74.96 - 79.96	1.0000	1.0000
L17	10	LDF7-50A(1-5/8)	74.96 - 79.96	1.0000	1.0000
L17	22	CU12PSM9P6XXX(1-1/2)	74.96 - 79.96	1.0000	1.0000
L17	24	LDF4-50A(1/2)	74.96 - 79.96	1.0000	1.0000
L17	26	MP3-06	74.96 - 79.96	1.0000	1.0000
L17	27	MP3-06	74.96 - 79.96	1.0000	1.0000
L17	28	MP3-06	74.96 - 79.96	1.0000	1.0000
L18	2	Climbing Pegs	69.96 - 74.96	1.0000	1.0000
L18	3	Safety Line 3/8	69.96 - 74.96	1.0000	1.0000
L18	8	HB158-21U6S24- xxM_TMO(1-5/8)	69.96 - 74.96	1.0000	1.0000
L18	10	LDF7-50A(1-5/8)	69.96 - 74.96	1.0000	1.0000
L18	22	CU12PSM9P6XXX(1-1/2)	69.96 - 74.96	1.0000	1.0000
L18	24	LDF4-50A(1/2)	69.96 - 74.96	1.0000	1.0000
L18	26	MP3-06	69.96 - 74.96	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L18	27	MP3-06	69.96 - 74.96	1.0000	1.0000
L18	28	MP3-06	69.96 - 74.96	1.0000	1.0000
L19	2	Climbing Pegs	64.96 - 69.96	1.0000	1.0000
L19	3	Safety Line 3/8	64.96 - 69.96	1.0000	1.0000
L19	8	HB158-21U6S24-xxM_TMO(1-5/8)	64.96 - 69.96	1.0000	1.0000
L19	10	LDF7-50A(1-5/8)	64.96 - 69.96	1.0000	1.0000
L19	22	CU12PSM9P6XXX(1-1/2)	64.96 - 69.96	1.0000	1.0000
L19	24	LDF4-50A(1/2)	64.96 - 69.96	1.0000	1.0000
L19	26	MP3-06	64.96 - 69.96	1.0000	1.0000
L19	27	MP3-06	64.96 - 69.96	1.0000	1.0000
L19	28	MP3-06	64.96 - 69.96	1.0000	1.0000
L20	2	Climbing Pegs	60.50 - 64.96	1.0000	1.0000
L20	3	Safety Line 3/8	60.50 - 64.96	1.0000	1.0000
L20	8	HB158-21U6S24-xxM_TMO(1-5/8)	60.50 - 64.96	1.0000	1.0000
L20	10	LDF7-50A(1-5/8)	60.50 - 64.96	1.0000	1.0000
L20	22	CU12PSM9P6XXX(1-1/2)	60.50 - 64.96	1.0000	1.0000
L20	24	LDF4-50A(1/2)	60.50 - 64.96	1.0000	1.0000
L20	26	MP3-06	60.50 - 64.96	1.0000	1.0000
L20	27	MP3-06	60.50 - 64.96	1.0000	1.0000
L20	28	MP3-06	60.50 - 64.96	1.0000	1.0000
L21	2	Climbing Pegs	60.25 - 60.50	1.0000	1.0000
L21	3	Safety Line 3/8	60.25 - 60.50	1.0000	1.0000
L21	8	HB158-21U6S24-xxM_TMO(1-5/8)	60.25 - 60.50	1.0000	1.0000
L21	10	LDF7-50A(1-5/8)	60.25 - 60.50	1.0000	1.0000
L21	22	CU12PSM9P6XXX(1-1/2)	60.25 - 60.50	1.0000	1.0000
L21	24	LDF4-50A(1/2)	60.25 - 60.50	1.0000	1.0000
L21	26	MP3-06	60.25 - 60.50	1.0000	1.0000
L21	27	MP3-06	60.25 - 60.50	1.0000	1.0000
L21	28	MP3-06	60.25 - 60.50	1.0000	1.0000
L22	2	Climbing Pegs	55.25 - 60.25	1.0000	1.0000
L22	3	Safety Line 3/8	55.25 - 60.25	1.0000	1.0000
L22	8	HB158-21U6S24-xxM_TMO(1-5/8)	55.25 - 60.25	1.0000	1.0000
L22	10	LDF7-50A(1-5/8)	55.25 - 60.25	1.0000	1.0000
L22	22	CU12PSM9P6XXX(1-1/2)	55.25 - 60.25	1.0000	1.0000
L22	24	LDF4-50A(1/2)	55.25 - 60.25	1.0000	1.0000
L22	26	MP3-06	55.25 - 60.25	1.0000	1.0000
L22	27	MP3-06	55.25 - 60.25	1.0000	1.0000
L22	28	MP3-06	55.25 - 60.25	1.0000	1.0000
L23	2	Climbing Pegs	50.25 - 55.25	1.0000	1.0000
L23	3	Safety Line 3/8	50.25 - 55.25	1.0000	1.0000
L23	8	HB158-21U6S24-xxM_TMO(1-5/8)	50.25 - 55.25	1.0000	1.0000
L23	10	LDF7-50A(1-5/8)	50.25 - 55.25	1.0000	1.0000
L23	22	CU12PSM9P6XXX(1-1/2)	50.25 - 55.25	1.0000	1.0000
L23	24	LDF4-50A(1/2)	50.25 - 55.25	1.0000	1.0000
L23	26	MP3-06	50.25 - 55.25	1.0000	1.0000
L23	27	MP3-06	50.25 - 55.25	1.0000	1.0000
L23	28	MP3-06	50.25 - 55.25	1.0000	1.0000
L24	2	Climbing Pegs	42.41 - 50.25	1.0000	1.0000
L24	3	Safety Line 3/8	42.41 - 50.25	1.0000	1.0000
L24	8	HB158-21U6S24-xxM_TMO(1-5/8)	42.41 - 50.25	1.0000	1.0000
L24	10	LDF7-50A(1-5/8)	42.41 - 50.25	1.0000	1.0000
L24	22	CU12PSM9P6XXX(1-1/2)	42.41 - 50.25	1.0000	1.0000
L24	24	LDF4-50A(1/2)	42.41 - 50.25	1.0000	1.0000
L24	26	MP3-06	42.41 - 50.25	1.0000	1.0000
L24	27	MP3-06	42.41 - 50.25	1.0000	1.0000
L24	28	MP3-06	42.41 - 50.25	1.0000	1.0000
L25	2	Climbing Pegs	41.41 - 42.41	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L25	3	Safety Line 3/8	41.41 - 42.41	1.0000	1.0000
L25	8	HB158-21U6S24- xxM_TMO(1-5/8)	41.41 - 42.41	1.0000	1.0000
L25	10	LDF7-50A(1-5/8)	41.41 - 42.41	1.0000	1.0000
L25	22	CU12PSM9P6XXX(1-1/2)	41.41 - 42.41	1.0000	1.0000
L25	24	LDF4-50A(1/2)	41.41 - 42.41	1.0000	1.0000
L25	26	MP3-06	41.41 - 42.41	1.0000	1.0000
L25	27	MP3-06	41.41 - 42.41	1.0000	1.0000
L25	28	MP3-06	41.41 - 42.41	1.0000	1.0000
L26	2	Climbing Pegs	36.41 - 41.41	1.0000	1.0000
L26	3	Safety Line 3/8	36.41 - 41.41	1.0000	1.0000
L26	8	HB158-21U6S24- xxM_TMO(1-5/8)	36.41 - 41.41	1.0000	1.0000
L26	10	LDF7-50A(1-5/8)	36.41 - 41.41	1.0000	1.0000
L26	22	CU12PSM9P6XXX(1-1/2)	36.41 - 41.41	1.0000	1.0000
L26	24	LDF4-50A(1/2)	36.41 - 41.41	1.0000	1.0000
L26	26	MP3-06	36.41 - 41.41	1.0000	1.0000
L26	27	MP3-06	36.41 - 41.41	1.0000	1.0000
L26	28	MP3-06	36.41 - 41.41	1.0000	1.0000
L27	2	Climbing Pegs	31.41 - 36.41	1.0000	1.0000
L27	3	Safety Line 3/8	31.41 - 36.41	1.0000	1.0000
L27	8	HB158-21U6S24- xxM_TMO(1-5/8)	31.41 - 36.41	1.0000	1.0000
L27	10	LDF7-50A(1-5/8)	31.41 - 36.41	1.0000	1.0000
L27	22	CU12PSM9P6XXX(1-1/2)	31.41 - 36.41	1.0000	1.0000
L27	24	LDF4-50A(1/2)	31.41 - 36.41	1.0000	1.0000
L27	26	MP3-06	31.41 - 36.41	1.0000	1.0000
L27	27	MP3-06	31.41 - 36.41	1.0000	1.0000
L27	28	MP3-06	31.41 - 36.41	1.0000	1.0000
L28	2	Climbing Pegs	30.50 - 31.41	1.0000	1.0000
L28	3	Safety Line 3/8	30.50 - 31.41	1.0000	1.0000
L28	8	HB158-21U6S24- xxM_TMO(1-5/8)	30.50 - 31.41	1.0000	1.0000
L28	10	LDF7-50A(1-5/8)	30.50 - 31.41	1.0000	1.0000
L28	22	CU12PSM9P6XXX(1-1/2)	30.50 - 31.41	1.0000	1.0000
L28	24	LDF4-50A(1/2)	30.50 - 31.41	1.0000	1.0000
L28	26	MP3-06	30.50 - 31.41	1.0000	1.0000
L28	27	MP3-06	30.50 - 31.41	1.0000	1.0000
L28	28	MP3-06	30.50 - 31.41	1.0000	1.0000
L29	2	Climbing Pegs	30.25 - 30.50	1.0000	1.0000
L29	3	Safety Line 3/8	30.25 - 30.50	1.0000	1.0000
L29	8	HB158-21U6S24- xxM_TMO(1-5/8)	30.25 - 30.50	1.0000	1.0000
L29	10	LDF7-50A(1-5/8)	30.25 - 30.50	1.0000	1.0000
L29	22	CU12PSM9P6XXX(1-1/2)	30.25 - 30.50	1.0000	1.0000
L29	24	LDF4-50A(1/2)	30.25 - 30.50	1.0000	1.0000
L29	26	MP3-06	30.25 - 30.50	1.0000	1.0000
L29	27	MP3-06	30.25 - 30.50	1.0000	1.0000
L29	28	MP3-06	30.25 - 30.50	1.0000	1.0000
L30	2	Climbing Pegs	25.25 - 30.25	1.0000	1.0000
L30	3	Safety Line 3/8	25.25 - 30.25	1.0000	1.0000
L30	8	HB158-21U6S24- xxM_TMO(1-5/8)	25.25 - 30.25	1.0000	1.0000
L30	10	LDF7-50A(1-5/8)	25.25 - 30.25	1.0000	1.0000
L30	22	CU12PSM9P6XXX(1-1/2)	25.25 - 30.25	1.0000	1.0000
L30	24	LDF4-50A(1/2)	25.25 - 30.25	1.0000	1.0000
L30	26	MP3-06	25.25 - 30.25	1.0000	1.0000
L30	27	MP3-06	25.25 - 30.25	1.0000	1.0000
L30	28	MP3-06	25.25 - 30.25	1.0000	1.0000
L31	2	Climbing Pegs	20.25 - 25.25	1.0000	1.0000
L31	3	Safety Line 3/8	20.25 - 25.25	1.0000	1.0000
L31	8	HB158-21U6S24- xxM_TMO(1-5/8)	20.25 - 25.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L31	10	LDF7-50A(1-5/8)	20.25 - 25.25	1.0000	1.0000
L31	22	CU12PSM9P6XXX(1-1/2)	20.25 - 25.25	1.0000	1.0000
L31	24	LDF4-50A(1/2)	20.25 - 25.25	1.0000	1.0000
L31	26	MP3-06	20.25 - 25.25	1.0000	1.0000
L31	27	MP3-06	20.25 - 25.25	1.0000	1.0000
L31	28	MP3-06	20.25 - 25.25	1.0000	1.0000
L31	29	MP3-06	20.25 - 20.50	1.0000	1.0000
L32	2	Climbing Pegs	18.00 - 20.25	1.0000	1.0000
L32	3	Safety Line 3/8	18.00 - 20.25	1.0000	1.0000
L32	8	HB158-21U6S24-xxM_TMO(1-5/8)	18.00 - 20.25	1.0000	1.0000
L32	10	LDF7-50A(1-5/8)	18.00 - 20.25	1.0000	1.0000
L32	22	CU12PSM9P6XXX(1-1/2)	18.00 - 20.25	1.0000	1.0000
L32	24	LDF4-50A(1/2)	18.00 - 20.25	1.0000	1.0000
L32	26	MP3-06	18.00 - 20.25	1.0000	1.0000
L32	27	MP3-06	18.00 - 20.25	1.0000	1.0000
L32	28	MP3-06	18.00 - 20.25	1.0000	1.0000
L32	29	MP3-06	18.00 - 20.25	1.0000	1.0000
L33	2	Climbing Pegs	17.75 - 18.00	1.0000	1.0000
L33	3	Safety Line 3/8	17.75 - 18.00	1.0000	1.0000
L33	8	HB158-21U6S24-xxM_TMO(1-5/8)	17.75 - 18.00	1.0000	1.0000
L33	10	LDF7-50A(1-5/8)	17.75 - 18.00	1.0000	1.0000
L33	22	CU12PSM9P6XXX(1-1/2)	17.75 - 18.00	1.0000	1.0000
L33	24	LDF4-50A(1/2)	17.75 - 18.00	1.0000	1.0000
L33	26	MP3-06	17.75 - 18.00	1.0000	1.0000
L33	27	MP3-06	17.75 - 18.00	1.0000	1.0000
L33	28	MP3-06	17.75 - 18.00	1.0000	1.0000
L33	29	MP3-06	17.75 - 18.00	1.0000	1.0000
L34	2	Climbing Pegs	12.75 - 17.75	1.0000	1.0000
L34	3	Safety Line 3/8	12.75 - 17.75	1.0000	1.0000
L34	8	HB158-21U6S24-xxM_TMO(1-5/8)	12.75 - 17.75	1.0000	1.0000
L34	10	LDF7-50A(1-5/8)	12.75 - 17.75	1.0000	1.0000
L34	22	CU12PSM9P6XXX(1-1/2)	12.75 - 17.75	1.0000	1.0000
L34	24	LDF4-50A(1/2)	12.75 - 17.75	1.0000	1.0000
L34	26	MP3-06	12.75 - 17.75	1.0000	1.0000
L34	27	MP3-06	12.75 - 17.75	1.0000	1.0000
L34	28	MP3-06	15.50 - 17.75	1.0000	1.0000
L34	29	MP3-06	12.75 - 17.75	1.0000	1.0000
L35	2	Climbing Pegs	7.75 - 12.75	1.0000	1.0000
L35	3	Safety Line 3/8	7.75 - 12.75	1.0000	1.0000
L35	8	HB158-21U6S24-xxM_TMO(1-5/8)	7.75 - 12.75	1.0000	1.0000
L35	10	LDF7-50A(1-5/8)	7.75 - 12.75	1.0000	1.0000
L35	22	CU12PSM9P6XXX(1-1/2)	7.75 - 12.75	1.0000	1.0000
L35	24	LDF4-50A(1/2)	7.75 - 12.75	1.0000	1.0000
L35	26	MP3-06	7.75 - 12.75	1.0000	1.0000
L35	27	MP3-06	7.75 - 12.75	1.0000	1.0000
L35	29	MP3-06	7.75 - 12.75	1.0000	1.0000
L36	2	Climbing Pegs	3.92 - 7.75	1.0000	1.0000
L36	3	Safety Line 3/8	3.92 - 7.75	1.0000	1.0000
L36	8	HB158-21U6S24-xxM_TMO(1-5/8)	3.92 - 7.75	1.0000	1.0000
L36	10	LDF7-50A(1-5/8)	3.92 - 7.75	1.0000	1.0000
L36	22	CU12PSM9P6XXX(1-1/2)	3.92 - 7.75	1.0000	1.0000
L36	24	LDF4-50A(1/2)	3.92 - 7.75	1.0000	1.0000
L36	26	MP3-06	3.92 - 7.75	1.0000	1.0000
L36	27	MP3-06	3.92 - 7.75	1.0000	1.0000
L36	29	MP3-06	3.92 - 7.75	1.0000	1.0000
L37	2	Climbing Pegs	3.67 - 3.92	1.0000	1.0000
L37	3	Safety Line 3/8	3.67 - 3.92	1.0000	1.0000
L37	8	HB158-21U6S24-	3.67 - 3.92	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		xxM_TMO(1-5/8)			
L37	10	LDF7-50A(1-5/8)	3.67 - 3.92	1.0000	1.0000
L37	22	CU12PSM9P6XXX(1-1/2)	3.67 - 3.92	1.0000	1.0000
L37	24	LDF4-50A(1/2)	3.67 - 3.92	1.0000	1.0000
L37	26	MP3-06	3.67 - 3.92	1.0000	1.0000
L37	27	MP3-06	3.67 - 3.92	1.0000	1.0000
L37	29	MP3-06	3.67 - 3.92	1.0000	1.0000
L38	2	Climbing Pegs	0.00 - 3.67	1.0000	1.0000
L38	3	Safety Line 3/8	0.00 - 3.67	1.0000	1.0000
L38	8	HB158-21U6S24-	0.00 - 3.67	1.0000	1.0000
		xxM_TMO(1-5/8)			
L38	10	LDF7-50A(1-5/8)	0.00 - 3.67	1.0000	1.0000
L38	22	CU12PSM9P6XXX(1-1/2)	0.00 - 3.67	1.0000	1.0000
L38	24	LDF4-50A(1/2)	0.00 - 3.67	1.0000	1.0000
L38	26	MP3-06	0.00 - 3.67	1.0000	1.0000
L38	27	MP3-06	0.00 - 3.67	1.0000	1.0000
L38	29	MP3-06	0.00 - 3.67	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L7	30	MP3-05	117.00 - 118.00	Auto	0.3689
L7	31	MP3-05	117.00 - 118.00	Auto	0.3689
L7	32	MP3-05	117.00 - 118.00	Auto	0.3689
L8	30	MP3-05	116.75 - 117.00	Auto	0.4677
L8	31	MP3-05	116.75 - 117.00	Auto	0.4677
L8	32	MP3-05	116.75 - 117.00	Auto	0.4677
L9	30	MP3-05	111.75 - 116.75	Auto	0.4451
L9	31	MP3-05	111.75 - 116.75	Auto	0.4451
L9	32	MP3-05	111.75 - 116.75	Auto	0.4451
L10	30	MP3-05	106.75 - 111.75	Auto	0.4017
L10	31	MP3-05	106.75 - 111.75	Auto	0.4017
L10	32	MP3-05	106.75 - 111.75	Auto	0.4017
L11	30	MP3-05	101.75 - 106.75	Auto	0.3625
L11	31	MP3-05	101.75 - 106.75	Auto	0.3625
L11	32	MP3-05	101.75 - 106.75	Auto	0.3625
L12	30	MP3-05	96.75 - 101.75	Auto	0.3233
L12	31	MP3-05	96.75 - 101.75	Auto	0.3233

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L12	32	MP3-05	96.75 - 101.75	Auto	0.3233
L13	30	MP3-05	91.75 - 96.75	Auto	0.2840
L13	31	MP3-05	91.75 - 96.75	Auto	0.2840
L13	32	MP3-05	91.75 - 96.75	Auto	0.2840
L14	26	MP3-06	85.96 - 90.50	Auto	0.4134
L14	27	MP3-06	85.96 - 90.50	Auto	0.4134
L14	28	MP3-06	85.96 - 90.50	Auto	0.4134
L14	30	MP3-05	88.00 - 91.75	Auto	0.2533
L14	31	MP3-05	88.00 - 91.75	Auto	0.2533
L14	32	MP3-05	88.00 - 91.75	Auto	0.2533
L15	26	MP3-06	84.96 - 85.96	Auto	0.4590
L15	27	MP3-06	84.96 - 85.96	Auto	0.4590
L15	28	MP3-06	84.96 - 85.96	Auto	0.4590
L16	26	MP3-06	79.96 - 84.96	Auto	0.4395
L16	27	MP3-06	79.96 - 84.96	Auto	0.4395
L16	28	MP3-06	79.96 - 84.96	Auto	0.4395
L17	26	MP3-06	74.96 - 79.96	Auto	0.4059
L17	27	MP3-06	74.96 - 79.96	Auto	0.4059
L17	28	MP3-06	74.96 - 79.96	Auto	0.4059
L18	26	MP3-06	69.96 - 74.96	Auto	0.3755
L18	27	MP3-06	69.96 - 74.96	Auto	0.3755
L18	28	MP3-06	69.96 - 74.96	Auto	0.3755
L19	26	MP3-06	64.96 - 69.96	Auto	0.3451
L19	27	MP3-06	64.96 - 69.96	Auto	0.3451
L19	28	MP3-06	64.96 - 69.96	Auto	0.3451
L20	26	MP3-06	60.50 - 64.96	Auto	0.3162
L20	27	MP3-06	60.50 - 64.96	Auto	0.3162
L20	28	MP3-06	60.50 - 64.96	Auto	0.3162
L21	26	MP3-06	60.25 - 60.50	Auto	0.3033
L21	27	MP3-06	60.25 - 60.50	Auto	0.3033
L21	28	MP3-06	60.25 - 60.50	Auto	0.3033
L22	26	MP3-06	55.25 - 60.25	Auto	0.2859
L22	27	MP3-06	55.25 - 60.25	Auto	0.2859
L22	28	MP3-06	55.25 - 60.25	Auto	0.2859
L23	26	MP3-06	50.25 - 55.25	Auto	0.2587
L23	27	MP3-06	50.25 - 55.25	Auto	0.2587
L23	28	MP3-06	50.25 - 55.25	Auto	0.2587
L24	26	MP3-06	42.41 - 50.25	Auto	0.2205
L24	27	MP3-06	42.41 - 50.25	Auto	0.2205
L24	28	MP3-06	42.41 - 50.25	Auto	0.2205
L25	26	MP3-06	41.41 - 42.41	Auto	0.2284
L25	27	MP3-06	41.41 - 42.41	Auto	0.2284
L25	28	MP3-06	41.41 - 42.41	Auto	0.2284
L26	26	MP3-06	36.41 - 41.41	Auto	0.2089
L26	27	MP3-06	36.41 - 41.41	Auto	0.2089
L26	28	MP3-06	36.41 - 41.41	Auto	0.2089
L27	26	MP3-06	31.41 - 36.41	Auto	0.1817
L27	27	MP3-06	31.41 - 36.41	Auto	0.1817
L27	28	MP3-06	31.41 - 36.41	Auto	0.1817
L28	26	MP3-06	30.50 - 31.41	Auto	0.1625
L28	27	MP3-06	30.50 - 31.41	Auto	0.1625
L28	28	MP3-06	30.50 - 31.41	Auto	0.1625
L29	26	MP3-06	30.25 - 30.50	Auto	0.1593
L29	27	MP3-06	30.25 - 30.50	Auto	0.1593
L29	28	MP3-06	30.25 - 30.50	Auto	0.1593
L30	26	MP3-06	25.25 - 30.25	Auto	0.1451
L30	27	MP3-06	25.25 - 30.25	Auto	0.1451
L30	28	MP3-06	25.25 - 30.25	Auto	0.1451
L31	26	MP3-06	20.25 - 25.25	Auto	0.1147
L31	27	MP3-06	20.25 - 25.25	Auto	0.1147
L31	28	MP3-06	20.25 - 25.25	Auto	0.1147
L31	29	MP3-06	20.25 - 20.50	Auto	0.1018

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L32	26	MP3-06	18.00 - 20.25	Auto	0.0950
L32	27	MP3-06	18.00 - 20.25	Auto	0.0950
L32	28	MP3-06	18.00 - 20.25	Auto	0.0950
L32	29	MP3-06	18.00 - 20.25	Auto	0.0950
L33	26	MP3-06	17.75 - 18.00	Auto	0.0770
L33	27	MP3-06	17.75 - 18.00	Auto	0.0770
L33	28	MP3-06	17.75 - 18.00	Auto	0.0770
L33	29	MP3-06	17.75 - 18.00	Auto	0.0770
L34	26	MP3-06	12.75 - 17.75	Auto	0.0611
L34	27	MP3-06	12.75 - 17.75	Auto	0.0611
L34	28	MP3-06	15.50 - 17.75	Auto	0.0686
L34	29	MP3-06	12.75 - 17.75	Auto	0.0611
L35	26	MP3-06	7.75 - 12.75	Auto	0.0340
L35	27	MP3-06	7.75 - 12.75	Auto	0.0340
L35	29	MP3-06	7.75 - 12.75	Auto	0.0340
L36	26	MP3-06	3.92 - 7.75	Auto	0.0071
L36	27	MP3-06	3.92 - 7.75	Auto	0.0071
L36	29	MP3-06	3.92 - 7.75	Auto	0.0071
L37	26	MP3-06	3.67 - 3.92	Auto	0.0000
L37	27	MP3-06	3.67 - 3.92	Auto	0.0000
L37	29	MP3-06	3.67 - 3.92	Auto	0.0000
L38	26	MP3-06	0.00 - 3.67	Auto	0.0000
L38	27	MP3-06	0.00 - 3.67	Auto	0.0000
L38	29	MP3-06	0.00 - 3.67	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft

AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	151.00
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	151.00
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	151.00
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	151.00
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	151.00
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	151.00
APXVAALL24_43-U- NA20_TMO w/ Mount Pipe	A	From Leg	4.00 0.00	0.0000	151.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
APXVAALL24_43-U- NA20_TMO w/ Mount Pipe	B	From Leg	0.00 4.00 0.00 0.00	0.0000	151.00
APXVAALL24_43-U- NA20_TMO w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	151.00
RADIO 2212 B13	A	From Leg	4.00 0.00	0.0000	151.00
(2) RADIO 2212 B13	B	From Leg	2.00 4.00 0.00	0.0000	151.00
RADIO 4424 B25_TMO	A	From Leg	1.00 4.00 0.00	0.0000	151.00
RADIO 4424 B25_TMO	B	From Leg	2.00 4.00 0.00	0.0000	151.00
RADIO 4424 B25_TMO	C	From Leg	2.00 4.00 0.00	0.0000	151.00
RADIO 4449 B71 B85A_T- MOBILE	A	From Leg	2.00 4.00 0.00	0.0000	151.00
RADIO 4449 B71 B85A_T- MOBILE	B	From Leg	2.00 4.00 0.00	0.0000	151.00
RADIO 4449 B71 B85A_T- MOBILE	C	From Leg	2.00 4.00 0.00	0.0000	151.00
8' x 2" Mount Pipe	A	From Leg	2.00 4.00 0.00	0.0000	151.00
8' x 2" Mount Pipe	B	From Leg	0.00 4.00 0.00	0.0000	151.00
8' x 2" Mount Pipe	C	From Leg	0.00 4.00 0.00	0.0000	151.00
Transition Ladder	C	From Leg	0.00 2.00 0.00 -4.00	0.0000	151.00
HD Top Rail Kit [#HRK12-3HD]	C	None		0.0000	151.00
Miscellaneous [NA 507-1]	C	None		0.0000	151.00
Platform Mount [LP 604-1]	C	None		0.0000	151.00
*** *****					
800MHZ RRH	A	From Leg	0.50 0.00 4.00	0.0000	146.00
(2) 800MHZ RRH	B	From Leg	0.50 0.00 4.00	0.0000	146.00
(2) 800MHZ RRH	C	From Leg	0.50 0.00 4.00	0.0000	146.00
1900MHz RRH (65MHz)	A	From Leg	0.50	0.0000	146.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
			0.00		
1900MHz RRH (65MHz)	B	From Leg	2.00	0.0000	146.00
			0.50		
			0.00		
1900MHz RRH (65MHz)	C	From Leg	2.00	0.0000	146.00
			0.50		
			0.00		
800 EXTERNAL NOTCH FILTER	A	From Leg	2.00	0.0000	146.00
			0.50		
			0.00		
800 EXTERNAL NOTCH FILTER	B	From Leg	4.00	0.0000	146.00
			0.50		
			0.00		
800 EXTERNAL NOTCH FILTER	C	From Leg	4.00	0.0000	146.00
			0.50		
			0.00		
Pipe Mount [PM 601-3] *****	C	None	4.00	0.0000	146.00
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
MT6413-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
MT6413-77A w/ Mount Pipe	B	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
MT6413-77A w/ Mount Pipe	C	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
RVZDC-6627-PF-48	A	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
RF4439D-25A	A	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
RF4439D-25A	B	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
RF4439D-25A	C	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
RF4461D-13A	A	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
RF4461D-13A	B	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		
RF4461D-13A	C	From Leg	4.00	0.0000	138.00
			0.00		
			2.00		

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
4' Pipe Mount [#P2.0 STD]	B	From Leg	2.00 0.00 2.00	0.0000	138.00
8' Pipe Mount [#P2.5 STD]	A	From Leg	4.00 0.00 2.00	0.0000	138.00
8' Pipe Mount [#P2.5 STD]	B	From Leg	4.00 0.00 2.00	0.0000	138.00
8' Pipe Mount [#P2.5 STD]	C	From Leg	4.00 0.00 2.00	0.0000	138.00
Support Rail Kit [#VZWSMART-PLK1]	C	None		0.0000	138.00
Platform Mount [LP 712-1] *****	C	None		0.0000	138.00
AM-X-CD-16-65-00T-RET w/ Mount Pipe	C	From Leg	4.00 0.00 -1.00	0.0000	129.00
SBNH-1D6565C w/ Mount Pipe	A	From Leg	4.00 0.00 -1.00	0.0000	129.00
SBNH-1D6565C w/ Mount Pipe	B	From Leg	4.00 0.00 -1.00	0.0000	129.00
(2) 80010966 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	129.00
(2) 80010965 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	129.00
80010966 w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	129.00
80010966 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	129.00
RRUS 4449 B5/B12	A	From Leg	4.00 0.00 1.00	0.0000	129.00
RRUS 4449 B5/B12	B	From Leg	4.00 0.00 1.00	0.0000	129.00
RRUS 4449 B5/B12	C	From Leg	4.00 0.00 2.00	0.0000	129.00
RRUS 8843 B2/B66A	A	From Leg	4.00 0.00 0.00	0.0000	129.00
RRUS 8843 B2/B66A	B	From Leg	4.00 0.00 0.00	0.0000	129.00
RRUS 8843 B2/B66A	C	From Leg	4.00 0.00 0.00	0.0000	129.00
DC6-48-60-18-8F	B	From Leg	4.00 0.00 0.00	0.0000	129.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
DC6-48-60-18-8C-EV	B	From Leg	4.00 0.00 1.00	0.0000	129.00
Pipe Mount [PM 601-3]	C	None		0.0000	129.00
Platform Mount [LP 305- 1_HR-1] *****	C	None		0.0000	129.00
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	112.00
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	112.00
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	112.00
TA08025-B604	A	From Leg	4.00 0.00 4.00	0.0000	112.00
TA08025-B604	B	From Leg	4.00 0.00 4.00	0.0000	112.00
TA08025-B604	C	From Leg	4.00 0.00 4.00	0.0000	112.00
TA08025-B605	A	From Leg	4.00 0.00 4.00	0.0000	112.00
TA08025-B605	B	From Leg	4.00 0.00 4.00	0.0000	112.00
TA08025-B605	C	From Leg	4.00 0.00 4.00	0.0000	112.00
RDIDC-9181-PF-48	C	From Leg	4.00 0.00 1.00	0.0000	112.00
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	112.00
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	112.00
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	112.00
Valmont SNP8HR-396 *****	C	None		0.0000	112.00
KS24019-L112A	A	From Leg	3.00 0.00 0.00	0.0000	84.00
Side Arm Mount [SO 701-1]	A	From Leg	1.50 0.00 0.00	0.0000	84.00

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	150 - 145	Pole	Max Tension	42	0.00	0.00	0.00
			Max. Compression	26	-8.92	0.12	-0.55
			Max. Mx	8	-4.44	-31.91	-0.48
			Max. My	14	-4.46	-0.28	-32.12
			Max. Vy	20	-5.83	31.87	-0.03
			Max. Vx	14	5.81	-0.28	-32.12
			Max. Torque	10			-0.46
L2	145 - 140	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-9.34	0.16	-0.51
			Max. Mx	8	-4.69	-61.55	-0.63
			Max. My	14	-4.71	-0.42	-61.66
			Max. Vy	20	-6.04	61.55	0.15
			Max. Vx	14	6.01	-0.42	-61.66
			Max. Torque	10			-0.46
L3	140 - 135	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-16.47	0.08	-0.09
			Max. Mx	8	-8.27	-106.15	-0.70
			Max. My	14	-8.29	-0.63	-106.10
			Max. Vy	20	-9.60	106.02	0.41
			Max. Vx	14	9.60	-0.63	-106.10
			Max. Torque	10			-0.46
L4	135 - 130	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.08	0.12	-0.12
			Max. Mx	8	-8.68	-154.63	-0.87
			Max. My	14	-8.70	-0.77	-154.58
			Max. Vy	20	-9.81	154.56	0.57
			Max. Vx	14	9.80	-0.77	-154.58
			Max. Torque	3			0.18
L5	130 - 123.42	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-24.39	-0.13	-0.01
			Max. Mx	8	-12.46	-197.43	-0.79
			Max. My	14	-12.49	-0.74	-197.18
			Max. Vy	20	-13.63	197.24	0.50
			Max. Vx	14	13.63	-0.74	-197.18
			Max. Torque	3			0.18
L6	123.42 - 121.59	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-25.39	-0.08	-0.05
			Max. Mx	8	-13.18	-266.14	-0.77
			Max. My	14	-13.21	-0.70	-265.86
			Max. Vy	20	-13.88	266.01	0.48
			Max. Vx	14	13.86	-0.70	-265.86
			Max. Torque	5			0.06
L7	121.59 - 117	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-26.14	-0.04	-0.08
			Max. Mx	8	-13.76	-330.15	-0.76
			Max. My	14	-13.80	-0.66	-329.75
			Max. Vy	20	-14.05	330.06	0.47
			Max. Vx	14	14.01	-0.66	-329.75
			Max. Torque	5			0.06
L8	117 - 116.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-26.20	-0.04	-0.08
			Max. Mx	8	-13.82	-333.66	-0.76
			Max. My	14	-13.86	-0.65	-333.25
			Max. Vy	20	-14.07	333.58	0.47
			Max. Vx	14	14.01	-0.65	-333.25
			Max. Torque	5			0.06
L9	116.75 - 111.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-31.96	0.27	-0.27
			Max. Mx	20	-17.48	407.97	0.38
			Max. My	14	-17.55	-0.50	-406.64

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L10	111.75 - 106.75	Pole	Max. Vy	20	-16.89	407.97	0.38
			Max. Vx	14	16.56	-0.50	-406.64
			Max. Torque	3			0.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.27	0.29	-0.30
L11	106.75 - 101.75	Pole	Max. Mx	20	-18.46	493.17	0.32
			Max. My	14	-18.53	-0.41	-489.98
			Max. Vy	20	-17.20	493.17	0.32
			Max. Vx	14	16.80	-0.41	-489.98
			Max. Torque	3			0.19
L12	101.75 - 96.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.60	0.32	-0.32
			Max. Mx	20	-19.46	579.92	0.26
			Max. My	14	-19.54	-0.32	-574.53
			Max. Vy	20	-17.51	579.92	0.26
L13	96.75 - 91.75	Pole	Max. Vx	2	-17.04	0.57	574.14
			Max. Torque	3			0.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-35.95	0.34	-0.35
			Max. Mx	20	-20.49	668.18	0.20
L14	91.75 - 85.96	Pole	Max. My	14	-20.57	-0.23	-660.25
			Max. Vy	20	-17.81	668.18	0.20
			Max. Vx	2	-17.27	0.53	659.88
			Max. Torque	3			0.19
			Max Tension	1	0.00	0.00	0.00
L15	85.96 - 84.96	Pole	Max. Compression	26	-37.33	0.36	-0.38
			Max. Mx	20	-21.54	757.89	0.14
			Max. My	14	-21.62	-0.14	-747.12
			Max. Vy	20	-18.09	757.89	0.14
			Max. Vx	2	-17.50	0.48	746.77
L16	84.96 - 79.96	Pole	Max. Torque	3			0.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.83	0.37	-0.39
			Max. Mx	20	-21.89	788.96	0.12
			Max. My	14	-21.98	-0.11	-777.09
L17	79.96 - 74.96	Pole	Max. Vy	20	-18.28	788.96	0.12
			Max. Vx	2	-17.59	0.46	776.74
			Max. Torque	3			0.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-40.37	0.40	-0.42
L18	74.96 - 69.96	Pole	Max. Mx	20	-23.86	883.40	0.06
			Max. My	14	-23.96	-0.01	-867.24
			Max. Vy	20	-18.87	883.40	0.06
			Max. Vx	2	-17.92	0.42	866.90
			Max. Torque	3			0.19
L19	74.96 - 69.96	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.21	0.41	-0.12
			Max. Mx	20	-25.30	978.81	0.22
			Max. My	2	-25.40	0.37	957.48
			Max. Vy	20	-19.27	978.81	0.22
L20	74.96 - 69.96	Pole	Max. Vx	2	-18.21	0.37	957.48
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43.97	0.42	-0.14
			Max. Mx	20	-26.68	1075.91	0.16
L21	74.96 - 69.96	Pole	Max. My	2	-26.78	0.32	1049.12
			Max. Vy	20	-19.59	1075.91	0.16
			Max. Vx	2	-18.46	0.32	1049.12
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L19	69.96 - 64.96	Pole	Max. Compression	26	-45.75	0.44	-0.16
			Max. Mx	20	-28.09	1174.60	0.10
			Max. My	2	-28.18	0.27	1142.01
			Max. Vy	20	-19.90	1174.60	0.10
			Max. Vx	2	-18.71	0.27	1142.01
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47.56	0.45	-0.19
			Max. Mx	20	-29.52	1274.83	0.04
			Max. My	2	-29.61	0.23	1236.12
L20	64.96 - 60.5	Pole	Max. Vy	20	-20.20	1274.83	0.04
			Max. Vx	2	-18.95	0.23	1236.12
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.19	0.46	-0.21
			Max. Mx	20	-30.82	1365.48	-0.01
			Max. My	2	-30.91	0.19	1321.06
			Max. Vy	20	-20.47	1365.48	-0.01
			Max. Vx	2	-19.16	0.19	1321.06
			Max. Torque	5			0.22
L21	60.5 - 60.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.28	0.47	-0.21
			Max. Mx	20	-30.90	1370.60	-0.02
			Max. My	2	-30.99	0.18	1325.85
			Max. Vy	20	-20.48	1370.60	-0.02
			Max. Vx	2	-19.17	0.18	1325.85
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-51.14	0.48	-0.23
			Max. Mx	20	-32.37	1473.65	-0.08
L22	60.25 - 55.25	Pole	Max. My	2	-32.46	0.14	1422.24
			Max. Vy	20	-20.76	1473.65	-0.08
			Max. Vx	2	-19.40	0.14	1422.24
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.01	0.50	-0.26
			Max. Mx	20	-33.87	1578.07	-0.14
			Max. My	2	-33.95	0.09	1519.74
			Max. Vy	20	-21.03	1578.07	-0.14
			Max. Vx	2	-19.62	0.09	1519.74
L23	55.25 - 50.25	Pole	Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.03	0.50	-0.27
			Max. Mx	20	-34.69	1634.38	-0.17
			Max. My	2	-34.76	0.07	1572.26
			Max. Vy	20	-21.17	1634.38	-0.17
			Max. Vx	2	-19.74	0.07	1572.26
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.06	0.53	-0.30
L24	50.25 - 42.41	Pole	Max. Mx	20	-38.01	1766.28	-0.24
			Max. My	2	-38.08	0.02	1695.18
			Max. Vy	20	-21.59	1766.28	-0.24
			Max. Vx	2	-20.11	0.02	1695.18
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.13	0.54	-0.32
			Max. Mx	20	-39.70	1874.78	-0.30
			Max. My	2	-39.77	-0.03	1796.16
			Max. Vy	20	-21.83	1874.78	-0.30
L25	42.41 - 41.41	Pole	Max. Vx	2	-20.31	-0.03	1796.16
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.13	0.54	-0.32
			Max. Mx	20	-39.70	1874.78	-0.30
			Max. My	2	-39.77	-0.03	1796.16
			Max. Vy	20	-21.83	1874.78	-0.30
			Max. Vx	2	-20.31	-0.03	1796.16
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
L26	41.41 - 36.41	Pole	Max. Compression	26	-60.13	0.54	-0.32
			Max. Mx	20	-39.70	1874.78	-0.30
			Max. My	2	-39.77	-0.03	1796.16
			Max. Vy	20	-21.83	1874.78	-0.30
			Max. Vx	2	-20.31	-0.03	1796.16
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.13	0.54	-0.32
			Max. Mx	20	-39.70	1874.78	-0.30
			Max. My	2	-39.77	-0.03	1796.16

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L27	36.41 - 31.41	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.22	0.56	-0.35
			Max. Mx	20	-41.43	1984.41	-0.36
			Max. My	2	-41.49	-0.07	1898.12
			Max. Vy	20	-22.05	1984.41	-0.36
			Max. Vx	2	-20.50	-0.07	1898.12
			Max. Torque	5			0.22
L28	31.41 - 30.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.61	0.57	-0.35
			Max. Mx	20	-41.75	2004.48	-0.37
			Max. My	2	-41.80	-0.08	1916.77
			Max. Vy	20	-22.08	2004.48	-0.37
			Max. Vx	2	-20.53	-0.08	1916.77
			Max. Torque	5			0.22
L29	30.5 - 30.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.71	0.57	-0.36
			Max. Mx	20	-41.84	2010.01	-0.37
			Max. My	2	-41.89	-0.08	1921.90
			Max. Vy	20	-22.09	2010.01	-0.37
			Max. Vx	2	-20.53	-0.08	1921.90
			Max. Torque	5			0.22
L30	30.25 - 25.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-64.84	0.59	-0.38
			Max. Mx	20	-43.59	2120.94	-0.43
			Max. My	2	-43.64	-0.12	2024.98
			Max. Vy	20	-22.30	2120.94	-0.43
			Max. Vx	2	-20.72	-0.12	2024.98
			Max. Torque	5			0.22
L31	25.25 - 20.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66.99	0.61	-0.41
			Max. Mx	20	-45.38	2232.89	-0.49
			Max. My	2	-45.42	-0.17	2128.94
			Max. Vy	20	-22.50	2232.89	-0.49
			Max. Vx	2	-20.89	-0.17	2128.94
			Max. Torque	5			0.22
L32	20.25 - 18	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67.98	0.62	-0.45
			Max. Mx	20	-46.19	2283.62	-0.51
			Max. My	2	-46.23	-0.18	2176.00
			Max. Vy	20	-22.62	2283.62	-0.51
			Max. Vx	2	-20.97	-0.18	2176.00
			Max. Torque	5			0.22
L33	18 - 17.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-68.09	0.62	-0.46
			Max. Mx	20	-46.29	2289.28	-0.51
			Max. My	2	-46.32	-0.19	2181.25
			Max. Vy	20	-22.62	2289.28	-0.51
			Max. Vx	2	-20.97	-0.19	2181.25
			Max. Torque	5			0.22
L34	17.75 - 12.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-70.28	0.64	-0.51
			Max. Mx	20	-48.11	2402.88	-0.57
			Max. My	2	-48.14	-0.23	2286.49
			Max. Vy	20	-22.84	2402.88	-0.57
			Max. Vx	2	-21.14	-0.23	2286.49
			Max. Torque	5			0.22
L35	12.75 - 7.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-72.47	0.66	-0.54
			Max. Mx	20	-49.97	2517.45	-0.63
			Max. My	2	-49.98	-0.27	2392.54
			Max. Vy	20	-23.02	2517.45	-0.63
			Max. Vx	2	-21.31	-0.27	2392.54
			Max. Torque	5			0.22

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L36	7.75 - 3.916	Pole	Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.15	0.68	-0.56
			Max. Mx	20	-51.41	2605.91	-0.67
			Max. My	2	-51.42	-0.30	2474.42
			Max. Vy	20	-23.15	2605.91	-0.67
L37	3.916 - 3.666	Pole	Max. Vx	2	-21.44	-0.30	2474.42
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.25	0.68	-0.56
			Max. Mx	20	-51.51	2611.69	-0.67
			Max. My	2	-51.52	-0.30	2479.77
L38	3.666 - 0	Pole	Max. Vy	20	-23.15	2611.69	-0.67
			Max. Vx	2	-21.43	-0.30	2479.77
			Max. Torque	5			0.22
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-75.78	0.71	-0.58
			Max. Mx	20	-52.83	2696.76	-0.71
			Max. My	2	-52.83	-0.33	2558.52
			Max. Vy	20	-23.28	2696.76	-0.71
			Max. Vx	2	-21.56	-0.33	2558.52
			Max. Torque	5			0.22

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	36	75.78	5.82	-0.00
	Max. H _x	20	52.84	23.26	-0.01
	Max. H _z	2	52.84	-0.01	21.53
	Max. M _x	2	2558.52	-0.01	21.53
	Max. M _z	8	2695.48	-23.26	0.01
	Max. Torsion	5	0.22	-11.15	19.32
	Min. Vert	7	39.63	-18.67	10.80
	Min. H _x	8	52.84	-23.26	0.01
	Min. H _z	14	52.84	0.01	-21.53
	Min. M _x	14	-2558.01	0.01	-21.53
	Min. M _z	20	-2696.76	23.26	-0.01
	Min. Torsion	17	-0.22	11.15	-19.32

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	44.04	0.00	0.00	-0.21	0.51	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	52.84	0.01	-21.53	-2558.52	-0.33	-0.18
0.9 Dead+1.0 Wind 0 deg - No Ice	39.63	0.01	-21.53	-2515.38	-0.49	-0.19
1.2 Dead+1.0 Wind 30 deg - No Ice	52.84	11.15	-19.32	-2267.59	-1306.62	-0.22
0.9 Dead+1.0 Wind 30 deg - No Ice	39.63	11.15	-19.32	-2229.63	-1284.96	-0.22

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 60 deg - No Ice	52.84	18.67	-10.80	-1282.99	-2216.10	-0.19
0.9 Dead+1.0 Wind 60 deg - No Ice	39.63	18.67	-10.80	-1261.33	-2178.94	-0.19
1.2 Dead+1.0 Wind 90 deg - No Ice	52.84	23.26	-0.01	-1.23	-2695.48	-0.08
0.9 Dead+1.0 Wind 90 deg - No Ice	39.63	23.26	-0.01	-1.16	-2650.93	-0.09
1.2 Dead+1.0 Wind 120 deg - No Ice	52.84	18.68	10.79	1282.36	-2217.83	-0.01
0.9 Dead+1.0 Wind 120 deg - No Ice	39.63	18.68	10.79	1260.82	-2180.65	-0.01
1.2 Dead+1.0 Wind 150 deg - No Ice	52.84	10.98	19.05	2251.09	-1296.27	0.10
0.9 Dead+1.0 Wind 150 deg - No Ice	39.63	10.98	19.05	2213.40	-1274.69	0.10
1.2 Dead+1.0 Wind 180 deg - No Ice	52.84	-0.01	21.53	2558.01	1.61	0.18
0.9 Dead+1.0 Wind 180 deg - No Ice	39.63	-0.01	21.53	2514.99	1.44	0.18
1.2 Dead+1.0 Wind 210 deg - No Ice	52.84	-11.15	19.32	2267.07	1307.90	0.21
0.9 Dead+1.0 Wind 210 deg - No Ice	39.63	-11.15	19.32	2229.25	1285.91	0.22
1.2 Dead+1.0 Wind 240 deg - No Ice	52.84	-18.67	10.80	1282.48	2217.38	0.19
0.9 Dead+1.0 Wind 240 deg - No Ice	39.63	-18.67	10.80	1260.95	2179.89	0.20
1.2 Dead+1.0 Wind 270 deg - No Ice	52.84	-23.26	0.01	0.71	2696.76	0.09
0.9 Dead+1.0 Wind 270 deg - No Ice	39.63	-23.26	0.01	0.78	2651.88	0.09
1.2 Dead+1.0 Wind 300 deg - No Ice	52.84	-18.68	-10.79	-1282.88	2219.12	0.01
0.9 Dead+1.0 Wind 300 deg - No Ice	39.63	-18.68	-10.79	-1261.20	2181.60	0.01
1.2 Dead+1.0 Wind 330 deg - No Ice	52.84	-10.98	-19.05	-2251.60	1297.55	-0.10
0.9 Dead+1.0 Wind 330 deg - No Ice	39.63	-10.98	-19.05	-2213.79	1275.64	-0.10
1.2 Dead+1.0 Ice+1.0 Temp	75.78	0.00	0.00	0.58	0.71	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	75.78	0.00	-5.75	-682.97	0.69	-0.05
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	75.78	2.88	-4.98	-591.44	-340.83	-0.04
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	75.78	4.98	-2.88	-341.26	-590.81	-0.03
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	75.78	5.82	-0.00	0.54	-689.86	0.01
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	75.78	4.98	2.87	342.36	-590.70	0.03
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	75.78	2.87	4.98	592.63	-340.64	0.04
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	75.78	-0.00	5.75	684.27	0.91	0.05
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	75.78	-2.88	4.98	592.73	342.43	0.04
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	75.78	-4.98	2.88	342.55	592.41	0.03
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	75.78	-5.82	0.00	0.75	691.47	-0.01
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	75.78	-4.98	-2.87	-341.07	592.30	-0.03

Load Combination	Vertical K	Shear _x K	Shear _y K	Overturning Moment, M _x kip-ft	Overturning Moment, M _y kip-ft	Torque kip-ft
Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330 deg+1.0	75.78	-2.87	-4.98	-591.33	342.24	-0.04
Ice+1.0 Temp						
Dead+Wind 0 deg - Service	44.04	0.00	-5.34	-628.03	0.29	-0.03
Dead+Wind 30 deg - Service	44.04	2.76	-4.79	-556.69	-320.31	-0.04
Dead+Wind 60 deg - Service	44.04	4.63	-2.68	-315.01	-543.48	-0.04
Dead+Wind 90 deg - Service	44.04	5.76	-0.00	-0.45	-661.24	-0.01
Dead+Wind 120 deg - Service	44.04	4.63	2.67	314.55	-543.90	-0.00
Dead+Wind 150 deg - Service	44.04	2.72	4.72	552.32	-317.76	0.02
Dead+Wind 180 deg - Service	44.04	-0.00	5.34	627.60	0.77	0.03
Dead+Wind 210 deg - Service	44.04	-2.76	4.79	556.26	321.38	0.04
Dead+Wind 240 deg - Service	44.04	-4.63	2.68	314.58	544.54	0.04
Dead+Wind 270 deg - Service	44.04	-5.76	0.00	0.03	662.31	0.02
Dead+Wind 300 deg - Service	44.04	-4.63	-2.67	-314.98	544.97	0.00
Dead+Wind 330 deg - Service	44.04	-2.72	-4.72	-552.75	318.83	-0.02

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-44.04	0.00	0.00	44.04	0.00	0.000%
2	0.01	-52.84	-21.53	-0.01	52.84	21.53	0.000%
3	0.01	-39.63	-21.53	-0.01	39.63	21.53	0.000%
4	11.15	-52.84	-19.32	-11.15	52.84	19.32	0.000%
5	11.15	-39.63	-19.32	-11.15	39.63	19.32	0.000%
6	18.67	-52.84	-10.80	-18.67	52.84	10.80	0.000%
7	18.67	-39.63	-10.80	-18.67	39.63	10.80	0.000%
8	23.26	-52.84	-0.01	-23.26	52.84	0.01	0.000%
9	23.26	-39.63	-0.01	-23.26	39.63	0.01	0.000%
10	18.68	-52.84	10.79	-18.68	52.84	-10.79	0.000%
11	18.68	-39.63	10.79	-18.68	39.63	-10.79	0.000%
12	10.98	-52.84	19.05	-10.98	52.84	-19.05	0.000%
13	10.98	-39.63	19.05	-10.98	39.63	-19.05	0.000%
14	-0.01	-52.84	21.53	0.01	52.84	-21.53	0.000%
15	-0.01	-39.63	21.53	0.01	39.63	-21.53	0.000%
16	-11.15	-52.84	19.32	11.15	52.84	-19.32	0.000%
17	-11.15	-39.63	19.32	11.15	39.63	-19.32	0.000%
18	-18.67	-52.84	10.80	18.67	52.84	-10.80	0.000%
19	-18.67	-39.63	10.80	18.67	39.63	-10.80	0.000%
20	-23.26	-52.84	0.01	23.26	52.84	-0.01	0.000%
21	-23.26	-39.63	0.01	23.26	39.63	-0.01	0.000%
22	-18.68	-52.84	-10.79	18.68	52.84	10.79	0.000%
23	-18.68	-39.63	-10.79	18.68	39.63	10.79	0.000%
24	-10.98	-52.84	-19.05	10.98	52.84	19.05	0.000%
25	-10.98	-39.63	-19.05	10.98	39.63	19.05	0.000%
26	0.00	-75.78	0.00	0.00	75.78	0.00	0.000%
27	0.00	-75.78	-5.75	-0.00	75.78	5.75	0.000%
28	2.88	-75.78	-4.98	-2.88	75.78	4.98	0.000%
29	4.98	-75.78	-2.88	-4.98	75.78	2.88	0.000%
30	5.82	-75.78	-0.00	-5.82	75.78	0.00	0.000%
31	4.98	-75.78	2.87	-4.98	75.78	-2.87	0.000%
32	2.87	-75.78	4.98	-2.87	75.78	-4.98	0.000%
33	-0.00	-75.78	5.75	0.00	75.78	-5.75	0.000%
34	-2.88	-75.78	4.98	2.88	75.78	-4.98	0.000%
35	-4.98	-75.78	2.88	4.98	75.78	-2.88	0.000%
36	-5.82	-75.78	0.00	5.82	75.78	-0.00	0.000%
37	-4.98	-75.78	-2.87	4.98	75.78	2.87	0.000%
38	-2.87	-75.78	-4.98	2.87	75.78	4.98	0.000%
39	0.00	-44.04	-5.34	-0.00	44.04	5.34	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
40	2.76	-44.04	-4.79	-2.76	44.04	4.79	0.000%
41	4.63	-44.04	-2.68	-4.63	44.04	2.68	0.000%
42	5.76	-44.04	-0.00	-5.76	44.04	0.00	0.000%
43	4.63	-44.04	2.67	-4.63	44.04	-2.67	0.000%
44	2.72	-44.04	4.72	-2.72	44.04	-4.72	0.000%
45	-0.00	-44.04	5.34	0.00	44.04	-5.34	0.000%
46	-2.76	-44.04	4.79	2.76	44.04	-4.79	0.000%
47	-4.63	-44.04	2.68	4.63	44.04	-2.68	0.000%
48	-5.76	-44.04	0.00	5.76	44.04	-0.00	0.000%
49	-4.63	-44.04	-2.67	4.63	44.04	2.67	0.000%
50	-2.72	-44.04	-4.72	2.72	44.04	4.72	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00037928
3	Yes	5	0.00000001	0.00015705
4	Yes	7	0.00000001	0.00015693
5	Yes	6	0.00000001	0.00071438
6	Yes	7	0.00000001	0.00015472
7	Yes	6	0.00000001	0.00070671
8	Yes	5	0.00000001	0.00034164
9	Yes	5	0.00000001	0.00013036
10	Yes	7	0.00000001	0.00015461
11	Yes	6	0.00000001	0.00070595
12	Yes	7	0.00000001	0.00015619
13	Yes	6	0.00000001	0.00071179
14	Yes	5	0.00000001	0.00038691
15	Yes	5	0.00000001	0.00016181
16	Yes	7	0.00000001	0.00015827
17	Yes	6	0.00000001	0.00072086
18	Yes	7	0.00000001	0.00015394
19	Yes	6	0.00000001	0.00070261
20	Yes	5	0.00000001	0.00033955
21	Yes	5	0.00000001	0.00012884
22	Yes	7	0.00000001	0.00015436
23	Yes	6	0.00000001	0.00070469
24	Yes	7	0.00000001	0.00015716
25	Yes	6	0.00000001	0.00071641
26	Yes	4	0.00000001	0.00000001
27	Yes	6	0.00000001	0.00085146
28	Yes	7	0.00000001	0.00014294
29	Yes	7	0.00000001	0.00014294
30	Yes	6	0.00000001	0.00085687
31	Yes	7	0.00000001	0.00014347
32	Yes	7	0.00000001	0.00014332
33	Yes	6	0.00000001	0.00085350
34	Yes	7	0.00000001	0.00014383
35	Yes	7	0.00000001	0.00014367
36	Yes	6	0.00000001	0.00085927
37	Yes	7	0.00000001	0.00014333
38	Yes	7	0.00000001	0.00014364
39	Yes	4	0.00000001	0.00091475
40	Yes	5	0.00000001	0.00042263
41	Yes	5	0.00000001	0.00041567
42	Yes	4	0.00000001	0.00093752

43	Yes	5	0.00000001	0.00041576
44	Yes	5	0.00000001	0.00042016
45	Yes	4	0.00000001	0.00091532
46	Yes	5	0.00000001	0.00043071
47	Yes	5	0.00000001	0.00041270
48	Yes	4	0.00000001	0.00093872
49	Yes	5	0.00000001	0.00041438
50	Yes	5	0.00000001	0.00042668

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	25.525	48	1.7516	0.0019
L2	145 - 140	23.700	48	1.7301	0.0012
L3	140 - 135	21.911	48	1.6818	0.0007
L4	135 - 130	20.185	48	1.6116	0.0005
L5	130 - 123.42	18.545	48	1.5182	0.0003
L6	126.59 - 121.59	17.486	48	1.4441	0.0002
L7	121.59 - 117	16.006	48	1.3711	0.0002
L8	117 - 116.75	14.737	48	1.2685	0.0002
L9	116.75 - 111.75	14.670	48	1.2658	0.0002
L10	111.75 - 106.75	13.374	48	1.2093	0.0002
L11	106.75 - 101.75	12.140	48	1.1469	0.0002
L12	101.75 - 96.75	10.974	48	1.0806	0.0002
L13	96.75 - 91.75	9.878	48	1.0113	0.0001
L14	91.75 - 85.96	8.857	48	0.9396	0.0001
L15	90.04 - 84.96	8.525	48	0.9151	0.0001
L16	84.96 - 79.96	7.568	48	0.8785	0.0001
L17	79.96 - 74.96	6.678	48	0.8224	0.0001
L18	74.96 - 69.96	5.847	48	0.7650	0.0001
L19	69.96 - 64.96	5.076	48	0.7075	0.0001
L20	64.96 - 60.5	4.365	48	0.6501	0.0001
L21	60.5 - 60.25	3.782	48	0.5989	0.0001
L22	60.25 - 55.25	3.751	48	0.5961	0.0001
L23	55.25 - 50.25	3.157	48	0.5389	0.0001
L24	50.25 - 42.41	2.622	48	0.4830	0.0000
L25	47.58 - 41.41	2.360	48	0.4532	0.0000
L26	41.41 - 36.41	1.796	48	0.4152	0.0000
L27	36.41 - 31.41	1.388	48	0.3635	0.0000
L28	31.41 - 30.5	1.034	48	0.3132	0.0000
L29	30.5 - 30.25	0.975	48	0.3041	0.0000
L30	30.25 - 25.25	0.959	48	0.3016	0.0000
L31	25.25 - 20.25	0.670	48	0.2521	0.0000
L32	20.25 - 18	0.431	48	0.2030	0.0000
L33	18 - 17.75	0.341	48	0.1814	0.0000
L34	17.75 - 12.75	0.331	48	0.1788	0.0000
L35	12.75 - 7.75	0.171	48	0.1277	0.0000
L36	7.75 - 3.916	0.064	48	0.0779	0.0000
L37	3.916 - 3.666	0.016	48	0.0398	0.0000
L38	3.666 - 0	0.014	48	0.0373	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
151.00	AIR6449 B41_T-MOBILE w/ Mount Pipe	48	25.525	1.7516	0.0019	7789
146.00	800MHZ RRH	48	24.063	1.7361	0.0014	7789
138.00	(2) MX06FRO660-03 w/ Mount Pipe	48	21.212	1.6560	0.0006	4190
129.00	AM-X-CD-16-65-00T-RET w/ Mount Pipe	48	18.230	1.4953	0.0003	3036
112.00	MX08FRO665-21 w/ Mount Pipe	48	13.437	1.2123	0.0002	4847
84.00	KS24019-L112A	48	7.393	0.8700	0.0001	5689

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
L1	150 - 145	104.075	20	7.1554	0.0081
L2	145 - 140	96.636	20	7.0675	0.0056
L3	140 - 135	89.349	20	6.8703	0.0038
L4	135 - 130	82.311	20	6.5832	0.0027
L5	130 - 123.42	75.624	20	6.2013	0.0019
L6	126.59 - 121.59	71.309	20	5.8979	0.0016
L7	121.59 - 117	65.272	20	5.5992	0.0014
L8	117 - 116.75	60.096	20	5.1796	0.0013
L9	116.75 - 111.75	59.826	20	5.1687	0.0013
L10	111.75 - 106.75	54.540	20	4.9376	0.0012
L11	106.75 - 101.75	49.508	20	4.6825	0.0010
L12	101.75 - 96.75	44.750	20	4.4114	0.0009
L13	96.75 - 91.75	40.283	20	4.1281	0.0008
L14	91.75 - 85.96	36.116	20	3.8354	0.0007
L15	90.04 - 84.96	34.762	20	3.7352	0.0007
L16	84.96 - 79.96	30.861	20	3.5854	0.0007
L17	79.96 - 74.96	27.229	20	3.3561	0.0006
L18	74.96 - 69.96	23.839	20	3.1216	0.0005
L19	69.96 - 64.96	20.695	20	2.8869	0.0005
L20	64.96 - 60.5	17.796	20	2.6523	0.0004
L21	60.5 - 60.25	15.417	20	2.4432	0.0004
L22	60.25 - 55.25	15.290	20	2.4316	0.0004
L23	55.25 - 50.25	12.867	20	2.1980	0.0003
L24	50.25 - 42.41	10.685	20	1.9699	0.0003
L25	47.58 - 41.41	9.618	20	1.8479	0.0002
L26	41.41 - 36.41	7.319	20	1.6928	0.0002
L27	36.41 - 31.41	5.658	20	1.4819	0.0002
L28	31.41 - 30.5	4.214	20	1.2769	0.0002
L29	30.5 - 30.25	3.974	20	1.2397	0.0002
L30	30.25 - 25.25	3.909	20	1.2295	0.0001
L31	25.25 - 20.25	2.728	20	1.0276	0.0001
L32	20.25 - 18	1.757	20	0.8273	0.0001
L33	18 - 17.75	1.388	20	0.7391	0.0001
L34	17.75 - 12.75	1.350	20	0.7286	0.0001
L35	12.75 - 7.75	0.697	20	0.5200	0.0001
L36	7.75 - 3.916	0.259	20	0.3172	0.0000
L37	3.916 - 3.666	0.066	20	0.1621	0.0000
L38	3.666 - 0	0.058	20	0.1519	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
151.00	AIR6449 B41_T-MOBILE w/ Mount Pipe	20	104.075	7.1554	0.0081	2012
146.00	800MHZ RRH	20	98.116	7.0920	0.0061	2012
138.00	(2) MX06FRO660-03 w/ Mount Pipe	20	86.498	6.7648	0.0033	1064
129.00	AM-X-CD-16-65-00T-RET w/ Mount Pipe	20	74.339	6.1074	0.0018	763
112.00	MX08FRO665-21 w/ Mount Pipe	20	54.798	4.9499	0.0012	1202
84.00	KS24019-L112A	20	30.146	3.5509	0.0007	1402

Compression Checks

Pole Design Data

Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in ²	K	K	
L1	150 - 145 (1)	TP16.0798x15x0.1875	5.00	0.00	0.0	9.4579	-4.45	553.29	0.008
L2	145 - 140 (2)	TP17.1595x16.0798x0.1875	5.00	0.00	0.0	10.1005	-4.70	590.88	0.008
L3	140 - 135 (3)	TP18.2393x17.1595x0.1875	5.00	0.00	0.0	10.7431	-8.28	628.47	0.013
L4	135 - 130 (4)	TP19.319x18.2393x0.1875	5.00	0.00	0.0	11.3857	-8.69	666.06	0.013
L5	130 - 123.42 (5)	TP20.74x19.319x0.1875	6.58	0.00	0.0	11.8239	-12.48	691.70	0.018
L6	123.42 - 121.59 (6)	TP20.7436x19.6804x0.25	5.00	0.00	0.0	16.2617	-13.20	951.31	0.014
L7	121.59 - 117 (7)	TP21.7197x20.7436x0.25	4.59	0.00	0.0	17.0362	-13.79	996.62	0.014
L8	117 - 116.75 (8)	TP21.7728x21.7197x0.5625	0.25	0.00	0.0	37.8684	-13.85	2215.30	0.006
L9	116.75 - 111.75 (9)	TP22.836x21.7728x0.55	5.00	0.00	0.0	38.9047	-17.48	2275.92	0.008
L10	111.75 - 106.75 (10)	TP23.8992x22.836x0.525	5.00	0.00	0.0	38.9496	-18.46	2278.55	0.008
L11	106.75 - 101.75 (11)	TP24.9624x23.8992x0.5125	5.00	0.00	0.0	39.7721	-19.46	2326.67	0.008
L12	101.75 - 96.75 (12)	TP26.0256x24.9624x0.5	5.00	0.00	0.0	40.5091	-20.49	2369.79	0.009
L13	96.75 - 91.75 (13)	TP27.0888x26.0256x0.4875	5.00	0.00	0.0	41.1609	-21.54	2407.91	0.009
L14	91.75 - 85.96 (14)	TP28.32x27.0888x0.4875	5.79	0.00	0.0	41.7235	-21.89	2440.83	0.009
L15	85.96 - 84.96 (15)	TP28.0347x26.9524x0.675	5.08	0.00	0.0	58.6168	-23.86	3429.08	0.007
L16	84.96 - 79.96 (16)	TP29.1x28.0347x0.6625	5.00	0.00	0.0	59.7976	-25.30	3498.16	0.007
L17	79.96 - 74.96 (17)	TP30.1652x29.1x0.6375	5.00	0.00	0.0	59.7471	-26.68	3495.21	0.008
L18	74.96 - 69.96 (18)	TP31.2305x30.1652x0.625	5.00	0.00	0.0	60.7136	-28.09	3551.75	0.008
L19	69.96 - 64.96 (19)	TP32.2957x31.2305x0.6125	5.00	0.00	0.0	61.5946	-29.52	3603.28	0.008
L20	64.96 - 60.5 (20)	TP33.2459x32.2957x0.6	4.46	0.00	0.0	62.1709	-30.82	3637.00	0.008
L21	60.5 - 60.25 (21)	TP33.2992x33.2459x0.6	0.25	0.00	0.0	62.2723	-30.90	3642.93	0.008
L22	60.25 - 55.25	TP34.3644x33.2992x0.5875	5.00	0.00	0.0	62.9847	-32.37	3684.60	0.009

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L23	(22) 55.25 - 50.25	TP35.4297x34.3644x0.5875	5.00	0.00	0.0	64.9711	-33.87	3800.81	0.009
L24	(23) 50.25 - 42.41	TP37.1x35.4297x0.575	7.84	0.00	0.0	64.6497	-34.69	3782.01	0.009
L25	(24) 42.41 - 41.41	TP36.6867x35.3735x0.6375	6.17	0.00	0.0	72.9428	-38.01	4267.16	0.009
L26	(25) 41.41 - 36.41	TP37.7508x36.6867x0.625	5.00	0.00	0.0	73.6484	-39.70	4308.43	0.009
L27	(26) 36.41 - 31.41	TP38.815x37.7508x0.625	5.00	0.00	0.0	74.9150	-40.75	4382.53	0.009
L28	(27) 31.41 - 30.5	TP39.0087x38.815x0.6125	0.91	0.00	0.0	74.2685	-41.44	4344.71	0.010
L29	(28) 30.5 - 30.25	TP39.0619x39.0087x0.6125	0.25	0.00	0.0	74.6450	-41.76	4366.74	0.010
L30	(29) 30.25 - 25.25	TP40.126x39.0619x0.6125	5.00	0.00	0.0	74.7485	-41.85	4372.79	0.010
L31	(30) 25.25 - 20.25	TP41.1902x40.126x0.6	5.00	0.00	0.0	75.2734	-43.61	4403.49	0.010
L32	(31) 20.25 - 18 (32)	TP41.6691x41.1902x0.6	2.25	0.00	0.0	77.2999	-45.39	4522.05	0.010
L33	(32) 18 - 17.75 (33)	TP41.7223x41.6691x0.5563	0.25	0.00	0.0	72.5862	-46.20	4246.29	0.011
L34	(33) 17.75 - 12.75	TP42.7864x41.7223x0.55	5.00	0.00	0.0	71.8744	-46.30	4204.65	0.011
L35	(34) 12.75 - 7.75	TP43.8506x42.7864x0.55	5.00	0.00	0.0	73.7321	-48.13	4313.33	0.011
L36	(35) 7.75 - 3.916	TP44.6666x43.8506x0.5375	3.83	0.00	0.0	73.8932	-49.99	4322.75	0.012
L37	(36) 3.916 - 3.666	TP44.7198x44.6666x0.525	0.25	0.00	0.0	73.5553	-51.42	4302.98	0.012
L38	(37) 3.666 - 0 (38)	TP45.5x44.7198x0.5125	3.67	0.00	0.0	71.9109	-51.52	4206.78	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{rx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M _{uy} kip-ft	φM _{ry} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
L1	150 - 145 (1)	TP16.0798x15x0.1875	32.31	228.74	0.141	0.00	228.74	0.000
L2	145 - 140 (2)	TP17.1595x16.0798x0.1875	62.00	261.07	0.237	0.00	261.07	0.000
L3	140 - 135 (3)	TP18.2393x17.1595x0.1875	106.63	294.64	0.362	0.00	294.64	0.000
L4	135 - 130 (4)	TP19.319x18.2393x0.1875	155.24	326.33	0.476	0.00	326.33	0.000
L5	130 - 123.42 (5)	TP20.74x19.319x0.1875	197.82	348.54	0.568	0.00	348.54	0.000
L6	123.42 - 121.59 (6)	TP20.7436x19.6804x0.25	266.45	506.96	0.526	0.00	506.96	0.000
L7	121.59 - 117 (7)	TP21.7197x20.7436x0.25	330.29	556.70	0.593	0.00	556.70	0.000
L8	117 - 116.75 (8)	TP21.7728x21.7197x0.5625	333.78	1204.78	0.277	0.00	1204.78	0.000
L9	116.75 - 111.75 (9)	TP22.836x21.7728x0.55	407.97	1302.86	0.313	0.00	1302.86	0.000
L10	111.75 - 106.75 (10)	TP23.8992x22.836x0.525	493.17	1371.03	0.360	0.00	1371.03	0.000
L11	106.75 - 101.75 (11)	TP24.9624x23.8992x0.5125	579.92	1466.56	0.395	0.00	1466.56	0.000
L12	101.75 - 96.75 (12)	TP26.0256x24.9624x0.5	668.18	1561.55	0.428	0.00	1561.55	0.000
L13	96.75 - 91.75 (13)	TP27.0888x26.0256x0.4875	757.89	1655.59	0.458	0.00	1655.59	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L14	91.75 - 85.96 (14)	TP28.32x27.0888x0.4875	788.96	1701.58	0.464	0.00	1701.58	0.000
L15	85.96 - 84.96 (15)	TP28.0347x26.9524x0.675	883.40	2409.92	0.367	0.00	2409.92	0.000
L16	84.96 - 79.96 (16)	TP29.1x28.0347x0.6625	978.81	2558.73	0.383	0.00	2558.73	0.000
L17	79.96 - 74.96 (17)	TP30.1652x29.1x0.6375	1075.91	2659.03	0.405	0.00	2659.03	0.000
L18	74.96 - 69.96 (18)	TP31.2305x30.1652x0.625	1174.60	2803.87	0.419	0.00	2803.87	0.000
L19	69.96 - 64.96 (19)	TP32.2957x31.2305x0.6125	1274.83	2947.87	0.432	0.00	2947.87	0.000
L20	64.96 - 60.5 (20)	TP33.2459x32.2957x0.6	1365.48	3068.73	0.445	0.00	3068.73	0.000
L21	60.5 - 60.25 (21)	TP33.2992x33.2459x0.6	1370.60	3078.84	0.445	0.00	3078.84	0.000
L22	60.25 - 55.25 (22)	TP34.3644x33.2992x0.5875	1473.65	3219.72	0.458	0.00	3219.72	0.000
L23	55.25 - 50.25 (23)	TP35.4297x34.3644x0.5875	1578.08	3427.80	0.460	0.00	3427.80	0.000
L24	50.25 - 42.41 (24)	TP37.1x35.4297x0.575	1634.38	3469.91	0.471	0.00	3469.91	0.000
L25	42.41 - 41.41 (25)	TP36.6867x35.3735x0.6375	1766.28	3978.48	0.444	0.00	3978.48	0.000
L26	41.41 - 36.41 (26)	TP37.7508x36.6867x0.625	1874.78	4140.39	0.453	0.00	4140.39	0.000
L27	36.41 - 31.41 (27)	TP38.815x37.7508x0.625	1940.42	4285.23	0.453	0.00	4285.23	0.000
L28	31.41 - 30.5 (28)	TP39.0087x38.815x0.6125	1984.42	4299.73	0.462	0.00	4299.73	0.000
L29	30.5 - 30.25 (29)	TP39.0619x39.0087x0.6125	2004.48	4343.78	0.461	0.00	4343.78	0.000
L30	30.25 - 25.25 (30)	TP40.126x39.0619x0.6125	2010.01	4355.93	0.461	0.00	4355.93	0.000
L31	25.25 - 20.25 (31)	TP41.1902x40.126x0.6	2120.94	4512.68	0.470	0.00	4512.68	0.000
L32	20.25 - 18 (32)	TP41.6691x41.1902x0.6	2232.89	4760.80	0.469	0.00	4760.80	0.000
L33	18 - 17.75 (33)	TP41.7223x41.6691x0.5563	2283.62	4533.63	0.504	0.00	4533.63	0.000
L34	17.75 - 12.75 (34)	TP42.7864x41.7223x0.55	2289.28	4496.43	0.509	0.00	4496.43	0.000
L35	12.75 - 7.75 (35)	TP43.8506x42.7864x0.55	2402.88	4733.44	0.508	0.00	4733.44	0.000
L36	7.75 - 3.916 (36)	TP44.6666x43.8506x0.5375	2517.45	4867.65	0.517	0.00	4867.65	0.000
L37	3.916 - 3.666 (37)	TP44.7198x44.6666x0.525	2605.91	4940.59	0.527	0.00	4940.59	0.000
L38	3.666 - 0 (38)	TP45.5x44.7198x0.5125	2611.69	4838.76	0.540	0.00	4838.76	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	150 - 145 (1)	TP16.0798x15x0.1875	5.84	165.99	0.035	0.40	231.01	0.002
L2	145 - 140 (2)	TP17.1595x16.0798x0.1875	6.05	177.26	0.034	0.40	263.47	0.002
L3	140 - 135 (3)	TP18.2393x17.1595x0.1875	9.63	188.54	0.051	0.18	298.06	0.001
L4	135 - 130 (4)	TP19.319x18.2393x0.1875	9.83	199.82	0.049	0.18	334.78	0.001
L5	130 - 123.42	TP20.74x19.319x0.1875	13.62	207.51	0.066	0.02	361.05	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio V_u ϕV_n	Actual T_u kip-ft	ϕT_n kip-ft	Ratio T_u ϕT_n
L6	(5) 123.42 - 121.59 (6)	TP20.7436x19.6804x0.25	13.85	285.39	0.049	0.02	512.20	0.000
L7	121.59 - 117 (7)	TP21.7197x20.7436x0.25	14.00	298.99	0.047	0.02	562.15	0.000
L8	117 - 116.75 (8)	TP21.7728x21.7197x0.5625	14.01	664.59	0.021	0.02	1234.47	0.000
L9	116.75 - 111.75 (9)	TP22.836x21.7728x0.55	16.89	682.78	0.025	0.06	1332.58	0.000
L10	111.75 - 106.75 (10)	TP23.8992x22.836x0.525	17.20	683.57	0.025	0.06	1399.26	0.000
L11	106.75 - 101.75 (11)	TP24.9624x23.8992x0.5125	17.51	698.00	0.025	0.06	1494.56	0.000
L12	101.75 - 96.75 (12)	TP26.0256x24.9624x0.5	17.81	710.94	0.025	0.06	1589.22	0.000
L13	96.75 - 91.75 (13)	TP27.0888x26.0256x0.4875	18.09	722.37	0.025	0.06	1682.85	0.000
L14	91.75 - 85.96 (14)	TP28.32x27.0888x0.4875	18.28	732.25	0.025	0.07	1729.17	0.000
L15	85.96 - 84.96 (15)	TP28.0347x26.9524x0.675	18.87	1028.73	0.018	0.08	2464.85	0.000
L16	84.96 - 79.96 (16)	TP29.1x28.0347x0.6625	19.27	1049.45	0.018	0.09	2613.56	0.000
L17	79.96 - 74.96 (17)	TP30.1652x29.1x0.6375	19.59	1048.56	0.019	0.09	2711.47	0.000
L18	74.96 - 69.96 (18)	TP31.2305x30.1652x0.625	19.90	1065.52	0.019	0.09	2855.89	0.000
L19	69.96 - 64.96 (19)	TP32.2957x31.2305x0.6125	20.20	1080.98	0.019	0.09	2999.36	0.000
L20	64.96 - 60.5 (20)	TP33.2459x32.2957x0.6	20.47	1091.10	0.019	0.09	3119.42	0.000
L21	60.5 - 60.25 (21)	TP33.2992x33.2459x0.6	20.48	1092.88	0.019	0.09	3129.60	0.000
L22	60.25 - 55.25 (22)	TP34.3644x33.2992x0.5875	20.76	1105.38	0.019	0.09	3269.73	0.000
L23	55.25 - 50.25 (23)	TP35.4297x34.3644x0.5875	21.03	1140.24	0.018	0.09	3479.22	0.000
L24	50.25 - 42.41 (24)	TP37.1x35.4297x0.575	21.17	1134.60	0.019	0.09	3519.78	0.000
L25	42.41 - 41.41 (25)	TP36.6867x35.3735x0.6375	21.59	1280.15	0.017	0.09	4041.43	0.000
L26	41.41 - 36.41 (26)	TP37.7508x36.6867x0.625	21.83	1292.53	0.017	0.09	4202.39	0.000
L27	36.41 - 31.41 (27)	TP38.815x37.7508x0.625	22.00	1322.17	0.017	0.09	4348.18	0.000
L28	31.41 - 30.5 (28)	TP39.0087x38.815x0.6125	22.08	1310.02	0.017	0.09	4360.68	0.000
L29	30.5 - 30.25 (29)	TP39.0619x39.0087x0.6125	22.09	1311.84	0.017	0.09	4405.00	0.000
L30	30.25 - 25.25 (30)	TP40.126x39.0619x0.6125	22.14	1319.10	0.017	0.09	4417.22	0.000
L31	25.25 - 20.25 (31)	TP41.1902x40.126x0.6	22.34	1328.16	0.017	0.09	4572.79	0.000
L32	20.25 - 18 (32)	TP41.6691x41.1902x0.6	22.56	1364.62	0.017	0.09	4822.33	0.000
L33	18 - 17.75 (33)	TP41.7223x41.6691x0.5563	22.62	1275.54	0.018	0.09	4586.57	0.000
L34	17.75 - 12.75 (34)	TP42.7864x41.7223x0.55	22.67	1267.92	0.018	0.09	4548.17	0.000
L35	12.75 - 7.75 (35)	TP43.8506x42.7864x0.55	22.87	1300.52	0.018	0.09	4786.31	0.000
L36	7.75 - 3.916 (36)	TP44.6666x43.8506x0.5375	23.07	1304.97	0.018	0.09	4919.04	0.000
L37	3.916 - 3.666	TP44.7198x44.6666x0.525	23.15	1292.45	0.018	0.09	4990.21	0.000

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio V_u ϕV_n	Actual T_u kip-ft	ϕT_n kip-ft	Ratio T_u ϕT_n
L38	(37) 3.666 - 0 (38)	TP45.5x44.7198x0.5125	23.20	1269.46	0.018	0.09	4885.91	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	150 - 145 (1)	0.008	0.141	0.000	0.035	0.002	0.151	1.050	
L2	145 - 140 (2)	0.008	0.237	0.000	0.034	0.002	0.247	1.050	
L3	140 - 135 (3)	0.013	0.362	0.000	0.051	0.001	0.378	1.050	
L4	135 - 130 (4)	0.013	0.476	0.000	0.049	0.001	0.491	1.050	
L5	130 - 123.42 (5)	0.018	0.568	0.000	0.066	0.000	0.590	1.050	
L6	123.42 - 121.59 (6)	0.014	0.526	0.000	0.049	0.000	0.542	1.050	
L7	121.59 - 117 (7)	0.014	0.593	0.000	0.047	0.000	0.609	1.050	
L8	117 - 116.75 (8)	0.006	0.277	0.000	0.021	0.000	0.284	1.050	
L9	116.75 - 111.75 (9)	0.008	0.313	0.000	0.025	0.000	0.321	1.050	
L10	111.75 - 106.75 (10)	0.008	0.360	0.000	0.025	0.000	0.368	1.050	
L11	106.75 - 101.75 (11)	0.008	0.395	0.000	0.025	0.000	0.404	1.050	
L12	101.75 - 96.75 (12)	0.009	0.428	0.000	0.025	0.000	0.437	1.050	
L13	96.75 - 91.75 (13)	0.009	0.458	0.000	0.025	0.000	0.467	1.050	
L14	91.75 - 85.96 (14)	0.009	0.464	0.000	0.025	0.000	0.473	1.050	
L15	85.96 - 84.96 (15)	0.007	0.367	0.000	0.018	0.000	0.374	1.050	
L16	84.96 - 79.96 (16)	0.007	0.383	0.000	0.018	0.000	0.390	1.050	
L17	79.96 - 74.96 (17)	0.008	0.405	0.000	0.019	0.000	0.413	1.050	
L18	74.96 - 69.96 (18)	0.008	0.419	0.000	0.019	0.000	0.427	1.050	
L19	69.96 - 64.96 (19)	0.008	0.432	0.000	0.019	0.000	0.441	1.050	
L20	64.96 - 60.5 (20)	0.008	0.445	0.000	0.019	0.000	0.454	1.050	
L21	60.5 - 60.25 (21)	0.008	0.445	0.000	0.019	0.000	0.454	1.050	
L22	60.25 - 55.25 (22)	0.009	0.458	0.000	0.019	0.000	0.467	1.050	
L23	55.25 - 50.25 (23)	0.009	0.460	0.000	0.018	0.000	0.470	1.050	
L24	50.25 - 42.41 (24)	0.009	0.471	0.000	0.019	0.000	0.481	1.050	
L25	42.41 - 41.41 (25)	0.009	0.444	0.000	0.017	0.000	0.453	1.050	
L26	41.41 - 36.41 (26)	0.009	0.453	0.000	0.017	0.000	0.462	1.050	
L27	36.41 - 31.41	0.009	0.453	0.000	0.017	0.000	0.462	1.050	

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	(27)								
L28	31.41 - 30.5	0.010	0.462	0.000	0.017	0.000	0.471	1.050	
	(28)								
L29	30.5 - 30.25	0.010	0.461	0.000	0.017	0.000	0.471	1.050	
	(29)								
L30	30.25 - 25.25	0.010	0.461	0.000	0.017	0.000	0.471	1.050	
	(30)								
L31	25.25 - 20.25	0.010	0.470	0.000	0.017	0.000	0.480	1.050	
	(31)								
L32	20.25 - 18 (32)	0.010	0.469	0.000	0.017	0.000	0.479	1.050	
L33	18 - 17.75 (33)	0.011	0.504	0.000	0.018	0.000	0.515	1.050	
L34	17.75 - 12.75	0.011	0.509	0.000	0.018	0.000	0.520	1.050	
	(34)								
L35	12.75 - 7.75	0.011	0.508	0.000	0.018	0.000	0.519	1.050	
	(35)								
L36	7.75 - 3.916	0.012	0.517	0.000	0.018	0.000	0.529	1.050	
	(36)								
L37	3.916 - 3.666	0.012	0.527	0.000	0.018	0.000	0.540	1.050	
	(37)								
L38	3.666 - 0 (38)	0.012	0.540	0.000	0.018	0.000	0.552	1.050	

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 145	Pole	TP16.0798x15x0.1875	1	-4.45	580.95	14.3	Pass
L2	145 - 140	Pole	TP17.1595x16.0798x0.1875	2	-4.70	620.42	23.5	Pass
L3	140 - 135	Pole	TP18.2393x17.1595x0.1875	3	-8.28	659.89	36.0	Pass
L4	135 - 130	Pole	TP19.319x18.2393x0.1875	4	-8.69	699.36	46.8	Pass
L5	130 - 123.42	Pole	TP20.74x19.319x0.1875	5	-12.48	726.28	56.2	Pass
L6	123.42 - 121.59	Pole	TP20.7436x19.6804x0.25	6	-13.20	998.87	51.6	Pass
L7	121.59 - 117	Pole	TP21.7197x20.7436x0.25	7	-13.79	1046.45	58.0	Pass
L8	117 - 116.75	Pole	TP21.7728x21.7197x0.5625	8	-13.85	2326.07	27.0	Pass
L9	116.75 - 111.75	Pole	TP22.836x21.7728x0.55	9	-17.48	2389.72	30.6	Pass
L10	111.75 - 106.75	Pole	TP23.8992x22.836x0.525	10	-18.46	2392.48	35.1	Pass
L11	106.75 - 101.75	Pole	TP24.9624x23.8992x0.5125	11	-19.46	2443.00	38.5	Pass
L12	101.75 - 96.75	Pole	TP26.0256x24.9624x0.5	12	-20.49	2488.28	41.6	Pass
L13	96.75 - 91.75	Pole	TP27.0888x26.0256x0.4875	13	-21.54	2528.31	44.5	Pass
L14	91.75 - 85.96	Pole	TP28.32x27.0888x0.4875	14	-21.89	2562.87	45.1	Pass
L15	85.96 - 84.96	Pole	TP28.0347x26.9524x0.675	15	-23.86	3600.53	35.6	Pass
L16	84.96 - 79.96	Pole	TP29.1x28.0347x0.6625	16	-25.30	3673.07	37.2	Pass
L17	79.96 - 74.96	Pole	TP30.1652x29.1x0.6375	17	-26.68	3669.97	39.3	Pass
L18	74.96 - 69.96	Pole	TP31.2305x30.1652x0.625	18	-28.09	3729.34	40.7	Pass
L19	69.96 - 64.96	Pole	TP32.2957x31.2305x0.6125	19	-29.52	3783.44	42.0	Pass
L20	64.96 - 60.5	Pole	TP33.2459x32.2957x0.6	20	-30.82	3818.85	43.2	Pass
L21	60.5 - 60.25	Pole	TP33.2992x33.2459x0.6	21	-30.90	3825.08	43.2	Pass
L22	60.25 - 55.25	Pole	TP34.3644x33.2992x0.5875	22	-32.37	3868.83	44.5	Pass
L23	55.25 - 50.25	Pole	TP35.4297x34.3644x0.5875	23	-33.87	3990.85	44.7	Pass
L24	50.25 - 42.41	Pole	TP37.1x35.4297x0.575	24	-34.69	3971.11	45.8	Pass
L25	42.41 - 41.41	Pole	TP36.6867x35.3735x0.6375	25	-38.01	4480.52	43.2	Pass
L26	41.41 - 36.41	Pole	TP37.7508x36.6867x0.625	26	-39.70	4523.85	44.0	Pass
L27	36.41 - 31.41	Pole	TP38.815x37.7508x0.625	27	-40.75	4601.66	44.0	Pass
L28	31.41 - 30.5	Pole	TP39.0087x38.815x0.6125	28	-41.44	4561.95	44.9	Pass
L29	30.5 - 30.25	Pole	TP39.0619x39.0087x0.6125	29	-41.76	4585.08	44.9	Pass
L30	30.25 - 25.25	Pole	TP40.126x39.0619x0.6125	30	-41.85	4591.43	44.9	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L31	25.25 - 20.25	Pole	TP41.1902x40.126x0.6	31	-43.61	4623.66	45.7	Pass
L32	20.25 - 18	Pole	TP41.6691x41.1902x0.6	32	-45.39	4748.15	45.7	Pass
L33	18 - 17.75	Pole	TP41.7223x41.6691x0.5563	33	-46.20	4458.60	49.0	Pass
L34	17.75 - 12.75	Pole	TP42.7864x41.7223x0.55	34	-46.30	4414.88	49.6	Pass
L35	12.75 - 7.75	Pole	TP43.8506x42.7864x0.55	35	-48.13	4529.00	49.4	Pass
L36	7.75 - 3.916	Pole	TP44.6666x43.8506x0.5375	36	-49.99	4538.89	50.4	Pass
L37	3.916 - 3.666	Pole	TP44.7198x44.6666x0.525	37	-51.42	4518.13	51.4	Pass
L38	3.666 - 0	Pole	TP45.5x44.7198x0.5125	38	-51.52	4417.12	52.6	Pass
							Summary	
							Pole (L7)	58.0 Pass
							RATING =	58.0 Pass

***NOTE:** Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.

APPENDIX B
BASE LEVEL DRAWING



(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 84 FT LEVEL

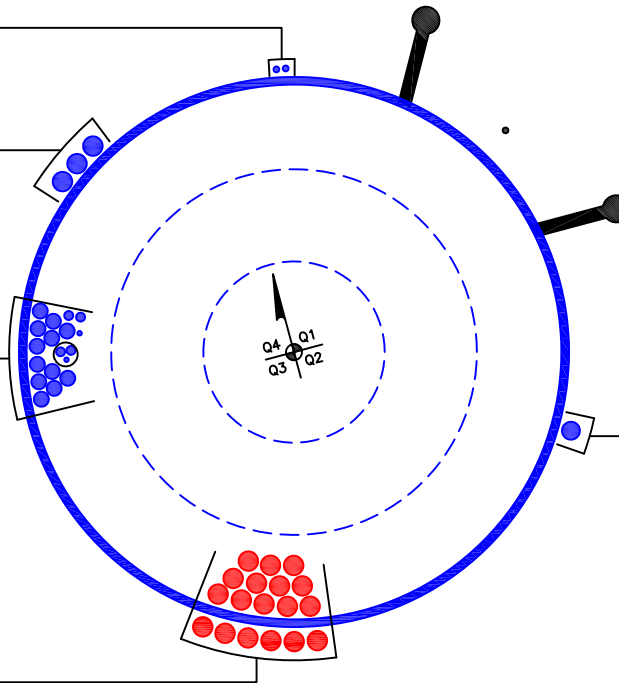
(OTHER CONSIDERED EQUIPMENT)
(3) 1-5/8" TO 151 FT LEVEL

(OTHER CONSIDERED EQUIPMENT—IN CONDUIT)
(1) 3/8" TO 129 FT LEVEL
(2) 3/4" TO 129 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" TO 129 FT LEVEL
(2) 3/4" TO 129 FT LEVEL
(12) 1-1/4" TO 129 FT LEVEL

CLIMBING PEGS
W/ SAFETY CLIMB

(OTHER CONSIDERED EQUIPMENT)
(1) 1-1/2" TO 112 FT LEVEL

(PROPOSED EQUIPMENT CONFIGURATION)
(18) 1-5/8" TO 138 FT LEVEL



APPENDIX C

ADDITIONAL CALCULATIONS

Site BU: 876361
Work Order: 2284799



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Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	150	26.58	3.17	18	15	20.74	0.1875	Auto	A572-65
2	126.59	40.63	4.08	18	19.68	28.32	0.25	Auto	A572-65
3	90.04	47.63	5.17	18	26.95	37.1	0.3125	Auto	A572-65
4	47.58	47.58	0	18	35.37	45.5	0.375	Auto	A572-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	3.916	30.5	channel	MP3-06 (1.1875in)	2																		
2	3.916	18	channel	MP3-06 (1.1875in)	1																		
3	18	30.5	channel	MP3-06 (1.1875in)	1																		
4	30.5	60.5	channel	MP3-06 (1.1875in)	3																		
5	60.5	89	channel	MP3-06 (1.1875in)	3																		
6	89	117	channel	MP3-05 (1.1875in)	3																		
7	0	3.916	plate	TS 1.25"X2.8125"	6																		
8																							
9																							
10																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in ²)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in ²)	Bolt Hole Size (in)	Reinforcement Material
1	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
2	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
3	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
4	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
5	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
6	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
7	1.25	2.8125	3.51563	1.40625	Welded	n/a	None	n/a	0.000	3.516	0.0000	A572-65

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
TS 1.25"X2.8125"	Top	1	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	-	-	-	-	80	CJP Groove	6	0.625	45	0.5	51	0.375	-

TNX Geometry Input

Increment (ft): 5 [Export to TNX](#)

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	150 - 145	5		18	15.000	16.080	0.1875	A572-65	1.000
2	145 - 140	5		18	16.080	17.160	0.1875	A572-65	1.000
3	140 - 135	5		18	17.160	18.239	0.1875	A572-65	1.000
4	135 - 130	5		18	18.239	19.319	0.1875	A572-65	1.000
5	130 - 126.59	6.58	3.17	18	19.319	20.740	0.1875	A572-65	1.000
6	126.59 - 121.59	5		18	19.680	20.744	0.25	A572-65	1.000
7	121.59 - 117	4.59		18	20.744	21.720	0.25	A572-65	1.000
8	117 - 116.75	0.25		18	21.720	21.773	0.5625	A572-65	0.899
9	116.75 - 111.75	5		18	21.773	22.836	0.55	A572-65	0.896
10	111.75 - 106.75	5		18	22.836	23.899	0.525	A572-65	0.917
11	106.75 - 101.75	5		18	23.899	24.962	0.5125	A572-65	0.919
12	101.75 - 96.75	5		18	24.962	26.026	0.5	A572-65	0.923
13	96.75 - 91.75	5		18	26.026	27.089	0.4875	A572-65	0.929
14	91.75 - 90.04	5.79	4.08	18	27.089	28.320	0.4875	A572-65	0.924
15	90.04 - 84.96	5.08		18	26.952	28.035	0.675	A572-65	0.903
16	84.96 - 79.96	5		18	28.035	29.100	0.6625	A572-65	0.902
17	79.96 - 74.96	5		18	29.100	30.165	0.6375	A572-65	0.921
18	74.96 - 69.96	5		18	30.165	31.230	0.625	A572-65	0.924
19	69.96 - 64.96	5		18	31.230	32.296	0.6125	A572-65	0.928
20	64.96 - 60.5	4.46		18	32.296	33.246	0.6	A572-65	0.934
21	60.5 - 60.25	0.25		18	33.246	33.299	0.6	A572-65	0.933
22	60.25 - 55.25	5		18	33.299	34.364	0.5875	A572-65	0.940
23	55.25 - 50.25	5		18	34.364	35.430	0.5875	A572-65	0.927
24	50.25 - 47.58	7.84	5.17	18	35.430	37.100	0.575	A572-65	0.941
25	47.58 - 41.41	6.17		18	35.374	36.687	0.6375	A572-65	0.941
26	41.41 - 36.41	5		18	36.687	37.751	0.625	A572-65	0.949
27	36.41 - 31.41	5		18	37.751	38.815	0.625	A572-65	0.939
28	31.41 - 30.5	0.91		18	38.815	39.009	0.6125	A572-65	0.956
29	30.5 - 30.25	0.25		18	39.009	39.062	0.6125	A572-65	0.956
30	30.25 - 25.25	5		18	39.062	40.126	0.6125	A572-65	0.947
31	25.25 - 20.25	5		18	40.126	41.190	0.6	A572-65	0.957
32	20.25 - 18	2.25		18	41.190	41.669	0.6	A572-65	0.953
33	18 - 17.75	0.25		18	41.669	41.722	0.55625	A572-65	1.027
34	17.75 - 12.75	5		18	41.722	42.786	0.55	A572-65	1.029
35	12.75 - 7.75	5		18	42.786	43.851	0.55	A572-65	1.021
36	7.75 - 3.916	3.834		18	43.851	44.667	0.5375	A572-65	1.038
37	3.916 - 3.666	0.25		18	44.667	44.720	0.525	A572-65	1.003
38	3.666 - 0	3.666		18	44.720	45.500	0.5125	A572-65	1.022

TNX Section Forces

Increment (ft):		TNX Output		
		5		
	Section Height (ft)	P _u (K)	M _{ux} (kip-ft)	V _u (K)
1	150 - 145	4.45	32.31	5.84
2	145 - 140	4.70	62.00	6.05
3	140 - 135	8.28	106.63	9.63
4	135 - 130	8.69	155.24	9.83
5	130 - 126.59	12.48	197.82	13.62
6	126.59 - 121.59	13.20	266.45	13.85
7	121.59 - 117	13.79	330.29	14.00
8	117 - 116.75	13.85	333.78	14.01
9	116.75 - 111.75	17.48	407.97	16.89
10	111.75 - 106.75	18.46	493.17	17.20
11	106.75 - 101.75	19.46	579.92	17.51
12	101.75 - 96.75	20.49	668.18	17.81
13	96.75 - 91.75	21.54	757.89	18.09
14	91.75 - 90.04	21.89	788.96	18.28
15	90.04 - 84.96	23.86	883.40	18.87
16	84.96 - 79.96	25.30	978.81	19.27
17	79.96 - 74.96	26.68	1075.91	19.59
18	74.96 - 69.96	28.09	1174.60	19.90
19	69.96 - 64.96	29.52	1274.83	20.20
20	64.96 - 60.5	30.82	1365.48	20.47
21	60.5 - 60.25	30.90	1370.60	20.48
22	60.25 - 55.25	32.37	1473.65	20.76
23	55.25 - 50.25	33.87	1578.07	21.03
24	50.25 - 47.58	34.69	1634.38	21.17
25	47.58 - 41.41	38.01	1766.28	21.59
26	41.41 - 36.41	39.70	1874.78	21.83
27	36.41 - 31.41	41.43	1984.41	22.05
28	31.41 - 30.5	41.75	2004.48	22.08
29	30.5 - 30.25	41.84	2010.01	22.09
30	30.25 - 25.25	43.59	2120.94	22.30
31	25.25 - 20.25	45.38	2232.89	22.50
32	20.25 - 18	46.19	2283.62	22.62
33	18 - 17.75	46.29	2289.28	22.62
34	17.75 - 12.75	48.11	2402.88	22.84
35	12.75 - 7.75	49.97	2517.45	23.02
36	7.75 - 3.916	51.41	2605.91	23.15
37	3.916 - 3.666	51.51	2611.69	23.15
38	3.666 - 0	52.83	2696.76	23.28

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP16.08x15x0.1875	Pole	14.3%	Pass
145 - 140	Pole	TP17.16x16.08x0.1875	Pole	23.5%	Pass
140 - 135	Pole	TP18.239x17.16x0.1875	Pole	36.0%	Pass
135 - 130	Pole	TP19.319x18.239x0.1875	Pole	46.8%	Pass
130 - 126.59	Pole	TP20.74x19.319x0.1875	Pole	56.2%	Pass
126.59 - 121.59	Pole	TP20.744x19.68x0.25	Pole	51.6%	Pass
121.59 - 117	Pole	TP21.72x20.744x0.25	Pole	58.0%	Pass
117 - 116.75	Pole + Reinf.	TP21.773x21.72x0.5625	Reinf. 6 Tension Rupture	40.4%	Pass
116.75 - 111.75	Pole + Reinf.	TP22.836x21.773x0.55	Reinf. 6 Tension Rupture	46.1%	Pass
111.75 - 106.75	Pole + Reinf.	TP23.899x22.836x0.525	Reinf. 6 Tension Rupture	52.0%	Pass
106.75 - 101.75	Pole + Reinf.	TP24.962x23.899x0.5125	Reinf. 6 Tension Rupture	57.2%	Pass
101.75 - 96.75	Pole + Reinf.	TP26.026x24.962x0.5	Reinf. 6 Tension Rupture	61.9%	Pass
96.75 - 91.75	Pole + Reinf.	TP27.089x26.026x0.4875	Reinf. 6 Tension Rupture	66.0%	Pass
91.75 - 90.04	Pole + Reinf.	TP28.32x27.089x0.4875	Reinf. 6 Tension Rupture	67.3%	Pass
90.04 - 84.96	Pole + Reinf.	TP28.035x26.952x0.675	Reinf. 5 Tension Rupture	52.2%	Pass
84.96 - 79.96	Pole + Reinf.	TP29.1x28.035x0.6625	Reinf. 5 Tension Rupture	54.7%	Pass
79.96 - 74.96	Pole + Reinf.	TP30.165x29.1x0.6375	Reinf. 5 Tension Rupture	57.0%	Pass
74.96 - 69.96	Pole + Reinf.	TP31.23x30.165x0.625	Reinf. 5 Tension Rupture	59.0%	Pass
69.96 - 64.96	Pole + Reinf.	TP32.296x31.23x0.6125	Reinf. 5 Tension Rupture	60.8%	Pass
64.96 - 60.5	Pole + Reinf.	TP33.246x32.296x0.6	Reinf. 5 Tension Rupture	62.3%	Pass
60.5 - 60.25	Pole + Reinf.	TP33.299x33.246x0.6	Reinf. 4 Tension Rupture	62.4%	Pass
60.25 - 55.25	Pole + Reinf.	TP34.364x33.299x0.5875	Reinf. 4 Tension Rupture	63.9%	Pass
55.25 - 50.25	Pole + Reinf.	TP35.43x34.364x0.5875	Reinf. 4 Tension Rupture	65.2%	Pass
50.25 - 47.58	Pole + Reinf.	TP37.1x35.43x0.575	Reinf. 4 Tension Rupture	65.9%	Pass
47.58 - 41.41	Pole + Reinf.	TP36.687x35.374x0.6375	Reinf. 4 Tension Rupture	62.4%	Pass
41.41 - 36.41	Pole + Reinf.	TP37.751x36.687x0.625	Reinf. 4 Tension Rupture	63.2%	Pass
36.41 - 31.41	Pole + Reinf.	TP38.815x37.751x0.625	Reinf. 4 Tension Rupture	63.9%	Pass
31.41 - 30.5	Pole + Reinf.	TP39.009x38.815x0.6125	Reinf. 4 Tension Rupture	64.0%	Pass
30.5 - 30.25	Pole + Reinf.	TP39.062x39.009x0.6125	Reinf. 3 Tension Rupture	64.1%	Pass
30.25 - 25.25	Pole + Reinf.	TP40.126x39.062x0.6125	Reinf. 3 Tension Rupture	64.7%	Pass
25.25 - 20.25	Pole + Reinf.	TP41.19x40.126x0.6	Reinf. 3 Tension Rupture	65.2%	Pass
20.25 - 18	Pole + Reinf.	TP41.669x41.19x0.6	Reinf. 3 Tension Rupture	65.5%	Pass
18 - 17.75	Pole + Reinf.	TP41.722x41.669x0.5563	Reinf. 1 Tension Rupture	67.3%	Pass
17.75 - 12.75	Pole + Reinf.	TP42.786x41.722x0.55	Reinf. 1 Tension Rupture	67.7%	Pass
12.75 - 7.75	Pole + Reinf.	TP43.851x42.786x0.55	Reinf. 1 Tension Rupture	68.0%	Pass
7.75 - 3.92	Pole + Reinf.	TP44.667x43.851x0.5375	Reinf. 1 Tension Rupture	68.3%	Pass
3.92 - 3.67	Pole + Reinf.	TP44.72x44.667x0.525	Reinf. 7 Tension Yield	67.3%	Pass
3.67 - 0	Pole + Reinf.	TP45.5x44.72x0.5125	Reinf. 7 Tension Yield	67.4%	Pass
				Summary	
			Pole	58.0%	Pass
			Reinforcement	68.3%	Pass
			Overall	68.3%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in ⁴)			Area (in ²)			% Capacity*							
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7
150 - 145	302	n/a	302	9.46	n/a	9.46	14.3%							
145 - 140	367	n/a	367	10.10	n/a	10.10	23.5%							
140 - 135	442	n/a	442	10.74	n/a	10.74	36.0%							
135 - 130	526	n/a	526	11.39	n/a	11.39	46.8%							
130 - 126.59	589	n/a	589	11.82	n/a	11.82	56.2%							
126.59 - 121.59	863	n/a	863	16.26	n/a	16.26	51.6%							
121.59 - 117	992	n/a	992	17.04	n/a	17.04	58.0%							
117 - 116.75	999	1166	2165	17.08	16.95	34.03	26.5%						40.4%	
116.75 - 111.75	1155	1274	2429	17.92	16.95	34.87	30.4%						46.1%	
111.75 - 106.75	1326	1386	2712	18.76	16.95	35.71	34.3%						52.0%	
106.75 - 101.75	1512	1503	3016	19.61	16.95	36.56	38.2%						57.2%	
101.75 - 96.75	1716	1625	3342	20.45	16.95	37.40	41.8%						61.9%	
96.75 - 91.75	1937	1752	3690	21.30	16.95	38.25	45.2%						66.0%	
91.75 - 90.04	2017	1797	3814	21.58	16.95	38.53	46.3%						67.3%	
90.04 - 84.96	2669	2864	5533	27.50	25.41	52.91	35.2%					52.2%		
84.96 - 79.96	2989	3070	6059	28.55	25.41	53.96	37.0%					54.7%		
79.96 - 74.96	3333	3283	6616	29.61	25.41	55.02	38.6%					57.0%		
74.96 - 69.96	3702	3504	7206	30.67	25.41	56.08	40.4%					59.0%		
69.96 - 64.96	4098	3731	7829	31.72	25.41	57.13	42.1%					60.8%		
64.96 - 60.5	4475	3940	8415	32.66	25.41	58.07	43.5%					62.3%		
60.5 - 60.25	4496	3952	8448	32.72	25.41	58.13	43.6%				62.4%			
60.25 - 55.25	4946	4194	9140	33.77	25.41	59.18	45.1%				63.9%			
55.25 - 50.25	5425	4442	9867	34.83	25.41	60.24	46.6%				65.2%			
50.25 - 47.58	5693	4578	10271	35.39	25.41	60.80	47.3%				65.9%			
47.58 - 41.41	7197	4745	11942	43.22	25.41	68.63	42.9%				62.4%			
41.41 - 36.41	7849	5009	12858	44.48	25.41	69.89	43.8%				63.2%			
36.41 - 31.41	8538	5281	13819	45.75	25.41	71.16	44.7%				63.9%			
31.41 - 30.5	8668	5331	13999	45.98	25.41	71.39	44.9%				64.0%			
30.5 - 30.25	8704	5345	14048	46.05	25.41	71.46	44.9%	64.1%		64.1%				
30.25 - 25.25	9442	5625	15067	47.31	25.41	72.72	45.7%	64.7%		64.7%				
25.25 - 20.25	10221	5912	16133	48.58	25.41	73.99	46.5%	65.2%		65.2%				
20.25 - 18	10585	6044	16629	49.15	25.41	74.56	46.8%	65.5%		65.5%				
18 - 17.75	10656	4933	15589	49.21	25.41	74.62	52.5%	67.3%	64.5%					
17.75 - 12.75	11499	5176	16675	50.48	25.41	75.89	53.2%	67.7%	64.9%					
12.75 - 7.75	12385	5426	17811	51.74	25.41	77.15	53.8%	68.0%	65.3%					
7.75 - 3.92	13094	5621	18716	52.72	25.41	78.13	54.3%	68.3%	65.6%					
3.92 - 3.67	13125	4899	18025	52.78	21.09	73.87	55.9%							67.3%
3.67 - 0	13830	5062	18891	53.71	21.09	74.80	56.3%							67.4%

Note: Section capacity checked using 5 degree increments.
Rating per TIA-222-H Section 15.5.

Monopole Base Plate Connection

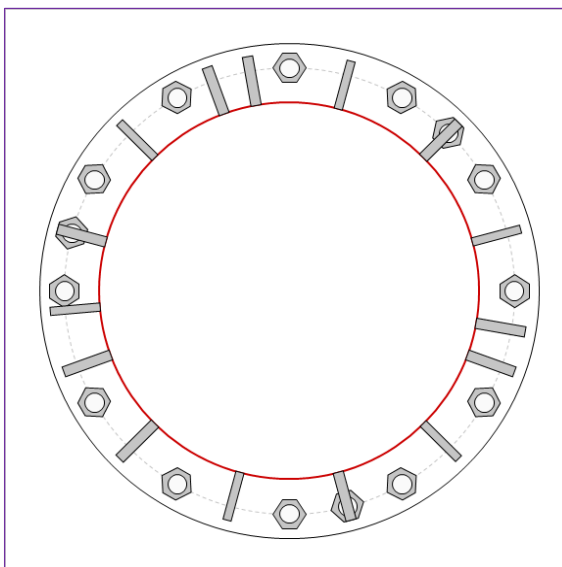


Site Info	
BU #	876361
Site Name	our 2 / Oxford Town G
Order #	662915 REV. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	See Custom Sheet
l_{ar} (in)	See Custom Sheet

Applied Loads	
Moment (kip-ft)	2696.76
Axial Force (kips)	52.83
Shear Force (kips)	23.28

*TIA-222-H Section 15.5 Applied



Connection Properties

Anchor Rod Data

GROUP 1: (12) 2-1/4" ϕ bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 54" BC
GROUP 2: (3) 2-1/4" ϕ bolts (A193 Gr. B7 N; Fy=105 ksi, Fu=125 ksi) on 54" BC

Base Plate Data

60" OD x 1.75" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

Group 1: (6) 18"H x 6"W x 1"T, Notch: 0.75"
plate: Fy= 65 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.375" groove, 45° dbl bevel, 0.5" fillet
vert. weld: 0.375" fillet

Group 2: (6) 51"H x 6"W x 1.25"T, Notch: 0.75"
plate: Fy= 65 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.5" groove, 45° dbl bevel, 0.625" fillet
vert. weld: 0.375" fillet

Group 3: (3) 30"H x 6"W x 1.25"T, Notch: 0.75"
plate: Fy= 65 ksi ; weld: Fy= 80 ksi
horiz. weld: 0.5" groove, 45° dbl bevel, 0.625" fillet
vert. weld: 0.375" fillet

Pole Data

45.5" x 0.375" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary

(units of kips, kip-in)

GROUP 1:

$Pu_t = 155.29$	$\phi Pn_t = 243.75$	Stress Rating
$Vu = 1.94$	$\phi Vn = 149.1$	60.7%
$Mu = n/a$	$\phi Mn = n/a$	Pass

GROUP 2:

$Pu_t = 159.69$	$\phi Pn_t = 304.69$	Stress Rating
$Vu = 0$	$\phi Vn = 186.38$	49.9%
$Mu = 0$	$\phi Mn = 179.4$	Pass

Base Plate Summary

Max Stress (ksi):	37.9	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	66.8%	Pass

Stiffener Summary

Horizontal Weld:	65.2%	Pass
Vertical Weld:	28.9%	Pass
Plate Flexure+Shear:	6.1%	Pass
Plate Tension+Shear:	28.7%	Pass
Plate Compression:	30.3%	Pass

Pole Summary

Punching Shear:	9.0%	Pass
-----------------	-------------	-------------

Elevation (ft) 0 (Base)

note: Bending interaction not considered when Grout Considered = "Yes"

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending	Grout Considered	Apply at BARB Elevation	BARB CL Elevation (ft)
1	Yes	Yes	Yes	Yes	No	
2	No	No	No	No	No	

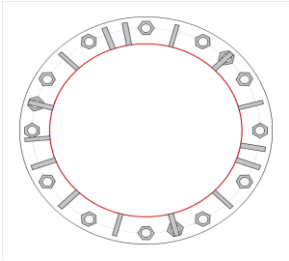
Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	l _w (in):	Thread Type	Area Override, in²	Tension Only
1	1	0	2.25	A615-75	54	0.5	2.25	N-Included		No
2	1	30	2.25	A615-75	54	0.5	2.25	N-Included		No
3	1	60	2.25	A615-75	54	0.5	2.25	N-Included		No
4	1	90	2.25	A615-75	54	0.5	2.25	N-Included		No
5	1	120	2.25	A615-75	54	0.5	2.25	N-Included		No
6	1	150	2.25	A615-75	54	0.5	2.25	N-Included		No
7	1	180	2.25	A615-75	54	0.5	2.25	N-Included		No
8	1	210	2.25	A615-75	54	0.5	2.25	N-Included		No
9	1	240	2.25	A615-75	54	0.5	2.25	N-Included		No
10	1	270	2.25	A615-75	54	0.5	2.25	N-Included		No
11	1	300	2.25	A615-75	54	0.5	2.25	N-Included		No
12	1	330	2.25	A615-75	54	0.5	2.25	N-Included		No
13	2	45	2.25	A193 Gr. B7	54	0.5	4.5	N-Included		No
14	2	165	2.25	A193 Gr. B7	54	0.5	4.5	N-Included		No
15	2	285	2.25	A193 Gr. B7	54	0.5	4.5	N-Included		No

Custom Stiffener Connection

Stiffener	Stiffener Group ID	Location (deg.)	Width (in)	Height (in)	Thickness (in)	H. Notch (in)	V. Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg.)	H. Fillet Weld Size (in)	V. Fillet Weld Size (in)	Weld Strength (ksi)
1	1	15	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
2	1	75	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
3	1	135	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
4	1	185	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
5	1	255	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
6	1	315	6	18	1	0.75	0.75	65	Both	0.375	45	0.5	0.375	80
7	2	100	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
8	2	110	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
9	2	200	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
10	2	225	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
11	2	340	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
12	2	350	6	51	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
13	3	45	6	30	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
14	3	165	6	30	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80
15	3	285	6	30	1.25	0.75	0.75	65	Both	0.5	45	0.625	0.375	80

Plot Graphic



Pier and Pad Foundation



BU # : 876361
 Site Name: Seymour 2 / Oxford
 App. Number: 662915 REV. 0

TIA-222 Revision: H
 Tower Type: Monopole

Top & Bot. Pad Rein. Different?:	☒
Block Foundation?:	☐
Rectangular Pad?:	☐

Superstructure Analysis Reactions		
Compression, P_{comp} :	52.84	kips
Base Shear, V_{u_comp} :	23.26	kips
Moment, M_u :	2696.76	ft-kips
Tower Height, H :	150	ft
BP Dist. Above Fdn, bp_{dist} :	4.5	in

Pier Properties		
Pier Shape:	Square	
Pier Diameter, $dpier$:	6	ft
Ext. Above Grade, E :	1	ft
Pier Rebar Size, Sc :	8	
Pier Rebar Quantity, mc :	30	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	7	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Pad Properties		
Depth, D :	6	ft
Pad Width, W_1 :	21.5	ft
Pad Thickness, T :	3	ft
Pad Rebar Size (Top dir. 2), Sp_{top2} :	8	
Pad Rebar Quantity (Top dir. 2), mp_{top2} :	20	
Pad Rebar Size (Bottom dir. 2), Sp_2 :	8	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	33	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	3	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	120	pcf
Ultimate Gross Bearing, Q_{ult} :	12.000	ksf
Cohesion, C_u :		ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :	60	
Base Friction, μ :		
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	N/A	ft

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	177.23	23.26	12.5%	Pass
Bearing Pressure (ksf)	9.00	2.94	32.6%	Pass
Overturning (kip*ft)	3971.80	2868.30	72.2%	Pass
Pier Flexure (Comp.) (kip*ft)	3258.75	2789.80	81.5%	Pass
Pier Compression (kip)	17184.96	78.76	0.4%	Pass
Pad Flexure (kip*ft)	3555.96	1256.89	33.7%	Pass
Pad Shear - 1-way (kips)	667.70	215.34	30.7%	Pass
Pad Shear - 2-way (Comp) (ksi)	0.164	0.034	19.9%	Pass
Flexural 2-way (Comp) (kip*ft)	3964.87	1673.88	40.2%	Pass

*Rating per TIA-222-H Section 15.5

Structural Rating*:	81.5%
Soil Rating*:	72.2%

<--Toggle between Gross and Net

ASCE Hazards Report

Address:

No Address at This Location

Standard:

ASCE/SEI 7-16

Risk Category: II**Soil Class:**

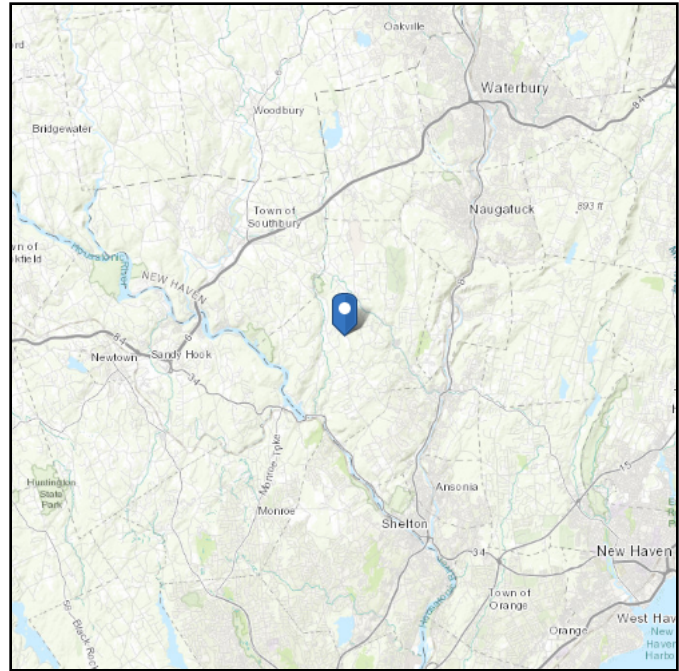
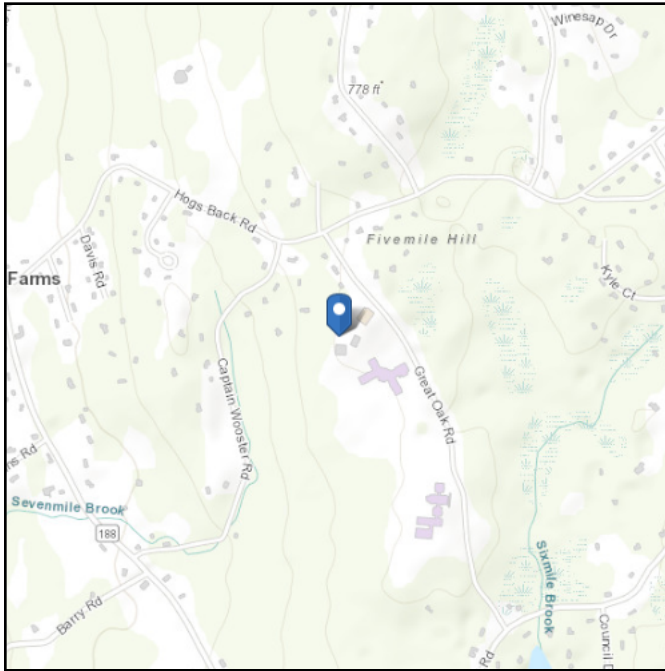
D - Default (see
Section 11.4.3)

Latitude:

41.426364

Longitude: -73.144258**Elevation:**

733.7199468451793 ft
(NAVD 88)



Wind

Results:

Wind Speed	117 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source:

ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed:

Tue Feb 20 2024

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

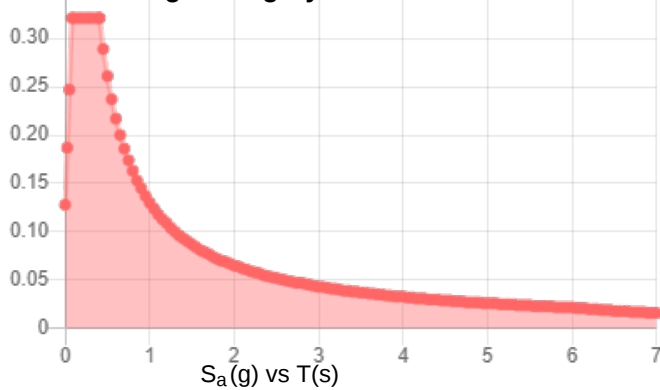
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Default (see Section 11.4.3)

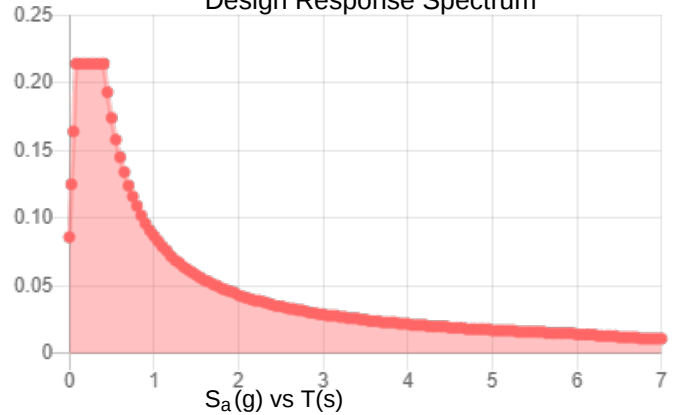
Results:

S_S :	0.2	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.112
F_v :	2.4	PGA _M :	0.177
S_{MS} :	0.321	F_{PGA} :	1.576
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.214	C_v :	0.701

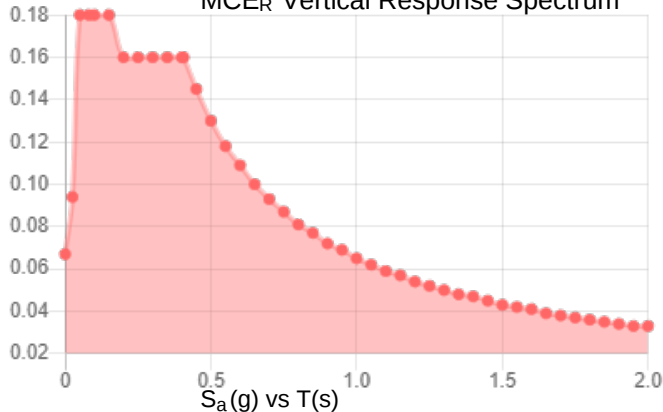
Seismic Design Category: B **MCE_R Response Spectrum**



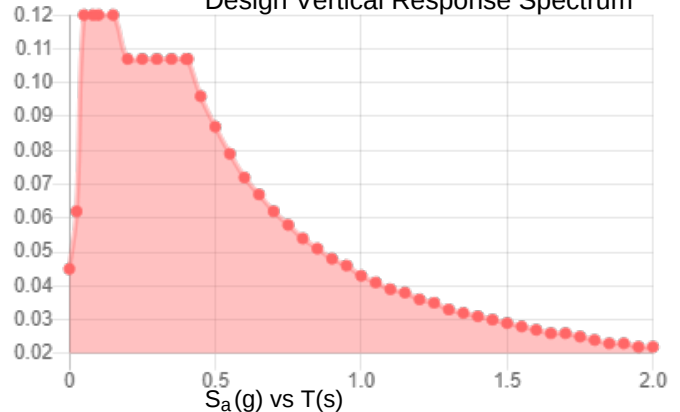
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed: Tue Feb 20 2024

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Tue Feb 20 2024

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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EXHIBIT F

Mount Analysis Report

Colliers Engineering & Design,
Architecture, Landscape Architecture,
Surveying, CT P.C.
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10213431
Colliers Engineering & Design Project #: 21777126 (Rev.3)

November 15, 2023

Site Information

Site ID: 5000381735-VZW / OXFORD W CT
Site Name: OXFORD W CT
Carrier Name: Verizon Wireless
Address: 20 Great Oak Rd
Oxford, Connecticut 06478
New Haven County
Latitude: 41.426358°
Longitude: -73.144247°

Structure Information

Tower Type: 170-Ft Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 16272032

Analysis Results

Platform: 49.2% **Pass w/ Modifications***

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

***Contractor PMI Requirements:

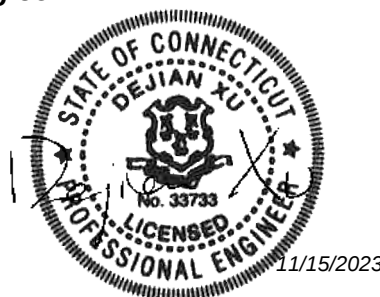
Included at the end of this MA report

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

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Conner Hoge



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 324653, dated August 11, 2023
Mount Mapping Report	Hudson Design Group, LLC., Site ID:467421, dated March 24, 2022
Previous Mount Analysis Report	Colliers Engineering & Design, Project #: 21777126 (Rev. 2), dated October 27, 2023
Mount Modification Drawings	Colliers Engineering & Design, Project #: 21777126 (Rev. 3), dated May 4, 2023

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H Connecticut State Building Code, 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 :	120 mph 50 mph 1.00 in II B 1 N/A N/A 0.974
Seismic Parameters:	S_s : S_1 :	0.199 g 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): Maintenance Load, L_v : Maintenance Load, L_m :	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
138.50	140.00	3	Samsung	MT6413-77A	Added
		1	Raycap	RVZDC-6627-PF-48	
		6	JMA Wireless	MX06FRO660-03	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- 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 Horizontals	41.3 %	Pass
Corner Plates	45.7 %	Pass
Intermediate Horizontals	23.6 %	Pass
Face Horizontal	49.2 %	Pass
Mount Pipe	20.5 %	Pass
Face Plates	19.8 %	Pass
Support Rail	12.0 %	Pass
Support Rail Bracing	23.6 %	Pass
Mount Connection	33.7 %	Pass

Structure Rating – (Controlling Utilization of all Components)	49.2%
---	--------------

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	38.2	38.1	57.7	57.6
0.5	44.6	44.5	71.9	71.8
1	50.7	50.6	85.8	85.7

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 #: 5000381735

SMART Project #: 10213431

Fuze Project ID: 16272032

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:

N/A

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

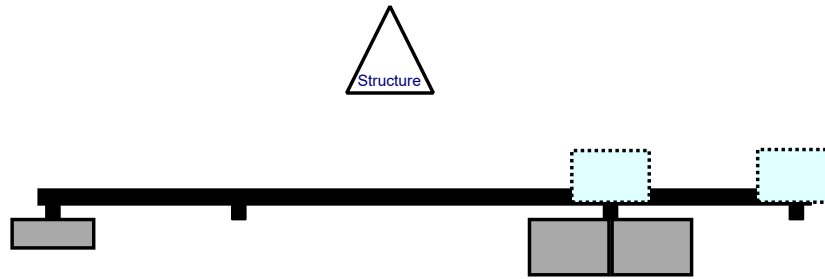
Comments:

--

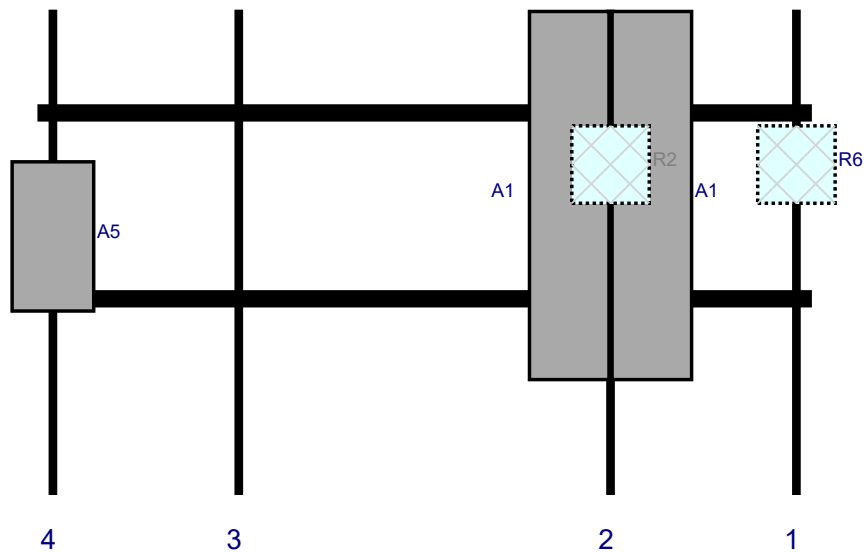
Certifying Individual:

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

Plan View

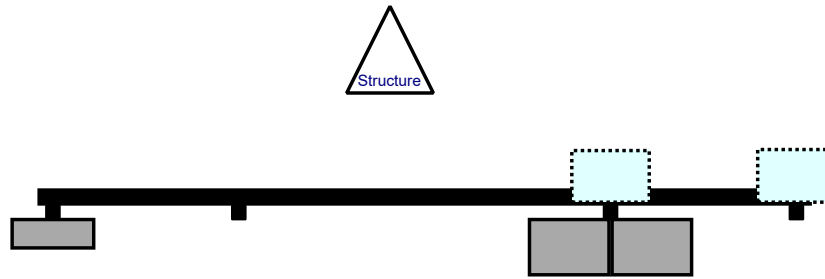


Front View - Looking at Structure

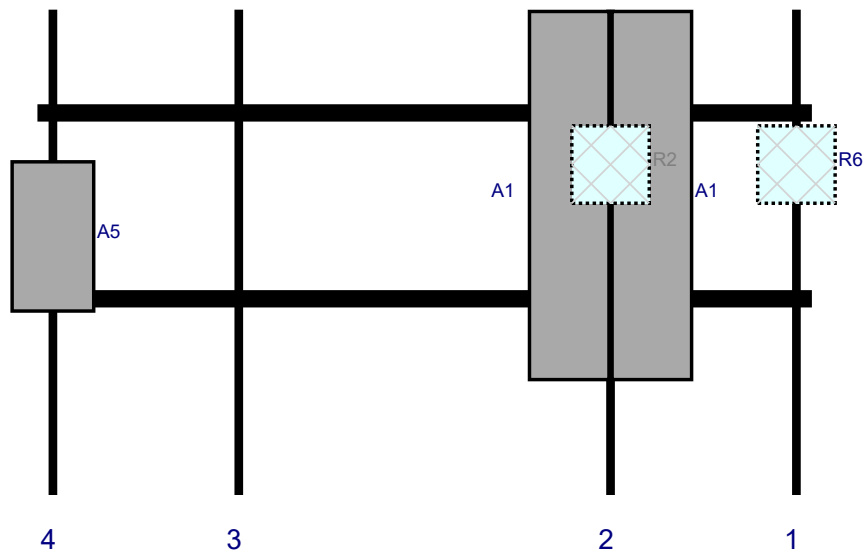


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R6	RF4461d-13A	15	15	147	1	a	Behind	30	0	Added	
A1	MX06FRO660-03	71.3	15.4	111	2	a	Front	36	8	Added	
A1	MX06FRO660-03	71.3	15.4	111	2	b	Front	36	-8	Added	
R2	RF4439d-25A	15	15	111	2	a	Behind	30	0	Added	
A5	MT6413-77A	28.9	15.8	3	4	a	Front	43.92	0	Added	
M76A	RVZDC-6627-PF-48	29.5	16.5		Member					Added	

Plan View

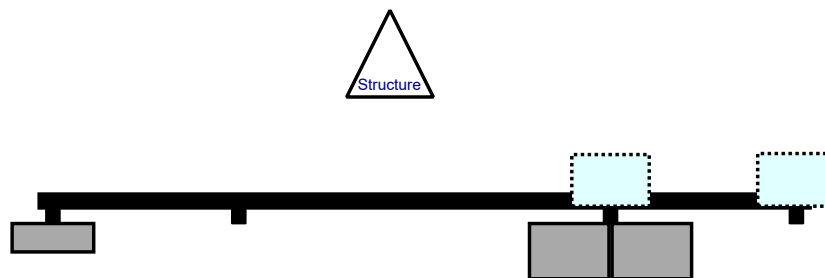


Front View - Looking at Structure

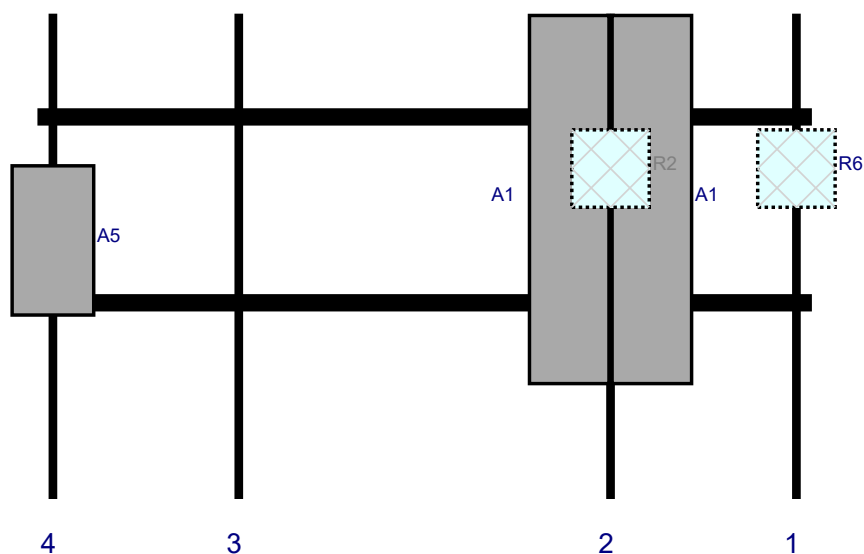


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R6	RF4461d-13A	15	15	147	1	a	Behind	30	0	Added	
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A1	MX06FRO660-03	71.3	15.4	111	2	b	Front	36	-8	Added	
R2	RF4439d-25A	15	15	111	2	a	Behind	30	0	Added	
A5	MT6413-77A	28.9	15.8	3	4	a	Front	43.92	0	Added	

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R6	RF4461d-13A	15	15	147	1	a	Behind	30	0	Added	
A1	MX06FRO660-03	71.3	15.4	111	2	a	Front	36	8	Added	
A1	MX06FRO660-03	71.3	15.4	111	2	b	Front	36	-8	Added	
R2	RF4439d-25A	15	15	111	2	a	Behind	30	0	Added	
A5	MT6413-77A	28.9	15.8	3	4	a	Front	43.92	0	Added	



MOUNT MODIFICATION DRAWINGS

EXISTING 12.50' PLATFORM

TOWER OWNER: CROWN CASTLE
TOWER OWNER SITE NUMBER: 876361

CARRIER SITE NAME: OXFORD W CT
CARRIER SITE NUMBER: 467421
FUZE ID: 16272032

20 GREAT OAK RD
OXFORD, CT 06478
NEW HAVEN COUNTY

LATITUDE: 41.426358° N
LONGITUDE: 73.144247° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), $V = 125$ MPH
EXPOSURE CATEGORY B
TOPOGRAPHY FEATURE CONSIDERED N/A
TOPOGRAPHIC METHOD N/A
MEAN BASE ELEVATION (AMSL) = 734.07'

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, $S_s = .200$
LONG TERM MCER GROUND MOTION, $S_1 = .054$

PROJECT INFORMATION	
<u>APPLICANT/LESSEE</u>	
COMPANY:	VERIZON WIRELESS
<u>CLIENT REPRESENTATIVE</u>	
COMPANY:	VERIZON WIRELESS
<u>PROJECT MANAGER</u>	
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 #:	10180119
MDG NUMBER:	5000381735
ANALYSIS DATE:	5/4/2023
PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT	

[illegible]

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SCALE:		JOB NUMBER:	
AS SHOWN		21777126	
3	05/04/23	ISSUED FOR CONSTRUCTION	NL PMA
2	01/09/22	ISSUED FOR CONSTRUCTION	MKS DX
1	11/1/22	ISSUED FOR CONSTRUCTION	MKS DX
REV	DATE	DESCRIPTION	DRAWN BY CHECKED BY

COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC.0000131

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ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

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467421

20 GREAT OAK RD
OXFORD, CT 06478
NEW HAVEN COUNTY

Engineering
& Design

STAMFORD
1055 Washington Boulevard
Stamford, CT 06901

Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASEP CONSULTING

SHEET TITLE:

TITLE SHEET

SHEET NUMBER :

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-MSK6	BACK TO BACK CROSSOVER PLATE		34	34
1		VZWSMART-P40-238X048	48" LONG, PIPE 2 SCH40 (2.375"OD X 0.154" THK)		15	15
3		VZWSMART-P40-278X096	96" LONG, PIPE 2.5 SCH40 (2.875"OD X 0.203" THK)		44	132
3		VZWSMART-MSK1	CROSSOVER PLATE		14	42
SECTION 2 - OTHER REQUIRED PARTS						
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
-	-	-	5/8" DIA. J429 GR.2 U-BOLTS		(blank)	
SECTION 3 - REQUIRED SAFETY CLIMB PARTS						
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
TOTAL:						727

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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COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:

BILL OF MATERIALS

SHEET NUMBER:

SBOM-1

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H AND THE 2022 CONNECTICUT STATE BUILDING CODE (CSBC), EFFECTIVE OCTOBER 1, 2022. 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 COLLIERS ENGINEERING & DESIGN PROJECT # AND COLLIERS ENGINEERING & DESIGN 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.

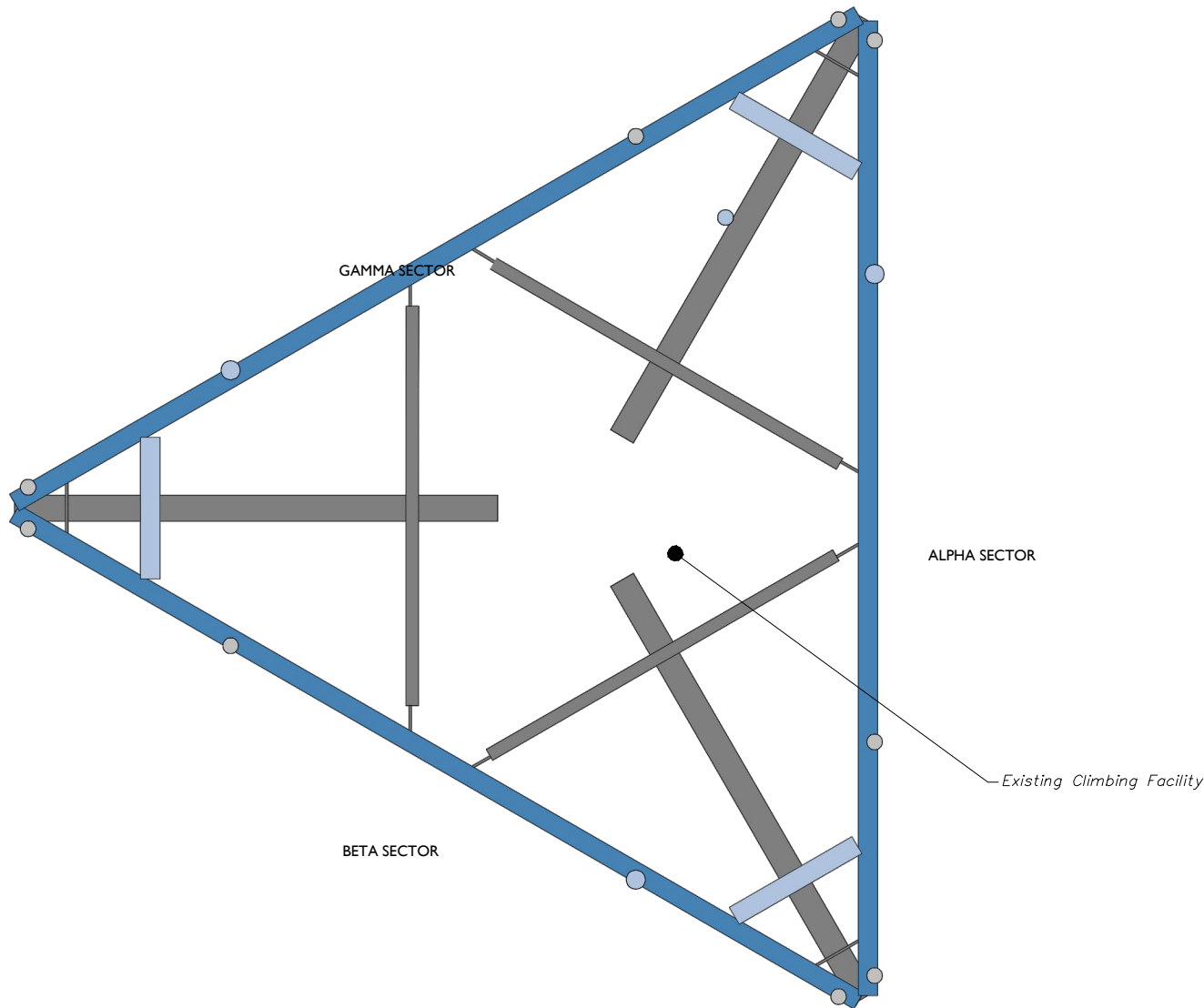
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).

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 |
- The diagram illustrates a typical bolt assembly. It shows a central vertical bolt passing through a series of components. From left to right, there is a lock washer, a nut, the bolt itself, and another nut. Labels with leader lines point to the 'LOCK WASHER', 'BOLT', and 'NUT'.
- 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.
- The diagram, titled 'ALLOWABLE COPING', shows three cross-sectional views of steel members with different coping configurations. The first view on the left shows a member with two circular holes, with dimensions for 'EDGE' and 'SPACING' indicated. The middle view shows a member with a sloped coping, with a 30-degree angle marked and a label 'LIMIT OF ALLOWABLE COPE WITHOUT PRIOR EOR APPROVAL'. The third view on the right shows a member with a rectangular coping, with a dimension for 'GAGE' indicated.
- The logo for Colliers Engineering & Design, featuring the company name in a serif font next to a stylized 'C' icon.
- www.colliersengineering.com
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- The logo for MASER CONSULTING, featuring the word 'MASER' in a bold, sans-serif font with 'CONSULTING' in a smaller font below it, preceded by the phrase 'Doing Business as'.
- The Verizon logo, consisting of the word 'verizon' in a bold, sans-serif font with a red checkmark symbol to the right.
- The 811 logo, featuring the number '811' in a large, bold font with a small icon of a shovel digging.
- Know what's below. Call before you dig.
- FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM
- | | | | |
|-----------------|----------|-------------------------|---------------------|
| SCALE: AS SHOWN | | JOB NUMBER: 21777126 | |
| 3 | 05/04/23 | ISSUED FOR CONSTRUCTION | NL PMA |
| 2 | 01/09/22 | ISSUED FOR CONSTRUCTION | MKS DX |
| 1 | 11/11/22 | ISSUED FOR CONSTRUCTION | MKS DX |
| REV | DATE | DESCRIPTION | DRAWN BY CHECKED BY |
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C.T. JPC.0000131
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- SITE NAME:
- OXFORD W CT
467421
20 GREAT OAK RD
OXFORD, CT 06478
NEW HAVEN COUNTY
- The logo for Colliers Engineering & Design, featuring the company name in a serif font next to a stylized 'C' icon.
- Engineering & Design
- STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
- Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING
- SHEET TITLE:
- GENERAL NOTES
- SHEET NUMBER:
- SGN-I
- NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.
- \\cplbld1\225841\Templates\Mount MOD.dwg\$GSA1
By: NAKPRTRE



1 CLIMBING FACILITY LOCATION
SCALE : N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY HUDSON DESIGN GROUP, LLC ON 3/24/2022, CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (138'-6") ARE IN GOOD CONDITION. COLLIERS ENGINEERING & DESIGN DOES NOT WARRANT THIS INFORMATION.
- 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.



CLIMBING FACILITY PHOTO

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
3	05/04/23	ISSUED FOR CONSTRUCTION	NL	PMA
2	01/09/22	ISSUED FOR CONSTRUCTION	MKS	DX
1	11/11/22	ISSUED FOR CONSTRUCTION	MKS	DX

SITE NAME:

OXFORD W CT
467421

20 GREAT OAK RD
OXFORD, CT 06478
NEW HAVEN COUNTY

LEGEND:

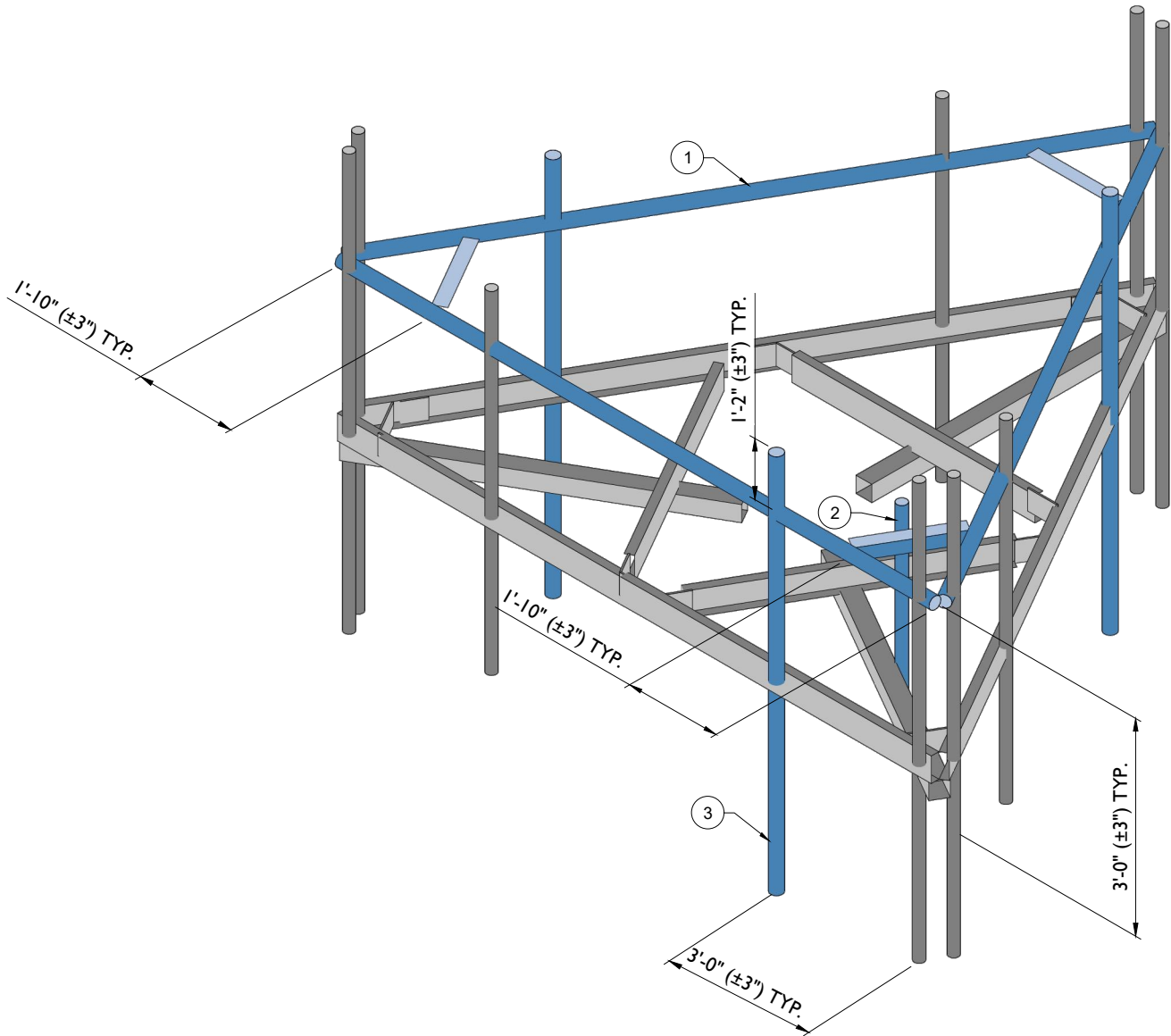
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	138'-6"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-I. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN.
2		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).
3		3	PROPOSED 96" LONG, PIPE 2.5 SCH40 (PART #: VZWSMART-P40-278X096)	REMOVE EXISTING MOUNT PIPE SIN POSITION 2 AND CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH 5/8" DIA. J429 GR.2 U-BOLTS AND CONNECT TO SUPPORT RAIL WITH CROSSOVER PLATES PROVIDED IN THE SUPPORT RAIL KIT (PART #: VZWSMART-PLK1).

GENERAL NOTES:

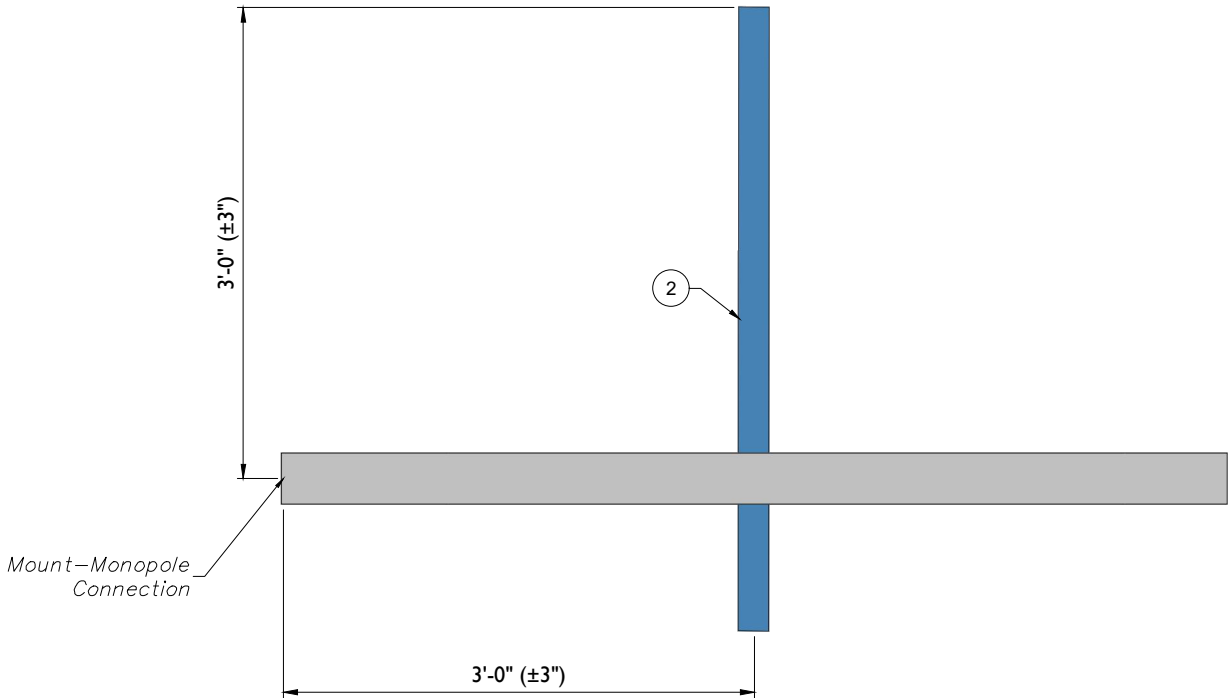
A. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1

PROPOSED ISOMETRIC VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.



2

PROPOSED STANDOFF SIDE ELEVATION VIEW (GAMMA/ALPHA SECTOR ONLY)

SCALE : N.T.S.



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WWW.CALL811.COM

SCALE : AS SHOWN

JOB NUMBER: 21777126

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
3	05/04/23	ISSUED FOR CONSTRUCTION	NL	PMA
2	01/09/22	ISSUED FOR CONSTRUCTION	MKS	DX
1	11/11/22	ISSUED FOR CONSTRUCTION	MKS	DX

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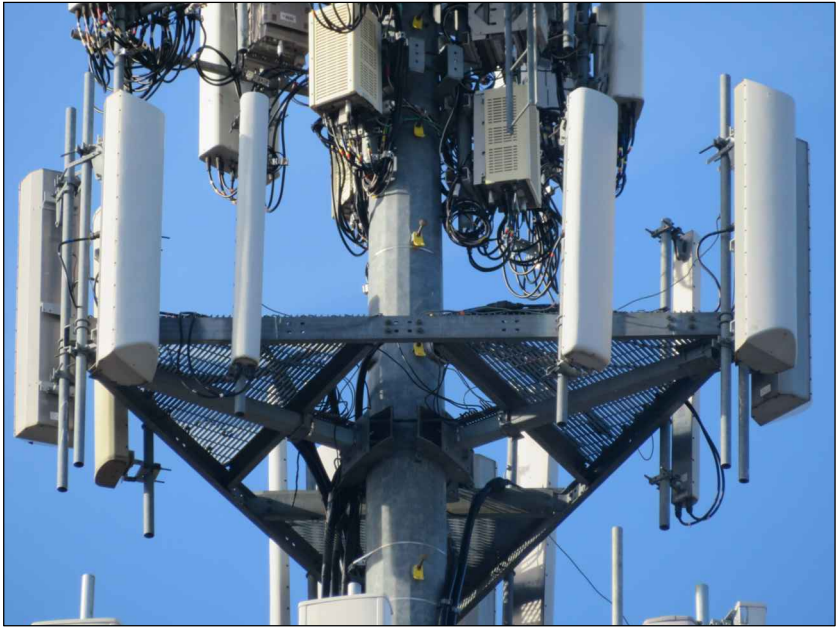
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:

MODIFICATION DETAILS

SHEET NUMBER:

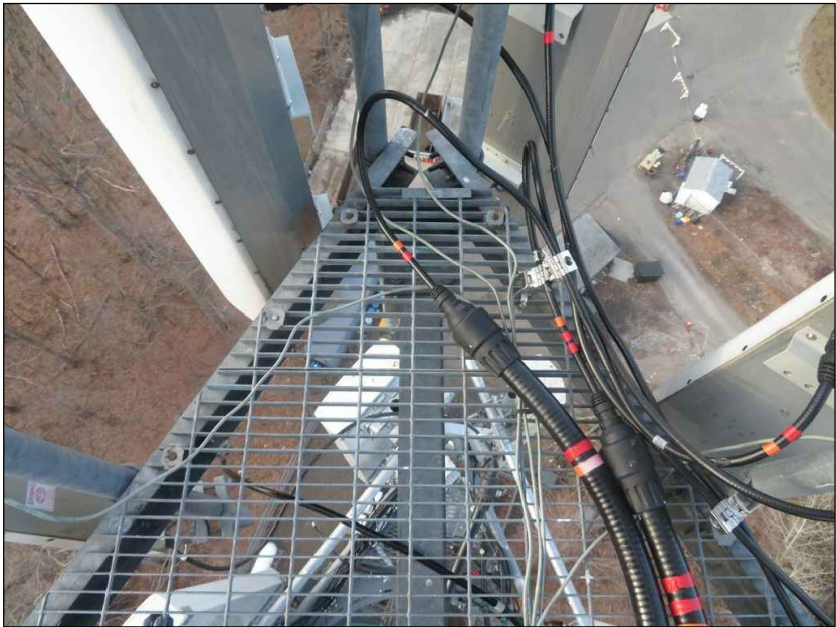
SS-1



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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SCALE: AS SHOWN

JOB NUMBER: 21777126

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
3	05/04/23	ISSUED FOR CONSTRUCTION	NL	PMA
2	01/09/22	ISSUED FOR CONSTRUCTION	MKS	DX
1	11/11/22	ISSUED FOR CONSTRUCTION	MKS	DX

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1055 Washington Boulevard
Stamford, CT 06901

Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:

MOUNT PHOTOS

SHEET NUMBER:

SS-2

FOR REFERENCE
ONLY

DRAWN BY: H.R. CHECKED BY: HMA

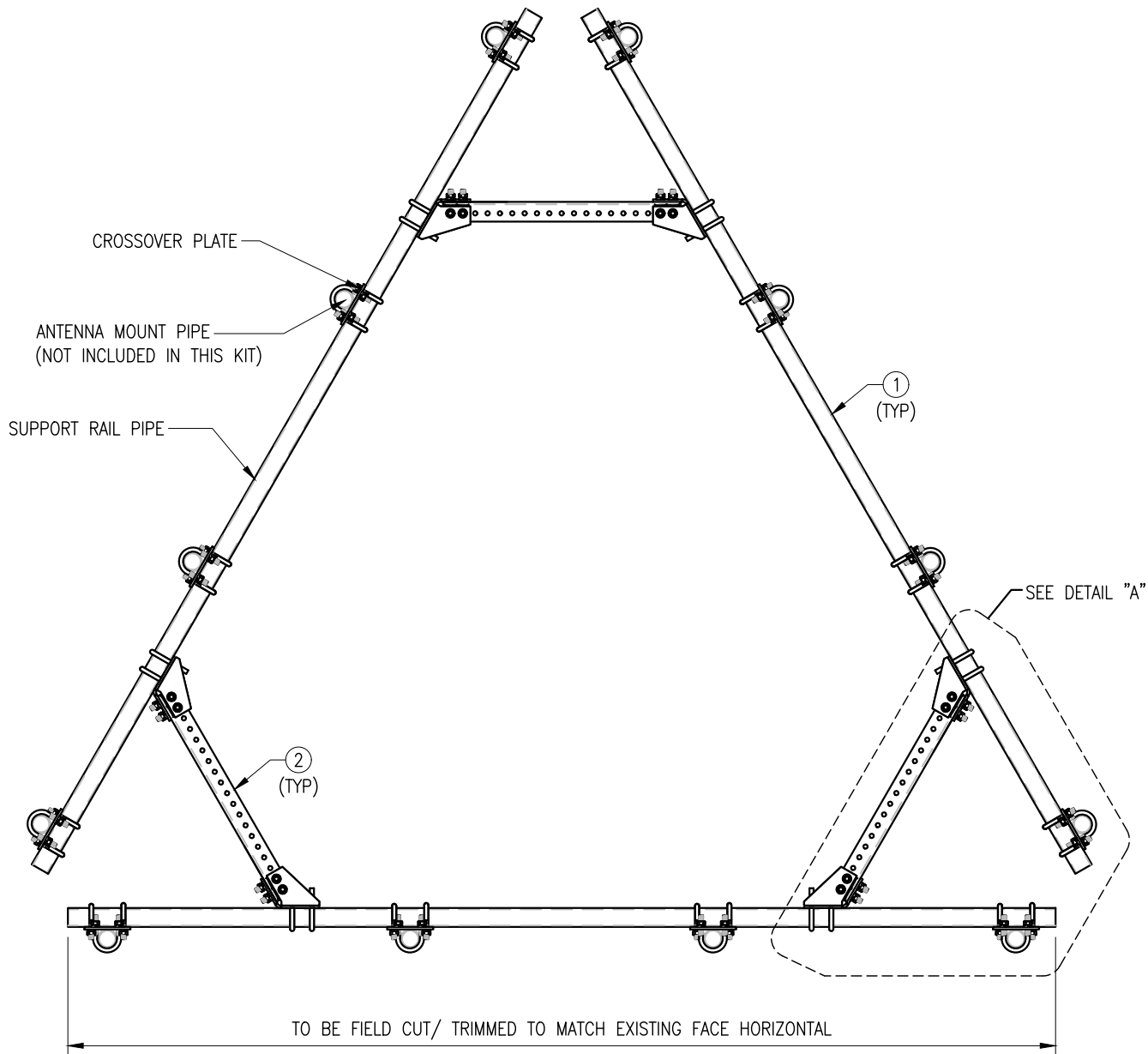
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R.	05/08/20
△			
△			
△			

SHEET TITLE:

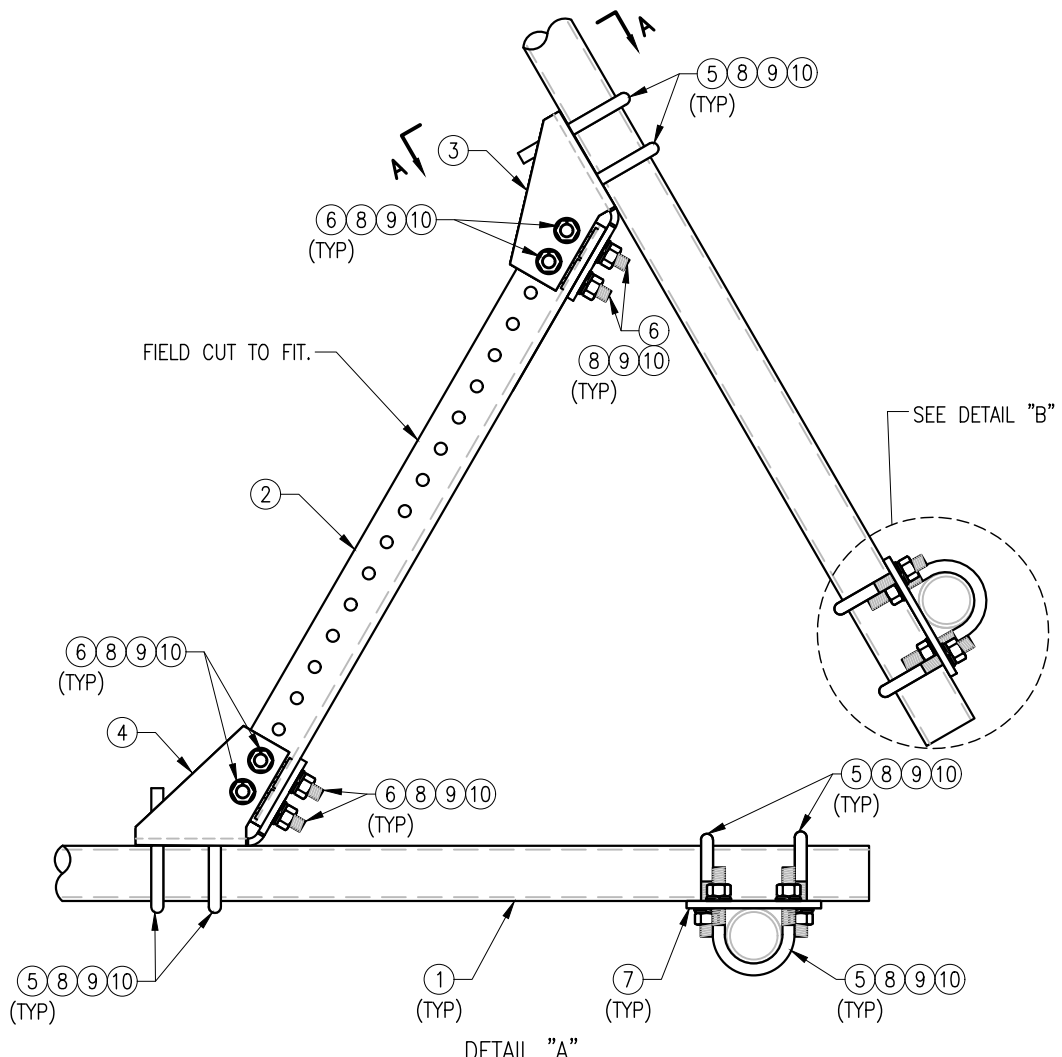
VZWSMART-PLK1
SUPPORT RAIL KIT

SHEET NUMBER: REV #:

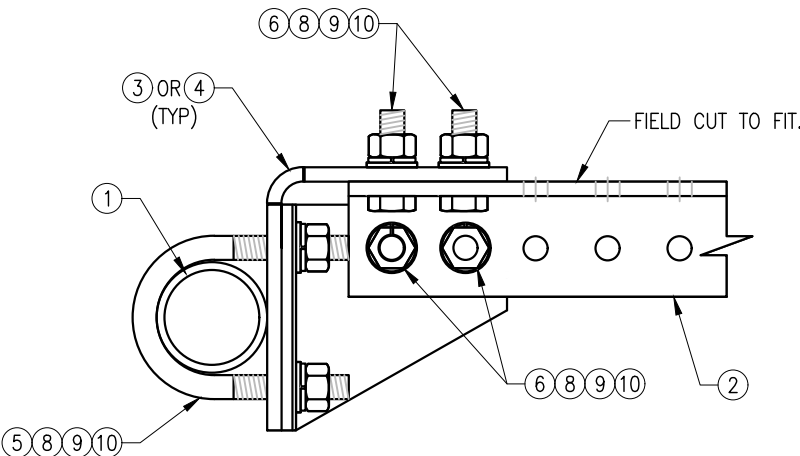
VZWSMART-PLK1 0



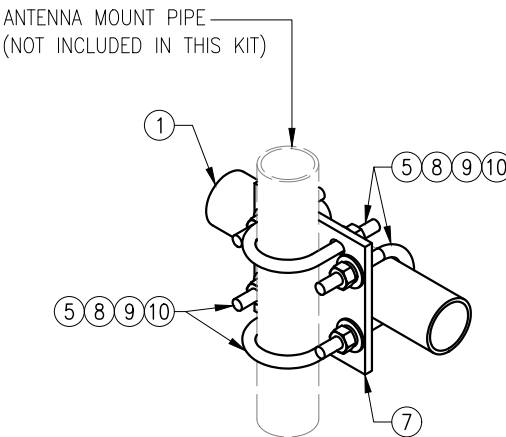
PLAN VIEW



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 7'-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



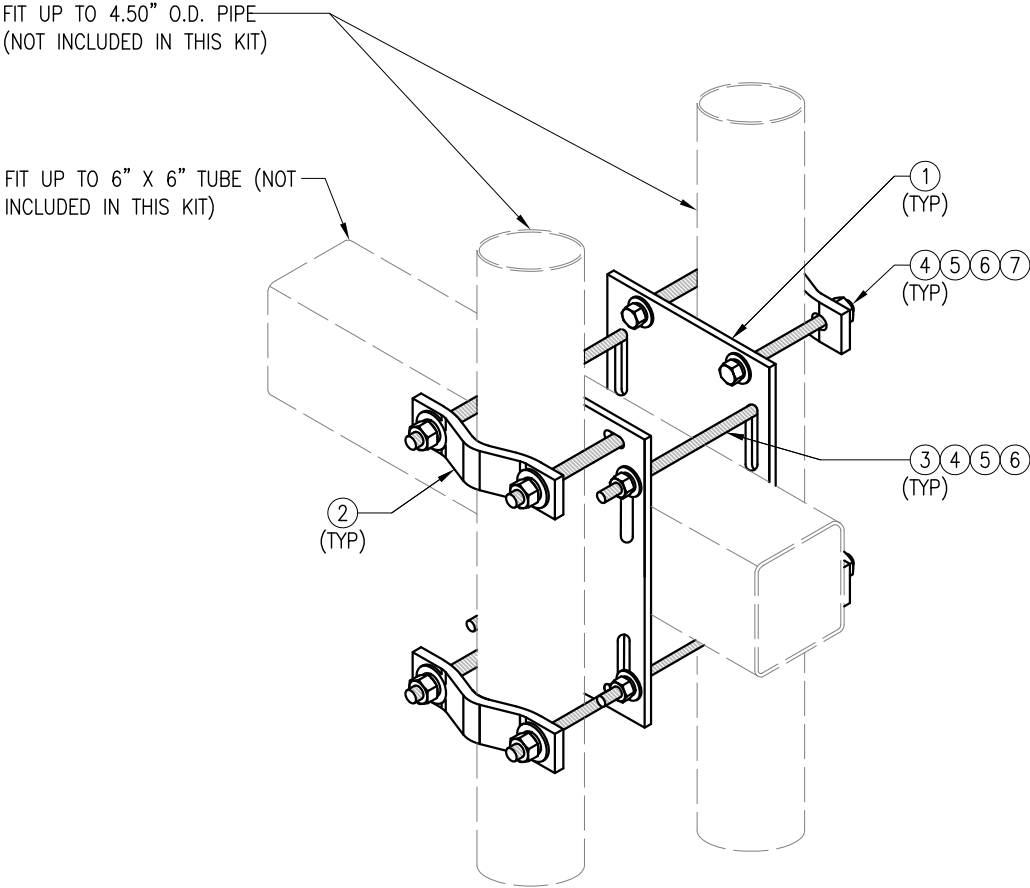
FOR REFERENCE
ONLY

DRAWN BY: SK CHECKED BY: BT/KW

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	SK	05/08/20

SHEET TITLE:
VZWSMART-MSK6
BACK TO BACK
CROSSOVER

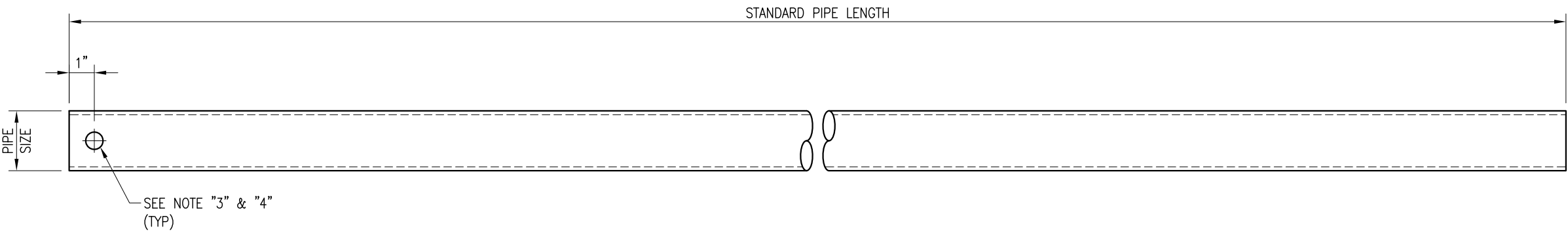
SHEET NUMBER: VZWSMART-MSK6	REV #: 0
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ISOMETRIC VIEW
BACK TO BACK CROSSOVER

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	VCP	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.



VZWSMART Standard Pipe		
VZWSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	126"
P40-238X150	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	150"
P40-238X174	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	174"
P40-278X048	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	48"
P40-278X072	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	72"
P40-278X096	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	96"
P40-278X120	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	120"
P40-278X126	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	126"
P40-278X150	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	150"
P40-278X174	PIPE 2.5 SCH40 (2.875" OD x 0.203" THK)	174"
P40-312X048	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	48"
P40-312X072	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	72"
P40-312X126	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	126"
P40-312X150	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	150"
P40-312X174	PIPE 3 SCH40 (3.5" OD x 0.216" THK)	174"

NOTE:
APPROVED SMART KIT VENDORS ARE ALLOWED TO SUBSTITUTE AT THEIR DISCRETION
PIPES LISTED ON THIS PAGE FOR CUSTOM LENGTH COMPONENTS OF MATCHING SIZE.
SUBSTITUTIONS SHALL MEET THE ORIGINAL STRUCTURAL INTENT.

- NOTES:
1. ALL PIPE GRADE A53-B OR BETTER.
 2. HOT-DIPPED GALVANIZED PER ASTM A123.
 3. ALL HOLES ARE 11/16" DIA. U.N.O
 4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
 5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

VzW
SMART Tool[©]
Vendor



FOR REFERENCE
ONLY

DRAWN BY: BT CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	08/04/21

SHEET TITLE:

VZWSMART
STANDARD PIPE

SHEET NUMBER: REV #:

VZWSMART-PIPE

0



FCC

1209789

Tower Owner:	CROWN CASTLE
--------------	--------------

Site Name:	OXFORD WEST CT
------------	----------------

Site Number or ID:	467421
--------------------	--------

Mapping Contractor:	HUDSON DESIGN GROUP, LLC.
---------------------	---------------------------

Mapping Date:

3/24/2021

Tower Type:

Monopole

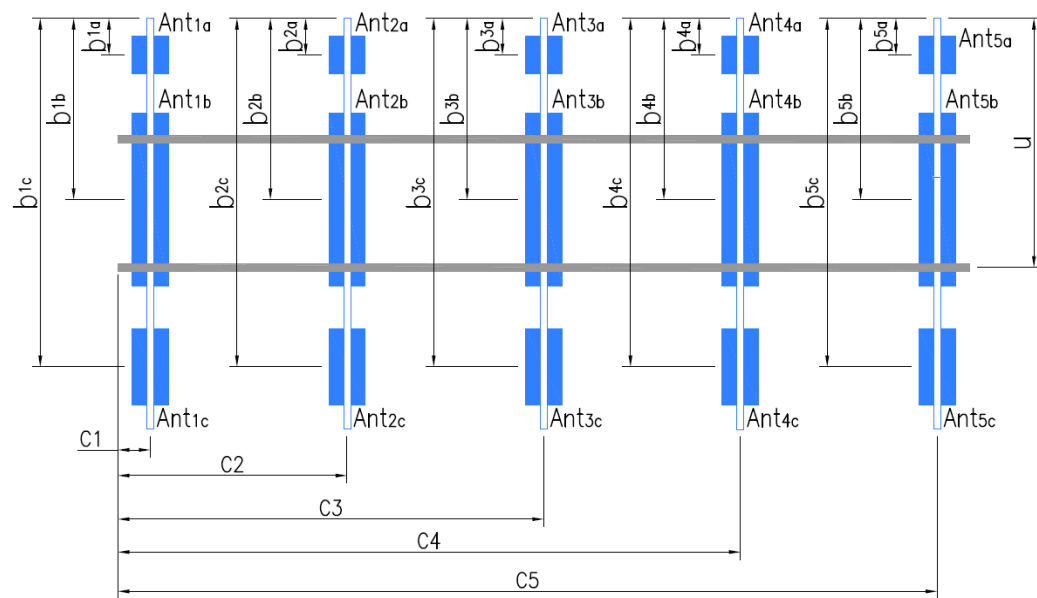
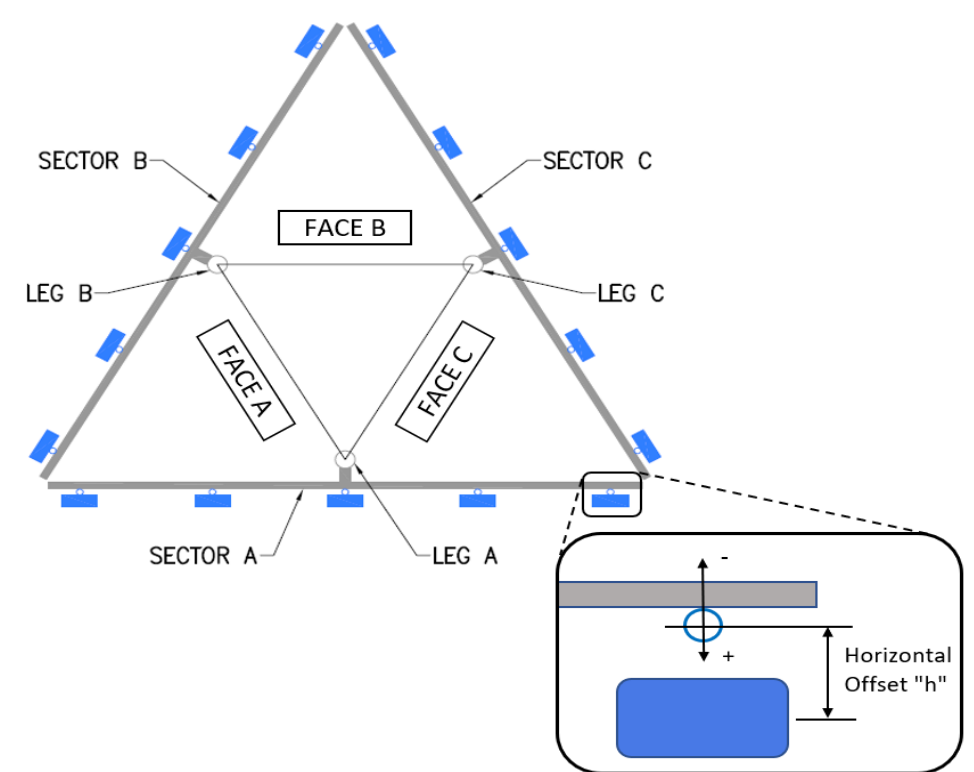
Tower Height (Ft.):

Mount Elevation (Ft.):	
------------------------	--

140

Hand-drawn technical drawing of a tripod. The drawing includes the following dimensions and labels:

- Overall height: 53"
- Top section height: 8"
- Horizontal distance from center to leg base: $33\frac{1}{2}"$
- Vertical distance from horizontal line to center: $15\frac{1}{2}"$
- Leg length: 32"
- Top section length: 32"
- Bottom section length: 32"
- Leg base width: 12"
- Leg base angle: 110°
- Leg base angle: 120°
- Leg base angle: 130°
- Leg base angle: 140°
- Leg base angle: 150°
- Leg base angle: 160°
- Leg base angle: 170°
- Leg base angle: 180°
- Leg base angle: 190°
- Leg base angle: 200°
- Leg base angle: 210°
- Leg base angle: 220°
- Leg base angle: 230°
- Leg base angle: 240°
- Leg base angle: 250°
- Leg base angle: 260°
- Leg base angle: 270°
- Leg base angle: 280°
- Leg base angle: 290°
- Leg base angle: 300°
- Leg base angle: 310°
- Leg base angle: 320°
- Leg base angle: 330°
- Leg base angle: 340°
- Leg base angle: 350°
- Leg base angle: 360°



Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2" STD. PIPE X 105" LONG	62.00	3.00	C1	2" STD. PIPE X 105" LONG	62.00	3.00
A2	2" E.H. PIPE X 84" LONG	50.00	39.00	C2	2" E.H. PIPE X 84" LONG	50.00	39.00
A3	2" E.H. PIPE X 84" LONG	50.00	111.00	C3	2" E.H. PIPE X 84" LONG	50.00	111.00
A4	2" STD. PIPE X 105" LONG	62.00	147.00	C4	2" STD. PIPE X 105" LONG	62.00	147.00
A5				C5			
A6				C6			
B1	2" STD. PIPE X 105" LONG	62.00	3.00	D1			
B2	2" E.H. PIPE X 84" LONG	50.00	39.00	D2			
B3	2" E.H. PIPE X 84" LONG	50.00	111.00	D3			
B4	2" STD. PIPE X 105" LONG	62.00	147.00	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.) :							5.5
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							4.2
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):					16.5

[illegible]

[illegible]

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

1	(18) 1-5/8" COAX	
2	WALL THICKNESS .191, .187, .195	38
3		
4		
5		
6		
7		
8		

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



Antenna Mount Mapping Form (PATENT PENDING)

FCC #

1209789

Tower Owner:	CROWN CASTLE	Mapping Date:	3/24/2021
Site Name:	OXFORD WEST CT	Tower Type:	Monopole
Site Number or ID:	467421	Tower Height (Ft.):	
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	Mount Elevation (Ft.):	140

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

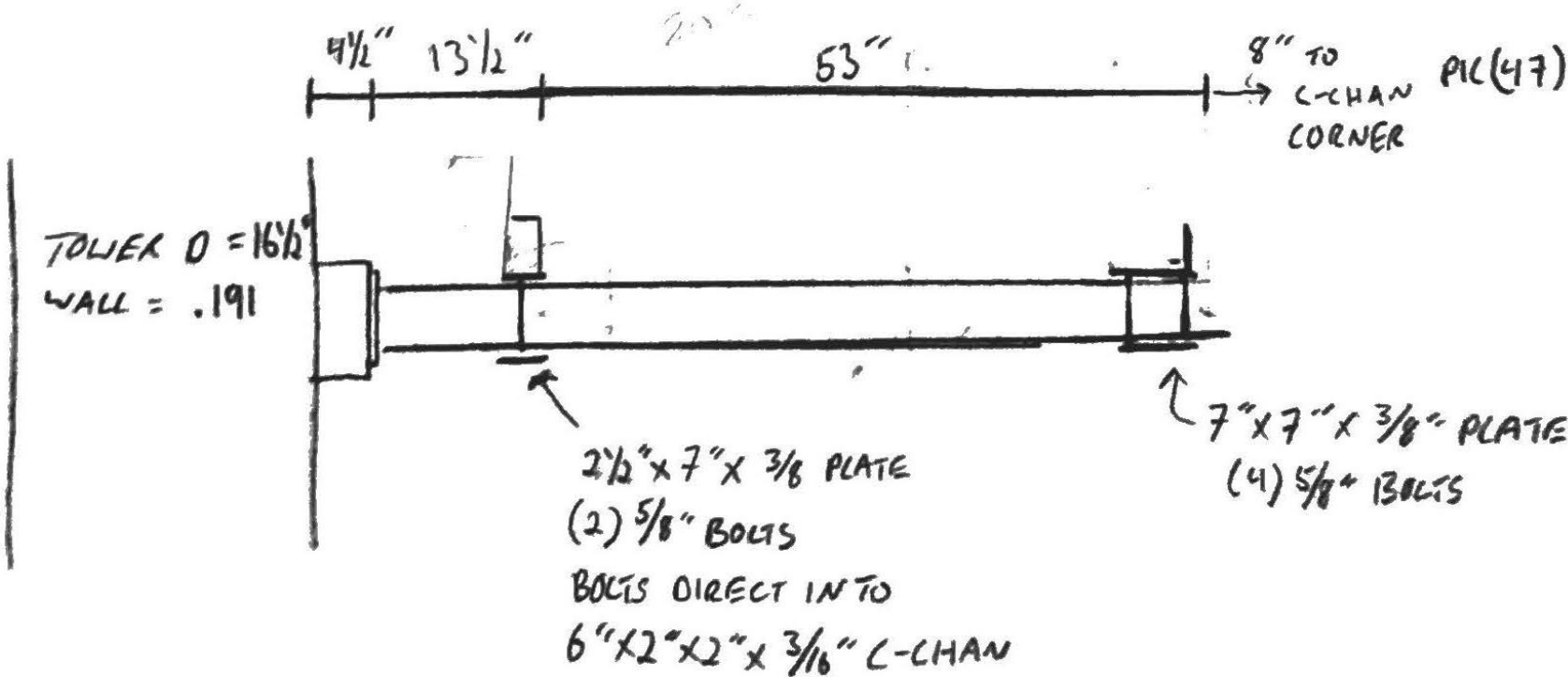
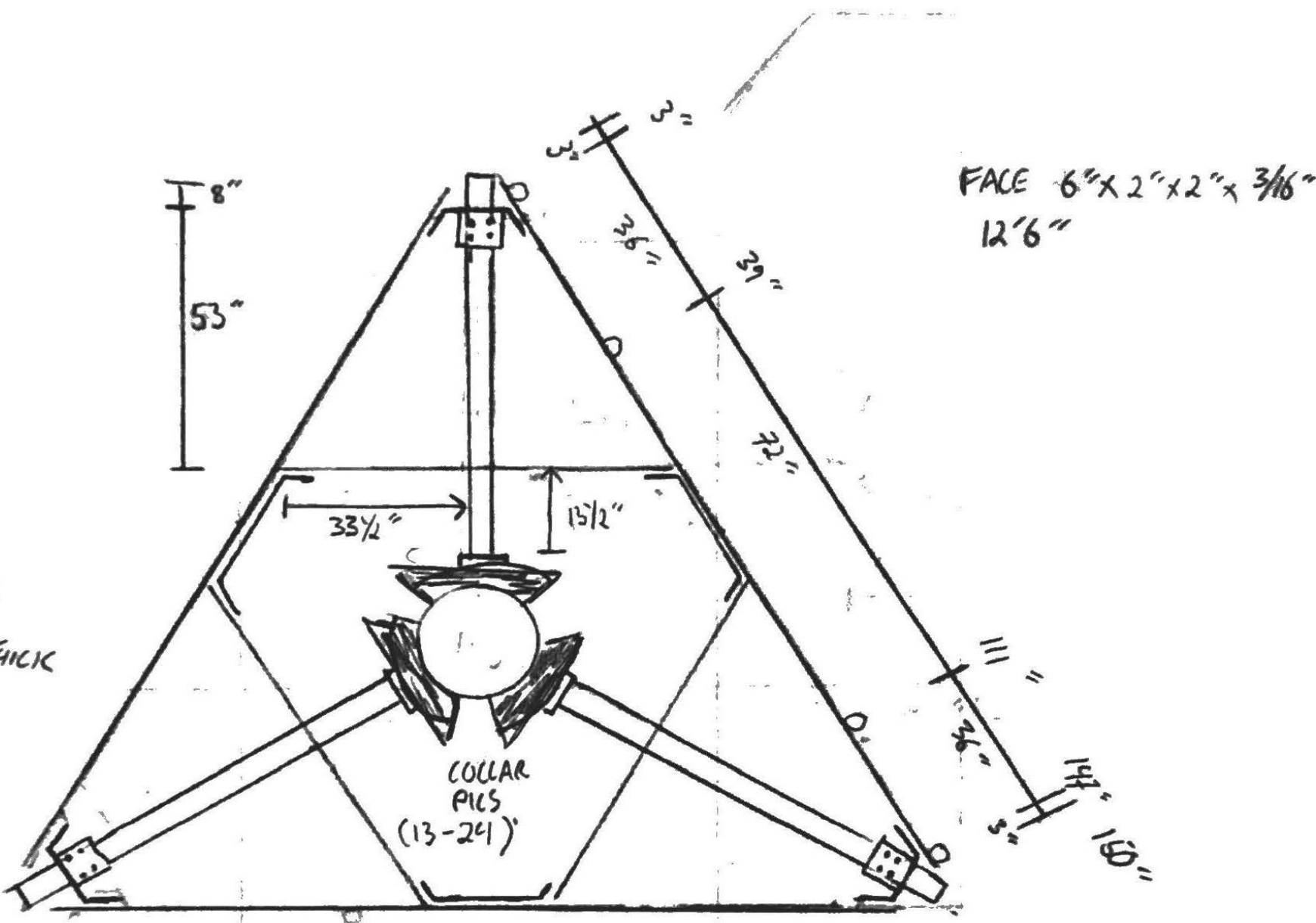
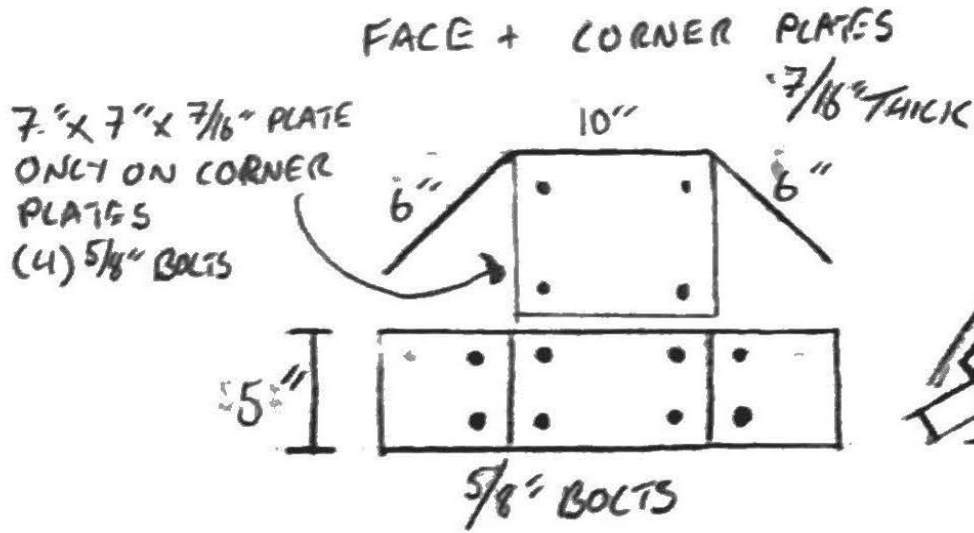
Please Insert Sketches of the Antenna Mount

DATE: _____
Project Name: _____
Project No.: OXFORD WEST CT
Design By: _____ Chk'd By: _____

Page 2 of 2



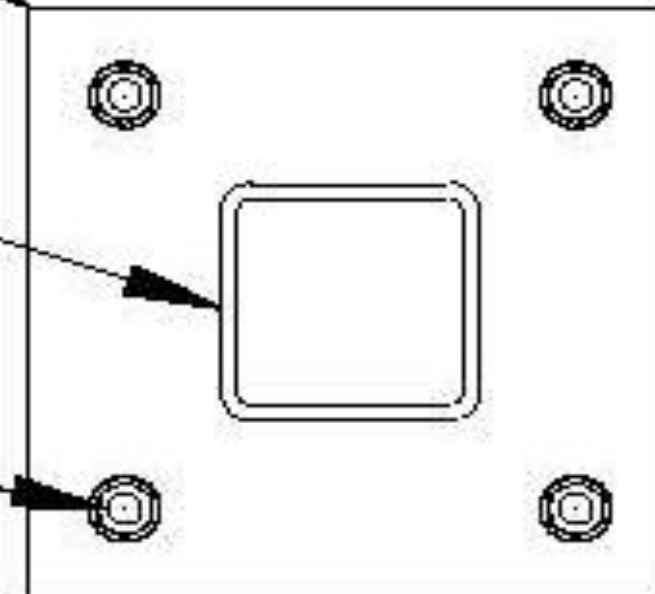
FACE PIPE CL = 140"
COLLAR = 9" x 7/16"
RODS = (2) 3/4"
PLATE = 11 1/2" x 11 1/2" x 5/8"
BOLTS = (4) 5/8"
HSS = 4" x 4" x .220
T-F = 36"
T-A = 80"



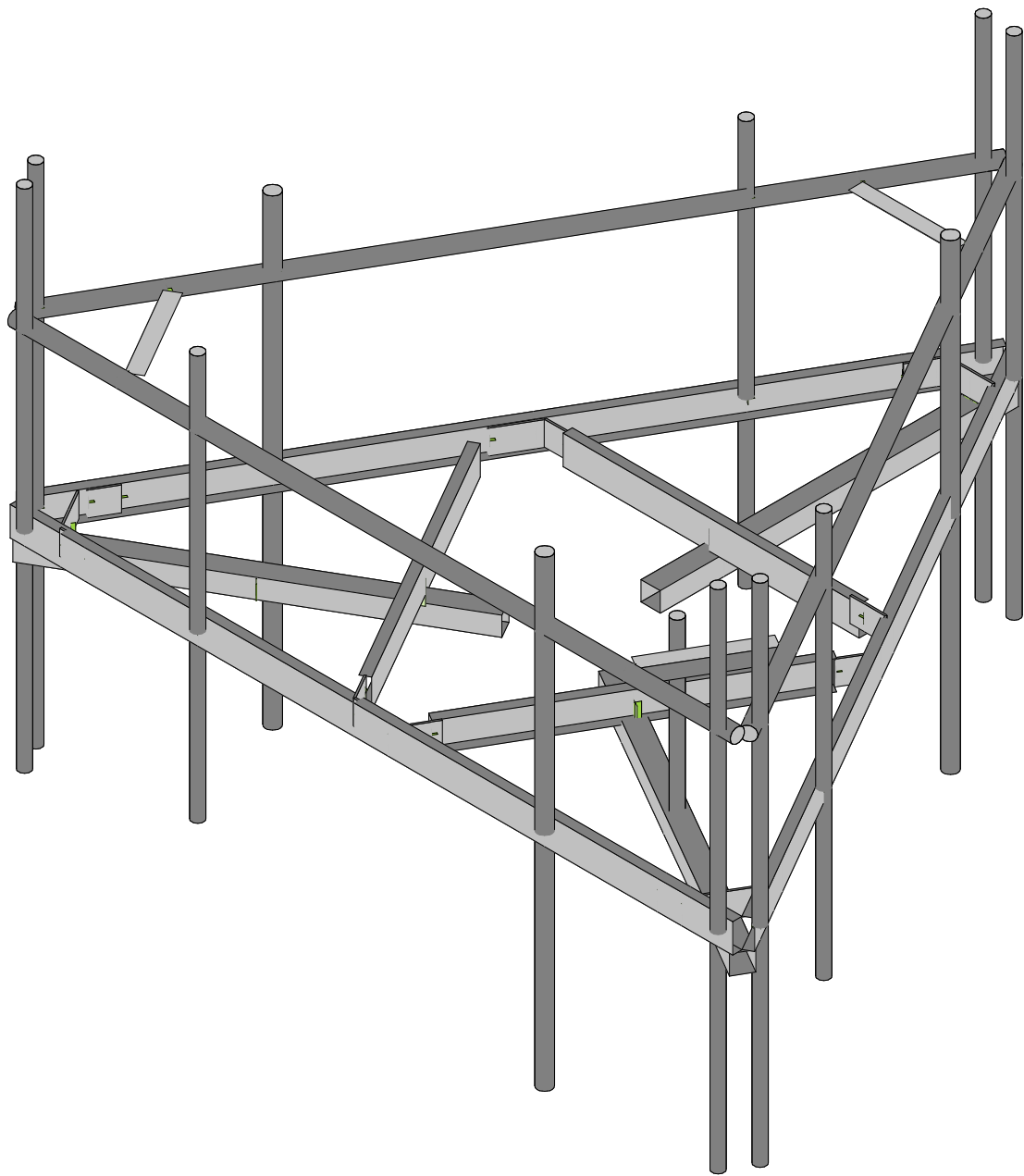
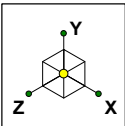
11-1/2" X 11-1/2" X
5/8" THK. PLATE

4" X 4" X 1/4" THK.
HSS

(4) 5/8"Ø BOLTS

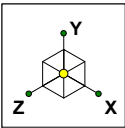


STANDOFF MOUNT CONNECTION DETAIL

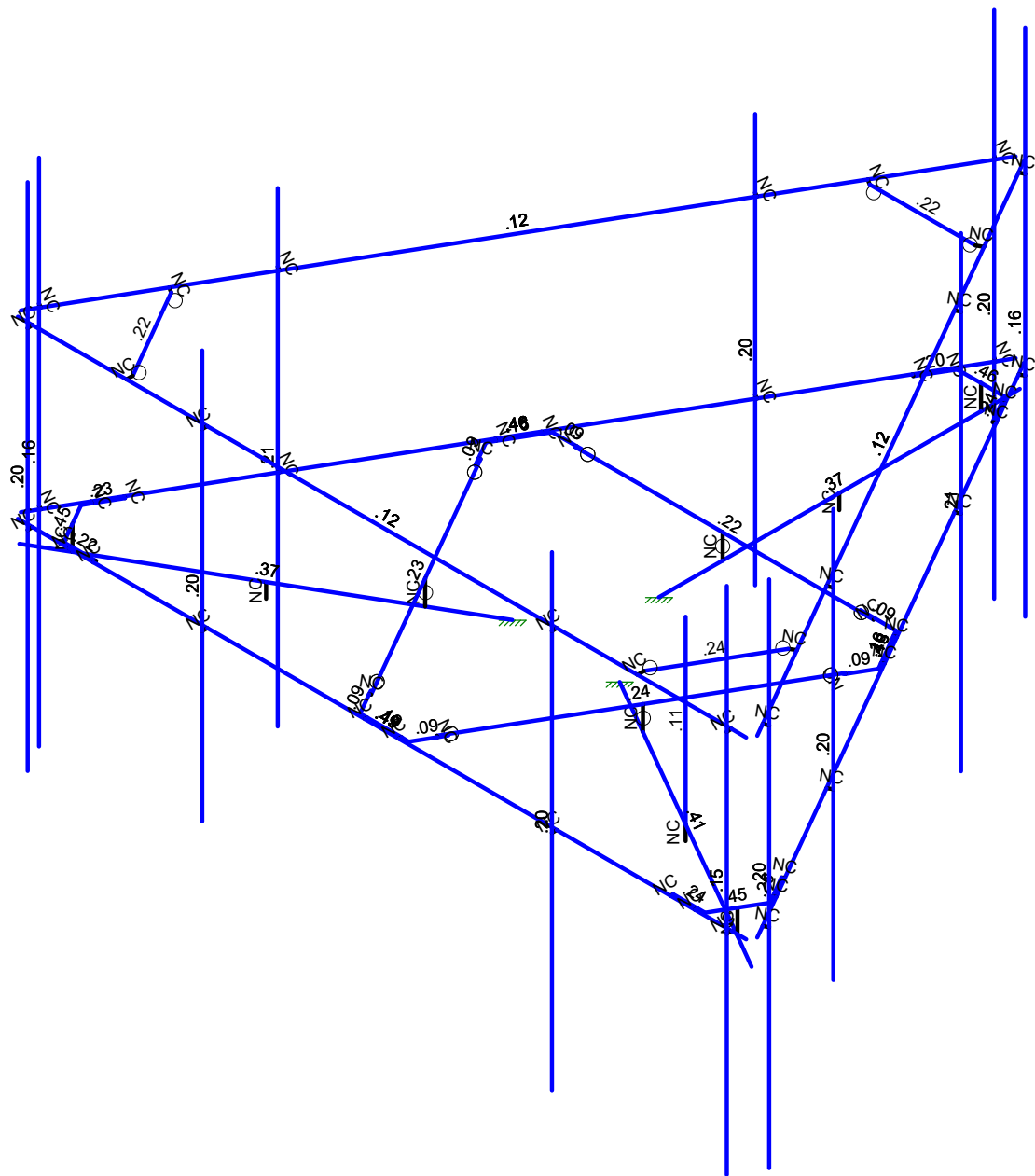


Envelope Only Solution

Colliers Engineering & De...	5000381735-VZW_MT_LO_H	SK - 1
NL		Nov 10, 2023 at 1:20 PM
Project No. 10213431		Mod_5000381735-VZW_MT_LO_...

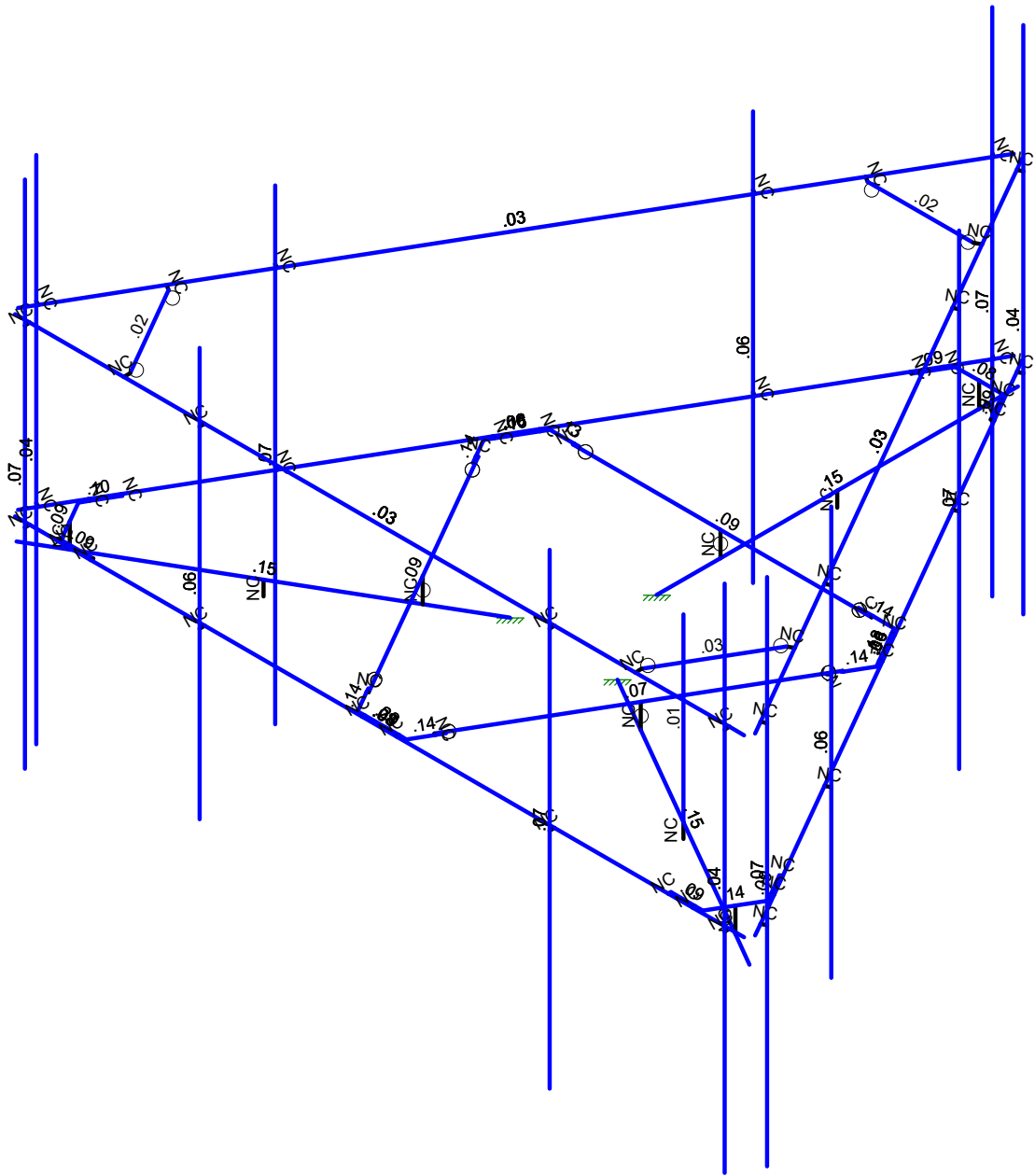
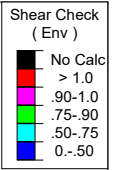
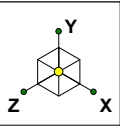


Code Check (Env)	
No Calc	> 1.0
> 1.0	.90-.1.0
.90-.1.0	.75-.90
.75-.90	.50-.75
.50-.75	0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...	5000381735-VZW_MT_LO_H	SK - 2
NL		Nov 10, 2023 at 1:21 PM
Project No. 10213431		Mod_5000381735-VZW_MT_LO_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...

NL

Project No. 10213431

5000381735-VZW_MT_LO_H

SK - 3

Nov 10, 2023 at 1:21 PM

Mod_5000381735-VZW_MT_LO_...

Basic Load Cases

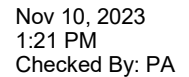
	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					75		
2	Antenna Di	None					75		
3	Antenna Wo (0 Deg)	None					75		
4	Antenna Wo (30 Deg)	None					75		
5	Antenna Wo (60 Deg)	None					75		
6	Antenna Wo (90 Deg)	None					75		
7	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						46	3
41	Structure Wo (0 Deg)	None						92	
42	Structure Wo (30 Deg)	None						92	
43	Structure Wo (60 Deg)	None						92	
44	Structure Wo (90 Deg)	None						92	
45	Structure Wo (120 D...	None						92	
46	Structure Wo (150 D...	None						92	
47	Structure Wo (180 D...	None						92	
48	Structure Wo (210 D...	None						92	
49	Structure Wo (240 D...	None						92	
50	Structure Wo (270 D...	None						92	
51	Structure Wo (300 D...	None						92	
52	Structure Wo (330 D...	None						92	
53	Structure Wi (0 Deg)	None						92	
54	Structure Wi (30 Deg)	None						92	
55	Structure Wi (60 Deg)	None						92	
56	Structure Wi (90 Deg)	None						92	

Basic Load Cases (Continued)

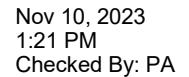
	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						92	
58	Structure Wi (150 De...	None						92	
59	Structure Wi (180 De...	None						92	
60	Structure Wi (210 De...	None						92	
61	Structure Wi (240 De...	None						92	
62	Structure Wi (270 De...	None						92	
63	Structure Wi (300 De...	None						92	
64	Structure Wi (330 De...	None						92	
65	Structure Wm (0 Deg)	None						92	
66	Structure Wm (30 De...	None						92	
67	Structure Wm (60 De...	None						92	
68	Structure Wm (90 De...	None						92	
69	Structure Wm (120 D...	None						92	
70	Structure Wm (150 D...	None						92	
71	Structure Wm (180 D...	None						92	
72	Structure Wm (210 D...	None						92	
73	Structure Wm (240 D...	None						92	
74	Structure Wm (270 D...	None						92	
75	Structure Wm (300 D...	None						92	
76	Structure Wm (330 D...	None						92	
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		-.043					3
85	Structure Eh (0 Deg)	ELZ			-.107				3
86	Structure Eh (90 Deg)	ELX	.107						3
87	BLC 39 Transient Are...	None						47	
88	BLC 40 Transient Are...	None						30	
89	BLC 84 Transient Are...	None						68	
90	BLC 85 Transient Are...	None						68	
91	BLC 86 Transient Are...	None						68	

Load Combinations

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



RISA-3D Version 17.0.4 [R:\.....\Rev. 3\Risa\Mod 5000381735-VZW MT LO H.r3d] Page 3

[illegible]

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N153	-0.405938	0.420033	-6.590493	0	
2	N160	0.405854	0.420033	-6.590493	0	
3	N1	-0.000043	-0.	-1.062533	0	
4	N2	-0.000043	-0.	-7.257159	0	
5	N3	0.920109	-0.	0.531217	0	
6	N4	6.284813	-0.	3.62853	0	
7	N5	-0.920195	-0.	0.531217	0	
8	N6	-6.284899	-0.	3.62853	0	
9	N14	3.340375	0.420033	-1.592129	0	
10	N16	3.048961	0.420033	-2.096872	0	
11	N18	-3.340588	0.420033	-1.59191	0	
12	N20	-3.048921	0.420033	-2.097091	0	
13	N22	0.291371	0.420033	3.688902	0	
14	N24	-0.291962	0.420033	3.688902	0	
15	N28	2.337036	0.420033	-2.184815	0	
16	N40	-0.681884	0.420033	-6.11254	0	
17	N51	2.591215	0.420033	-2.155438	0	
18	N57	-2.533324	0.420033	-2.159745	0	
19	N61	-0.000043	0.420033	-6.590493	0	
20	N62	-0.000043	-0.	-6.590493	0	
21	N71	-0.001437	0.420033	-2.157617	0	
22	N72	-4.3e-5	0	-2.157617	0	
23	N85	-0.069754	0.420033	-7.257159	0	
24	N86	-6.319754	0.420033	3.568158	0	
25	N87	-6.266923	-3.1633	3.309985	0	
26	N88	-6.266923	5.5867	3.309985	0	
27	N89	-4.766923	-3.4133	0.711909	0	
28	N90	-4.766923	4.5867	0.711909	0	
29	N91	-6.266923	0.420033	3.309985	0	
30	N92	-6.194754	0.420033	3.351652	0	
31	N93	-4.766923	0.420033	0.711909	0	
32	N94	-4.694754	0.420033	0.753576	0	
33	N95	-1.766923	-2.4133	-4.484243	0	
34	N96	-1.766923	4.5867	-4.484243	0	
35	N97	-1.766923	0.420033	-4.484243	0	
36	N98	-1.694754	0.420033	-4.442577	0	
37	N99	-0.266923	-3.1633	-7.08232	0	
38	N100	-0.266923	5.5867	-7.08232	0	
39	N101	-0.266923	0.420033	-7.08232	0	
40	N102	-0.194754	0.420033	-7.040653	0	
41	N103	-6.250043	0.420033	3.688902	0	
42	N104	6.249957	0.420033	3.688902	0	
43	N105	5.999957	-3.1633	3.772235	0	
44	N106	5.999957	5.5867	3.772235	0	
45	N107	2.999957	-3.4133	3.772235	0	
46	N108	2.999957	4.5867	3.772235	0	
47	N109	5.999957	0.420033	3.772235	0	
48	N110	5.999957	0.420033	3.688902	0	
49	N111	2.999957	0.420033	3.772235	0	
50	N112	2.999957	0.420033	3.688902	0	
51	N113	-3.000043	-2.4133	3.772235	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N114	-3.000043	4.5867	3.772235	0	
53	N115	-3.000043	0.420033	3.772235	0	
54	N116	-3.000043	0.420033	3.688902	0	
55	N117	-6.000043	-3.1633	3.772235	0	
56	N118	-6.000043	5.5867	3.772235	0	
57	N119	-6.000043	0.420033	3.772235	0	
58	N120	-6.000043	0.420033	3.688902	0	
59	N121	6.319668	0.420033	3.568158	0	
60	N122	0.069668	0.420033	-7.257159	0	
61	N123	0.266837	-3.1633	-7.08232	0	
62	N124	0.266837	5.5867	-7.08232	0	
63	N125	1.766837	-3.4133	-4.484243	0	
64	N126	1.766837	4.5867	-4.484243	0	
65	N127	0.266837	0.420033	-7.08232	0	
66	N128	0.194668	0.420033	-7.040653	0	
67	N129	1.766837	0.420033	-4.484243	0	
68	N130	1.694668	0.420033	-4.442577	0	
69	N131	4.766837	-2.4133	0.711909	0	
70	N132	4.766837	4.5867	0.711909	0	
71	N133	4.766837	0.420033	0.711909	0	
72	N134	4.694668	0.420033	0.753576	0	
73	N135	6.266837	-3.1633	3.309985	0	
74	N136	6.266837	5.5867	3.309985	0	
75	N137	6.266837	0.420033	3.309985	0	
76	N138	6.194668	0.420033	3.351652	0	
77	N142	-0.000043	-0.	-0.000033	0	
78	N140	3.602461	-0.	2.079873	0	
79	N141	3.602461	3.0867	2.079873	0	
80	N142A	0.291371	0.420033	3.646712	0	
81	N144	-0.291962	0.420033	3.646712	0	
82	N144A	-3.30405	0.420033	-1.570815	0	
83	N146	-3.012383	0.420033	-2.075996	0	
84	N146A	3.303838	0.420033	-1.571034	0	
85	N148	3.012424	0.420033	-2.075778	0	
86	N148A	0.416371	0.420033	3.646668	0	
87	N150	-0.416457	0.420033	3.646668	0	
88	N144B	0.664492	0.420033	3.212576	0	
89	N145	-0.66662	0.420033	3.21375	0	
90	N146B	-3.366424	0.420033	-1.462781	0	
91	N148B	-2.95001	0.420033	-2.184031	0	
92	N142B	-3.116568	0.420033	-1.029684	0	
93	N143	-2.450011	0.420033	-2.184199	0	
94	N144C	3.366338	0.420033	-1.462781	0	
95	N146C	2.949924	0.420033	-2.184031	0	
96	N143A	3.139032	0.420033	-1.088161	0	
97	N147	-0.509754	0.420033	-6.495057	0	
98	N149	-0.718421	0.420033	-6.133635	0	
99	N152	-0.473217	0.420033	-6.473962	0	
100	N155	0.6818	0.420033	-6.11254	0	
101	N156	0.50967	0.420033	-6.495057	0	
102	N157	0.473133	0.420033	-6.473962	0	
103	N158	0.718337	0.420033	-6.133635	0	
104	N139	-5.707548	0.420033	3.295197	0	
105	N161	-5.707548	-0.	3.295197	0	
106	N162	-5.843217	0.420033	2.827149	0	
107	N163	-5.504601	0.420033	3.646712	0	
108	N164	-4.952709	0.420033	3.646712	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N165	-5.370042	0.420033	3.688902	0	
110	N166	-5.370042	0.420033	3.646712	0	
111	N167	-4.952709	0.420033	3.688902	0	
112	N168	-5.634551	0.420033	2.465728	0	
113	N169	-5.879755	0.420033	2.806054	0	
114	N170	-5.671088	0.420033	2.444633	0	
115	N171	-5.910497	0.420033	2.94368	0	
116	N172	5.707463	0.420033	3.295197	0	
117	N173	5.707463	-0.	3.295197	0	
118	N174	5.369956	0.420033	3.646713	0	
119	N175	5.91041	0.420033	2.943681	0	
120	N176	5.634464	0.420033	2.465729	0	
121	N177	5.879668	0.420033	2.806055	0	
122	N178	5.843131	0.420033	2.82715	0	
123	N179	5.671002	0.420033	2.444634	0	
124	N180	4.952622	0.420033	3.646713	0	
125	N181	5.369956	0.420033	3.688903	0	
126	N182	4.952622	0.420033	3.688903	0	
127	N183	5.504514	0.420033	3.646713	0	
128	N154	-2.53331	0.420033	-2.184031	0	
129	N159	2.591167	0.420033	-2.18449	0	
130	N185	3.359924	0.420033	-1.47389	0	
131	N187	-1.867866	0.420033	1.07997	0	
132	N193	1.869178	0.420033	1.077548	0	
133	N151	-3.162307	0.420033	-1.166426	0	
134	N184	-0.603768	0.420033	3.273709	0	
135	N186	-3.187443	0.420033	-1.151858	0	
136	N189	-0.624807	0.420033	3.285839	0	
137	N190	0.570963	0.420033	3.321764	0	
138	N191	3.136963	0.420033	-1.114063	0	
139	N192	0.596147	0.420033	3.336249	0	
140	N195	3.157988	0.420033	-1.101908	0	
141	N143B	-0.069754	3.420033	-7.257159	0	
142	N144D	-6.319754	3.420033	3.568158	0	
143	N145A	-6.266923	3.420033	3.309985	0	
144	N146D	-6.194754	3.420033	3.351652	0	
145	N147A	-4.766923	3.420033	0.711909	0	
146	N148C	-4.694754	3.420033	0.753576	0	
147	N149A	-1.766923	3.420033	-4.484243	0	
148	N150A	-1.694754	3.420033	-4.442577	0	
149	N151A	-0.266923	3.420033	-7.08232	0	
150	N152A	-0.194754	3.420033	-7.040653	0	
151	N153A	-6.250043	3.420033	3.688902	0	
152	N154A	6.249957	3.420033	3.688902	0	
153	N155A	5.999957	3.420033	3.772235	0	
154	N156A	5.999957	3.420033	3.688902	0	
155	N157A	2.999957	3.420033	3.772235	0	
156	N158A	2.999957	3.420033	3.688902	0	
157	N159A	-3.000043	3.420033	3.772235	0	
158	N160A	-3.000043	3.420033	3.688902	0	
159	N161A	-6.000043	3.420033	3.772235	0	
160	N162A	-6.000043	3.420033	3.688902	0	
161	N163A	6.319668	3.420033	3.568158	0	
162	N164A	0.069668	3.420033	-7.257159	0	
163	N165A	0.266837	3.420033	-7.08232	0	
164	N166A	0.194668	3.420033	-7.040653	0	
165	N167A	1.766837	3.420033	-4.484243	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
166	N168A	1.694668	3.420033	-4.442577	0	
167	N169A	4.766837	3.420033	0.711909	0	
168	N170A	4.694668	3.420033	0.753576	0	
169	N171A	6.266837	3.420033	3.309985	0	
170	N172A	6.194668	3.420033	3.351652	0	
171	N173A	-0.907005	3.420033	-5.590493	0	
172	N174A	0.906919	3.420033	-5.590493	0	
173	N177A	-4.388006	3.420033	3.580735	0	
174	N178A	-5.294968	3.420033	2.009832	0	
175	N179A	5.295011	3.420033	2.009757	0	
176	N180A	4.388049	3.420033	3.580661	0	
177	N181A	-4.388006	3.420033	3.688902	0	
178	N182A	4.388049	3.420033	3.688902	0	
179	N183A	5.388686	3.420033	1.955674	0	
180	N184A	1.000658	3.420033	-5.644613	0	
181	N187A	-1.000679	3.420033	-5.644576	0	
182	N188A	-5.388707	3.420033	1.955711	0	
183	N184B	-1.86853	0	1.078846	0	
184	N186A	1.868573	0	1.078771	0	
185	N186B	-4.3e-5	-.25	-4.157617	0	
186	N187B	-4.3e-5	0	-4.157617	0	
187	N190A	-3.60058	-.25	2.078846	0	
188	N191A	-3.60058	0	2.078846	0	
189	N193A	3.600623	-.25	2.078771	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Mount Pipe EH	PIPE 2.0X	Column	Pipe	A53 Gr.B	Typical	1.4	.827	.827	1.65
3	Intermediate Horizontals	C6X8.2	Beam	RECT	A36 Gr.36	Typical	2.39	.687	13.1	.074
4	Face Horizontal	C6X8.2	Beam	Channel	A36 Gr.36	Typical	2.39	.687	13.1	.074
5	HSS Tubes	HSS4X4X3	Beam	SquareTube	A36 Gr.36	Typical	2.58	6.21	6.21	10
6	Corner Plates	PL3/8x5	Beam	RECT	A36 Gr.36	Typical	1.875	.022	3.906	.084
7	Face Plates	PL3/8x5	Beam	RECT	A36 Gr.36	Typical	1.875	.022	3.906	.084
8	Mount Pipe Double	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Support Rail	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
10	Support Rail Bracing	L3X3X3	Column	Single Angle	A36 Gr.36	Typical	1.09	.948	.948	.014
11	Kicker	LL3x3x3x3	Column	Double Angle ...	A36 Gr.36	Typical	2.18	4.09	1.9	.027

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			HSS Tubes	Beam	SquareTube	A36 Gr.36	Typical
2	M2	N3	N4			HSS Tubes	Beam	SquareTube	A36 Gr.36	Typical
3	M3	N5	N6			HSS Tubes	Beam	SquareTube	A36 Gr.36	Typical
4	M5	N153	N160			Corner Plates	Beam	RECT	A36 Gr.36	Typical
5	M7	N57	N51		180	Intermediate H...	Beam	RECT	A36 Gr.36	Typical
6	M14	N146A	N14			RIGID	None	None	RIGID	Typical
7	M15	N148	N16			RIGID	None	None	RIGID	Typical
8	M16	N144A	N18			RIGID	None	None	RIGID	Typical
9	M17	N146	N20			RIGID	None	None	RIGID	Typical
10	M18	N142A	N22			RIGID	None	None	RIGID	Typical
11	M19	N144	N24			RIGID	None	None	RIGID	Typical
12	M38	N61	N62		30	RIGID	None	None	RIGID	Typical
13	M43	N71	N72		90	RIGID	None	None	RIGID	Typical
14	M50	N86	N85			Face Horizontal	Beam	Channel	A36 Gr.36	Typical
15	MP1B	N88	N87		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
16	MP2B	N90	N89		330	Mount Pipe Do...	Column	Pipe	A53 Gr.B	Typical
17	M53	N91	N92			RIGID	None	None	RIGID	Typical
18	M54	N93	N94			RIGID	None	None	RIGID	Typical
19	MP3B	N96	N95		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
20	M56	N97	N98			RIGID	None	None	RIGID	Typical
21	MP4B	N100	N99		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
22	M58	N101	N102			RIGID	None	None	RIGID	Typical
23	F	N104	N103			Face Horizontal	Beam	Channel	A36 Gr.36	Typical
24	MP1A	N106	N105		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
25	MP2A	N108	N107		330	Mount Pipe Do...	Column	Pipe	A53 Gr.B	Typical
26	M62	N109	N110			RIGID	None	None	RIGID	Typical
27	M63	N111	N112			RIGID	None	None	RIGID	Typical
28	MP3A	N114	N113		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
29	1	N115	N116			RIGID	None	None	RIGID	Typical
30	MP4A	N118	N117		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
31	2	N119	N120			RIGID	None	None	RIGID	Typical
32	M68	N122	N121			Face Horizontal	Beam	Channel	A36 Gr.36	Typical
33	MP1C	N124	N123		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
34	MP2C	N126	N125		330	Mount Pipe Do...	Column	Pipe	A53 Gr.B	Typical
35	M71	N127	N128			RIGID	None	None	RIGID	Typical
36	M72	N129	N130			RIGID	None	None	RIGID	Typical
37	MP3C	N132	N131		330	Mount Pipe EH	Column	Pipe	A53 Gr.B	Typical
38	M74	N133	N134			RIGID	None	None	RIGID	Typical
39	MP4C	N136	N135		330	Mount Pipe	Column	Pipe	A53 Gr.B	Typical
40	M76	N137	N138			RIGID	None	None	RIGID	Typical
41	M76A	N141	N140			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
42	M77	N148A	N150			Face Plates	Beam	RECT	A36 Gr.36	Typical
43	M75	N150	N145			Face Plates	Beam	RECT	A36 Gr.36	Typical
44	M76B	N148A	N144B			Face Plates	Beam	RECT	A36 Gr.36	Typical
45	M77A	N148B	N146B			Face Plates	Beam	RECT	A36 Gr.36	Typical
46	M75A	N146B	N142B			Face Plates	Beam	RECT	A36 Gr.36	Typical
47	M76C	N148B	N143			Face Plates	Beam	RECT	A36 Gr.36	Typical
48	M77B	N146C	N144C			Face Plates	Beam	RECT	A36 Gr.36	Typical
49	M75B	N144C	N143A			Face Plates	Beam	RECT	A36 Gr.36	Typical
50	M76D	N146C	N28			Face Plates	Beam	RECT	A36 Gr.36	Typical
51	M78	N40	N149			RIGID	None	None	RIGID	Typical
52	M79	N152	N147			RIGID	None	None	RIGID	Typical
53	M80	N40	N153			Corner Plates	Beam	RECT	A36 Gr.36	Typical
54	M81	N157	N156			RIGID	None	None	RIGID	Typical
55	M82	N155	N158			RIGID	None	None	RIGID	Typical
56	M83	N155	N160			Corner Plates	Beam	RECT	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
57	M73	N139	N161		30	RIGID	None	None	RIGID	Typical
58	M84	N166	N165			RIGID	None	None	RIGID	Typical
59	M85	N164	N167			RIGID	None	None	RIGID	Typical
60	M86	N162	N169			RIGID	None	None	RIGID	Typical
61	M87	N168	N170			RIGID	None	None	RIGID	Typical
62	M88	N163	N171			Corner Plates	Beam	RECT	A36 Gr.36	Typical
63	M89	N164	N163			Corner Plates	Beam	RECT	A36 Gr.36	Typical
64	M90	N168	N171			Corner Plates	Beam	RECT	A36 Gr.36	Typical
65	M91	N172	N173		30	RIGID	None	None	RIGID	Typical
66	M92	N178	N177			RIGID	None	None	RIGID	Typical
67	M93	N176	N179			RIGID	None	None	RIGID	Typical
68	M94	N174	N181			RIGID	None	None	RIGID	Typical
69	M95	N180	N182			RIGID	None	None	RIGID	Typical
70	M96	N175	N183			Corner Plates	Beam	RECT	A36 Gr.36	Typical
71	M97	N176	N175			Corner Plates	Beam	RECT	A36 Gr.36	Typical
72	M98	N180	N183			Corner Plates	Beam	RECT	A36 Gr.36	Typical
73	M108	N57	N154			RIGID	None	None	RIGID	Typical
74	M109	N51	N159			RIGID	None	None	RIGID	Typical
75	M107	N151	N186			RIGID	None	None	RIGID	Typical
76	M110	N184	N189			RIGID	None	None	RIGID	Typical
77	M114	N184	N151		180	Intermediate H...	Beam	RECT	A36 Gr.36	Typical
78	M117	N190	N192			RIGID	None	None	RIGID	Typical
79	M122	N191	N195			RIGID	None	None	RIGID	Typical
80	M125	N191	N190		180	Intermediate H...	Beam	RECT	A36 Gr.36	Typical
81	M83A	N144D	N143B			Support Rail	Column	Pipe	A53 Gr.B	Typical
82	M84A	N145A	N146D			RIGID	None	None	RIGID	Typical
83	M85A	N147A	N148C			RIGID	None	None	RIGID	Typical
84	M86A	N149A	N150A			RIGID	None	None	RIGID	Typical
85	M87A	N151A	N152A			RIGID	None	None	RIGID	Typical
86	M88A	N154A	N153A			Support Rail	Column	Pipe	A53 Gr.B	Typical
87	M89A	N155A	N156A			RIGID	None	None	RIGID	Typical
88	M90A	N157A	N158A			RIGID	None	None	RIGID	Typical
89	M91A	N159A	N160A			RIGID	None	None	RIGID	Typical
90	M92A	N161A	N162A			RIGID	None	None	RIGID	Typical
91	M93A	N164A	N163A			Support Rail	Column	Pipe	A53 Gr.B	Typical
92	M94A	N165A	N166A			RIGID	None	None	RIGID	Typical
93	M95A	N167A	N168A			RIGID	None	None	RIGID	Typical
94	M96A	N169A	N170A			RIGID	None	None	RIGID	Typical
95	M97A	N171A	N172A			RIGID	None	None	RIGID	Typical
96	M98A	N173A	N174A		90	Support Rail B...	Column	Single Angle	A36 Gr.36	Typical
97	M99	N180A	N182A			RIGID	None	None	RIGID	Typical
98	M100	N177A	N181A			RIGID	None	None	RIGID	Typical
99	M105	N177A	N178A		90	Support Rail B...	Column	Single Angle	A36 Gr.36	Typical
100	M106	N179A	N180A		90	Support Rail B...	Column	Single Angle	A36 Gr.36	Typical
101	M103	N174A	N184A			RIGID	None	None	RIGID	Typical
102	M104	N179A	N183A			RIGID	None	None	RIGID	Typical
103	M105A	N178A	N188A			RIGID	None	None	RIGID	Typical
104	M106A	N173A	N187A			RIGID	None	None	RIGID	Typical
105	M105B	N187	N184B		90	RIGID	None	None	RIGID	Typical
106	M106B	N193	N186A		90	RIGID	None	None	RIGID	Typical
107	M108A	N187B	N186B			RIGID	None	None	RIGID	Typical
108	M110A	N191A	N190A			RIGID	None	None	RIGID	Typical
109	M112	N140	N193A			RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	HSS Tubes	6.195			Lbyy						Lateral
2	M2	HSS Tubes	6.195			Lbyy						Lateral
3	M3	HSS Tubes	6.195			Lbyy						Lateral
4	M5	Corner Plates	.812			Lbyy						Lateral
5	M7	Intermediat...	5.125			Lbyy						Lateral
6	M50	Face Horizo...	12.5			Lbyy						Lateral
7	MP1B	Mount Pipe	8.75			Lbyy						Lateral
8	MP2B	Mount Pipe ...	8			Lbyy						Lateral
9	MP3B	Mount Pipe ...	7			Lbyy						Lateral
10	MP4B	Mount Pipe	8.75			Lbyy						Lateral
11	F	Face Horizo...	12.5			Lbyy						Lateral
12	MP1A	Mount Pipe	8.75			Lbyy						Lateral
13	MP2A	Mount Pipe ...	8			Lbyy						Lateral
14	MP3A	Mount Pipe ...	7			Lbyy						Lateral
15	MP4A	Mount Pipe	8.75			Lbyy						Lateral
16	M68	Face Horizo...	12.5			Lbyy						Lateral
17	MP1C	Mount Pipe	8.75			Lbyy						Lateral
18	MP2C	Mount Pipe ...	8			Lbyy						Lateral
19	MP3C	Mount Pipe ...	7			Lbyy						Lateral
20	MP4C	Mount Pipe	8.75			Lbyy						Lateral
21	M76A	Mount Pipe	3.087									Lateral
22	M77	Face Plates	.833			Lbyy						Lateral
23	M75	Face Plates	.5			Lbyy						Lateral
24	M76B	Face Plates	.5			Lbyy						Lateral
25	M77A	Face Plates	.833			Lbyy						Lateral
26	M75A	Face Plates	.5			Lbyy						Lateral
27	M76C	Face Plates	.5			Lbyy						Lateral
28	M77B	Face Plates	.833			Lbyy						Lateral
29	M75B	Face Plates	.438			Lbyy						Lateral
30	M76D	Face Plates	.613			Lbyy						Lateral
31	M80	Corner Plates	.552			Lbyy						Lateral
32	M83	Corner Plates	.552			Lbyy						Lateral
33	M88	Corner Plates	.812			Lbyy						Lateral
34	M89	Corner Plates	.552			Lbyy						Lateral
35	M90	Corner Plates	.552			Lbyy						Lateral
36	M96	Corner Plates	.812			Lbyy						Lateral
37	M97	Corner Plates	.552			Lbyy						Lateral
38	M98	Corner Plates	.552			Lbyy						Lateral
39	M114	Intermediat...	5.125			Lbyy						Lateral
40	M125	Intermediat...	5.125			Lbyy						Lateral
41	M83A	Support Rail	12.5			Lbyy						Lateral
42	M88A	Support Rail	12.5			Lbyy						Lateral
43	M93A	Support Rail	12.5			Lbyy						Lateral
44	M98A	Support Rail...	1.814			Lbyy						Lateral
45	M105	Support Rail...	1.814			Lbyy						Lateral
46	M106	Support Rail...	1.814			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Y	-23	1
2	MP2A	My	-.006	1
3	MP2A	Mz	.018	1
4	MP2A	Y	-23	5
5	MP2A	My	-.006	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP2A	Mz	.018	5
7	MP2B	Y	-23	1
8	MP2B	My	-.018	1
9	MP2B	Mz	-.006	1
10	MP2B	Y	-23	5
11	MP2B	My	-.018	5
12	MP2B	Mz	-.006	5
13	MP2C	Y	-23	1
14	MP2C	My	.014	1
15	MP2C	Mz	-.013	1
16	MP2C	Y	-23	5
17	MP2C	My	.014	5
18	MP2C	Mz	-.013	5
19	MP2A	Y	-23	1
20	MP2A	My	-.016	1
21	MP2A	Mz	-.01	1
22	MP2A	Y	-23	5
23	MP2A	My	-.016	5
24	MP2A	Mz	-.01	5
25	MP2B	Y	-23	1
26	MP2B	My	.01	1
27	MP2B	Mz	-.016	1
28	MP2B	Y	-23	5
29	MP2B	My	.01	5
30	MP2B	Mz	-.016	5
31	MP2C	Y	-23	1
32	MP2C	My	.009	1
33	MP2C	Mz	.017	1
34	MP2C	Y	-23	5
35	MP2C	My	.009	5
36	MP2C	Mz	.017	5
37	MP2A	Y	-84.4	2.5
38	MP2A	My	.04	2.5
39	MP2A	Mz	-.014	2.5
40	MP2B	Y	-84.4	2.5
41	MP2B	My	.014	2.5
42	MP2B	Mz	.04	2.5
43	MP2C	Y	-84.4	2.5
44	MP2C	My	-.042	2.5
45	MP2C	Mz	-.007	2.5
46	M76A	Y	-32	1.5
47	M76A	My	0	1.5
48	M76A	Mz	0	1.5
49	MP4A	Y	-28.65	2.66
50	MP4A	My	-.013	2.66
51	MP4A	Mz	.005	2.66
52	MP4A	Y	-28.65	4.66
53	MP4A	My	-.013	4.66
54	MP4A	Mz	.005	4.66
55	MP4B	Y	-28.65	2.66
56	MP4B	My	-.005	2.66
57	MP4B	Mz	-.013	2.66
58	MP4B	Y	-28.65	4.66
59	MP4B	My	-.005	4.66
60	MP4B	Mz	-.013	4.66
61	MP4C	Y	-28.65	2.66
62	MP4C	My	.014	2.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP4C	Mz	.002	2.66
64	MP4C	Y	-28.65	4.66
65	MP4C	My	.014	4.66
66	MP4C	Mz	.002	4.66
67	MP1A	Y	-79.1	2.5
68	MP1A	My	.037	2.5
69	MP1A	Mz	-.014	2.5
70	MP1B	Y	-79.1	2.5
71	MP1B	My	.014	2.5
72	MP1B	Mz	.037	2.5
73	MP1C	Y	-79.1	2.5
74	MP1C	My	-.039	2.5
75	MP1C	Mz	-.007	2.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-82.483	1
2	MP2A	My	-.02	1
3	MP2A	Mz	.066	1
4	MP2A	Y	-82.483	5
5	MP2A	My	-.02	5
6	MP2A	Mz	.066	5
7	MP2B	Y	-82.483	1
8	MP2B	My	-.066	1
9	MP2B	Mz	-.02	1
10	MP2B	Y	-82.483	5
11	MP2B	My	-.066	5
12	MP2B	Mz	-.02	5
13	MP2C	Y	-82.483	1
14	MP2C	My	.05	1
15	MP2C	Mz	-.047	1
16	MP2C	Y	-82.483	5
17	MP2C	My	.05	5
18	MP2C	Mz	-.047	5
19	MP2A	Y	-82.483	1
20	MP2A	My	-.058	1
21	MP2A	Mz	-.038	1
22	MP2A	Y	-82.483	5
23	MP2A	My	-.058	5
24	MP2A	Mz	-.038	5
25	MP2B	Y	-82.483	1
26	MP2B	My	.038	1
27	MP2B	Mz	-.058	1
28	MP2B	Y	-82.483	5
29	MP2B	My	.038	5
30	MP2B	Mz	-.058	5
31	MP2C	Y	-82.483	1
32	MP2C	My	.031	1
33	MP2C	Mz	.061	1
34	MP2C	Y	-82.483	5
35	MP2C	My	.031	5
36	MP2C	Mz	.061	5
37	MP2A	Y	-44.91	2.5
38	MP2A	My	.021	2.5
39	MP2A	Mz	-.008	2.5
40	MP2B	Y	-44.91	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
41	MP2B	My	.008	2.5
42	MP2B	Mz	.021	2.5
43	MP2C	Y	-44.91	2.5
44	MP2C	My	-.022	2.5
45	MP2C	Mz	-.004	2.5
46	M76A	Y	-87.932	1.5
47	M76A	My	0	1.5
48	M76A	Mz	0	1.5
49	MP4A	Y	-29.785	2.66
50	MP4A	My	-.014	2.66
51	MP4A	Mz	.005	2.66
52	MP4A	Y	-29.785	4.66
53	MP4A	My	-.014	4.66
54	MP4A	Mz	.005	4.66
55	MP4B	Y	-29.785	2.66
56	MP4B	My	-.005	2.66
57	MP4B	Mz	-.014	2.66
58	MP4B	Y	-29.785	4.66
59	MP4B	My	-.005	4.66
60	MP4B	Mz	-.014	4.66
61	MP4C	Y	-29.785	2.66
62	MP4C	My	.015	2.66
63	MP4C	Mz	.003	2.66
64	MP4C	Y	-29.785	4.66
65	MP4C	My	.015	4.66
66	MP4C	Mz	.003	4.66
67	MP1A	Y	-45.386	2.5
68	MP1A	My	.021	2.5
69	MP1A	Mz	-.008	2.5
70	MP1B	Y	-45.386	2.5
71	MP1B	My	.008	2.5
72	MP1B	Mz	.021	2.5
73	MP1C	Y	-45.386	2.5
74	MP1C	My	-.022	2.5
75	MP1C	Mz	-.004	2.5

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	-76.412	1
3	MP2A	Mx	-.061	1
4	MP2A	X	0	5
5	MP2A	Z	-76.412	5
6	MP2A	Mx	-.061	5
7	MP2B	X	0	1
8	MP2B	Z	-61.239	1
9	MP2B	Mx	.015	1
10	MP2B	X	0	5
11	MP2B	Z	-61.239	5
12	MP2B	Mx	.015	5
13	MP2C	X	0	1
14	MP2C	Z	-78.131	1
15	MP2C	Mx	.045	1
16	MP2C	X	0	5
17	MP2C	Z	-78.131	5
18	MP2C	Mx	.045	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
19	MP2A	X	0	1
20	MP2A	Z	-76.412	1
21	MP2A	Mx	.035	1
22	MP2A	X	0	5
23	MP2A	Z	-76.412	5
24	MP2A	Mx	.035	5
25	MP2B	X	0	1
26	MP2B	Z	-61.239	1
27	MP2B	Mx	.043	1
28	MP2B	X	0	5
29	MP2B	Z	-61.239	5
30	MP2B	Mx	.043	5
31	MP2C	X	0	1
32	MP2C	Z	-78.131	1
33	MP2C	Mx	-.058	1
34	MP2C	X	0	5
35	MP2C	Z	-78.131	5
36	MP2C	Mx	-.058	5
37	MP2A	X	0	2.5
38	MP2A	Z	-49.612	2.5
39	MP2A	Mx	.008	2.5
40	MP2B	X	0	2.5
41	MP2B	Z	-36.607	2.5
42	MP2B	Mx	-.017	2.5
43	MP2C	X	0	2.5
44	MP2C	Z	-51.086	2.5
45	MP2C	Mx	.004	2.5
46	M76A	X	0	1.5
47	M76A	Z	-102.567	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	0	2.66
50	MP4A	Z	-58.546	2.66
51	MP4A	Mx	-.01	2.66
52	MP4A	X	0	4.66
53	MP4A	Z	-58.546	4.66
54	MP4A	Mx	-.01	4.66
55	MP4B	X	0	2.66
56	MP4B	Z	-28.833	2.66
57	MP4B	Mx	.014	2.66
58	MP4B	X	0	4.66
59	MP4B	Z	-28.833	4.66
60	MP4B	Mx	.014	4.66
61	MP4C	X	0	2.66
62	MP4C	Z	-61.913	2.66
63	MP4C	Mx	-.005	2.66
64	MP4C	X	0	4.66
65	MP4C	Z	-61.913	4.66
66	MP4C	Mx	-.005	4.66
67	MP1A	X	0	2.5
68	MP1A	Z	-59.934	2.5
69	MP1A	Mx	.01	2.5
70	MP1B	X	0	2.5
71	MP1B	Z	-44.761	2.5
72	MP1B	Mx	-.021	2.5
73	MP1C	X	0	2.5
74	MP1C	Z	-61.653	2.5
75	MP1C	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	33.553	1
2	MP2A	Z	-58.115	1
3	MP2A	Mx	-.054	1
4	MP2A	X	33.553	5
5	MP2A	Z	-58.115	5
6	MP2A	Mx	-.054	5
7	MP2B	X	35.272	1
8	MP2B	Z	-61.094	1
9	MP2B	Mx	-.013	1
10	MP2B	X	35.272	5
11	MP2B	Z	-61.094	5
12	MP2B	Mx	-.013	5
13	MP2C	X	38.206	1
14	MP2C	Z	-66.174	1
15	MP2C	Mx	.061	1
16	MP2C	X	38.206	5
17	MP2C	Z	-66.174	5
18	MP2C	Mx	.061	5
19	MP2A	X	33.553	1
20	MP2A	Z	-58.115	1
21	MP2A	Mx	.003	1
22	MP2A	X	33.553	5
23	MP2A	Z	-58.115	5
24	MP2A	Mx	.003	5
25	MP2B	X	35.272	1
26	MP2B	Z	-61.094	1
27	MP2B	Mx	.059	1
28	MP2B	X	35.272	5
29	MP2B	Z	-61.094	5
30	MP2B	Mx	.059	5
31	MP2C	X	38.206	1
32	MP2C	Z	-66.174	1
33	MP2C	Mx	-.035	1
34	MP2C	X	38.206	5
35	MP2C	Z	-66.174	5
36	MP2C	Mx	-.035	5
37	MP2A	X	20.818	2.5
38	MP2A	Z	-36.057	2.5
39	MP2A	Mx	.016	2.5
40	MP2B	X	22.292	2.5
41	MP2B	Z	-38.61	2.5
42	MP2B	Mx	-.014	2.5
43	MP2C	X	24.806	2.5
44	MP2C	Z	-42.965	2.5
45	MP2C	Mx	-.008	2.5
46	M76A	X	45.34	1.5
47	M76A	Z	-78.531	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	20.161	2.66
50	MP4A	Z	-34.92	2.66
51	MP4A	Mx	-.015	2.66
52	MP4A	X	20.161	4.66
53	MP4A	Z	-34.92	4.66
54	MP4A	Mx	-.015	4.66
55	MP4B	X	23.529	2.66
56	MP4B	Z	-40.753	2.66
57	MP4B	Mx	.015	2.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4B	X	23.529	4.66
59	MP4B	Z	-40.753	4.66
60	MP4B	Mx	.015	4.66
61	MP4C	X	29.273	2.66
62	MP4C	Z	-50.702	2.66
63	MP4C	Mx	.01	2.66
64	MP4C	X	29.273	4.66
65	MP4C	Z	-50.702	4.66
66	MP4C	Mx	.01	4.66
67	MP1A	X	25.314	2.5
68	MP1A	Z	-43.845	2.5
69	MP1A	Mx	.019	2.5
70	MP1B	X	27.033	2.5
71	MP1B	Z	-46.823	2.5
72	MP1B	Mx	-.017	2.5
73	MP1C	X	29.967	2.5
74	MP1C	Z	-51.904	2.5
75	MP1C	Mx	-.01	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	51.545	1
2	MP2A	Z	-29.759	1
3	MP2A	Mx	-.036	1
4	MP2A	X	51.545	5
5	MP2A	Z	-29.759	5
6	MP2A	Mx	-.036	5
7	MP2B	X	67.664	1
8	MP2B	Z	-39.066	1
9	MP2B	Mx	-.045	1
10	MP2B	X	67.664	5
11	MP2B	Z	-39.066	5
12	MP2B	Mx	-.045	5
13	MP2C	X	58.115	1
14	MP2C	Z	-33.553	1
15	MP2C	Mx	.054	1
16	MP2C	X	58.115	5
17	MP2C	Z	-33.553	5
18	MP2C	Mx	.054	5
19	MP2A	X	51.545	1
20	MP2A	Z	-29.759	1
21	MP2A	Mx	-.022	1
22	MP2A	X	51.545	5
23	MP2A	Z	-29.759	5
24	MP2A	Mx	-.022	5
25	MP2B	X	67.664	1
26	MP2B	Z	-39.066	1
27	MP2B	Mx	.058	1
28	MP2B	X	67.664	5
29	MP2B	Z	-39.066	5
30	MP2B	Mx	.058	5
31	MP2C	X	58.115	1
32	MP2C	Z	-33.553	1
33	MP2C	Mx	-.003	1
34	MP2C	X	58.115	5
35	MP2C	Z	-33.553	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
36	MP2C	Mx	-.003	5
37	MP2A	X	30.426	2.5
38	MP2A	Z	-17.566	2.5
39	MP2A	Mx	.017	2.5
40	MP2B	X	44.242	2.5
41	MP2B	Z	-25.543	2.5
42	MP2B	Mx	-.004	2.5
43	MP2C	X	36.057	2.5
44	MP2C	Z	-20.818	2.5
45	MP2C	Mx	-.016	2.5
46	M76A	X	70.139	1.5
47	M76A	Z	-40.495	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	22.054	2.66
50	MP4A	Z	-12.733	2.66
51	MP4A	Mx	-.013	2.66
52	MP4A	X	22.054	4.66
53	MP4A	Z	-12.733	4.66
54	MP4A	Mx	-.013	4.66
55	MP4B	X	53.618	2.66
56	MP4B	Z	-30.957	2.66
57	MP4B	Mx	.005	2.66
58	MP4B	X	53.618	4.66
59	MP4B	Z	-30.957	4.66
60	MP4B	Mx	.005	4.66
61	MP4C	X	34.92	2.66
62	MP4C	Z	-20.161	2.66
63	MP4C	Mx	.015	2.66
64	MP4C	X	34.92	4.66
65	MP4C	Z	-20.161	4.66
66	MP4C	Mx	.015	4.66
67	MP1A	X	37.274	2.5
68	MP1A	Z	-21.52	2.5
69	MP1A	Mx	.021	2.5
70	MP1B	X	53.393	2.5
71	MP1B	Z	-30.827	2.5
72	MP1B	Mx	-.005	2.5
73	MP1C	X	43.845	2.5
74	MP1C	Z	-25.314	2.5
75	MP1C	Mx	-.019	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	61.239	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.015	1
4	MP2A	X	61.239	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.015	5
7	MP2B	X	76.412	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.061	1
10	MP2B	X	76.412	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.061	5
13	MP2C	X	59.519	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP2C	Z	0	1
15	MP2C	Mx	.036	1
16	MP2C	X	59.519	5
17	MP2C	Z	0	5
18	MP2C	Mx	.036	5
19	MP2A	X	61.239	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.043	1
22	MP2A	X	61.239	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.043	5
25	MP2B	X	76.412	1
26	MP2B	Z	0	1
27	MP2B	Mx	.035	1
28	MP2B	X	76.412	5
29	MP2B	Z	0	5
30	MP2B	Mx	.035	5
31	MP2C	X	59.519	1
32	MP2C	Z	0	1
33	MP2C	Mx	.022	1
34	MP2C	X	59.519	5
35	MP2C	Z	0	5
36	MP2C	Mx	.022	5
37	MP2A	X	36.607	2.5
38	MP2A	Z	0	2.5
39	MP2A	Mx	.017	2.5
40	MP2B	X	49.612	2.5
41	MP2B	Z	0	2.5
42	MP2B	Mx	.008	2.5
43	MP2C	X	35.133	2.5
44	MP2C	Z	0	2.5
45	MP2C	Mx	-.017	2.5
46	M76A	X	83.186	1.5
47	M76A	Z	0	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	28.833	2.66
50	MP4A	Z	0	2.66
51	MP4A	Mx	-.014	2.66
52	MP4A	X	28.833	4.66
53	MP4A	Z	0	4.66
54	MP4A	Mx	-.014	4.66
55	MP4B	X	58.546	2.66
56	MP4B	Z	0	2.66
57	MP4B	Mx	-.01	2.66
58	MP4B	X	58.546	4.66
59	MP4B	Z	0	4.66
60	MP4B	Mx	-.01	4.66
61	MP4C	X	25.466	2.66
62	MP4C	Z	0	2.66
63	MP4C	Mx	.013	2.66
64	MP4C	X	25.466	4.66
65	MP4C	Z	0	4.66
66	MP4C	Mx	.013	4.66
67	MP1A	X	44.761	2.5
68	MP1A	Z	0	2.5
69	MP1A	Mx	.021	2.5
70	MP1B	X	59.934	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
71	MP1B	Z	0	2.5
72	MP1B	Mx	.01	2.5
73	MP1C	X	43.041	2.5
74	MP1C	Z	0	2.5
75	MP1C	Mx	-.021	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	61.094	1
2	MP2A	Z	35.272	1
3	MP2A	Mx	.013	1
4	MP2A	X	61.094	5
5	MP2A	Z	35.272	5
6	MP2A	Mx	.013	5
7	MP2B	X	58.115	1
8	MP2B	Z	33.553	1
9	MP2B	Mx	-.054	1
10	MP2B	X	58.115	5
11	MP2B	Z	33.553	5
12	MP2B	Mx	-.054	5
13	MP2C	X	53.034	1
14	MP2C	Z	30.619	1
15	MP2C	Mx	.015	1
16	MP2C	X	53.034	5
17	MP2C	Z	30.619	5
18	MP2C	Mx	.015	5
19	MP2A	X	61.094	1
20	MP2A	Z	35.272	1
21	MP2A	Mx	-.059	1
22	MP2A	X	61.094	5
23	MP2A	Z	35.272	5
24	MP2A	Mx	-.059	5
25	MP2B	X	58.115	1
26	MP2B	Z	33.553	1
27	MP2B	Mx	.003	1
28	MP2B	X	58.115	5
29	MP2B	Z	33.553	5
30	MP2B	Mx	.003	5
31	MP2C	X	53.034	1
32	MP2C	Z	30.619	1
33	MP2C	Mx	.043	1
34	MP2C	X	53.034	5
35	MP2C	Z	30.619	5
36	MP2C	Mx	.043	5
37	MP2A	X	38.61	2.5
38	MP2A	Z	22.292	2.5
39	MP2A	Mx	.014	2.5
40	MP2B	X	36.057	2.5
41	MP2B	Z	20.818	2.5
42	MP2B	Mx	.016	2.5
43	MP2C	X	31.702	2.5
44	MP2C	Z	18.303	2.5
45	MP2C	Mx	-.017	2.5
46	M76A	X	82.336	1.5
47	M76A	Z	47.537	1.5
48	M76A	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP4A	X	40.753	2.66
50	MP4A	Z	23.529	2.66
51	MP4A	Mx	-.015	2.66
52	MP4A	X	40.753	4.66
53	MP4A	Z	23.529	4.66
54	MP4A	Mx	-.015	4.66
55	MP4B	X	34.92	2.66
56	MP4B	Z	20.161	2.66
57	MP4B	Mx	-.015	2.66
58	MP4B	X	34.92	4.66
59	MP4B	Z	20.161	4.66
60	MP4B	Mx	-.015	4.66
61	MP4C	X	24.971	2.66
62	MP4C	Z	14.417	2.66
63	MP4C	Mx	.014	2.66
64	MP4C	X	24.971	4.66
65	MP4C	Z	14.417	4.66
66	MP4C	Mx	.014	4.66
67	MP1A	X	46.823	2.5
68	MP1A	Z	27.033	2.5
69	MP1A	Mx	.017	2.5
70	MP1B	X	43.845	2.5
71	MP1B	Z	25.314	2.5
72	MP1B	Mx	.019	2.5
73	MP1C	X	38.764	2.5
74	MP1C	Z	22.38	2.5
75	MP1C	Mx	-.021	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	39.066	1
2	MP2A	Z	67.664	1
3	MP2A	Mx	.045	1
4	MP2A	X	39.066	5
5	MP2A	Z	67.664	5
6	MP2A	Mx	.045	5
7	MP2B	X	29.759	1
8	MP2B	Z	51.545	1
9	MP2B	Mx	-.036	1
10	MP2B	X	29.759	5
11	MP2B	Z	51.545	5
12	MP2B	Mx	-.036	5
13	MP2C	X	35.272	1
14	MP2C	Z	61.094	1
15	MP2C	Mx	-.013	1
16	MP2C	X	35.272	5
17	MP2C	Z	61.094	5
18	MP2C	Mx	-.013	5
19	MP2A	X	39.066	1
20	MP2A	Z	67.664	1
21	MP2A	Mx	-.058	1
22	MP2A	X	39.066	5
23	MP2A	Z	67.664	5
24	MP2A	Mx	-.058	5
25	MP2B	X	29.759	1
26	MP2B	Z	51.545	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	-.022	1
28	MP2B	X	29.759	5
29	MP2B	Z	51.545	5
30	MP2B	Mx	-.022	5
31	MP2C	X	35.272	1
32	MP2C	Z	61.094	1
33	MP2C	Mx	.059	1
34	MP2C	X	35.272	5
35	MP2C	Z	61.094	5
36	MP2C	Mx	.059	5
37	MP2A	X	25.543	2.5
38	MP2A	Z	44.242	2.5
39	MP2A	Mx	.004	2.5
40	MP2B	X	17.566	2.5
41	MP2B	Z	30.426	2.5
42	MP2B	Mx	.017	2.5
43	MP2C	X	22.292	2.5
44	MP2C	Z	38.61	2.5
45	MP2C	Mx	-.014	2.5
46	M76A	X	52.382	1.5
47	M76A	Z	90.728	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	30.957	2.66
50	MP4A	Z	53.618	2.66
51	MP4A	Mx	-.005	2.66
52	MP4A	X	30.957	4.66
53	MP4A	Z	53.618	4.66
54	MP4A	Mx	-.005	4.66
55	MP4B	X	12.733	2.66
56	MP4B	Z	22.054	2.66
57	MP4B	Mx	-.013	2.66
58	MP4B	X	12.733	4.66
59	MP4B	Z	22.054	4.66
60	MP4B	Mx	-.013	4.66
61	MP4C	X	23.529	2.66
62	MP4C	Z	40.753	2.66
63	MP4C	Mx	.015	2.66
64	MP4C	X	23.529	4.66
65	MP4C	Z	40.753	4.66
66	MP4C	Mx	.015	4.66
67	MP1A	X	30.827	2.5
68	MP1A	Z	53.393	2.5
69	MP1A	Mx	.005	2.5
70	MP1B	X	21.52	2.5
71	MP1B	Z	37.274	2.5
72	MP1B	Mx	.021	2.5
73	MP1C	X	27.033	2.5
74	MP1C	Z	46.823	2.5
75	MP1C	Mx	-.017	2.5

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	76.412	1
3	MP2A	Mx	.061	1
4	MP2A	X	0	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
5	MP2A	Z	76.412	5
6	MP2A	Mx	.061	5
7	MP2B	X	0	1
8	MP2B	Z	61.239	1
9	MP2B	Mx	-.015	1
10	MP2B	X	0	5
11	MP2B	Z	61.239	5
12	MP2B	Mx	-.015	5
13	MP2C	X	0	1
14	MP2C	Z	78.131	1
15	MP2C	Mx	-.045	1
16	MP2C	X	0	5
17	MP2C	Z	78.131	5
18	MP2C	Mx	-.045	5
19	MP2A	X	0	1
20	MP2A	Z	76.412	1
21	MP2A	Mx	-.035	1
22	MP2A	X	0	5
23	MP2A	Z	76.412	5
24	MP2A	Mx	-.035	5
25	MP2B	X	0	1
26	MP2B	Z	61.239	1
27	MP2B	Mx	-.043	1
28	MP2B	X	0	5
29	MP2B	Z	61.239	5
30	MP2B	Mx	-.043	5
31	MP2C	X	0	1
32	MP2C	Z	78.131	1
33	MP2C	Mx	.058	1
34	MP2C	X	0	5
35	MP2C	Z	78.131	5
36	MP2C	Mx	.058	5
37	MP2A	X	0	2.5
38	MP2A	Z	49.612	2.5
39	MP2A	Mx	-.008	2.5
40	MP2B	X	0	2.5
41	MP2B	Z	36.607	2.5
42	MP2B	Mx	.017	2.5
43	MP2C	X	0	2.5
44	MP2C	Z	51.086	2.5
45	MP2C	Mx	-.004	2.5
46	M76A	X	0	1.5
47	M76A	Z	102.567	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	0	2.66
50	MP4A	Z	58.546	2.66
51	MP4A	Mx	.01	2.66
52	MP4A	X	0	4.66
53	MP4A	Z	58.546	4.66
54	MP4A	Mx	.01	4.66
55	MP4B	X	0	2.66
56	MP4B	Z	28.833	2.66
57	MP4B	Mx	-.014	2.66
58	MP4B	X	0	4.66
59	MP4B	Z	28.833	4.66
60	MP4B	Mx	-.014	4.66
61	MP4C	X	0	2.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP4C	Z	61.913	2.66
63	MP4C	Mx	.005	2.66
64	MP4C	X	0	4.66
65	MP4C	Z	61.913	4.66
66	MP4C	Mx	.005	4.66
67	MP1A	X	0	2.5
68	MP1A	Z	59.934	2.5
69	MP1A	Mx	-.01	2.5
70	MP1B	X	0	2.5
71	MP1B	Z	44.761	2.5
72	MP1B	Mx	.021	2.5
73	MP1C	X	0	2.5
74	MP1C	Z	61.653	2.5
75	MP1C	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-33.553	1
2	MP2A	Z	58.115	1
3	MP2A	Mx	.054	1
4	MP2A	X	-33.553	5
5	MP2A	Z	58.115	5
6	MP2A	Mx	.054	5
7	MP2B	X	-35.272	1
8	MP2B	Z	61.094	1
9	MP2B	Mx	.013	1
10	MP2B	X	-35.272	5
11	MP2B	Z	61.094	5
12	MP2B	Mx	.013	5
13	MP2C	X	-38.206	1
14	MP2C	Z	66.174	1
15	MP2C	Mx	-.061	1
16	MP2C	X	-38.206	5
17	MP2C	Z	66.174	5
18	MP2C	Mx	-.061	5
19	MP2A	X	-33.553	1
20	MP2A	Z	58.115	1
21	MP2A	Mx	-.003	1
22	MP2A	X	-33.553	5
23	MP2A	Z	58.115	5
24	MP2A	Mx	-.003	5
25	MP2B	X	-35.272	1
26	MP2B	Z	61.094	1
27	MP2B	Mx	-.059	1
28	MP2B	X	-35.272	5
29	MP2B	Z	61.094	5
30	MP2B	Mx	-.059	5
31	MP2C	X	-38.206	1
32	MP2C	Z	66.174	1
33	MP2C	Mx	.035	1
34	MP2C	X	-38.206	5
35	MP2C	Z	66.174	5
36	MP2C	Mx	.035	5
37	MP2A	X	-20.818	2.5
38	MP2A	Z	36.057	2.5
39	MP2A	Mx	-.016	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP2B	X	-22.292	2.5
41	MP2B	Z	38.61	2.5
42	MP2B	Mx	.014	2.5
43	MP2C	X	-24.806	2.5
44	MP2C	Z	42.965	2.5
45	MP2C	Mx	.008	2.5
46	M76A	X	-45.34	1.5
47	M76A	Z	78.531	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-20.161	2.66
50	MP4A	Z	34.92	2.66
51	MP4A	Mx	.015	2.66
52	MP4A	X	-20.161	4.66
53	MP4A	Z	34.92	4.66
54	MP4A	Mx	.015	4.66
55	MP4B	X	-23.529	2.66
56	MP4B	Z	40.753	2.66
57	MP4B	Mx	-.015	2.66
58	MP4B	X	-23.529	4.66
59	MP4B	Z	40.753	4.66
60	MP4B	Mx	-.015	4.66
61	MP4C	X	-29.273	2.66
62	MP4C	Z	50.702	2.66
63	MP4C	Mx	-.01	2.66
64	MP4C	X	-29.273	4.66
65	MP4C	Z	50.702	4.66
66	MP4C	Mx	-.01	4.66
67	MP1A	X	-25.314	2.5
68	MP1A	Z	43.845	2.5
69	MP1A	Mx	-.019	2.5
70	MP1B	X	-27.033	2.5
71	MP1B	Z	46.823	2.5
72	MP1B	Mx	.017	2.5
73	MP1C	X	-29.967	2.5
74	MP1C	Z	51.904	2.5
75	MP1C	Mx	.01	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-51.545	1
2	MP2A	Z	29.759	1
3	MP2A	Mx	.036	1
4	MP2A	X	-51.545	5
5	MP2A	Z	29.759	5
6	MP2A	Mx	.036	5
7	MP2B	X	-67.664	1
8	MP2B	Z	39.066	1
9	MP2B	Mx	.045	1
10	MP2B	X	-67.664	5
11	MP2B	Z	39.066	5
12	MP2B	Mx	.045	5
13	MP2C	X	-58.115	1
14	MP2C	Z	33.553	1
15	MP2C	Mx	-.054	1
16	MP2C	X	-58.115	5
17	MP2C	Z	33.553	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
18	MP2C	Mx	-.054	5
19	MP2A	X	-51.545	1
20	MP2A	Z	29.759	1
21	MP2A	Mx	.022	1
22	MP2A	X	-51.545	5
23	MP2A	Z	29.759	5
24	MP2A	Mx	.022	5
25	MP2B	X	-67.664	1
26	MP2B	Z	39.066	1
27	MP2B	Mx	-.058	1
28	MP2B	X	-67.664	5
29	MP2B	Z	39.066	5
30	MP2B	Mx	-.058	5
31	MP2C	X	-58.115	1
32	MP2C	Z	33.553	1
33	MP2C	Mx	.003	1
34	MP2C	X	-58.115	5
35	MP2C	Z	33.553	5
36	MP2C	Mx	.003	5
37	MP2A	X	-30.426	2.5
38	MP2A	Z	17.566	2.5
39	MP2A	Mx	-.017	2.5
40	MP2B	X	-44.242	2.5
41	MP2B	Z	25.543	2.5
42	MP2B	Mx	.004	2.5
43	MP2C	X	-36.057	2.5
44	MP2C	Z	20.818	2.5
45	MP2C	Mx	.016	2.5
46	M76A	X	-70.139	1.5
47	M76A	Z	40.495	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-22.054	2.66
50	MP4A	Z	12.733	2.66
51	MP4A	Mx	.013	2.66
52	MP4A	X	-22.054	4.66
53	MP4A	Z	12.733	4.66
54	MP4A	Mx	.013	4.66
55	MP4B	X	-53.618	2.66
56	MP4B	Z	30.957	2.66
57	MP4B	Mx	-.005	2.66
58	MP4B	X	-53.618	4.66
59	MP4B	Z	30.957	4.66
60	MP4B	Mx	-.005	4.66
61	MP4C	X	-34.92	2.66
62	MP4C	Z	20.161	2.66
63	MP4C	Mx	-.015	2.66
64	MP4C	X	-34.92	4.66
65	MP4C	Z	20.161	4.66
66	MP4C	Mx	-.015	4.66
67	MP1A	X	-37.274	2.5
68	MP1A	Z	21.52	2.5
69	MP1A	Mx	-.021	2.5
70	MP1B	X	-53.393	2.5
71	MP1B	Z	30.827	2.5
72	MP1B	Mx	.005	2.5
73	MP1C	X	-43.845	2.5
74	MP1C	Z	25.314	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
75	MP1C	Mx	.019	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-61.239	1
2	MP2A	Z	0	1
3	MP2A	Mx	.015	1
4	MP2A	X	-61.239	5
5	MP2A	Z	0	5
6	MP2A	Mx	.015	5
7	MP2B	X	-76.412	1
8	MP2B	Z	0	1
9	MP2B	Mx	.061	1
10	MP2B	X	-76.412	5
11	MP2B	Z	0	5
12	MP2B	Mx	.061	5
13	MP2C	X	-59.519	1
14	MP2C	Z	0	1
15	MP2C	Mx	-.036	1
16	MP2C	X	-59.519	5
17	MP2C	Z	0	5
18	MP2C	Mx	-.036	5
19	MP2A	X	-61.239	1
20	MP2A	Z	0	1
21	MP2A	Mx	.043	1
22	MP2A	X	-61.239	5
23	MP2A	Z	0	5
24	MP2A	Mx	.043	5
25	MP2B	X	-76.412	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.035	1
28	MP2B	X	-76.412	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.035	5
31	MP2C	X	-59.519	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.022	1
34	MP2C	X	-59.519	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.022	5
37	MP2A	X	-36.607	2.5
38	MP2A	Z	0	2.5
39	MP2A	Mx	-.017	2.5
40	MP2B	X	-49.612	2.5
41	MP2B	Z	0	2.5
42	MP2B	Mx	-.008	2.5
43	MP2C	X	-35.133	2.5
44	MP2C	Z	0	2.5
45	MP2C	Mx	.017	2.5
46	M76A	X	-83.186	1.5
47	M76A	Z	0	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-28.833	2.66
50	MP4A	Z	0	2.66
51	MP4A	Mx	.014	2.66
52	MP4A	X	-28.833	4.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4A	Z	0	4.66
54	MP4A	Mx	.014	4.66
55	MP4B	X	-58.546	2.66
56	MP4B	Z	0	2.66
57	MP4B	Mx	.01	2.66
58	MP4B	X	-58.546	4.66
59	MP4B	Z	0	4.66
60	MP4B	Mx	.01	4.66
61	MP4C	X	-25.466	2.66
62	MP4C	Z	0	2.66
63	MP4C	Mx	-.013	2.66
64	MP4C	X	-25.466	4.66
65	MP4C	Z	0	4.66
66	MP4C	Mx	-.013	4.66
67	MP1A	X	-44.761	2.5
68	MP1A	Z	0	2.5
69	MP1A	Mx	-.021	2.5
70	MP1B	X	-59.934	2.5
71	MP1B	Z	0	2.5
72	MP1B	Mx	-.01	2.5
73	MP1C	X	-43.041	2.5
74	MP1C	Z	0	2.5
75	MP1C	Mx	.021	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-61.094	1
2	MP2A	Z	-35.272	1
3	MP2A	Mx	-.013	1
4	MP2A	X	-61.094	5
5	MP2A	Z	-35.272	5
6	MP2A	Mx	-.013	5
7	MP2B	X	-58.115	1
8	MP2B	Z	-33.553	1
9	MP2B	Mx	.054	1
10	MP2B	X	-58.115	5
11	MP2B	Z	-33.553	5
12	MP2B	Mx	.054	5
13	MP2C	X	-53.034	1
14	MP2C	Z	-30.619	1
15	MP2C	Mx	-.015	1
16	MP2C	X	-53.034	5
17	MP2C	Z	-30.619	5
18	MP2C	Mx	-.015	5
19	MP2A	X	-61.094	1
20	MP2A	Z	-35.272	1
21	MP2A	Mx	.059	1
22	MP2A	X	-61.094	5
23	MP2A	Z	-35.272	5
24	MP2A	Mx	.059	5
25	MP2B	X	-58.115	1
26	MP2B	Z	-33.553	1
27	MP2B	Mx	-.003	1
28	MP2B	X	-58.115	5
29	MP2B	Z	-33.553	5
30	MP2B	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
31	MP2C	X	-53.034	1
32	MP2C	Z	-30.619	1
33	MP2C	Mx	-.043	1
34	MP2C	X	-53.034	5
35	MP2C	Z	-30.619	5
36	MP2C	Mx	-.043	5
37	MP2A	X	-38.61	2.5
38	MP2A	Z	-22.292	2.5
39	MP2A	Mx	-.014	2.5
40	MP2B	X	-36.057	2.5
41	MP2B	Z	-20.818	2.5
42	MP2B	Mx	-.016	2.5
43	MP2C	X	-31.702	2.5
44	MP2C	Z	-18.303	2.5
45	MP2C	Mx	.017	2.5
46	M76A	X	-82.336	1.5
47	M76A	Z	-47.537	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-40.753	2.66
50	MP4A	Z	-23.529	2.66
51	MP4A	Mx	.015	2.66
52	MP4A	X	-40.753	4.66
53	MP4A	Z	-23.529	4.66
54	MP4A	Mx	.015	4.66
55	MP4B	X	-34.92	2.66
56	MP4B	Z	-20.161	2.66
57	MP4B	Mx	.015	2.66
58	MP4B	X	-34.92	4.66
59	MP4B	Z	-20.161	4.66
60	MP4B	Mx	.015	4.66
61	MP4C	X	-24.971	2.66
62	MP4C	Z	-14.417	2.66
63	MP4C	Mx	-.014	2.66
64	MP4C	X	-24.971	4.66
65	MP4C	Z	-14.417	4.66
66	MP4C	Mx	-.014	4.66
67	MP1A	X	-46.823	2.5
68	MP1A	Z	-27.033	2.5
69	MP1A	Mx	-.017	2.5
70	MP1B	X	-43.845	2.5
71	MP1B	Z	-25.314	2.5
72	MP1B	Mx	-.019	2.5
73	MP1C	X	-38.764	2.5
74	MP1C	Z	-22.38	2.5
75	MP1C	Mx	.021	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-39.066	1
2	MP2A	Z	-67.664	1
3	MP2A	Mx	-.045	1
4	MP2A	X	-39.066	5
5	MP2A	Z	-67.664	5
6	MP2A	Mx	-.045	5
7	MP2B	X	-29.759	1
8	MP2B	Z	-51.545	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2B	Mx	.036	1
10	MP2B	X	-29.759	5
11	MP2B	Z	-51.545	5
12	MP2B	Mx	.036	5
13	MP2C	X	-35.272	1
14	MP2C	Z	-61.094	1
15	MP2C	Mx	.013	1
16	MP2C	X	-35.272	5
17	MP2C	Z	-61.094	5
18	MP2C	Mx	.013	5
19	MP2A	X	-39.066	1
20	MP2A	Z	-67.664	1
21	MP2A	Mx	.058	1
22	MP2A	X	-39.066	5
23	MP2A	Z	-67.664	5
24	MP2A	Mx	.058	5
25	MP2B	X	-29.759	1
26	MP2B	Z	-51.545	1
27	MP2B	Mx	.022	1
28	MP2B	X	-29.759	5
29	MP2B	Z	-51.545	5
30	MP2B	Mx	.022	5
31	MP2C	X	-35.272	1
32	MP2C	Z	-61.094	1
33	MP2C	Mx	-.059	1
34	MP2C	X	-35.272	5
35	MP2C	Z	-61.094	5
36	MP2C	Mx	-.059	5
37	MP2A	X	-25.543	2.5
38	MP2A	Z	-44.242	2.5
39	MP2A	Mx	-.004	2.5
40	MP2B	X	-17.566	2.5
41	MP2B	Z	-30.426	2.5
42	MP2B	Mx	-.017	2.5
43	MP2C	X	-22.292	2.5
44	MP2C	Z	-38.61	2.5
45	MP2C	Mx	.014	2.5
46	M76A	X	-52.382	1.5
47	M76A	Z	-90.728	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-30.957	2.66
50	MP4A	Z	-53.618	2.66
51	MP4A	Mx	.005	2.66
52	MP4A	X	-30.957	4.66
53	MP4A	Z	-53.618	4.66
54	MP4A	Mx	.005	4.66
55	MP4B	X	-12.733	2.66
56	MP4B	Z	-22.054	2.66
57	MP4B	Mx	.013	2.66
58	MP4B	X	-12.733	4.66
59	MP4B	Z	-22.054	4.66
60	MP4B	Mx	.013	4.66
61	MP4C	X	-23.529	2.66
62	MP4C	Z	-40.753	2.66
63	MP4C	Mx	-.015	2.66
64	MP4C	X	-23.529	4.66
65	MP4C	Z	-40.753	4.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP4C	Mx	-.015	4.66
67	MP1A	X	-30.827	2.5
68	MP1A	Z	-53.393	2.5
69	MP1A	Mx	-.005	2.5
70	MP1B	X	-21.52	2.5
71	MP1B	Z	-37.274	2.5
72	MP1B	Mx	-.021	2.5
73	MP1C	X	-27.033	2.5
74	MP1C	Z	-46.823	2.5
75	MP1C	Mx	.017	2.5

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	-30.216	1
3	MP2A	Mx	-.024	1
4	MP2A	X	0	5
5	MP2A	Z	-30.216	5
6	MP2A	Mx	-.024	5
7	MP2B	X	0	1
8	MP2B	Z	-24.414	1
9	MP2B	Mx	.006	1
10	MP2B	X	0	5
11	MP2B	Z	-24.414	5
12	MP2B	Mx	.006	5
13	MP2C	X	0	1
14	MP2C	Z	-30.873	1
15	MP2C	Mx	.018	1
16	MP2C	X	0	5
17	MP2C	Z	-30.873	5
18	MP2C	Mx	.018	5
19	MP2A	X	0	1
20	MP2A	Z	-30.216	1
21	MP2A	Mx	.014	1
22	MP2A	X	0	5
23	MP2A	Z	-30.216	5
24	MP2A	Mx	.014	5
25	MP2B	X	0	1
26	MP2B	Z	-24.414	1
27	MP2B	Mx	.017	1
28	MP2B	X	0	5
29	MP2B	Z	-24.414	5
30	MP2B	Mx	.017	5
31	MP2C	X	0	1
32	MP2C	Z	-30.873	1
33	MP2C	Mx	-.023	1
34	MP2C	X	0	5
35	MP2C	Z	-30.873	5
36	MP2C	Mx	-.023	5
37	MP2A	X	0	2.5
38	MP2A	Z	-12.471	2.5
39	MP2A	Mx	.002	2.5
40	MP2B	X	0	2.5
41	MP2B	Z	-9.456	2.5
42	MP2B	Mx	-.004	2.5
43	MP2C	X	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP2C	Z	-12.813	2.5
45	MP2C	Mx	.001	2.5
46	M76A	X	0	1.5
47	M76A	Z	-25.898	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	0	2.66
50	MP4A	Z	-11.674	2.66
51	MP4A	Mx	-.002	2.66
52	MP4A	X	0	4.66
53	MP4A	Z	-11.674	4.66
54	MP4A	Mx	-.002	4.66
55	MP4B	X	0	2.66
56	MP4B	Z	-6.133	2.66
57	MP4B	Mx	.003	2.66
58	MP4B	X	0	4.66
59	MP4B	Z	-6.133	4.66
60	MP4B	Mx	.003	4.66
61	MP4C	X	0	2.66
62	MP4C	Z	-12.302	2.66
63	MP4C	Mx	-.001	2.66
64	MP4C	X	0	4.66
65	MP4C	Z	-12.302	4.66
66	MP4C	Mx	-.001	4.66
67	MP1A	X	0	2.5
68	MP1A	Z	-12.49	2.5
69	MP1A	Mx	.002	2.5
70	MP1B	X	0	2.5
71	MP1B	Z	-9.595	2.5
72	MP1B	Mx	-.005	2.5
73	MP1C	X	0	2.5
74	MP1C	Z	-12.818	2.5
75	MP1C	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	13.329	1
2	MP2A	Z	-23.086	1
3	MP2A	Mx	-.022	1
4	MP2A	X	13.329	5
5	MP2A	Z	-23.086	5
6	MP2A	Mx	-.022	5
7	MP2B	X	13.986	1
8	MP2B	Z	-24.225	1
9	MP2B	Mx	-.005	1
10	MP2B	X	13.986	5
11	MP2B	Z	-24.225	5
12	MP2B	Mx	-.005	5
13	MP2C	X	15.108	1
14	MP2C	Z	-26.167	1
15	MP2C	Mx	.024	1
16	MP2C	X	15.108	5
17	MP2C	Z	-26.167	5
18	MP2C	Mx	.024	5
19	MP2A	X	13.329	1
20	MP2A	Z	-23.086	1
21	MP2A	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
22	MP2A	X	13.329	5
23	MP2A	Z	-23.086	5
24	MP2A	Mx	.001	5
25	MP2B	X	13.986	1
26	MP2B	Z	-24.225	1
27	MP2B	Mx	.023	1
28	MP2B	X	13.986	5
29	MP2B	Z	-24.225	5
30	MP2B	Mx	.023	5
31	MP2C	X	15.108	1
32	MP2C	Z	-26.167	1
33	MP2C	Mx	-.014	1
34	MP2C	X	15.108	5
35	MP2C	Z	-26.167	5
36	MP2C	Mx	-.014	5
37	MP2A	X	5.311	2.5
38	MP2A	Z	-9.199	2.5
39	MP2A	Mx	.004	2.5
40	MP2B	X	5.653	2.5
41	MP2B	Z	-9.791	2.5
42	MP2B	Mx	-.004	2.5
43	MP2C	X	6.236	2.5
44	MP2C	Z	-10.8	2.5
45	MP2C	Mx	-.002	2.5
46	M76A	X	11.588	1.5
47	M76A	Z	-20.071	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	4.138	2.66
50	MP4A	Z	-7.167	2.66
51	MP4A	Mx	-.003	2.66
52	MP4A	X	4.138	4.66
53	MP4A	Z	-7.167	4.66
54	MP4A	Mx	-.003	4.66
55	MP4B	X	4.766	2.66
56	MP4B	Z	-8.254	2.66
57	MP4B	Mx	.003	2.66
58	MP4B	X	4.766	4.66
59	MP4B	Z	-8.254	4.66
60	MP4B	Mx	.003	4.66
61	MP4C	X	5.837	2.66
62	MP4C	Z	-10.11	2.66
63	MP4C	Mx	.002	2.66
64	MP4C	X	5.837	4.66
65	MP4C	Z	-10.11	4.66
66	MP4C	Mx	.002	4.66
67	MP1A	X	5.357	2.5
68	MP1A	Z	-9.279	2.5
69	MP1A	Mx	.004	2.5
70	MP1B	X	5.685	2.5
71	MP1B	Z	-9.847	2.5
72	MP1B	Mx	-.004	2.5
73	MP1C	X	6.245	2.5
74	MP1C	Z	-10.816	2.5
75	MP1C	Mx	-.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	20.574	1
2	MP2A	Z	-11.878	1
3	MP2A	Mx	-.014	1
4	MP2A	X	20.574	5
5	MP2A	Z	-11.878	5
6	MP2A	Mx	-.014	5
7	MP2B	X	26.737	1
8	MP2B	Z	-15.437	1
9	MP2B	Mx	-.018	1
10	MP2B	X	26.737	5
11	MP2B	Z	-15.437	5
12	MP2B	Mx	-.018	5
13	MP2C	X	23.086	1
14	MP2C	Z	-13.329	1
15	MP2C	Mx	.022	1
16	MP2C	X	23.086	5
17	MP2C	Z	-13.329	5
18	MP2C	Mx	.022	5
19	MP2A	X	20.574	1
20	MP2A	Z	-11.878	1
21	MP2A	Mx	-.009	1
22	MP2A	X	20.574	5
23	MP2A	Z	-11.878	5
24	MP2A	Mx	-.009	5
25	MP2B	X	26.737	1
26	MP2B	Z	-15.437	1
27	MP2B	Mx	.023	1
28	MP2B	X	26.737	5
29	MP2B	Z	-15.437	5
30	MP2B	Mx	.023	5
31	MP2C	X	23.086	1
32	MP2C	Z	-13.329	1
33	MP2C	Mx	-.001	1
34	MP2C	X	23.086	5
35	MP2C	Z	-13.329	5
36	MP2C	Mx	-.001	5
37	MP2A	X	7.893	2.5
38	MP2A	Z	-4.557	2.5
39	MP2A	Mx	.004	2.5
40	MP2B	X	11.096	2.5
41	MP2B	Z	-6.406	2.5
42	MP2B	Mx	-.001	2.5
43	MP2C	X	9.199	2.5
44	MP2C	Z	-5.311	2.5
45	MP2C	Mx	-.004	2.5
46	M76A	X	18.149	1.5
47	M76A	Z	-10.478	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	4.767	2.66
50	MP4A	Z	-2.752	2.66
51	MP4A	Mx	-.003	2.66
52	MP4A	X	4.767	4.66
53	MP4A	Z	-2.752	4.66
54	MP4A	Mx	-.003	4.66
55	MP4B	X	10.654	2.66
56	MP4B	Z	-6.151	2.66
57	MP4B	Mx	.001	2.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4B	X	10.654	4.66
59	MP4B	Z	-6.151	4.66
60	MP4B	Mx	.001	4.66
61	MP4C	X	7.167	2.66
62	MP4C	Z	-4.138	2.66
63	MP4C	Mx	.003	2.66
64	MP4C	X	7.167	4.66
65	MP4C	Z	-4.138	4.66
66	MP4C	Mx	.003	4.66
67	MP1A	X	8.025	2.5
68	MP1A	Z	-4.633	2.5
69	MP1A	Mx	.005	2.5
70	MP1B	X	11.1	2.5
71	MP1B	Z	-6.409	2.5
72	MP1B	Mx	-.001	2.5
73	MP1C	X	9.279	2.5
74	MP1C	Z	-5.357	2.5
75	MP1C	Mx	-.004	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	24.414	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.006	1
4	MP2A	X	24.414	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.006	5
7	MP2B	X	30.216	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.024	1
10	MP2B	X	30.216	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.024	5
13	MP2C	X	23.757	1
14	MP2C	Z	0	1
15	MP2C	Mx	.014	1
16	MP2C	X	23.757	5
17	MP2C	Z	0	5
18	MP2C	Mx	.014	5
19	MP2A	X	24.414	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.017	1
22	MP2A	X	24.414	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.017	5
25	MP2B	X	30.216	1
26	MP2B	Z	0	1
27	MP2B	Mx	.014	1
28	MP2B	X	30.216	5
29	MP2B	Z	0	5
30	MP2B	Mx	.014	5
31	MP2C	X	23.757	1
32	MP2C	Z	0	1
33	MP2C	Mx	.009	1
34	MP2C	X	23.757	5
35	MP2C	Z	0	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
36	MP2C	Mx	.009	5
37	MP2A	X	9.456	2.5
38	MP2A	Z	0	2.5
39	MP2A	Mx	.004	2.5
40	MP2B	X	12.471	2.5
41	MP2B	Z	0	2.5
42	MP2B	Mx	.002	2.5
43	MP2C	X	9.114	2.5
44	MP2C	Z	0	2.5
45	MP2C	Mx	-.004	2.5
46	M76A	X	21.459	1.5
47	M76A	Z	0	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	6.133	2.66
50	MP4A	Z	0	2.66
51	MP4A	Mx	-.003	2.66
52	MP4A	X	6.133	4.66
53	MP4A	Z	0	4.66
54	MP4A	Mx	-.003	4.66
55	MP4B	X	11.674	2.66
56	MP4B	Z	0	2.66
57	MP4B	Mx	-.002	2.66
58	MP4B	X	11.674	4.66
59	MP4B	Z	0	4.66
60	MP4B	Mx	-.002	4.66
61	MP4C	X	5.505	2.66
62	MP4C	Z	0	2.66
63	MP4C	Mx	.003	2.66
64	MP4C	X	5.505	4.66
65	MP4C	Z	0	4.66
66	MP4C	Mx	.003	4.66
67	MP1A	X	9.595	2.5
68	MP1A	Z	0	2.5
69	MP1A	Mx	.005	2.5
70	MP1B	X	12.49	2.5
71	MP1B	Z	0	2.5
72	MP1B	Mx	.002	2.5
73	MP1C	X	9.267	2.5
74	MP1C	Z	0	2.5
75	MP1C	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	24.225	1
2	MP2A	Z	13.986	1
3	MP2A	Mx	.005	1
4	MP2A	X	24.225	5
5	MP2A	Z	13.986	5
6	MP2A	Mx	.005	5
7	MP2B	X	23.086	1
8	MP2B	Z	13.329	1
9	MP2B	Mx	-.022	1
10	MP2B	X	23.086	5
11	MP2B	Z	13.329	5
12	MP2B	Mx	-.022	5
13	MP2C	X	21.143	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP2C	Z	12.207	1
15	MP2C	Mx	.006	1
16	MP2C	X	21.143	5
17	MP2C	Z	12.207	5
18	MP2C	Mx	.006	5
19	MP2A	X	24.225	1
20	MP2A	Z	13.986	1
21	MP2A	Mx	-.023	1
22	MP2A	X	24.225	5
23	MP2A	Z	13.986	5
24	MP2A	Mx	-.023	5
25	MP2B	X	23.086	1
26	MP2B	Z	13.329	1
27	MP2B	Mx	.001	1
28	MP2B	X	23.086	5
29	MP2B	Z	13.329	5
30	MP2B	Mx	.001	5
31	MP2C	X	21.143	1
32	MP2C	Z	12.207	1
33	MP2C	Mx	.017	1
34	MP2C	X	21.143	5
35	MP2C	Z	12.207	5
36	MP2C	Mx	.017	5
37	MP2A	X	9.791	2.5
38	MP2A	Z	5.653	2.5
39	MP2A	Mx	.004	2.5
40	MP2B	X	9.199	2.5
41	MP2B	Z	5.311	2.5
42	MP2B	Mx	.004	2.5
43	MP2C	X	8.189	2.5
44	MP2C	Z	4.728	2.5
45	MP2C	Mx	-.004	2.5
46	M76A	X	20.942	1.5
47	M76A	Z	12.091	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	8.254	2.66
50	MP4A	Z	4.766	2.66
51	MP4A	Mx	-.003	2.66
52	MP4A	X	8.254	4.66
53	MP4A	Z	4.766	4.66
54	MP4A	Mx	-.003	4.66
55	MP4B	X	7.167	2.66
56	MP4B	Z	4.138	2.66
57	MP4B	Mx	-.003	2.66
58	MP4B	X	7.167	4.66
59	MP4B	Z	4.138	4.66
60	MP4B	Mx	-.003	4.66
61	MP4C	X	5.311	2.66
62	MP4C	Z	3.066	2.66
63	MP4C	Mx	.003	2.66
64	MP4C	X	5.311	4.66
65	MP4C	Z	3.066	4.66
66	MP4C	Mx	.003	4.66
67	MP1A	X	9.847	2.5
68	MP1A	Z	5.685	2.5
69	MP1A	Mx	.004	2.5
70	MP1B	X	9.279	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
71	MP1B	Z	5.357	2.5
72	MP1B	Mx	.004	2.5
73	MP1C	X	8.309	2.5
74	MP1C	Z	4.797	2.5
75	MP1C	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	15.437	1
2	MP2A	Z	26.737	1
3	MP2A	Mx	.018	1
4	MP2A	X	15.437	5
5	MP2A	Z	26.737	5
6	MP2A	Mx	.018	5
7	MP2B	X	11.878	1
8	MP2B	Z	20.574	1
9	MP2B	Mx	-.014	1
10	MP2B	X	11.878	5
11	MP2B	Z	20.574	5
12	MP2B	Mx	-.014	5
13	MP2C	X	13.986	1
14	MP2C	Z	24.225	1
15	MP2C	Mx	-.005	1
16	MP2C	X	13.986	5
17	MP2C	Z	24.225	5
18	MP2C	Mx	-.005	5
19	MP2A	X	15.437	1
20	MP2A	Z	26.737	1
21	MP2A	Mx	-.023	1
22	MP2A	X	15.437	5
23	MP2A	Z	26.737	5
24	MP2A	Mx	-.023	5
25	MP2B	X	11.878	1
26	MP2B	Z	20.574	1
27	MP2B	Mx	-.009	1
28	MP2B	X	11.878	5
29	MP2B	Z	20.574	5
30	MP2B	Mx	-.009	5
31	MP2C	X	13.986	1
32	MP2C	Z	24.225	1
33	MP2C	Mx	.023	1
34	MP2C	X	13.986	5
35	MP2C	Z	24.225	5
36	MP2C	Mx	.023	5
37	MP2A	X	6.406	2.5
38	MP2A	Z	11.096	2.5
39	MP2A	Mx	.001	2.5
40	MP2B	X	4.557	2.5
41	MP2B	Z	7.893	2.5
42	MP2B	Mx	.004	2.5
43	MP2C	X	5.653	2.5
44	MP2C	Z	9.791	2.5
45	MP2C	Mx	-.004	2.5
46	M76A	X	13.2	1.5
47	M76A	Z	22.864	1.5
48	M76A	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP4A	X	6.151	2.66
50	MP4A	Z	10.654	2.66
51	MP4A	Mx	-.001	2.66
52	MP4A	X	6.151	4.66
53	MP4A	Z	10.654	4.66
54	MP4A	Mx	-.001	4.66
55	MP4B	X	2.752	2.66
56	MP4B	Z	4.767	2.66
57	MP4B	Mx	-.003	2.66
58	MP4B	X	2.752	4.66
59	MP4B	Z	4.767	4.66
60	MP4B	Mx	-.003	4.66
61	MP4C	X	4.766	2.66
62	MP4C	Z	8.254	2.66
63	MP4C	Mx	.003	2.66
64	MP4C	X	4.766	4.66
65	MP4C	Z	8.254	4.66
66	MP4C	Mx	.003	4.66
67	MP1A	X	6.409	2.5
68	MP1A	Z	11.1	2.5
69	MP1A	Mx	.001	2.5
70	MP1B	X	4.633	2.5
71	MP1B	Z	8.025	2.5
72	MP1B	Mx	.005	2.5
73	MP1C	X	5.685	2.5
74	MP1C	Z	9.847	2.5
75	MP1C	Mx	-.004	2.5

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	30.216	1
3	MP2A	Mx	.024	1
4	MP2A	X	0	5
5	MP2A	Z	30.216	5
6	MP2A	Mx	.024	5
7	MP2B	X	0	1
8	MP2B	Z	24.414	1
9	MP2B	Mx	-.006	1
10	MP2B	X	0	5
11	MP2B	Z	24.414	5
12	MP2B	Mx	-.006	5
13	MP2C	X	0	1
14	MP2C	Z	30.873	1
15	MP2C	Mx	-.018	1
16	MP2C	X	0	5
17	MP2C	Z	30.873	5
18	MP2C	Mx	-.018	5
19	MP2A	X	0	1
20	MP2A	Z	30.216	1
21	MP2A	Mx	-.014	1
22	MP2A	X	0	5
23	MP2A	Z	30.216	5
24	MP2A	Mx	-.014	5
25	MP2B	X	0	1
26	MP2B	Z	24.414	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
27	MP2B	Mx	-.017	1
28	MP2B	X	0	5
29	MP2B	Z	24.414	5
30	MP2B	Mx	-.017	5
31	MP2C	X	0	1
32	MP2C	Z	30.873	1
33	MP2C	Mx	.023	1
34	MP2C	X	0	5
35	MP2C	Z	30.873	5
36	MP2C	Mx	.023	5
37	MP2A	X	0	2.5
38	MP2A	Z	12.471	2.5
39	MP2A	Mx	-.002	2.5
40	MP2B	X	0	2.5
41	MP2B	Z	9.456	2.5
42	MP2B	Mx	.004	2.5
43	MP2C	X	0	2.5
44	MP2C	Z	12.813	2.5
45	MP2C	Mx	-.001	2.5
46	M76A	X	0	1.5
47	M76A	Z	25.898	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	0	2.66
50	MP4A	Z	11.674	2.66
51	MP4A	Mx	.002	2.66
52	MP4A	X	0	4.66
53	MP4A	Z	11.674	4.66
54	MP4A	Mx	.002	4.66
55	MP4B	X	0	2.66
56	MP4B	Z	6.133	2.66
57	MP4B	Mx	-.003	2.66
58	MP4B	X	0	4.66
59	MP4B	Z	6.133	4.66
60	MP4B	Mx	-.003	4.66
61	MP4C	X	0	2.66
62	MP4C	Z	12.302	2.66
63	MP4C	Mx	.001	2.66
64	MP4C	X	0	4.66
65	MP4C	Z	12.302	4.66
66	MP4C	Mx	.001	4.66
67	MP1A	X	0	2.5
68	MP1A	Z	12.49	2.5
69	MP1A	Mx	-.002	2.5
70	MP1B	X	0	2.5
71	MP1B	Z	9.595	2.5
72	MP1B	Mx	.005	2.5
73	MP1C	X	0	2.5
74	MP1C	Z	12.818	2.5
75	MP1C	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-13.329	1
2	MP2A	Z	23.086	1
3	MP2A	Mx	.022	1
4	MP2A	X	-13.329	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
5	MP2A	Z	23.086	5
6	MP2A	Mx	.022	5
7	MP2B	X	-13.986	1
8	MP2B	Z	24.225	1
9	MP2B	Mx	.005	1
10	MP2B	X	-13.986	5
11	MP2B	Z	24.225	5
12	MP2B	Mx	.005	5
13	MP2C	X	-15.108	1
14	MP2C	Z	26.167	1
15	MP2C	Mx	-.024	1
16	MP2C	X	-15.108	5
17	MP2C	Z	26.167	5
18	MP2C	Mx	-.024	5
19	MP2A	X	-13.329	1
20	MP2A	Z	23.086	1
21	MP2A	Mx	-.001	1
22	MP2A	X	-13.329	5
23	MP2A	Z	23.086	5
24	MP2A	Mx	-.001	5
25	MP2B	X	-13.986	1
26	MP2B	Z	24.225	1
27	MP2B	Mx	-.023	1
28	MP2B	X	-13.986	5
29	MP2B	Z	24.225	5
30	MP2B	Mx	-.023	5
31	MP2C	X	-15.108	1
32	MP2C	Z	26.167	1
33	MP2C	Mx	.014	1
34	MP2C	X	-15.108	5
35	MP2C	Z	26.167	5
36	MP2C	Mx	.014	5
37	MP2A	X	-5.311	2.5
38	MP2A	Z	9.199	2.5
39	MP2A	Mx	-.004	2.5
40	MP2B	X	-5.653	2.5
41	MP2B	Z	9.791	2.5
42	MP2B	Mx	.004	2.5
43	MP2C	X	-6.236	2.5
44	MP2C	Z	10.8	2.5
45	MP2C	Mx	.002	2.5
46	M76A	X	-11.588	1.5
47	M76A	Z	20.071	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-4.138	2.66
50	MP4A	Z	7.167	2.66
51	MP4A	Mx	.003	2.66
52	MP4A	X	-4.138	4.66
53	MP4A	Z	7.167	4.66
54	MP4A	Mx	.003	4.66
55	MP4B	X	-4.766	2.66
56	MP4B	Z	8.254	2.66
57	MP4B	Mx	-.003	2.66
58	MP4B	X	-4.766	4.66
59	MP4B	Z	8.254	4.66
60	MP4B	Mx	-.003	4.66
61	MP4C	X	-5.837	2.66

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
62	MP4C	Z	10.11	2.66
63	MP4C	Mx	-.002	2.66
64	MP4C	X	-5.837	4.66
65	MP4C	Z	10.11	4.66
66	MP4C	Mx	-.002	4.66
67	MP1A	X	-5.357	2.5
68	MP1A	Z	9.279	2.5
69	MP1A	Mx	-.004	2.5
70	MP1B	X	-5.685	2.5
71	MP1B	Z	9.847	2.5
72	MP1B	Mx	.004	2.5
73	MP1C	X	-6.245	2.5
74	MP1C	Z	10.816	2.5
75	MP1C	Mx	.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-20.574	1
2	MP2A	Z	11.878	1
3	MP2A	Mx	.014	1
4	MP2A	X	-20.574	5
5	MP2A	Z	11.878	5
6	MP2A	Mx	.014	5
7	MP2B	X	-26.737	1
8	MP2B	Z	15.437	1
9	MP2B	Mx	.018	1
10	MP2B	X	-26.737	5
11	MP2B	Z	15.437	5
12	MP2B	Mx	.018	5
13	MP2C	X	-23.086	1
14	MP2C	Z	13.329	1
15	MP2C	Mx	-.022	1
16	MP2C	X	-23.086	5
17	MP2C	Z	13.329	5
18	MP2C	Mx	-.022	5
19	MP2A	X	-20.574	1
20	MP2A	Z	11.878	1
21	MP2A	Mx	.009	1
22	MP2A	X	-20.574	5
23	MP2A	Z	11.878	5
24	MP2A	Mx	.009	5
25	MP2B	X	-26.737	1
26	MP2B	Z	15.437	1
27	MP2B	Mx	-.023	1
28	MP2B	X	-26.737	5
29	MP2B	Z	15.437	5
30	MP2B	Mx	-.023	5
31	MP2C	X	-23.086	1
32	MP2C	Z	13.329	1
33	MP2C	Mx	.001	1
34	MP2C	X	-23.086	5
35	MP2C	Z	13.329	5
36	MP2C	Mx	.001	5
37	MP2A	X	-7.893	2.5
38	MP2A	Z	4.557	2.5
39	MP2A	Mx	-.004	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP2B	X	-11.096	2.5
41	MP2B	Z	6.406	2.5
42	MP2B	Mx	.001	2.5
43	MP2C	X	-9.199	2.5
44	MP2C	Z	5.311	2.5
45	MP2C	Mx	.004	2.5
46	M76A	X	-18.149	1.5
47	M76A	Z	10.478	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-4.767	2.66
50	MP4A	Z	2.752	2.66
51	MP4A	Mx	.003	2.66
52	MP4A	X	-4.767	4.66
53	MP4A	Z	2.752	4.66
54	MP4A	Mx	.003	4.66
55	MP4B	X	-10.654	2.66
56	MP4B	Z	6.151	2.66
57	MP4B	Mx	-.001	2.66
58	MP4B	X	-10.654	4.66
59	MP4B	Z	6.151	4.66
60	MP4B	Mx	-.001	4.66
61	MP4C	X	-7.167	2.66
62	MP4C	Z	4.138	2.66
63	MP4C	Mx	-.003	2.66
64	MP4C	X	-7.167	4.66
65	MP4C	Z	4.138	4.66
66	MP4C	Mx	-.003	4.66
67	MP1A	X	-8.025	2.5
68	MP1A	Z	4.633	2.5
69	MP1A	Mx	-.005	2.5
70	MP1B	X	-11.1	2.5
71	MP1B	Z	6.409	2.5
72	MP1B	Mx	.001	2.5
73	MP1C	X	-9.279	2.5
74	MP1C	Z	5.357	2.5
75	MP1C	Mx	.004	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-24.414	1
2	MP2A	Z	0	1
3	MP2A	Mx	.006	1
4	MP2A	X	-24.414	5
5	MP2A	Z	0	5
6	MP2A	Mx	.006	5
7	MP2B	X	-30.216	1
8	MP2B	Z	0	1
9	MP2B	Mx	.024	1
10	MP2B	X	-30.216	5
11	MP2B	Z	0	5
12	MP2B	Mx	.024	5
13	MP2C	X	-23.757	1
14	MP2C	Z	0	1
15	MP2C	Mx	-.014	1
16	MP2C	X	-23.757	5
17	MP2C	Z	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mx	-.014	5
19	MP2A	X	-24.414	1
20	MP2A	Z	0	1
21	MP2A	Mx	.017	1
22	MP2A	X	-24.414	5
23	MP2A	Z	0	5
24	MP2A	Mx	.017	5
25	MP2B	X	-30.216	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.014	1
28	MP2B	X	-30.216	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.014	5
31	MP2C	X	-23.757	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.009	1
34	MP2C	X	-23.757	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.009	5
37	MP2A	X	-9.456	2.5
38	MP2A	Z	0	2.5
39	MP2A	Mx	-.004	2.5
40	MP2B	X	-12.471	2.5
41	MP2B	Z	0	2.5
42	MP2B	Mx	-.002	2.5
43	MP2C	X	-9.114	2.5
44	MP2C	Z	0	2.5
45	MP2C	Mx	.004	2.5
46	M76A	X	-21.459	1.5
47	M76A	Z	0	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-6.133	2.66
50	MP4A	Z	0	2.66
51	MP4A	Mx	.003	2.66
52	MP4A	X	-6.133	4.66
53	MP4A	Z	0	4.66
54	MP4A	Mx	.003	4.66
55	MP4B	X	-11.674	2.66
56	MP4B	Z	0	2.66
57	MP4B	Mx	.002	2.66
58	MP4B	X	-11.674	4.66
59	MP4B	Z	0	4.66
60	MP4B	Mx	.002	4.66
61	MP4C	X	-5.505	2.66
62	MP4C	Z	0	2.66
63	MP4C	Mx	-.003	2.66
64	MP4C	X	-5.505	4.66
65	MP4C	Z	0	4.66
66	MP4C	Mx	-.003	4.66
67	MP1A	X	-9.595	2.5
68	MP1A	Z	0	2.5
69	MP1A	Mx	-.005	2.5
70	MP1B	X	-12.49	2.5
71	MP1B	Z	0	2.5
72	MP1B	Mx	-.002	2.5
73	MP1C	X	-9.267	2.5
74	MP1C	Z	0	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
75	MP1C	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-24.225	1
2	MP2A	Z	-13.986	1
3	MP2A	Mx	-.005	1
4	MP2A	X	-24.225	5
5	MP2A	Z	-13.986	5
6	MP2A	Mx	-.005	5
7	MP2B	X	-23.086	1
8	MP2B	Z	-13.329	1
9	MP2B	Mx	.022	1
10	MP2B	X	-23.086	5
11	MP2B	Z	-13.329	5
12	MP2B	Mx	.022	5
13	MP2C	X	-21.143	1
14	MP2C	Z	-12.207	1
15	MP2C	Mx	-.006	1
16	MP2C	X	-21.143	5
17	MP2C	Z	-12.207	5
18	MP2C	Mx	-.006	5
19	MP2A	X	-24.225	1
20	MP2A	Z	-13.986	1
21	MP2A	Mx	.023	1
22	MP2A	X	-24.225	5
23	MP2A	Z	-13.986	5
24	MP2A	Mx	.023	5
25	MP2B	X	-23.086	1
26	MP2B	Z	-13.329	1
27	MP2B	Mx	-.001	1
28	MP2B	X	-23.086	5
29	MP2B	Z	-13.329	5
30	MP2B	Mx	-.001	5
31	MP2C	X	-21.143	1
32	MP2C	Z	-12.207	1
33	MP2C	Mx	-.017	1
34	MP2C	X	-21.143	5
35	MP2C	Z	-12.207	5
36	MP2C	Mx	-.017	5
37	MP2A	X	-9.791	2.5
38	MP2A	Z	-5.653	2.5
39	MP2A	Mx	-.004	2.5
40	MP2B	X	-9.199	2.5
41	MP2B	Z	-5.311	2.5
42	MP2B	Mx	-.004	2.5
43	MP2C	X	-8.189	2.5
44	MP2C	Z	-4.728	2.5
45	MP2C	Mx	.004	2.5
46	M76A	X	-20.942	1.5
47	M76A	Z	-12.091	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-8.254	2.66
50	MP4A	Z	-4.766	2.66
51	MP4A	Mx	.003	2.66
52	MP4A	X	-8.254	4.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4A	Z	-4.766	4.66
54	MP4A	Mx	.003	4.66
55	MP4B	X	-7.167	2.66
56	MP4B	Z	-4.138	2.66
57	MP4B	Mx	.003	2.66
58	MP4B	X	-7.167	4.66
59	MP4B	Z	-4.138	4.66
60	MP4B	Mx	.003	4.66
61	MP4C	X	-5.311	2.66
62	MP4C	Z	-3.066	2.66
63	MP4C	Mx	-.003	2.66
64	MP4C	X	-5.311	4.66
65	MP4C	Z	-3.066	4.66
66	MP4C	Mx	-.003	4.66
67	MP1A	X	-9.847	2.5
68	MP1A	Z	-5.685	2.5
69	MP1A	Mx	-.004	2.5
70	MP1B	X	-9.279	2.5
71	MP1B	Z	-5.357	2.5
72	MP1B	Mx	-.004	2.5
73	MP1C	X	-8.309	2.5
74	MP1C	Z	-4.797	2.5
75	MP1C	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-15.437	1
2	MP2A	Z	-26.737	1
3	MP2A	Mx	-.018	1
4	MP2A	X	-15.437	5
5	MP2A	Z	-26.737	5
6	MP2A	Mx	-.018	5
7	MP2B	X	-11.878	1
8	MP2B	Z	-20.574	1
9	MP2B	Mx	.014	1
10	MP2B	X	-11.878	5
11	MP2B	Z	-20.574	5
12	MP2B	Mx	.014	5
13	MP2C	X	-13.986	1
14	MP2C	Z	-24.225	1
15	MP2C	Mx	.005	1
16	MP2C	X	-13.986	5
17	MP2C	Z	-24.225	5
18	MP2C	Mx	.005	5
19	MP2A	X	-15.437	1
20	MP2A	Z	-26.737	1
21	MP2A	Mx	.023	1
22	MP2A	X	-15.437	5
23	MP2A	Z	-26.737	5
24	MP2A	Mx	.023	5
25	MP2B	X	-11.878	1
26	MP2B	Z	-20.574	1
27	MP2B	Mx	.009	1
28	MP2B	X	-11.878	5
29	MP2B	Z	-20.574	5
30	MP2B	Mx	.009	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	-13.986	1
32	MP2C	Z	-24.225	1
33	MP2C	Mx	-.023	1
34	MP2C	X	-13.986	5
35	MP2C	Z	-24.225	5
36	MP2C	Mx	-.023	5
37	MP2A	X	-6.406	2.5
38	MP2A	Z	-11.096	2.5
39	MP2A	Mx	-.001	2.5
40	MP2B	X	-4.557	2.5
41	MP2B	Z	-7.893	2.5
42	MP2B	Mx	-.004	2.5
43	MP2C	X	-5.653	2.5
44	MP2C	Z	-9.791	2.5
45	MP2C	Mx	.004	2.5
46	M76A	X	-13.2	1.5
47	M76A	Z	-22.864	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-6.151	2.66
50	MP4A	Z	-10.654	2.66
51	MP4A	Mx	.001	2.66
52	MP4A	X	-6.151	4.66
53	MP4A	Z	-10.654	4.66
54	MP4A	Mx	.001	4.66
55	MP4B	X	-2.752	2.66
56	MP4B	Z	-4.767	2.66
57	MP4B	Mx	.003	2.66
58	MP4B	X	-2.752	4.66
59	MP4B	Z	-4.767	4.66
60	MP4B	Mx	.003	4.66
61	MP4C	X	-4.766	2.66
62	MP4C	Z	-8.254	2.66
63	MP4C	Mx	-.003	2.66
64	MP4C	X	-4.766	4.66
65	MP4C	Z	-8.254	4.66
66	MP4C	Mx	-.003	4.66
67	MP1A	X	-6.409	2.5
68	MP1A	Z	-11.1	2.5
69	MP1A	Mx	-.001	2.5
70	MP1B	X	-4.633	2.5
71	MP1B	Z	-8.025	2.5
72	MP1B	Mx	-.005	2.5
73	MP1C	X	-5.685	2.5
74	MP1C	Z	-9.847	2.5
75	MP1C	Mx	.004	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1
2	MP2A	Z	-4.776	1
3	MP2A	Mx	-.004	1
4	MP2A	X	0	5
5	MP2A	Z	-4.776	5
6	MP2A	Mx	-.004	5
7	MP2B	X	0	1
8	MP2B	Z	-3.827	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2B	Mx	.000925	1
10	MP2B	X	0	5
11	MP2B	Z	-3.827	5
12	MP2B	Mx	.000925	5
13	MP2C	X	0	1
14	MP2C	Z	-4.883	1
15	MP2C	Mx	.003	1
16	MP2C	X	0	5
17	MP2C	Z	-4.883	5
18	MP2C	Mx	.003	5
19	MP2A	X	0	1
20	MP2A	Z	-4.776	1
21	MP2A	Mx	.002	1
22	MP2A	X	0	5
23	MP2A	Z	-4.776	5
24	MP2A	Mx	.002	5
25	MP2B	X	0	1
26	MP2B	Z	-3.827	1
27	MP2B	Mx	.003	1
28	MP2B	X	0	5
29	MP2B	Z	-3.827	5
30	MP2B	Mx	.003	5
31	MP2C	X	0	1
32	MP2C	Z	-4.883	1
33	MP2C	Mx	-.004	1
34	MP2C	X	0	5
35	MP2C	Z	-4.883	5
36	MP2C	Mx	-.004	5
37	MP2A	X	0	2.5
38	MP2A	Z	-3.101	2.5
39	MP2A	Mx	.00053	2.5
40	MP2B	X	0	2.5
41	MP2B	Z	-2.288	2.5
42	MP2B	Mx	-.001	2.5
43	MP2C	X	0	2.5
44	MP2C	Z	-3.193	2.5
45	MP2C	Mx	.000277	2.5
46	M76A	X	0	1.5
47	M76A	Z	-6.41	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	0	2.66
50	MP4A	Z	-3.659	2.66
51	MP4A	Mx	-.000626	2.66
52	MP4A	X	0	4.66
53	MP4A	Z	-3.659	4.66
54	MP4A	Mx	-.000626	4.66
55	MP4B	X	0	2.66
56	MP4B	Z	-1.802	2.66
57	MP4B	Mx	.000847	2.66
58	MP4B	X	0	4.66
59	MP4B	Z	-1.802	4.66
60	MP4B	Mx	.000847	4.66
61	MP4C	X	0	2.66
62	MP4C	Z	-3.87	2.66
63	MP4C	Mx	-.000336	2.66
64	MP4C	X	0	4.66
65	MP4C	Z	-3.87	4.66

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
66	MP4C	Mx	-.000336	4.66
67	MP1A	X	0	2.5
68	MP1A	Z	-3.746	2.5
69	MP1A	Mx	.000641	2.5
70	MP1B	X	0	2.5
71	MP1B	Z	-2.798	2.5
72	MP1B	Mx	-.001	2.5
73	MP1C	X	0	2.5
74	MP1C	Z	-3.853	2.5
75	MP1C	Mx	.000335	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	2.097	1
2	MP2A	Z	-3.632	1
3	MP2A	Mx	-.003	1
4	MP2A	X	2.097	5
5	MP2A	Z	-3.632	5
6	MP2A	Mx	-.003	5
7	MP2B	X	2.205	1
8	MP2B	Z	-3.818	1
9	MP2B	Mx	-.000835	1
10	MP2B	X	2.205	5
11	MP2B	Z	-3.818	5
12	MP2B	Mx	-.000835	5
13	MP2C	X	2.388	1
14	MP2C	Z	-4.136	1
15	MP2C	Mx	.004	1
16	MP2C	X	2.388	5
17	MP2C	Z	-4.136	5
18	MP2C	Mx	.004	5
19	MP2A	X	2.097	1
20	MP2A	Z	-3.632	1
21	MP2A	Mx	.000191	1
22	MP2A	X	2.097	5
23	MP2A	Z	-3.632	5
24	MP2A	Mx	.000191	5
25	MP2B	X	2.205	1
26	MP2B	Z	-3.818	1
27	MP2B	Mx	.004	1
28	MP2B	X	2.205	5
29	MP2B	Z	-3.818	5
30	MP2B	Mx	.004	5
31	MP2C	X	2.388	1
32	MP2C	Z	-4.136	1
33	MP2C	Mx	-.002	1
34	MP2C	X	2.388	5
35	MP2C	Z	-4.136	5
36	MP2C	Mx	-.002	5
37	MP2A	X	1.301	2.5
38	MP2A	Z	-2.254	2.5
39	MP2A	Mx	.000997	2.5
40	MP2B	X	1.393	2.5
41	MP2B	Z	-2.413	2.5
42	MP2B	Mx	-.000896	2.5
43	MP2C	X	1.55	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP2C	Z	-2.685	2.5
45	MP2C	Mx	-.00053	2.5
46	M76A	X	2.834	1.5
47	M76A	Z	-4.908	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	1.26	2.66
50	MP4A	Z	-2.182	2.66
51	MP4A	Mx	-.000965	2.66
52	MP4A	X	1.26	4.66
53	MP4A	Z	-2.182	4.66
54	MP4A	Mx	-.000965	4.66
55	MP4B	X	1.471	2.66
56	MP4B	Z	-2.547	2.66
57	MP4B	Mx	.000945	2.66
58	MP4B	X	1.471	4.66
59	MP4B	Z	-2.547	4.66
60	MP4B	Mx	.000945	4.66
61	MP4C	X	1.83	2.66
62	MP4C	Z	-3.169	2.66
63	MP4C	Mx	.000626	2.66
64	MP4C	X	1.83	4.66
65	MP4C	Z	-3.169	4.66
66	MP4C	Mx	.000626	4.66
67	MP1A	X	1.582	2.5
68	MP1A	Z	-2.74	2.5
69	MP1A	Mx	.001	2.5
70	MP1B	X	1.69	2.5
71	MP1B	Z	-2.926	2.5
72	MP1B	Mx	-.001	2.5
73	MP1C	X	1.873	2.5
74	MP1C	Z	-3.244	2.5
75	MP1C	Mx	-.000641	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.222	1
2	MP2A	Z	-1.86	1
3	MP2A	Mx	-.002	1
4	MP2A	X	3.222	5
5	MP2A	Z	-1.86	5
6	MP2A	Mx	-.002	5
7	MP2B	X	4.229	1
8	MP2B	Z	-2.442	1
9	MP2B	Mx	-.003	1
10	MP2B	X	4.229	5
11	MP2B	Z	-2.442	5
12	MP2B	Mx	-.003	5
13	MP2C	X	3.632	1
14	MP2C	Z	-2.097	1
15	MP2C	Mx	.003	1
16	MP2C	X	3.632	5
17	MP2C	Z	-2.097	5
18	MP2C	Mx	.003	5
19	MP2A	X	3.222	1
20	MP2A	Z	-1.86	1
21	MP2A	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
22	MP2A	X	3.222	5
23	MP2A	Z	-1.86	5
24	MP2A	Mx	-.001	5
25	MP2B	X	4.229	1
26	MP2B	Z	-2.442	1
27	MP2B	Mx	.004	1
28	MP2B	X	4.229	5
29	MP2B	Z	-2.442	5
30	MP2B	Mx	.004	5
31	MP2C	X	3.632	1
32	MP2C	Z	-2.097	1
33	MP2C	Mx	-.000191	1
34	MP2C	X	3.632	5
35	MP2C	Z	-2.097	5
36	MP2C	Mx	-.000191	5
37	MP2A	X	1.902	2.5
38	MP2A	Z	-1.098	2.5
39	MP2A	Mx	.001	2.5
40	MP2B	X	2.765	2.5
41	MP2B	Z	-1.596	2.5
42	MP2B	Mx	-.000277	2.5
43	MP2C	X	2.254	2.5
44	MP2C	Z	-1.301	2.5
45	MP2C	Mx	-.000997	2.5
46	M76A	X	4.384	1.5
47	M76A	Z	-2.531	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	1.378	2.66
50	MP4A	Z	-.796	2.66
51	MP4A	Mx	-.000784	2.66
52	MP4A	X	1.378	4.66
53	MP4A	Z	-.796	4.66
54	MP4A	Mx	-.000784	4.66
55	MP4B	X	3.351	2.66
56	MP4B	Z	-1.935	2.66
57	MP4B	Mx	.000336	2.66
58	MP4B	X	3.351	4.66
59	MP4B	Z	-1.935	4.66
60	MP4B	Mx	.000336	4.66
61	MP4C	X	2.182	2.66
62	MP4C	Z	-1.26	2.66
63	MP4C	Mx	.000965	2.66
64	MP4C	X	2.182	4.66
65	MP4C	Z	-1.26	4.66
66	MP4C	Mx	.000965	4.66
67	MP1A	X	2.33	2.5
68	MP1A	Z	-1.345	2.5
69	MP1A	Mx	.001	2.5
70	MP1B	X	3.337	2.5
71	MP1B	Z	-1.927	2.5
72	MP1B	Mx	-.000335	2.5
73	MP1C	X	2.74	2.5
74	MP1C	Z	-1.582	2.5
75	MP1C	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
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Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.827	1
2	MP2A	Z	0	1
3	MP2A	Mx	-.000925	1
4	MP2A	X	3.827	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.000925	5
7	MP2B	X	4.776	1
8	MP2B	Z	0	1
9	MP2B	Mx	-.004	1
10	MP2B	X	4.776	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.004	5
13	MP2C	X	3.72	1
14	MP2C	Z	0	1
15	MP2C	Mx	.002	1
16	MP2C	X	3.72	5
17	MP2C	Z	0	5
18	MP2C	Mx	.002	5
19	MP2A	X	3.827	1
20	MP2A	Z	0	1
21	MP2A	Mx	-.003	1
22	MP2A	X	3.827	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.003	5
25	MP2B	X	4.776	1
26	MP2B	Z	0	1
27	MP2B	Mx	.002	1
28	MP2B	X	4.776	5
29	MP2B	Z	0	5
30	MP2B	Mx	.002	5
31	MP2C	X	3.72	1
32	MP2C	Z	0	1
33	MP2C	Mx	.001	1
34	MP2C	X	3.72	5
35	MP2C	Z	0	5
36	MP2C	Mx	.001	5
37	MP2A	X	2.288	2.5
38	MP2A	Z	0	2.5
39	MP2A	Mx	.001	2.5
40	MP2B	X	3.101	2.5
41	MP2B	Z	0	2.5
42	MP2B	Mx	.00053	2.5
43	MP2C	X	2.196	2.5
44	MP2C	Z	0	2.5
45	MP2C	Mx	-.001	2.5
46	M76A	X	5.199	1.5
47	M76A	Z	0	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	1.802	2.66
50	MP4A	Z	0	2.66
51	MP4A	Mx	-.000847	2.66
52	MP4A	X	1.802	4.66
53	MP4A	Z	0	4.66
54	MP4A	Mx	-.000847	4.66
55	MP4B	X	3.659	2.66
56	MP4B	Z	0	2.66
57	MP4B	Mx	-.000626	2.66

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP4B	X	3.659	4.66
59	MP4B	Z	0	4.66
60	MP4B	Mx	-.000626	4.66
61	MP4C	X	1.592	2.66
62	MP4C	Z	0	2.66
63	MP4C	Mx	.000784	2.66
64	MP4C	X	1.592	4.66
65	MP4C	Z	0	4.66
66	MP4C	Mx	.000784	4.66
67	MP1A	X	2.798	2.5
68	MP1A	Z	0	2.5
69	MP1A	Mx	.001	2.5
70	MP1B	X	3.746	2.5
71	MP1B	Z	0	2.5
72	MP1B	Mx	.000641	2.5
73	MP1C	X	2.69	2.5
74	MP1C	Z	0	2.5
75	MP1C	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	3.818	1
2	MP2A	Z	2.205	1
3	MP2A	Mx	.000835	1
4	MP2A	X	3.818	5
5	MP2A	Z	2.205	5
6	MP2A	Mx	.000835	5
7	MP2B	X	3.632	1
8	MP2B	Z	2.097	1
9	MP2B	Mx	-.003	1
10	MP2B	X	3.632	5
11	MP2B	Z	2.097	5
12	MP2B	Mx	-.003	5
13	MP2C	X	3.315	1
14	MP2C	Z	1.914	1
15	MP2C	Mx	.000926	1
16	MP2C	X	3.315	5
17	MP2C	Z	1.914	5
18	MP2C	Mx	.000926	5
19	MP2A	X	3.818	1
20	MP2A	Z	2.205	1
21	MP2A	Mx	-.004	1
22	MP2A	X	3.818	5
23	MP2A	Z	2.205	5
24	MP2A	Mx	-.004	5
25	MP2B	X	3.632	1
26	MP2B	Z	2.097	1
27	MP2B	Mx	.000191	1
28	MP2B	X	3.632	5
29	MP2B	Z	2.097	5
30	MP2B	Mx	.000191	5
31	MP2C	X	3.315	1
32	MP2C	Z	1.914	1
33	MP2C	Mx	.003	1
34	MP2C	X	3.315	5
35	MP2C	Z	1.914	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	.003	5
37	MP2A	X	2.413	2.5
38	MP2A	Z	1.393	2.5
39	MP2A	Mx	.000896	2.5
40	MP2B	X	2.254	2.5
41	MP2B	Z	1.301	2.5
42	MP2B	Mx	.000997	2.5
43	MP2C	X	1.981	2.5
44	MP2C	Z	1.144	2.5
45	MP2C	Mx	-.001	2.5
46	M76A	X	5.146	1.5
47	M76A	Z	2.971	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	2.547	2.66
50	MP4A	Z	1.471	2.66
51	MP4A	Mx	-.000945	2.66
52	MP4A	X	2.547	4.66
53	MP4A	Z	1.471	4.66
54	MP4A	Mx	-.000945	4.66
55	MP4B	X	2.182	2.66
56	MP4B	Z	1.26	2.66
57	MP4B	Mx	-.000965	2.66
58	MP4B	X	2.182	4.66
59	MP4B	Z	1.26	4.66
60	MP4B	Mx	-.000965	4.66
61	MP4C	X	1.561	2.66
62	MP4C	Z	.901	2.66
63	MP4C	Mx	.000847	2.66
64	MP4C	X	1.561	4.66
65	MP4C	Z	.901	4.66
66	MP4C	Mx	.000847	4.66
67	MP1A	X	2.926	2.5
68	MP1A	Z	1.69	2.5
69	MP1A	Mx	.001	2.5
70	MP1B	X	2.74	2.5
71	MP1B	Z	1.582	2.5
72	MP1B	Mx	.001	2.5
73	MP1C	X	2.423	2.5
74	MP1C	Z	1.399	2.5
75	MP1C	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.442	1
2	MP2A	Z	4.229	1
3	MP2A	Mx	.003	1
4	MP2A	X	2.442	5
5	MP2A	Z	4.229	5
6	MP2A	Mx	.003	5
7	MP2B	X	1.86	1
8	MP2B	Z	3.222	1
9	MP2B	Mx	-.002	1
10	MP2B	X	1.86	5
11	MP2B	Z	3.222	5
12	MP2B	Mx	-.002	5
13	MP2C	X	2.205	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP2C	Z	3.818	1
15	MP2C	Mx	-.000834	1
16	MP2C	X	2.205	5
17	MP2C	Z	3.818	5
18	MP2C	Mx	-.000834	5
19	MP2A	X	2.442	1
20	MP2A	Z	4.229	1
21	MP2A	Mx	-.004	1
22	MP2A	X	2.442	5
23	MP2A	Z	4.229	5
24	MP2A	Mx	-.004	5
25	MP2B	X	1.86	1
26	MP2B	Z	3.222	1
27	MP2B	Mx	-.001	1
28	MP2B	X	1.86	5
29	MP2B	Z	3.222	5
30	MP2B	Mx	-.001	5
31	MP2C	X	2.205	1
32	MP2C	Z	3.818	1
33	MP2C	Mx	.004	1
34	MP2C	X	2.205	5
35	MP2C	Z	3.818	5
36	MP2C	Mx	.004	5
37	MP2A	X	1.596	2.5
38	MP2A	Z	2.765	2.5
39	MP2A	Mx	.000277	2.5
40	MP2B	X	1.098	2.5
41	MP2B	Z	1.902	2.5
42	MP2B	Mx	.001	2.5
43	MP2C	X	1.393	2.5
44	MP2C	Z	2.413	2.5
45	MP2C	Mx	-.000895	2.5
46	M76A	X	3.274	1.5
47	M76A	Z	5.67	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	1.935	2.66
50	MP4A	Z	3.351	2.66
51	MP4A	Mx	-.000336	2.66
52	MP4A	X	1.935	4.66
53	MP4A	Z	3.351	4.66
54	MP4A	Mx	-.000336	4.66
55	MP4B	X	.796	2.66
56	MP4B	Z	1.378	2.66
57	MP4B	Mx	-.000784	2.66
58	MP4B	X	.796	4.66
59	MP4B	Z	1.378	4.66
60	MP4B	Mx	-.000784	4.66
61	MP4C	X	1.471	2.66
62	MP4C	Z	2.547	2.66
63	MP4C	Mx	.000945	2.66
64	MP4C	X	1.471	4.66
65	MP4C	Z	2.547	4.66
66	MP4C	Mx	.000945	4.66
67	MP1A	X	1.927	2.5
68	MP1A	Z	3.337	2.5
69	MP1A	Mx	.000335	2.5
70	MP1B	X	1.345	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP1B	Z	2.33	2.5
72	MP1B	Mx	.001	2.5
73	MP1C	X	1.69	2.5
74	MP1C	Z	2.926	2.5
75	MP1C	Mx	-.001	2.5

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	4.776	1
3	MP2A	Mx	.004	1
4	MP2A	X	0	5
5	MP2A	Z	4.776	5
6	MP2A	Mx	.004	5
7	MP2B	X	0	1
8	MP2B	Z	3.827	1
9	MP2B	Mx	-.000925	1
10	MP2B	X	0	5
11	MP2B	Z	3.827	5
12	MP2B	Mx	-.000925	5
13	MP2C	X	0	1
14	MP2C	Z	4.883	1
15	MP2C	Mx	-.003	1
16	MP2C	X	0	5
17	MP2C	Z	4.883	5
18	MP2C	Mx	-.003	5
19	MP2A	X	0	1
20	MP2A	Z	4.776	1
21	MP2A	Mx	-.002	1
22	MP2A	X	0	5
23	MP2A	Z	4.776	5
24	MP2A	Mx	-.002	5
25	MP2B	X	0	1
26	MP2B	Z	3.827	1
27	MP2B	Mx	-.003	1
28	MP2B	X	0	5
29	MP2B	Z	3.827	5
30	MP2B	Mx	-.003	5
31	MP2C	X	0	1
32	MP2C	Z	4.883	1
33	MP2C	Mx	.004	1
34	MP2C	X	0	5
35	MP2C	Z	4.883	5
36	MP2C	Mx	.004	5
37	MP2A	X	0	2.5
38	MP2A	Z	3.101	2.5
39	MP2A	Mx	-.00053	2.5
40	MP2B	X	0	2.5
41	MP2B	Z	2.288	2.5
42	MP2B	Mx	.001	2.5
43	MP2C	X	0	2.5
44	MP2C	Z	3.193	2.5
45	MP2C	Mx	-.000277	2.5
46	M76A	X	0	1.5
47	M76A	Z	6.41	1.5
48	M76A	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP4A	X	0	2.66
50	MP4A	Z	3.659	2.66
51	MP4A	Mx	.000626	2.66
52	MP4A	X	0	4.66
53	MP4A	Z	3.659	4.66
54	MP4A	Mx	.000626	4.66
55	MP4B	X	0	2.66
56	MP4B	Z	1.802	2.66
57	MP4B	Mx	-.000847	2.66
58	MP4B	X	0	4.66
59	MP4B	Z	1.802	4.66
60	MP4B	Mx	-.000847	4.66
61	MP4C	X	0	2.66
62	MP4C	Z	3.87	2.66
63	MP4C	Mx	.000336	2.66
64	MP4C	X	0	4.66
65	MP4C	Z	3.87	4.66
66	MP4C	Mx	.000336	4.66
67	MP1A	X	0	2.5
68	MP1A	Z	3.746	2.5
69	MP1A	Mx	-.000641	2.5
70	MP1B	X	0	2.5
71	MP1B	Z	2.798	2.5
72	MP1B	Mx	.001	2.5
73	MP1C	X	0	2.5
74	MP1C	Z	3.853	2.5
75	MP1C	Mx	-.000335	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.097	1
2	MP2A	Z	3.632	1
3	MP2A	Mx	.003	1
4	MP2A	X	-2.097	5
5	MP2A	Z	3.632	5
6	MP2A	Mx	.003	5
7	MP2B	X	-2.205	1
8	MP2B	Z	3.818	1
9	MP2B	Mx	.000835	1
10	MP2B	X	-2.205	5
11	MP2B	Z	3.818	5
12	MP2B	Mx	.000835	5
13	MP2C	X	-2.388	1
14	MP2C	Z	4.136	1
15	MP2C	Mx	-.004	1
16	MP2C	X	-2.388	5
17	MP2C	Z	4.136	5
18	MP2C	Mx	-.004	5
19	MP2A	X	-2.097	1
20	MP2A	Z	3.632	1
21	MP2A	Mx	-.000191	1
22	MP2A	X	-2.097	5
23	MP2A	Z	3.632	5
24	MP2A	Mx	-.000191	5
25	MP2B	X	-2.205	1
26	MP2B	Z	3.818	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2B	Mx	-.004	1
28	MP2B	X	-2.205	5
29	MP2B	Z	3.818	5
30	MP2B	Mx	-.004	5
31	MP2C	X	-2.388	1
32	MP2C	Z	4.136	1
33	MP2C	Mx	.002	1
34	MP2C	X	-2.388	5
35	MP2C	Z	4.136	5
36	MP2C	Mx	.002	5
37	MP2A	X	-1.301	2.5
38	MP2A	Z	2.254	2.5
39	MP2A	Mx	-.000997	2.5
40	MP2B	X	-1.393	2.5
41	MP2B	Z	2.413	2.5
42	MP2B	Mx	.000896	2.5
43	MP2C	X	-1.55	2.5
44	MP2C	Z	2.685	2.5
45	MP2C	Mx	.00053	2.5
46	M76A	X	-2.834	1.5
47	M76A	Z	4.908	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-1.26	2.66
50	MP4A	Z	2.182	2.66
51	MP4A	Mx	.000965	2.66
52	MP4A	X	-1.26	4.66
53	MP4A	Z	2.182	4.66
54	MP4A	Mx	.000965	4.66
55	MP4B	X	-1.471	2.66
56	MP4B	Z	2.547	2.66
57	MP4B	Mx	-.000945	2.66
58	MP4B	X	-1.471	4.66
59	MP4B	Z	2.547	4.66
60	MP4B	Mx	-.000945	4.66
61	MP4C	X	-1.83	2.66
62	MP4C	Z	3.169	2.66
63	MP4C	Mx	-.000626	2.66
64	MP4C	X	-1.83	4.66
65	MP4C	Z	3.169	4.66
66	MP4C	Mx	-.000626	4.66
67	MP1A	X	-1.582	2.5
68	MP1A	Z	2.74	2.5
69	MP1A	Mx	-.001	2.5
70	MP1B	X	-1.69	2.5
71	MP1B	Z	2.926	2.5
72	MP1B	Mx	.001	2.5
73	MP1C	X	-1.873	2.5
74	MP1C	Z	3.244	2.5
75	MP1C	Mx	.000641	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.222	1
2	MP2A	Z	1.86	1
3	MP2A	Mx	.002	1
4	MP2A	X	-3.222	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
5	MP2A	Z	1.86	5
6	MP2A	Mx	.002	5
7	MP2B	X	-4.229	1
8	MP2B	Z	2.442	1
9	MP2B	Mx	.003	1
10	MP2B	X	-4.229	5
11	MP2B	Z	2.442	5
12	MP2B	Mx	.003	5
13	MP2C	X	-3.632	1
14	MP2C	Z	2.097	1
15	MP2C	Mx	-.003	1
16	MP2C	X	-3.632	5
17	MP2C	Z	2.097	5
18	MP2C	Mx	-.003	5
19	MP2A	X	-3.222	1
20	MP2A	Z	1.86	1
21	MP2A	Mx	.001	1
22	MP2A	X	-3.222	5
23	MP2A	Z	1.86	5
24	MP2A	Mx	.001	5
25	MP2B	X	-4.229	1
26	MP2B	Z	2.442	1
27	MP2B	Mx	-.004	1
28	MP2B	X	-4.229	5
29	MP2B	Z	2.442	5
30	MP2B	Mx	-.004	5
31	MP2C	X	-3.632	1
32	MP2C	Z	2.097	1
33	MP2C	Mx	.000191	1
34	MP2C	X	-3.632	5
35	MP2C	Z	2.097	5
36	MP2C	Mx	.000191	5
37	MP2A	X	-1.902	2.5
38	MP2A	Z	1.098	2.5
39	MP2A	Mx	-.001	2.5
40	MP2B	X	-2.765	2.5
41	MP2B	Z	1.596	2.5
42	MP2B	Mx	.000277	2.5
43	MP2C	X	-2.254	2.5
44	MP2C	Z	1.301	2.5
45	MP2C	Mx	.000997	2.5
46	M76A	X	-4.384	1.5
47	M76A	Z	2.531	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-1.378	2.66
50	MP4A	Z	.796	2.66
51	MP4A	Mx	.000784	2.66
52	MP4A	X	-1.378	4.66
53	MP4A	Z	.796	4.66
54	MP4A	Mx	.000784	4.66
55	MP4B	X	-3.351	2.66
56	MP4B	Z	1.935	2.66
57	MP4B	Mx	-.000336	2.66
58	MP4B	X	-3.351	4.66
59	MP4B	Z	1.935	4.66
60	MP4B	Mx	-.000336	4.66
61	MP4C	X	-2.182	2.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP4C	Z	1.26	2.66
63	MP4C	Mx	-.000965	2.66
64	MP4C	X	-2.182	4.66
65	MP4C	Z	1.26	4.66
66	MP4C	Mx	-.000965	4.66
67	MP1A	X	-2.33	2.5
68	MP1A	Z	1.345	2.5
69	MP1A	Mx	-.001	2.5
70	MP1B	X	-3.337	2.5
71	MP1B	Z	1.927	2.5
72	MP1B	Mx	.000335	2.5
73	MP1C	X	-2.74	2.5
74	MP1C	Z	1.582	2.5
75	MP1C	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.827	1
2	MP2A	Z	0	1
3	MP2A	Mx	.000925	1
4	MP2A	X	-3.827	5
5	MP2A	Z	0	5
6	MP2A	Mx	.000925	5
7	MP2B	X	-4.776	1
8	MP2B	Z	0	1
9	MP2B	Mx	.004	1
10	MP2B	X	-4.776	5
11	MP2B	Z	0	5
12	MP2B	Mx	.004	5
13	MP2C	X	-3.72	1
14	MP2C	Z	0	1
15	MP2C	Mx	-.002	1
16	MP2C	X	-3.72	5
17	MP2C	Z	0	5
18	MP2C	Mx	-.002	5
19	MP2A	X	-3.827	1
20	MP2A	Z	0	1
21	MP2A	Mx	.003	1
22	MP2A	X	-3.827	5
23	MP2A	Z	0	5
24	MP2A	Mx	.003	5
25	MP2B	X	-4.776	1
26	MP2B	Z	0	1
27	MP2B	Mx	-.002	1
28	MP2B	X	-4.776	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.002	5
31	MP2C	X	-3.72	1
32	MP2C	Z	0	1
33	MP2C	Mx	-.001	1
34	MP2C	X	-3.72	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.001	5
37	MP2A	X	-2.288	2.5
38	MP2A	Z	0	2.5
39	MP2A	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP2B	X	-3.101	2.5
41	MP2B	Z	0	2.5
42	MP2B	Mx	-.00053	2.5
43	MP2C	X	-2.196	2.5
44	MP2C	Z	0	2.5
45	MP2C	Mx	.001	2.5
46	M76A	X	-5.199	1.5
47	M76A	Z	0	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-1.802	2.66
50	MP4A	Z	0	2.66
51	MP4A	Mx	.000847	2.66
52	MP4A	X	-1.802	4.66
53	MP4A	Z	0	4.66
54	MP4A	Mx	.000847	4.66
55	MP4B	X	-3.659	2.66
56	MP4B	Z	0	2.66
57	MP4B	Mx	.000626	2.66
58	MP4B	X	-3.659	4.66
59	MP4B	Z	0	4.66
60	MP4B	Mx	.000626	4.66
61	MP4C	X	-1.592	2.66
62	MP4C	Z	0	2.66
63	MP4C	Mx	-.000784	2.66
64	MP4C	X	-1.592	4.66
65	MP4C	Z	0	4.66
66	MP4C	Mx	-.000784	4.66
67	MP1A	X	-2.798	2.5
68	MP1A	Z	0	2.5
69	MP1A	Mx	-.001	2.5
70	MP1B	X	-3.746	2.5
71	MP1B	Z	0	2.5
72	MP1B	Mx	-.000641	2.5
73	MP1C	X	-2.69	2.5
74	MP1C	Z	0	2.5
75	MP1C	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-3.818	1
2	MP2A	Z	-2.205	1
3	MP2A	Mx	-.000835	1
4	MP2A	X	-3.818	5
5	MP2A	Z	-2.205	5
6	MP2A	Mx	-.000835	5
7	MP2B	X	-3.632	1
8	MP2B	Z	-2.097	1
9	MP2B	Mx	.003	1
10	MP2B	X	-3.632	5
11	MP2B	Z	-2.097	5
12	MP2B	Mx	.003	5
13	MP2C	X	-3.315	1
14	MP2C	Z	-1.914	1
15	MP2C	Mx	-.000926	1
16	MP2C	X	-3.315	5
17	MP2C	Z	-1.914	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
18	MP2C	Mx	-.000926	5
19	MP2A	X	-3.818	1
20	MP2A	Z	-2.205	1
21	MP2A	Mx	.004	1
22	MP2A	X	-3.818	5
23	MP2A	Z	-2.205	5
24	MP2A	Mx	.004	5
25	MP2B	X	-3.632	1
26	MP2B	Z	-2.097	1
27	MP2B	Mx	-.000191	1
28	MP2B	X	-3.632	5
29	MP2B	Z	-2.097	5
30	MP2B	Mx	-.000191	5
31	MP2C	X	-3.315	1
32	MP2C	Z	-1.914	1
33	MP2C	Mx	-.003	1
34	MP2C	X	-3.315	5
35	MP2C	Z	-1.914	5
36	MP2C	Mx	-.003	5
37	MP2A	X	-2.413	2.5
38	MP2A	Z	-1.393	2.5
39	MP2A	Mx	-.000896	2.5
40	MP2B	X	-2.254	2.5
41	MP2B	Z	-1.301	2.5
42	MP2B	Mx	-.000997	2.5
43	MP2C	X	-1.981	2.5
44	MP2C	Z	-1.144	2.5
45	MP2C	Mx	.001	2.5
46	M76A	X	-5.146	1.5
47	M76A	Z	-2.971	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-2.547	2.66
50	MP4A	Z	-1.471	2.66
51	MP4A	Mx	.000945	2.66
52	MP4A	X	-2.547	4.66
53	MP4A	Z	-1.471	4.66
54	MP4A	Mx	.000945	4.66
55	MP4B	X	-2.182	2.66
56	MP4B	Z	-1.26	2.66
57	MP4B	Mx	.000965	2.66
58	MP4B	X	-2.182	4.66
59	MP4B	Z	-1.26	4.66
60	MP4B	Mx	.000965	4.66
61	MP4C	X	-1.561	2.66
62	MP4C	Z	-.901	2.66
63	MP4C	Mx	-.000847	2.66
64	MP4C	X	-1.561	4.66
65	MP4C	Z	-.901	4.66
66	MP4C	Mx	-.000847	4.66
67	MP1A	X	-2.926	2.5
68	MP1A	Z	-1.69	2.5
69	MP1A	Mx	-.001	2.5
70	MP1B	X	-2.74	2.5
71	MP1B	Z	-1.582	2.5
72	MP1B	Mx	-.001	2.5
73	MP1C	X	-2.423	2.5
74	MP1C	Z	-1.399	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
75	MP1C	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-2.442	1
2	MP2A	Z	-4.229	1
3	MP2A	Mx	-.003	1
4	MP2A	X	-2.442	5
5	MP2A	Z	-4.229	5
6	MP2A	Mx	-.003	5
7	MP2B	X	-1.86	1
8	MP2B	Z	-3.222	1
9	MP2B	Mx	.002	1
10	MP2B	X	-1.86	5
11	MP2B	Z	-3.222	5
12	MP2B	Mx	.002	5
13	MP2C	X	-2.205	1
14	MP2C	Z	-3.818	1
15	MP2C	Mx	.000834	1
16	MP2C	X	-2.205	5
17	MP2C	Z	-3.818	5
18	MP2C	Mx	.000834	5
19	MP2A	X	-2.442	1
20	MP2A	Z	-4.229	1
21	MP2A	Mx	.004	1
22	MP2A	X	-2.442	5
23	MP2A	Z	-4.229	5
24	MP2A	Mx	.004	5
25	MP2B	X	-1.86	1
26	MP2B	Z	-3.222	1
27	MP2B	Mx	.001	1
28	MP2B	X	-1.86	5
29	MP2B	Z	-3.222	5
30	MP2B	Mx	.001	5
31	MP2C	X	-2.205	1
32	MP2C	Z	-3.818	1
33	MP2C	Mx	-.004	1
34	MP2C	X	-2.205	5
35	MP2C	Z	-3.818	5
36	MP2C	Mx	-.004	5
37	MP2A	X	-1.596	2.5
38	MP2A	Z	-2.765	2.5
39	MP2A	Mx	-.000277	2.5
40	MP2B	X	-1.098	2.5
41	MP2B	Z	-1.902	2.5
42	MP2B	Mx	-.001	2.5
43	MP2C	X	-1.393	2.5
44	MP2C	Z	-2.413	2.5
45	MP2C	Mx	.000895	2.5
46	M76A	X	-3.274	1.5
47	M76A	Z	-5.67	1.5
48	M76A	Mx	0	1.5
49	MP4A	X	-1.935	2.66
50	MP4A	Z	-3.351	2.66
51	MP4A	Mx	.000336	2.66
52	MP4A	X	-1.935	4.66

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4A	Z	-3.351	4.66
54	MP4A	Mx	.000336	4.66
55	MP4B	X	-.796	2.66
56	MP4B	Z	-1.378	2.66
57	MP4B	Mx	.000784	2.66
58	MP4B	X	-.796	4.66
59	MP4B	Z	-1.378	4.66
60	MP4B	Mx	.000784	4.66
61	MP4C	X	-1.471	2.66
62	MP4C	Z	-2.547	2.66
63	MP4C	Mx	-.000945	2.66
64	MP4C	X	-1.471	4.66
65	MP4C	Z	-2.547	4.66
66	MP4C	Mx	-.000945	4.66
67	MP1A	X	-1.927	2.5
68	MP1A	Z	-3.337	2.5
69	MP1A	Mx	-.000335	2.5
70	MP1B	X	-1.345	2.5
71	MP1B	Z	-2.33	2.5
72	MP1B	Mx	-.001	2.5
73	MP1C	X	-1.69	2.5
74	MP1C	Z	-2.926	2.5
75	MP1C	Mx	.001	2.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M63	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M62	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-.981	1
2	MP2A	My	-.000237	1
3	MP2A	Mz	.000783	1
4	MP2A	Y	-.981	5
5	MP2A	My	-.000237	5
6	MP2A	Mz	.000783	5
7	MP2B	Y	-.981	1
8	MP2B	My	-.000783	1
9	MP2B	Mz	-.000237	1
10	MP2B	Y	-.981	5
11	MP2B	My	-.000783	5
12	MP2B	Mz	-.000237	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
13	MP2C	Y	-.981	1
14	MP2C	My	.000597	1
15	MP2C	Mz	-.000559	1
16	MP2C	Y	-.981	5
17	MP2C	My	.000597	5
18	MP2C	Mz	-.000559	5
19	MP2A	Y	-.981	1
20	MP2A	My	-.000685	1
21	MP2A	Mz	-.000447	1
22	MP2A	Y	-.981	5
23	MP2A	My	-.000685	5
24	MP2A	Mz	-.000447	5
25	MP2B	Y	-.981	1
26	MP2B	My	.000447	1
27	MP2B	Mz	-.000685	1
28	MP2B	Y	-.981	5
29	MP2B	My	.000447	5
30	MP2B	Mz	-.000685	5
31	MP2C	Y	-.981	1
32	MP2C	My	.00037	1
33	MP2C	Mz	.000729	1
34	MP2C	Y	-.981	5
35	MP2C	My	.00037	5
36	MP2C	Mz	.000729	5
37	MP2A	Y	-3.601	2.5
38	MP2A	My	.002	2.5
39	MP2A	Mz	-.000616	2.5
40	MP2B	Y	-3.601	2.5
41	MP2B	My	.000616	2.5
42	MP2B	Mz	.002	2.5
43	MP2C	Y	-3.601	2.5
44	MP2C	My	-.002	2.5
45	MP2C	Mz	-.000313	2.5
46	M76A	Y	-1.365	1.5
47	M76A	My	0	1.5
48	M76A	Mz	0	1.5
49	MP4A	Y	-1.222	2.66
50	MP4A	My	-.000574	2.66
51	MP4A	Mz	.000209	2.66
52	MP4A	Y	-1.222	4.66
53	MP4A	My	-.000574	4.66
54	MP4A	Mz	.000209	4.66
55	MP4B	Y	-1.222	2.66
56	MP4B	My	-.000209	2.66
57	MP4B	Mz	-.000574	2.66
58	MP4B	Y	-1.222	4.66
59	MP4B	My	-.000209	4.66
60	MP4B	Mz	-.000574	4.66
61	MP4C	Y	-1.222	2.66
62	MP4C	My	.000602	2.66
63	MP4C	Mz	.000106	2.66
64	MP4C	Y	-1.222	4.66
65	MP4C	My	.000602	4.66
66	MP4C	Mz	.000106	4.66
67	MP1A	Y	-3.375	2.5
68	MP1A	My	.002	2.5
69	MP1A	Mz	-.000577	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
70	MP1B	Y	-3.375	2.5
71	MP1B	My	.000577	2.5
72	MP1B	Mz	.002	2.5
73	MP1C	Y	-3.375	2.5
74	MP1C	My	-.002	2.5
75	MP1C	Mz	-.000293	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Z	-2.453	1
2	MP2A	Mx	-.002	1
3	MP2A	Z	-2.453	5
4	MP2A	Mx	-.002	5
5	MP2B	Z	-2.453	1
6	MP2B	Mx	.000593	1
7	MP2B	Z	-2.453	5
8	MP2B	Mx	.000593	5
9	MP2C	Z	-2.453	1
10	MP2C	Mx	.001	1
11	MP2C	Z	-2.453	5
12	MP2C	Mx	.001	5
13	MP2A	Z	-2.453	1
14	MP2A	Mx	.001	1
15	MP2A	Z	-2.453	5
16	MP2A	Mx	.001	5
17	MP2B	Z	-2.453	1
18	MP2B	Mx	.002	1
19	MP2B	Z	-2.453	5
20	MP2B	Mx	.002	5
21	MP2C	Z	-2.453	1
22	MP2C	Mx	-.002	1
23	MP2C	Z	-2.453	5
24	MP2C	Mx	-.002	5
25	MP2A	Z	-9.003	2.5
26	MP2A	Mx	.002	2.5
27	MP2B	Z	-9.003	2.5
28	MP2B	Mx	-.004	2.5
29	MP2C	Z	-9.003	2.5
30	MP2C	Mx	.000782	2.5
31	M76A	Z	-3.413	1.5
32	M76A	Mx	0	1.5
33	MP4A	Z	-3.056	2.66
34	MP4A	Mx	-.000523	2.66
35	MP4A	Z	-3.056	4.66
36	MP4A	Mx	-.000523	4.66
37	MP4B	Z	-3.056	2.66
38	MP4B	Mx	.001	2.66
39	MP4B	Z	-3.056	4.66
40	MP4B	Mx	.001	4.66
41	MP4C	Z	-3.056	2.66
42	MP4C	Mx	-.000265	2.66
43	MP4C	Z	-3.056	4.66
44	MP4C	Mx	-.000265	4.66
45	MP1A	Z	-8.437	2.5
46	MP1A	Mx	.001	2.5
47	MP1B	Z	-8.437	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP1B	Mx	-.004	2.5
49	MP1C	Z	-8.437	2.5
50	MP1C	Mx	.000733	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.453	1
2	MP2A	Mx	-.000593	1
3	MP2A	X	2.453	5
4	MP2A	Mx	-.000593	5
5	MP2B	X	2.453	1
6	MP2B	Mx	-.002	1
7	MP2B	X	2.453	5
8	MP2B	Mx	-.002	5
9	MP2C	X	2.453	1
10	MP2C	Mx	.001	1
11	MP2C	X	2.453	5
12	MP2C	Mx	.001	5
13	MP2A	X	2.453	1
14	MP2A	Mx	-.002	1
15	MP2A	X	2.453	5
16	MP2A	Mx	-.002	5
17	MP2B	X	2.453	1
18	MP2B	Mx	.001	1
19	MP2B	X	2.453	5
20	MP2B	Mx	.001	5
21	MP2C	X	2.453	1
22	MP2C	Mx	.000924	1
23	MP2C	X	2.453	5
24	MP2C	Mx	.000924	5
25	MP2A	X	9.003	2.5
26	MP2A	Mx	.004	2.5
27	MP2B	X	9.003	2.5
28	MP2B	Mx	.002	2.5
29	MP2C	X	9.003	2.5
30	MP2C	Mx	-.004	2.5
31	M76A	X	3.413	1.5
32	M76A	Mx	0	1.5
33	MP4A	X	3.056	2.66
34	MP4A	Mx	-.001	2.66
35	MP4A	X	3.056	4.66
36	MP4A	Mx	-.001	4.66
37	MP4B	X	3.056	2.66
38	MP4B	Mx	-.000523	2.66
39	MP4B	X	3.056	4.66
40	MP4B	Mx	-.000523	4.66
41	MP4C	X	3.056	2.66
42	MP4C	Mx	.002	2.66
43	MP4C	X	3.056	4.66
44	MP4C	Mx	.002	4.66
45	MP1A	X	8.437	2.5
46	MP1A	Mx	.004	2.5
47	MP1B	X	8.437	2.5
48	MP1B	Mx	.001	2.5
49	MP1C	X	8.437	2.5
50	MP1C	Mx	-.004	2.5

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-9.605	-9.605	0	%100
2	M2	Y	-9.605	-9.605	0	%100
3	M3	Y	-9.605	-9.605	0	%100
4	M5	Y	-8.698	-8.698	0	%100
5	M7	Y	-10.511	-10.511	0	%100
6	M50	Y	-10.511	-10.511	0	%100
7	MP1B	Y	-4.977	-4.977	0	%100
8	MP2B	Y	-5.682	-5.682	0	%100
9	MP3B	Y	-4.977	-4.977	0	%100
10	MP4B	Y	-4.977	-4.977	0	%100
11	F	Y	-10.511	-10.511	0	%100
12	MP1A	Y	-4.977	-4.977	0	%100
13	MP2A	Y	-5.682	-5.682	0	%100
14	MP3A	Y	-4.977	-4.977	0	%100
15	MP4A	Y	-4.977	-4.977	0	%100
16	M68	Y	-10.511	-10.511	0	%100
17	MP1C	Y	-4.977	-4.977	0	%100
18	MP2C	Y	-5.682	-5.682	0	%100
19	MP3C	Y	-4.977	-4.977	0	%100
20	MP4C	Y	-4.977	-4.977	0	%100
21	M76A	Y	-4.977	-4.977	0	%100
22	M77	Y	-8.698	-8.698	0	%100
23	M75	Y	-8.698	-8.698	0	%100
24	M76B	Y	-8.698	-8.698	0	%100
25	M77A	Y	-8.698	-8.698	0	%100
26	M75A	Y	-8.698	-8.698	0	%100
27	M76C	Y	-8.698	-8.698	0	%100
28	M77B	Y	-8.698	-8.698	0	%100
29	M75B	Y	-8.698	-8.698	0	%100
30	M76D	Y	-8.698	-8.698	0	%100
31	M80	Y	-8.698	-8.698	0	%100
32	M83	Y	-8.698	-8.698	0	%100
33	M88	Y	-8.698	-8.698	0	%100
34	M89	Y	-8.698	-8.698	0	%100
35	M90	Y	-8.698	-8.698	0	%100
36	M96	Y	-8.698	-8.698	0	%100
37	M97	Y	-8.698	-8.698	0	%100
38	M98	Y	-8.698	-8.698	0	%100
39	M114	Y	-10.511	-10.511	0	%100
40	M125	Y	-10.511	-10.511	0	%100
41	M83A	Y	-5.682	-5.682	0	%100
42	M88A	Y	-5.682	-5.682	0	%100
43	M93A	Y	-5.682	-5.682	0	%100
44	M98A	Y	-7.61	-7.61	0	%100
45	M105	Y	-7.61	-7.61	0	%100
46	M106	Y	-7.61	-7.61	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-10.224	-10.224	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-10.224	-10.224	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, %]
7	M5	X	0	0	0	%100
8	M5	Z	-16.645	-16.645	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-25.105	-25.105	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	-8.322	-8.322	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	-7.906	-7.906	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	-9.571	-9.571	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	-7.906	-7.906	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	-7.906	-7.906	0	%100
21	F	X	0	0	0	%100
22	F	Z	-33.289	-33.289	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	-7.906	-7.906	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-9.571	-9.571	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-7.906	-7.906	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-7.906	-7.906	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	-8.322	-8.322	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-7.906	-7.906	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-9.571	-9.571	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-7.906	-7.906	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-7.906	-7.906	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	-6.529	-6.529	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	-16.645	-16.645	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-4.167	-4.167	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	-4.099	-4.099	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	-4.161	-4.161	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	-4.156	-4.156	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	-16.645	-16.645	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	-4.161	-4.161	0	%100
57	M75B	X	0	0	0	%100
58	M75B	Z	-4.479	-4.479	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	-16.645	-16.645	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	-4.161	-4.161	0	%100
63	M83	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, %]
64	M83	Z	-4.161	-4.161	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	-4.161	-4.161	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	-16.645	-16.645	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	-4.161	-4.161	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	-4.161	-4.161	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	-4.161	-4.161	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	-16.645	-16.645	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	-6.258	-6.258	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	-6.295	-6.295	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	-2.393	-2.393	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	-9.571	-9.571	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	-2.393	-2.393	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	-11.722	-11.722	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	-2.931	-2.931	0	%100
91	M106	X	0	0	0	%100
92	M106	Z	-2.931	-2.931	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.704	1.704	0	%100
2	M1	Z	-2.951	-2.951	0	%100
3	M2	X	6.816	6.816	0	%100
4	M2	Z	-11.806	-11.806	0	%100
5	M3	X	1.704	1.704	0	%100
6	M3	Z	-2.951	-2.951	0	%100
7	M5	X	6.242	6.242	0	%100
8	M5	Z	-10.811	-10.811	0	%100
9	M7	X	9.424	9.424	0	%100
10	M7	Z	-16.322	-16.322	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	3.953	3.953	0	%100
14	MP1B	Z	-6.847	-6.847	0	%100
15	MP2B	X	4.785	4.785	0	%100
16	MP2B	Z	-8.288	-8.288	0	%100
17	MP3B	X	3.953	3.953	0	%100
18	MP3B	Z	-6.847	-6.847	0	%100
19	MP4B	X	3.953	3.953	0	%100
20	MP4B	Z	-6.847	-6.847	0	%100
21	F	X	12.483	12.483	0	%100
22	F	Z	-21.622	-21.622	0	%100
23	MP1A	X	3.953	3.953	0	%100
24	MP1A	Z	-6.847	-6.847	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, %]
25	MP2A	X	4.785	4.785	0	%100
26	MP2A	Z	-8.288	-8.288	0	%100
27	MP3A	X	3.953	3.953	0	%100
28	MP3A	Z	-6.847	-6.847	0	%100
29	MP4A	X	3.953	3.953	0	%100
30	MP4A	Z	-6.847	-6.847	0	%100
31	M68	X	12.483	12.483	0	%100
32	M68	Z	-21.622	-21.622	0	%100
33	MP1C	X	3.953	3.953	0	%100
34	MP1C	Z	-6.847	-6.847	0	%100
35	MP2C	X	4.785	4.785	0	%100
36	MP2C	Z	-8.288	-8.288	0	%100
37	MP3C	X	3.953	3.953	0	%100
38	MP3C	Z	-6.847	-6.847	0	%100
39	MP4C	X	3.953	3.953	0	%100
40	MP4C	Z	-6.847	-6.847	0	%100
41	M76A	X	3.265	3.265	0	%100
42	M76A	Z	-5.655	-5.655	0	%100
43	M77	X	6.242	6.242	0	%100
44	M77	Z	-10.811	-10.811	0	%100
45	M75	X	6.244	6.244	0	%100
46	M75	Z	-10.816	-10.816	0	%100
47	M76B	X	.000156	.000156	0	%100
48	M76B	Z	-.000271	-.000271	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	6.239	6.239	0	%100
52	M75A	Z	-10.807	-10.807	0	%100
53	M76C	X	6.239	6.239	0	%100
54	M76C	Z	-10.807	-10.807	0	%100
55	M77B	X	6.242	6.242	0	%100
56	M77B	Z	-10.811	-10.811	0	%100
57	M75B	X	.004	.004	0	%100
58	M75B	Z	-.007	-.007	0	%100
59	M76D	X	6.251	6.251	0	%100
60	M76D	Z	-10.827	-10.827	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	6.242	6.242	0	%100
64	M83	Z	-10.811	-10.811	0	%100
65	M88	X	6.242	6.242	0	%100
66	M88	Z	-10.811	-10.811	0	%100
67	M89	X	6.242	6.242	0	%100
68	M89	Z	-10.811	-10.811	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	6.242	6.242	0	%100
74	M97	Z	-10.811	-10.811	0	%100
75	M98	X	6.242	6.242	0	%100
76	M98	Z	-10.811	-10.811	0	%100
77	M114	X	9.405	9.405	0	%100
78	M114	Z	-16.29	-16.29	0	%100
79	M125	X	9e-6	9e-6	0	%100
80	M125	Z	-1.5e-5	-1.5e-5	0	%100
81	M83A	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, %]
82	M83A	Z	0	0	0	%100
83	M88A	X	3.589	3.589	0	%100
84	M88A	Z	-6.216	-6.216	0	%100
85	M93A	X	3.589	3.589	0	%100
86	M93A	Z	-6.216	-6.216	0	%100
87	M98A	X	4.396	4.396	0	%100
88	M98A	Z	-7.614	-7.614	0	%100
89	M105	X	4.396	4.396	0	%100
90	M105	Z	-7.614	-7.614	0	%100
91	M106	X	0	0	0	%100
92	M106	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	M1	X	8.854	8.854	0	%100
2	M1	Z	-5.112	-5.112	0	%100
3	M2	X	8.854	8.854	0	%100
4	M2	Z	-5.112	-5.112	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	3.604	3.604	0	%100
8	M5	Z	-2.081	-2.081	0	%100
9	M7	X	5.451	5.451	0	%100
10	M7	Z	-3.147	-3.147	0	%100
11	M50	X	7.207	7.207	0	%100
12	M50	Z	-4.161	-4.161	0	%100
13	MP1B	X	6.847	6.847	0	%100
14	MP1B	Z	-3.953	-3.953	0	%100
15	MP2B	X	8.288	8.288	0	%100
16	MP2B	Z	-4.785	-4.785	0	%100
17	MP3B	X	6.847	6.847	0	%100
18	MP3B	Z	-3.953	-3.953	0	%100
19	MP4B	X	6.847	6.847	0	%100
20	MP4B	Z	-3.953	-3.953	0	%100
21	F	X	7.207	7.207	0	%100
22	F	Z	-4.161	-4.161	0	%100
23	MP1A	X	6.847	6.847	0	%100
24	MP1A	Z	-3.953	-3.953	0	%100
25	MP2A	X	8.288	8.288	0	%100
26	MP2A	Z	-4.785	-4.785	0	%100
27	MP3A	X	6.847	6.847	0	%100
28	MP3A	Z	-3.953	-3.953	0	%100
29	MP4A	X	6.847	6.847	0	%100
30	MP4A	Z	-3.953	-3.953	0	%100
31	M68	X	28.829	28.829	0	%100
32	M68	Z	-16.645	-16.645	0	%100
33	MP1C	X	6.847	6.847	0	%100
34	MP1C	Z	-3.953	-3.953	0	%100
35	MP2C	X	8.288	8.288	0	%100
36	MP2C	Z	-4.785	-4.785	0	%100
37	MP3C	X	6.847	6.847	0	%100
38	MP3C	Z	-3.953	-3.953	0	%100
39	MP4C	X	6.847	6.847	0	%100
40	MP4C	Z	-3.953	-3.953	0	%100
41	M76A	X	5.655	5.655	0	%100
42	M76A	Z	-3.265	-3.265	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, %]
43	M77	X	3.604	3.604	0	%100
44	M77	Z	-2.081	-2.081	0	%100
45	M75	X	14.415	14.415	0	%100
46	M75	Z	-8.322	-8.322	0	%100
47	M76B	X	3.658	3.658	0	%100
48	M76B	Z	-2.112	-2.112	0	%100
49	M77A	X	3.604	3.604	0	%100
50	M77A	Z	-2.081	-2.081	0	%100
51	M75A	X	14.415	14.415	0	%100
52	M75A	Z	-8.322	-8.322	0	%100
53	M76C	X	3.599	3.599	0	%100
54	M76C	Z	-2.078	-2.078	0	%100
55	M77B	X	14.415	14.415	0	%100
56	M77B	Z	-8.322	-8.322	0	%100
57	M75B	X	3.335	3.335	0	%100
58	M75B	Z	-1.926	-1.926	0	%100
59	M76D	X	3.62	3.62	0	%100
60	M76D	Z	-2.09	-2.09	0	%100
61	M80	X	3.604	3.604	0	%100
62	M80	Z	-2.081	-2.081	0	%100
63	M83	X	14.415	14.415	0	%100
64	M83	Z	-8.322	-8.322	0	%100
65	M88	X	14.415	14.415	0	%100
66	M88	Z	-8.322	-8.322	0	%100
67	M89	X	3.604	3.604	0	%100
68	M89	Z	-2.081	-2.081	0	%100
69	M90	X	3.604	3.604	0	%100
70	M90	Z	-2.081	-2.081	0	%100
71	M96	X	3.604	3.604	0	%100
72	M96	Z	-2.081	-2.081	0	%100
73	M97	X	14.415	14.415	0	%100
74	M97	Z	-8.322	-8.322	0	%100
75	M98	X	3.604	3.604	0	%100
76	M98	Z	-2.081	-2.081	0	%100
77	M114	X	21.742	21.742	0	%100
78	M114	Z	-12.552	-12.552	0	%100
79	M125	X	5.42	5.42	0	%100
80	M125	Z	-3.129	-3.129	0	%100
81	M83A	X	2.072	2.072	0	%100
82	M83A	Z	-1.196	-1.196	0	%100
83	M88A	X	2.072	2.072	0	%100
84	M88A	Z	-1.196	-1.196	0	%100
85	M93A	X	8.288	8.288	0	%100
86	M93A	Z	-4.785	-4.785	0	%100
87	M98A	X	2.538	2.538	0	%100
88	M98A	Z	-1.465	-1.465	0	%100
89	M105	X	10.152	10.152	0	%100
90	M105	Z	-5.861	-5.861	0	%100
91	M106	X	2.538	2.538	0	%100
92	M106	Z	-1.465	-1.465	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	13.632	13.632	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.408	3.408	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, %]
4	M2	Z	0	0	0	%100
5	M3	X	3.408	3.408	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	1.8e-5	1.8e-5	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	24.967	24.967	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	7.906	7.906	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	9.571	9.571	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	7.906	7.906	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	7.906	7.906	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	7.906	7.906	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	9.571	9.571	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	7.906	7.906	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	7.906	7.906	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	24.967	24.967	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	7.906	7.906	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	9.571	9.571	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	7.906	7.906	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	7.906	7.906	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	6.529	6.529	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	12.478	12.478	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	12.546	12.546	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	12.483	12.483	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	12.488	12.488	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	2e-6	2e-6	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	12.483	12.483	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	12.166	12.166	0	%100
58	M75B	Z	0	0	0	%100
59	M76D	X	2.7e-5	2.7e-5	0	%100
60	M76D	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,%]
61	M80	X	12.483	12.483	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	12.483	12.483	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	12.483	12.483	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	12.483	12.483	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	12.483	12.483	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	12.483	12.483	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	18.847	18.847	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	18.81	18.81	0	%100
80	M125	Z	0	0	0	%100
81	M83A	X	7.178	7.178	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	0	0	0	%100
85	M93A	X	7.178	7.178	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	0	0	0	%100
89	M105	X	8.792	8.792	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	8.792	8.792	0	%100
92	M106	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	8.854	8.854	0	%100
2	M1	Z	5.112	5.112	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	8.854	8.854	0	%100
6	M3	Z	5.112	5.112	0	%100
7	M5	X	3.604	3.604	0	%100
8	M5	Z	2.081	2.081	0	%100
9	M7	X	5.42	5.42	0	%100
10	M7	Z	3.129	3.129	0	%100
11	M50	X	28.829	28.829	0	%100
12	M50	Z	16.645	16.645	0	%100
13	MP1B	X	6.847	6.847	0	%100
14	MP1B	Z	3.953	3.953	0	%100
15	MP2B	X	8.288	8.288	0	%100
16	MP2B	Z	4.785	4.785	0	%100
17	MP3B	X	6.847	6.847	0	%100
18	MP3B	Z	3.953	3.953	0	%100
19	MP4B	X	6.847	6.847	0	%100
20	MP4B	Z	3.953	3.953	0	%100
21	F	X	7.207	7.207	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, %]
22	F	Z	4.161	4.161	0	%100
23	MP1A	X	6.847	6.847	0	%100
24	MP1A	Z	3.953	3.953	0	%100
25	MP2A	X	8.288	8.288	0	%100
26	MP2A	Z	4.785	4.785	0	%100
27	MP3A	X	6.847	6.847	0	%100
28	MP3A	Z	3.953	3.953	0	%100
29	MP4A	X	6.847	6.847	0	%100
30	MP4A	Z	3.953	3.953	0	%100
31	M68	X	7.207	7.207	0	%100
32	M68	Z	4.161	4.161	0	%100
33	MP1C	X	6.847	6.847	0	%100
34	MP1C	Z	3.953	3.953	0	%100
35	MP2C	X	8.288	8.288	0	%100
36	MP2C	Z	4.785	4.785	0	%100
37	MP3C	X	6.847	6.847	0	%100
38	MP3C	Z	3.953	3.953	0	%100
39	MP4C	X	6.847	6.847	0	%100
40	MP4C	Z	3.953	3.953	0	%100
41	M76A	X	5.655	5.655	0	%100
42	M76A	Z	3.265	3.265	0	%100
43	M77	X	3.604	3.604	0	%100
44	M77	Z	2.081	2.081	0	%100
45	M75	X	3.599	3.599	0	%100
46	M75	Z	2.078	2.078	0	%100
47	M76B	X	14.414	14.414	0	%100
48	M76B	Z	8.322	8.322	0	%100
49	M77A	X	14.415	14.415	0	%100
50	M77A	Z	8.322	8.322	0	%100
51	M75A	X	3.608	3.608	0	%100
52	M75A	Z	2.083	2.083	0	%100
53	M76C	X	3.608	3.608	0	%100
54	M76C	Z	2.083	2.083	0	%100
55	M77B	X	3.604	3.604	0	%100
56	M77B	Z	2.081	2.081	0	%100
57	M75B	X	14.408	14.408	0	%100
58	M75B	Z	8.318	8.318	0	%100
59	M76D	X	3.588	3.588	0	%100
60	M76D	Z	2.071	2.071	0	%100
61	M80	X	14.415	14.415	0	%100
62	M80	Z	8.322	8.322	0	%100
63	M83	X	3.604	3.604	0	%100
64	M83	Z	2.081	2.081	0	%100
65	M88	X	3.604	3.604	0	%100
66	M88	Z	2.081	2.081	0	%100
67	M89	X	3.604	3.604	0	%100
68	M89	Z	2.081	2.081	0	%100
69	M90	X	14.415	14.415	0	%100
70	M90	Z	8.322	8.322	0	%100
71	M96	X	14.415	14.415	0	%100
72	M96	Z	8.322	8.322	0	%100
73	M97	X	3.604	3.604	0	%100
74	M97	Z	2.081	2.081	0	%100
75	M98	X	3.604	3.604	0	%100
76	M98	Z	2.081	2.081	0	%100
77	M114	X	5.451	5.451	0	%100
78	M114	Z	3.147	3.147	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, %]
79	M125	X	21.742	21.742	0	%100
80	M125	Z	12.552	12.552	0	%100
81	M83A	X	8.288	8.288	0	%100
82	M83A	Z	4.785	4.785	0	%100
83	M88A	X	2.072	2.072	0	%100
84	M88A	Z	1.196	1.196	0	%100
85	M93A	X	2.072	2.072	0	%100
86	M93A	Z	1.196	1.196	0	%100
87	M98A	X	2.538	2.538	0	%100
88	M98A	Z	1.465	1.465	0	%100
89	M105	X	2.538	2.538	0	%100
90	M105	Z	1.465	1.465	0	%100
91	M106	X	10.152	10.152	0	%100
92	M106	Z	5.861	5.861	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.704	1.704	0	%100
2	M1	Z	2.951	2.951	0	%100
3	M2	X	1.704	1.704	0	%100
4	M2	Z	2.951	2.951	0	%100
5	M3	X	6.816	6.816	0	%100
6	M3	Z	11.806	11.806	0	%100
7	M5	X	6.242	6.242	0	%100
8	M5	Z	10.811	10.811	0	%100
9	M7	X	9.405	9.405	0	%100
10	M7	Z	16.29	16.29	0	%100
11	M50	X	12.483	12.483	0	%100
12	M50	Z	21.622	21.622	0	%100
13	MP1B	X	3.953	3.953	0	%100
14	MP1B	Z	6.847	6.847	0	%100
15	MP2B	X	4.785	4.785	0	%100
16	MP2B	Z	8.288	8.288	0	%100
17	MP3B	X	3.953	3.953	0	%100
18	MP3B	Z	6.847	6.847	0	%100
19	MP4B	X	3.953	3.953	0	%100
20	MP4B	Z	6.847	6.847	0	%100
21	F	X	12.483	12.483	0	%100
22	F	Z	21.622	21.622	0	%100
23	MP1A	X	3.953	3.953	0	%100
24	MP1A	Z	6.847	6.847	0	%100
25	MP2A	X	4.785	4.785	0	%100
26	MP2A	Z	8.288	8.288	0	%100
27	MP3A	X	3.953	3.953	0	%100
28	MP3A	Z	6.847	6.847	0	%100
29	MP4A	X	3.953	3.953	0	%100
30	MP4A	Z	6.847	6.847	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	3.953	3.953	0	%100
34	MP1C	Z	6.847	6.847	0	%100
35	MP2C	X	4.785	4.785	0	%100
36	MP2C	Z	8.288	8.288	0	%100
37	MP3C	X	3.953	3.953	0	%100
38	MP3C	Z	6.847	6.847	0	%100
39	MP4C	X	3.953	3.953	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, %]
40	MP4C	Z	6.847	6.847	0	%100
41	M76A	X	3.265	3.265	0	%100
42	M76A	Z	5.655	5.655	0	%100
43	M77	X	6.242	6.242	0	%100
44	M77	Z	10.811	10.811	0	%100
45	M75	X	1e-6	1e-6	0	%100
46	M75	Z	2e-6	2e-6	0	%100
47	M76B	X	6.21	6.21	0	%100
48	M76B	Z	10.757	10.757	0	%100
49	M77A	X	6.242	6.242	0	%100
50	M77A	Z	10.811	10.811	0	%100
51	M75A	X	1e-6	1e-6	0	%100
52	M75A	Z	2e-6	2e-6	0	%100
53	M76C	X	6.244	6.244	0	%100
54	M76C	Z	10.815	10.815	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	6.397	6.397	0	%100
58	M75B	Z	11.079	11.079	0	%100
59	M76D	X	6.232	6.232	0	%100
60	M76D	Z	10.795	10.795	0	%100
61	M80	X	6.242	6.242	0	%100
62	M80	Z	10.811	10.811	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	6.242	6.242	0	%100
68	M89	Z	10.811	10.811	0	%100
69	M90	X	6.242	6.242	0	%100
70	M90	Z	10.811	10.811	0	%100
71	M96	X	6.242	6.242	0	%100
72	M96	Z	10.811	10.811	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	6.242	6.242	0	%100
76	M98	Z	10.811	10.811	0	%100
77	M114	X	9e-6	9e-6	0	%100
78	M114	Z	1.5e-5	1.5e-5	0	%100
79	M125	X	9.424	9.424	0	%100
80	M125	Z	16.322	16.322	0	%100
81	M83A	X	3.589	3.589	0	%100
82	M83A	Z	6.216	6.216	0	%100
83	M88A	X	3.589	3.589	0	%100
84	M88A	Z	6.216	6.216	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	4.396	4.396	0	%100
88	M98A	Z	7.614	7.614	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	4.396	4.396	0	%100
92	M106	Z	7.614	7.614	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, %]
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Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	10.224	10.224	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	10.224	10.224	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	16.645	16.645	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	25.105	25.105	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	8.322	8.322	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	7.906	7.906	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	9.571	9.571	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	7.906	7.906	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	7.906	7.906	0	%100
21	F	X	0	0	0	%100
22	F	Z	33.289	33.289	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	7.906	7.906	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	9.571	9.571	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	7.906	7.906	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	7.906	7.906	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	8.322	8.322	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	7.906	7.906	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	9.571	9.571	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	7.906	7.906	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	7.906	7.906	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	6.529	6.529	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	16.645	16.645	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	4.167	4.167	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	4.099	4.099	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	4.161	4.161	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	4.156	4.156	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	16.645	16.645	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	4.161	4.161	0	%100
57	M75B	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, %]
58	M75B	Z	4.479	4.479	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	16.645	16.645	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	4.161	4.161	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	4.161	4.161	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	4.161	4.161	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	16.645	16.645	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	4.161	4.161	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	4.161	4.161	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	4.161	4.161	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	16.645	16.645	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	6.258	6.258	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	6.295	6.295	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	2.393	2.393	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	9.571	9.571	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	2.393	2.393	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	11.722	11.722	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	2.931	2.931	0	%100
91	M106	X	0	0	0	%100
92	M106	Z	2.931	2.931	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.704	-1.704	0	%100
2	M1	Z	2.951	2.951	0	%100
3	M2	X	-6.816	-6.816	0	%100
4	M2	Z	11.806	11.806	0	%100
5	M3	X	-1.704	-1.704	0	%100
6	M3	Z	2.951	2.951	0	%100
7	M5	X	-6.242	-6.242	0	%100
8	M5	Z	10.811	10.811	0	%100
9	M7	X	-9.424	-9.424	0	%100
10	M7	Z	16.322	16.322	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-3.953	-3.953	0	%100
14	MP1B	Z	6.847	6.847	0	%100
15	MP2B	X	-4.785	-4.785	0	%100
16	MP2B	Z	8.288	8.288	0	%100
17	MP3B	X	-3.953	-3.953	0	%100
18	MP3B	Z	6.847	6.847	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, %]
19	MP4B	X	-3.953	-3.953	0	%100
20	MP4B	Z	6.847	6.847	0	%100
21	F	X	-12.483	-12.483	0	%100
22	F	Z	21.622	21.622	0	%100
23	MP1A	X	-3.953	-3.953	0	%100
24	MP1A	Z	6.847	6.847	0	%100
25	MP2A	X	-4.785	-4.785	0	%100
26	MP2A	Z	8.288	8.288	0	%100
27	MP3A	X	-3.953	-3.953	0	%100
28	MP3A	Z	6.847	6.847	0	%100
29	MP4A	X	-3.953	-3.953	0	%100
30	MP4A	Z	6.847	6.847	0	%100
31	M68	X	-12.483	-12.483	0	%100
32	M68	Z	21.622	21.622	0	%100
33	MP1C	X	-3.953	-3.953	0	%100
34	MP1C	Z	6.847	6.847	0	%100
35	MP2C	X	-4.785	-4.785	0	%100
36	MP2C	Z	8.288	8.288	0	%100
37	MP3C	X	-3.953	-3.953	0	%100
38	MP3C	Z	6.847	6.847	0	%100
39	MP4C	X	-3.953	-3.953	0	%100
40	MP4C	Z	6.847	6.847	0	%100
41	M76A	X	-3.265	-3.265	0	%100
42	M76A	Z	5.655	5.655	0	%100
43	M77	X	-6.242	-6.242	0	%100
44	M77	Z	10.811	10.811	0	%100
45	M75	X	-6.244	-6.244	0	%100
46	M75	Z	10.816	10.816	0	%100
47	M76B	X	-.000156	-.000156	0	%100
48	M76B	Z	.000271	.000271	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-6.239	-6.239	0	%100
52	M75A	Z	10.807	10.807	0	%100
53	M76C	X	-6.239	-6.239	0	%100
54	M76C	Z	10.807	10.807	0	%100
55	M77B	X	-6.242	-6.242	0	%100
56	M77B	Z	10.811	10.811	0	%100
57	M75B	X	-.004	-.004	0	%100
58	M75B	Z	.007	.007	0	%100
59	M76D	X	-6.251	-6.251	0	%100
60	M76D	Z	10.827	10.827	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-6.242	-6.242	0	%100
64	M83	Z	10.811	10.811	0	%100
65	M88	X	-6.242	-6.242	0	%100
66	M88	Z	10.811	10.811	0	%100
67	M89	X	-6.242	-6.242	0	%100
68	M89	Z	10.811	10.811	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-6.242	-6.242	0	%100
74	M97	Z	10.811	10.811	0	%100
75	M98	X	-6.242	-6.242	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, %]
76	M98	Z	10.811	10.811	0	%100
77	M114	X	-9.405	-9.405	0	%100
78	M114	Z	16.29	16.29	0	%100
79	M125	X	-9e-6	-9e-6	0	%100
80	M125	Z	1.5e-5	1.5e-5	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	-3.589	-3.589	0	%100
84	M88A	Z	6.216	6.216	0	%100
85	M93A	X	-3.589	-3.589	0	%100
86	M93A	Z	6.216	6.216	0	%100
87	M98A	X	-4.396	-4.396	0	%100
88	M98A	Z	7.614	7.614	0	%100
89	M105	X	-4.396	-4.396	0	%100
90	M105	Z	7.614	7.614	0	%100
91	M106	X	0	0	0	%100
92	M106	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	M1	X	-8.854	-8.854	0	%100
2	M1	Z	5.112	5.112	0	%100
3	M2	X	-8.854	-8.854	0	%100
4	M2	Z	5.112	5.112	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	-3.604	-3.604	0	%100
8	M5	Z	2.081	2.081	0	%100
9	M7	X	-5.451	-5.451	0	%100
10	M7	Z	3.147	3.147	0	%100
11	M50	X	-7.207	-7.207	0	%100
12	M50	Z	4.161	4.161	0	%100
13	MP1B	X	-6.847	-6.847	0	%100
14	MP1B	Z	3.953	3.953	0	%100
15	MP2B	X	-8.288	-8.288	0	%100
16	MP2B	Z	4.785	4.785	0	%100
17	MP3B	X	-6.847	-6.847	0	%100
18	MP3B	Z	3.953	3.953	0	%100
19	MP4B	X	-6.847	-6.847	0	%100
20	MP4B	Z	3.953	3.953	0	%100
21	F	X	-7.207	-7.207	0	%100
22	F	Z	4.161	4.161	0	%100
23	MP1A	X	-6.847	-6.847	0	%100
24	MP1A	Z	3.953	3.953	0	%100
25	MP2A	X	-8.288	-8.288	0	%100
26	MP2A	Z	4.785	4.785	0	%100
27	MP3A	X	-6.847	-6.847	0	%100
28	MP3A	Z	3.953	3.953	0	%100
29	MP4A	X	-6.847	-6.847	0	%100
30	MP4A	Z	3.953	3.953	0	%100
31	M68	X	-28.829	-28.829	0	%100
32	M68	Z	16.645	16.645	0	%100
33	MP1C	X	-6.847	-6.847	0	%100
34	MP1C	Z	3.953	3.953	0	%100
35	MP2C	X	-8.288	-8.288	0	%100
36	MP2C	Z	4.785	4.785	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, %]
37	MP3C	X	-6.847	-6.847	0	%100
38	MP3C	Z	3.953	3.953	0	%100
39	MP4C	X	-6.847	-6.847	0	%100
40	MP4C	Z	3.953	3.953	0	%100
41	M76A	X	-5.655	-5.655	0	%100
42	M76A	Z	3.265	3.265	0	%100
43	M77	X	-3.604	-3.604	0	%100
44	M77	Z	2.081	2.081	0	%100
45	M75	X	-14.415	-14.415	0	%100
46	M75	Z	8.322	8.322	0	%100
47	M76B	X	-3.658	-3.658	0	%100
48	M76B	Z	2.112	2.112	0	%100
49	M77A	X	-3.604	-3.604	0	%100
50	M77A	Z	2.081	2.081	0	%100
51	M75A	X	-14.415	-14.415	0	%100
52	M75A	Z	8.322	8.322	0	%100
53	M76C	X	-3.599	-3.599	0	%100
54	M76C	Z	2.078	2.078	0	%100
55	M77B	X	-14.415	-14.415	0	%100
56	M77B	Z	8.322	8.322	0	%100
57	M75B	X	-3.335	-3.335	0	%100
58	M75B	Z	1.926	1.926	0	%100
59	M76D	X	-3.62	-3.62	0	%100
60	M76D	Z	2.09	2.09	0	%100
61	M80	X	-3.604	-3.604	0	%100
62	M80	Z	2.081	2.081	0	%100
63	M83	X	-14.415	-14.415	0	%100
64	M83	Z	8.322	8.322	0	%100
65	M88	X	-14.415	-14.415	0	%100
66	M88	Z	8.322	8.322	0	%100
67	M89	X	-3.604	-3.604	0	%100
68	M89	Z	2.081	2.081	0	%100
69	M90	X	-3.604	-3.604	0	%100
70	M90	Z	2.081	2.081	0	%100
71	M96	X	-3.604	-3.604	0	%100
72	M96	Z	2.081	2.081	0	%100
73	M97	X	-14.415	-14.415	0	%100
74	M97	Z	8.322	8.322	0	%100
75	M98	X	-3.604	-3.604	0	%100
76	M98	Z	2.081	2.081	0	%100
77	M114	X	-21.742	-21.742	0	%100
78	M114	Z	12.552	12.552	0	%100
79	M125	X	-5.42	-5.42	0	%100
80	M125	Z	3.129	3.129	0	%100
81	M83A	X	-2.072	-2.072	0	%100
82	M83A	Z	1.196	1.196	0	%100
83	M88A	X	-2.072	-2.072	0	%100
84	M88A	Z	1.196	1.196	0	%100
85	M93A	X	-8.288	-8.288	0	%100
86	M93A	Z	4.785	4.785	0	%100
87	M98A	X	-2.538	-2.538	0	%100
88	M98A	Z	1.465	1.465	0	%100
89	M105	X	-10.152	-10.152	0	%100
90	M105	Z	5.861	5.861	0	%100
91	M106	X	-2.538	-2.538	0	%100
92	M106	Z	1.465	1.465	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-13.632	-13.632	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.408	-3.408	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-3.408	-3.408	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	-1.8e-5	-1.8e-5	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	-24.967	-24.967	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-7.906	-7.906	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	-9.571	-9.571	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	-7.906	-7.906	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	-7.906	-7.906	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	-7.906	-7.906	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	-9.571	-9.571	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-7.906	-7.906	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-7.906	-7.906	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	-24.967	-24.967	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-7.906	-7.906	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-9.571	-9.571	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-7.906	-7.906	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-7.906	-7.906	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	-6.529	-6.529	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	-12.478	-12.478	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-12.546	-12.546	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	-12.483	-12.483	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-12.488	-12.488	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	-2e-6	-2e-6	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	-12.483	-12.483	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-12.166	-12.166	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, %]
58	M75B	Z	0	0	0	%100
59	M76D	X	-2.7e-5	-2.7e-5	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	-12.483	-12.483	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-12.483	-12.483	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	-12.483	-12.483	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	-12.483	-12.483	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	-12.483	-12.483	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-12.483	-12.483	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	-18.847	-18.847	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	-18.81	-18.81	0	%100
80	M125	Z	0	0	0	%100
81	M83A	X	-7.178	-7.178	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	0	0	0	%100
85	M93A	X	-7.178	-7.178	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	0	0	0	%100
89	M105	X	-8.792	-8.792	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	-8.792	-8.792	0	%100
92	M106	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-8.854	-8.854	0	%100
2	M1	Z	-5.112	-5.112	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-8.854	-8.854	0	%100
6	M3	Z	-5.112	-5.112	0	%100
7	M5	X	-3.604	-3.604	0	%100
8	M5	Z	-2.081	-2.081	0	%100
9	M7	X	-5.42	-5.42	0	%100
10	M7	Z	-3.129	-3.129	0	%100
11	M50	X	-28.829	-28.829	0	%100
12	M50	Z	-16.645	-16.645	0	%100
13	MP1B	X	-6.847	-6.847	0	%100
14	MP1B	Z	-3.953	-3.953	0	%100
15	MP2B	X	-8.288	-8.288	0	%100
16	MP2B	Z	-4.785	-4.785	0	%100
17	MP3B	X	-6.847	-6.847	0	%100
18	MP3B	Z	-3.953	-3.953	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, %]
19	MP4B	X	-6.847	-6.847	0	%100
20	MP4B	Z	-3.953	-3.953	0	%100
21	F	X	-7.207	-7.207	0	%100
22	F	Z	-4.161	-4.161	0	%100
23	MP1A	X	-6.847	-6.847	0	%100
24	MP1A	Z	-3.953	-3.953	0	%100
25	MP2A	X	-8.288	-8.288	0	%100
26	MP2A	Z	-4.785	-4.785	0	%100
27	MP3A	X	-6.847	-6.847	0	%100
28	MP3A	Z	-3.953	-3.953	0	%100
29	MP4A	X	-6.847	-6.847	0	%100
30	MP4A	Z	-3.953	-3.953	0	%100
31	M68	X	-7.207	-7.207	0	%100
32	M68	Z	-4.161	-4.161	0	%100
33	MP1C	X	-6.847	-6.847	0	%100
34	MP1C	Z	-3.953	-3.953	0	%100
35	MP2C	X	-8.288	-8.288	0	%100
36	MP2C	Z	-4.785	-4.785	0	%100
37	MP3C	X	-6.847	-6.847	0	%100
38	MP3C	Z	-3.953	-3.953	0	%100
39	MP4C	X	-6.847	-6.847	0	%100
40	MP4C	Z	-3.953	-3.953	0	%100
41	M76A	X	-5.655	-5.655	0	%100
42	M76A	Z	-3.265	-3.265	0	%100
43	M77	X	-3.604	-3.604	0	%100
44	M77	Z	-2.081	-2.081	0	%100
45	M75	X	-3.599	-3.599	0	%100
46	M75	Z	-2.078	-2.078	0	%100
47	M76B	X	-14.414	-14.414	0	%100
48	M76B	Z	-8.322	-8.322	0	%100
49	M77A	X	-14.415	-14.415	0	%100
50	M77A	Z	-8.322	-8.322	0	%100
51	M75A	X	-3.608	-3.608	0	%100
52	M75A	Z	-2.083	-2.083	0	%100
53	M76C	X	-3.608	-3.608	0	%100
54	M76C	Z	-2.083	-2.083	0	%100
55	M77B	X	-3.604	-3.604	0	%100
56	M77B	Z	-2.081	-2.081	0	%100
57	M75B	X	-14.408	-14.408	0	%100
58	M75B	Z	-8.318	-8.318	0	%100
59	M76D	X	-3.588	-3.588	0	%100
60	M76D	Z	-2.071	-2.071	0	%100
61	M80	X	-14.415	-14.415	0	%100
62	M80	Z	-8.322	-8.322	0	%100
63	M83	X	-3.604	-3.604	0	%100
64	M83	Z	-2.081	-2.081	0	%100
65	M88	X	-3.604	-3.604	0	%100
66	M88	Z	-2.081	-2.081	0	%100
67	M89	X	-3.604	-3.604	0	%100
68	M89	Z	-2.081	-2.081	0	%100
69	M90	X	-14.415	-14.415	0	%100
70	M90	Z	-8.322	-8.322	0	%100
71	M96	X	-14.415	-14.415	0	%100
72	M96	Z	-8.322	-8.322	0	%100
73	M97	X	-3.604	-3.604	0	%100
74	M97	Z	-2.081	-2.081	0	%100
75	M98	X	-3.604	-3.604	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, %]
76	M98	Z	-2.081	-2.081	0	%100
77	M114	X	-5.451	-5.451	0	%100
78	M114	Z	-3.147	-3.147	0	%100
79	M125	X	-21.742	-21.742	0	%100
80	M125	Z	-12.552	-12.552	0	%100
81	M83A	X	-8.288	-8.288	0	%100
82	M83A	Z	-4.785	-4.785	0	%100
83	M88A	X	-2.072	-2.072	0	%100
84	M88A	Z	-1.196	-1.196	0	%100
85	M93A	X	-2.072	-2.072	0	%100
86	M93A	Z	-1.196	-1.196	0	%100
87	M98A	X	-2.538	-2.538	0	%100
88	M98A	Z	-1.465	-1.465	0	%100
89	M105	X	-2.538	-2.538	0	%100
90	M105	Z	-1.465	-1.465	0	%100
91	M106	X	-10.152	-10.152	0	%100
92	M106	Z	-5.861	-5.861	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.704	-1.704	0	%100
2	M1	Z	-2.951	-2.951	0	%100
3	M2	X	-1.704	-1.704	0	%100
4	M2	Z	-2.951	-2.951	0	%100
5	M3	X	-6.816	-6.816	0	%100
6	M3	Z	-11.806	-11.806	0	%100
7	M5	X	-6.242	-6.242	0	%100
8	M5	Z	-10.811	-10.811	0	%100
9	M7	X	-9.405	-9.405	0	%100
10	M7	Z	-16.29	-16.29	0	%100
11	M50	X	-12.483	-12.483	0	%100
12	M50	Z	-21.622	-21.622	0	%100
13	MP1B	X	-3.953	-3.953	0	%100
14	MP1B	Z	-6.847	-6.847	0	%100
15	MP2B	X	-4.785	-4.785	0	%100
16	MP2B	Z	-8.288	-8.288	0	%100
17	MP3B	X	-3.953	-3.953	0	%100
18	MP3B	Z	-6.847	-6.847	0	%100
19	MP4B	X	-3.953	-3.953	0	%100
20	MP4B	Z	-6.847	-6.847	0	%100
21	F	X	-12.483	-12.483	0	%100
22	F	Z	-21.622	-21.622	0	%100
23	MP1A	X	-3.953	-3.953	0	%100
24	MP1A	Z	-6.847	-6.847	0	%100
25	MP2A	X	-4.785	-4.785	0	%100
26	MP2A	Z	-8.288	-8.288	0	%100
27	MP3A	X	-3.953	-3.953	0	%100
28	MP3A	Z	-6.847	-6.847	0	%100
29	MP4A	X	-3.953	-3.953	0	%100
30	MP4A	Z	-6.847	-6.847	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-3.953	-3.953	0	%100
34	MP1C	Z	-6.847	-6.847	0	%100
35	MP2C	X	-4.785	-4.785	0	%100
36	MP2C	Z	-8.288	-8.288	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, %]
37	MP3C	X	-3.953	-3.953	0	%100
38	MP3C	Z	-6.847	-6.847	0	%100
39	MP4C	X	-3.953	-3.953	0	%100
40	MP4C	Z	-6.847	-6.847	0	%100
41	M76A	X	-3.265	-3.265	0	%100
42	M76A	Z	-5.655	-5.655	0	%100
43	M77	X	-6.242	-6.242	0	%100
44	M77	Z	-10.811	-10.811	0	%100
45	M75	X	-1e-6	-1e-6	0	%100
46	M75	Z	-2e-6	-2e-6	0	%100
47	M76B	X	-6.21	-6.21	0	%100
48	M76B	Z	-10.757	-10.757	0	%100
49	M77A	X	-6.242	-6.242	0	%100
50	M77A	Z	-10.811	-10.811	0	%100
51	M75A	X	-1e-6	-1e-6	0	%100
52	M75A	Z	-2e-6	-2e-6	0	%100
53	M76C	X	-6.244	-6.244	0	%100
54	M76C	Z	-10.815	-10.815	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-6.397	-6.397	0	%100
58	M75B	Z	-11.079	-11.079	0	%100
59	M76D	X	-6.232	-6.232	0	%100
60	M76D	Z	-10.795	-10.795	0	%100
61	M80	X	-6.242	-6.242	0	%100
62	M80	Z	-10.811	-10.811	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	-6.242	-6.242	0	%100
68	M89	Z	-10.811	-10.811	0	%100
69	M90	X	-6.242	-6.242	0	%100
70	M90	Z	-10.811	-10.811	0	%100
71	M96	X	-6.242	-6.242	0	%100
72	M96	Z	-10.811	-10.811	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	-6.242	-6.242	0	%100
76	M98	Z	-10.811	-10.811	0	%100
77	M114	X	-9e-6	-9e-6	0	%100
78	M114	Z	-1.5e-5	-1.5e-5	0	%100
79	M125	X	-9.424	-9.424	0	%100
80	M125	Z	-16.322	-16.322	0	%100
81	M83A	X	-3.589	-3.589	0	%100
82	M83A	Z	-6.216	-6.216	0	%100
83	M88A	X	-3.589	-3.589	0	%100
84	M88A	Z	-6.216	-6.216	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	-4.396	-4.396	0	%100
88	M98A	Z	-7.614	-7.614	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	-4.396	-4.396	0	%100
92	M106	Z	-7.614	-7.614	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-2.776	-2.776	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-2.776	-2.776	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	-3.71	-3.71	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-5.693	-5.693	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	-1.778	-1.778	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	-2.707	-2.707	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	-2.996	-2.996	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	-2.707	-2.707	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	-2.707	-2.707	0	%100
21	F	X	0	0	0	%100
22	F	Z	-7.113	-7.113	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	-2.707	-2.707	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-2.996	-2.996	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-2.707	-2.707	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-2.707	-2.707	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	-1.778	-1.778	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-2.707	-2.707	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-2.996	-2.996	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-2.707	-2.707	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-2.707	-2.707	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	-2.246	-2.246	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	-3.713	-3.713	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-.919	-.919	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	-.904	-.904	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	-.928	-.928	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	-.917	-.917	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	-3.67	-3.67	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	-.928	-.928	0	%100
57	M75B	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, %]
58	M75B	Z	-.987	-.987	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	-3.685	-3.685	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	-.919	-.919	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	-.919	-.919	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	-.928	-.928	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	-3.677	-3.677	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	-.919	-.919	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	-.928	-.928	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	-.919	-.919	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	-3.677	-3.677	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	-1.419	-1.419	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	-1.427	-1.427	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	-.749	-.749	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	-2.996	-2.996	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	-.749	-.749	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	-2.985	-2.985	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	-.746	-.746	0	%100
91	M106	X	0	0	0	%100
92	M106	Z	-.746	-.746	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.463	.463	0	%100
2	M1	Z	-.801	-.801	0	%100
3	M2	X	1.85	1.85	0	%100
4	M2	Z	-3.205	-3.205	0	%100
5	M3	X	.463	.463	0	%100
6	M3	Z	-.801	-.801	0	%100
7	M5	X	1.391	1.391	0	%100
8	M5	Z	-2.41	-2.41	0	%100
9	M7	X	2.137	2.137	0	%100
10	M7	Z	-3.701	-3.701	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	1.353	1.353	0	%100
14	MP1B	Z	-2.344	-2.344	0	%100
15	MP2B	X	1.498	1.498	0	%100
16	MP2B	Z	-2.594	-2.594	0	%100
17	MP3B	X	1.353	1.353	0	%100
18	MP3B	Z	-2.344	-2.344	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, %]
19	MP4B	X	1.353	1.353	0	%100
20	MP4B	Z	-2.344	-2.344	0	%100
21	F	X	2.668	2.668	0	%100
22	F	Z	-4.62	-4.62	0	%100
23	MP1A	X	1.353	1.353	0	%100
24	MP1A	Z	-2.344	-2.344	0	%100
25	MP2A	X	1.498	1.498	0	%100
26	MP2A	Z	-2.594	-2.594	0	%100
27	MP3A	X	1.353	1.353	0	%100
28	MP3A	Z	-2.344	-2.344	0	%100
29	MP4A	X	1.353	1.353	0	%100
30	MP4A	Z	-2.344	-2.344	0	%100
31	M68	X	2.668	2.668	0	%100
32	M68	Z	-4.62	-4.62	0	%100
33	MP1C	X	1.353	1.353	0	%100
34	MP1C	Z	-2.344	-2.344	0	%100
35	MP2C	X	1.498	1.498	0	%100
36	MP2C	Z	-2.594	-2.594	0	%100
37	MP3C	X	1.353	1.353	0	%100
38	MP3C	Z	-2.344	-2.344	0	%100
39	MP4C	X	1.353	1.353	0	%100
40	MP4C	Z	-2.344	-2.344	0	%100
41	M76A	X	1.123	1.123	0	%100
42	M76A	Z	-1.946	-1.946	0	%100
43	M77	X	1.392	1.392	0	%100
44	M77	Z	-2.412	-2.412	0	%100
45	M75	X	1.377	1.377	0	%100
46	M75	Z	-2.385	-2.385	0	%100
47	M76B	X	3.4e-5	3.4e-5	0	%100
48	M76B	Z	-6e-5	-6e-5	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	1.376	1.376	0	%100
52	M75A	Z	-2.383	-2.383	0	%100
53	M76C	X	1.376	1.376	0	%100
54	M76C	Z	-2.383	-2.383	0	%100
55	M77B	X	1.392	1.392	0	%100
56	M77B	Z	-2.412	-2.412	0	%100
57	M75B	X	.00087	.00087	0	%100
58	M75B	Z	-.002	-.002	0	%100
59	M76D	X	1.384	1.384	0	%100
60	M76D	Z	-2.397	-2.397	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	1.379	1.379	0	%100
64	M83	Z	-2.388	-2.388	0	%100
65	M88	X	1.391	1.391	0	%100
66	M88	Z	-2.41	-2.41	0	%100
67	M89	X	1.379	1.379	0	%100
68	M89	Z	-2.388	-2.388	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	1.379	1.379	0	%100
74	M97	Z	-2.388	-2.388	0	%100
75	M98	X	1.379	1.379	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, %]
76	M98	Z	-2.388	-2.388	0	%100
77	M114	X	2.133	2.133	0	%100
78	M114	Z	-3.694	-3.694	0	%100
79	M125	X	2e-6	2e-6	0	%100
80	M125	Z	-3e-6	-3e-6	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	1.123	1.123	0	%100
84	M88A	Z	-1.946	-1.946	0	%100
85	M93A	X	1.123	1.123	0	%100
86	M93A	Z	-1.946	-1.946	0	%100
87	M98A	X	1.119	1.119	0	%100
88	M98A	Z	-1.939	-1.939	0	%100
89	M105	X	1.119	1.119	0	%100
90	M105	Z	-1.939	-1.939	0	%100
91	M106	X	0	0	0	%100
92	M106	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	M1	X	2.404	2.404	0	%100
2	M1	Z	-1.388	-1.388	0	%100
3	M2	X	2.404	2.404	0	%100
4	M2	Z	-1.388	-1.388	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	.803	.803	0	%100
8	M5	Z	-.464	-.464	0	%100
9	M7	X	1.236	1.236	0	%100
10	M7	Z	-.714	-.714	0	%100
11	M50	X	1.54	1.54	0	%100
12	M50	Z	-.889	-.889	0	%100
13	MP1B	X	2.344	2.344	0	%100
14	MP1B	Z	-1.353	-1.353	0	%100
15	MP2B	X	2.594	2.594	0	%100
16	MP2B	Z	-1.498	-1.498	0	%100
17	MP3B	X	2.344	2.344	0	%100
18	MP3B	Z	-1.353	-1.353	0	%100
19	MP4B	X	2.344	2.344	0	%100
20	MP4B	Z	-1.353	-1.353	0	%100
21	F	X	1.54	1.54	0	%100
22	F	Z	-.889	-.889	0	%100
23	MP1A	X	2.344	2.344	0	%100
24	MP1A	Z	-1.353	-1.353	0	%100
25	MP2A	X	2.594	2.594	0	%100
26	MP2A	Z	-1.498	-1.498	0	%100
27	MP3A	X	2.344	2.344	0	%100
28	MP3A	Z	-1.353	-1.353	0	%100
29	MP4A	X	2.344	2.344	0	%100
30	MP4A	Z	-1.353	-1.353	0	%100
31	M68	X	6.16	6.16	0	%100
32	M68	Z	-3.557	-3.557	0	%100
33	MP1C	X	2.344	2.344	0	%100
34	MP1C	Z	-1.353	-1.353	0	%100
35	MP2C	X	2.594	2.594	0	%100
36	MP2C	Z	-1.498	-1.498	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, %]
37	MP3C	X	2.344	2.344	0	%100
38	MP3C	Z	-1.353	-1.353	0	%100
39	MP4C	X	2.344	2.344	0	%100
40	MP4C	Z	-1.353	-1.353	0	%100
41	M76A	X	1.946	1.946	0	%100
42	M76A	Z	-1.123	-1.123	0	%100
43	M77	X	.804	.804	0	%100
44	M77	Z	-.464	-.464	0	%100
45	M75	X	3.179	3.179	0	%100
46	M75	Z	-1.835	-1.835	0	%100
47	M76B	X	.807	.807	0	%100
48	M76B	Z	-.466	-.466	0	%100
49	M77A	X	.804	.804	0	%100
50	M77A	Z	-.464	-.464	0	%100
51	M75A	X	3.179	3.179	0	%100
52	M75A	Z	-1.835	-1.835	0	%100
53	M76C	X	.794	.794	0	%100
54	M76C	Z	-.458	-.458	0	%100
55	M77B	X	3.216	3.216	0	%100
56	M77B	Z	-1.857	-1.857	0	%100
57	M75B	X	.735	.735	0	%100
58	M75B	Z	-.424	-.424	0	%100
59	M76D	X	.801	.801	0	%100
60	M76D	Z	-.463	-.463	0	%100
61	M80	X	.796	.796	0	%100
62	M80	Z	-.46	-.46	0	%100
63	M83	X	3.184	3.184	0	%100
64	M83	Z	-1.839	-1.839	0	%100
65	M88	X	3.213	3.213	0	%100
66	M88	Z	-1.855	-1.855	0	%100
67	M89	X	.796	.796	0	%100
68	M89	Z	-.46	-.46	0	%100
69	M90	X	.796	.796	0	%100
70	M90	Z	-.46	-.46	0	%100
71	M96	X	.803	.803	0	%100
72	M96	Z	-.464	-.464	0	%100
73	M97	X	3.184	3.184	0	%100
74	M97	Z	-1.839	-1.839	0	%100
75	M98	X	.796	.796	0	%100
76	M98	Z	-.46	-.46	0	%100
77	M114	X	4.93	4.93	0	%100
78	M114	Z	-2.846	-2.846	0	%100
79	M125	X	1.229	1.229	0	%100
80	M125	Z	-.71	-.71	0	%100
81	M83A	X	.649	.649	0	%100
82	M83A	Z	-.374	-.374	0	%100
83	M88A	X	.649	.649	0	%100
84	M88A	Z	-.374	-.374	0	%100
85	M93A	X	2.594	2.594	0	%100
86	M93A	Z	-1.498	-1.498	0	%100
87	M98A	X	.646	.646	0	%100
88	M98A	Z	-.373	-.373	0	%100
89	M105	X	2.585	2.585	0	%100
90	M105	Z	-1.492	-1.492	0	%100
91	M106	X	.646	.646	0	%100
92	M106	Z	-.373	-.373	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.701	3.701	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.925	.925	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.925	.925	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	4e-6	4e-6	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	5.335	5.335	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	2.707	2.707	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	2.996	2.996	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	2.707	2.707	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	2.707	2.707	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	2.707	2.707	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	2.996	2.996	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	2.707	2.707	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	2.707	2.707	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	5.335	5.335	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	2.707	2.707	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	2.996	2.996	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	2.707	2.707	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	2.707	2.707	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	2.246	2.246	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	2.752	2.752	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	2.767	2.767	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	2.785	2.785	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	2.754	2.754	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	2.785	2.785	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	2.681	2.681	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, %]
58	M75B	Z	0	0	0	%100
59	M76D	X	6e-6	6e-6	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	2.758	2.758	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	2.758	2.758	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	2.783	2.783	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	2.758	2.758	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	2.783	2.783	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	2.758	2.758	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	4.274	4.274	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	4.265	4.265	0	%100
80	M125	Z	0	0	0	%100
81	M83A	X	2.247	2.247	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	0	0	0	%100
85	M93A	X	2.247	2.247	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	0	0	0	%100
89	M105	X	2.238	2.238	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	2.238	2.238	0	%100
92	M106	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.404	2.404	0	%100
2	M1	Z	1.388	1.388	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	2.404	2.404	0	%100
6	M3	Z	1.388	1.388	0	%100
7	M5	X	.803	.803	0	%100
8	M5	Z	.464	.464	0	%100
9	M7	X	1.229	1.229	0	%100
10	M7	Z	.71	.71	0	%100
11	M50	X	6.16	6.16	0	%100
12	M50	Z	3.557	3.557	0	%100
13	MP1B	X	2.344	2.344	0	%100
14	MP1B	Z	1.353	1.353	0	%100
15	MP2B	X	2.594	2.594	0	%100
16	MP2B	Z	1.498	1.498	0	%100
17	MP3B	X	2.344	2.344	0	%100
18	MP3B	Z	1.353	1.353	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, %]
19	MP4B	X	2.344	2.344	0	%100
20	MP4B	Z	1.353	1.353	0	%100
21	F	X	1.54	1.54	0	%100
22	F	Z	.889	.889	0	%100
23	MP1A	X	2.344	2.344	0	%100
24	MP1A	Z	1.353	1.353	0	%100
25	MP2A	X	2.594	2.594	0	%100
26	MP2A	Z	1.498	1.498	0	%100
27	MP3A	X	2.344	2.344	0	%100
28	MP3A	Z	1.353	1.353	0	%100
29	MP4A	X	2.344	2.344	0	%100
30	MP4A	Z	1.353	1.353	0	%100
31	M68	X	1.54	1.54	0	%100
32	M68	Z	.889	.889	0	%100
33	MP1C	X	2.344	2.344	0	%100
34	MP1C	Z	1.353	1.353	0	%100
35	MP2C	X	2.594	2.594	0	%100
36	MP2C	Z	1.498	1.498	0	%100
37	MP3C	X	2.344	2.344	0	%100
38	MP3C	Z	1.353	1.353	0	%100
39	MP4C	X	2.344	2.344	0	%100
40	MP4C	Z	1.353	1.353	0	%100
41	M76A	X	1.946	1.946	0	%100
42	M76A	Z	1.123	1.123	0	%100
43	M77	X	.804	.804	0	%100
44	M77	Z	.464	.464	0	%100
45	M75	X	.794	.794	0	%100
46	M75	Z	.458	.458	0	%100
47	M76B	X	3.179	3.179	0	%100
48	M76B	Z	1.835	1.835	0	%100
49	M77A	X	3.216	3.216	0	%100
50	M77A	Z	1.857	1.857	0	%100
51	M75A	X	.796	.796	0	%100
52	M75A	Z	.459	.459	0	%100
53	M76C	X	.796	.796	0	%100
54	M76C	Z	.459	.459	0	%100
55	M77B	X	.804	.804	0	%100
56	M77B	Z	.464	.464	0	%100
57	M75B	X	3.175	3.175	0	%100
58	M75B	Z	1.833	1.833	0	%100
59	M76D	X	.794	.794	0	%100
60	M76D	Z	.459	.459	0	%100
61	M80	X	3.184	3.184	0	%100
62	M80	Z	1.839	1.839	0	%100
63	M83	X	.796	.796	0	%100
64	M83	Z	.46	.46	0	%100
65	M88	X	.803	.803	0	%100
66	M88	Z	.464	.464	0	%100
67	M89	X	.796	.796	0	%100
68	M89	Z	.46	.46	0	%100
69	M90	X	3.184	3.184	0	%100
70	M90	Z	1.839	1.839	0	%100
71	M96	X	3.213	3.213	0	%100
72	M96	Z	1.855	1.855	0	%100
73	M97	X	.796	.796	0	%100
74	M97	Z	.46	.46	0	%100
75	M98	X	.796	.796	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, %]
76	M98	Z	.46	.46	0	%100
77	M114	X	1.236	1.236	0	%100
78	M114	Z	.714	.714	0	%100
79	M125	X	4.93	4.93	0	%100
80	M125	Z	2.846	2.846	0	%100
81	M83A	X	2.594	2.594	0	%100
82	M83A	Z	1.498	1.498	0	%100
83	M88A	X	.649	.649	0	%100
84	M88A	Z	.374	.374	0	%100
85	M93A	X	.649	.649	0	%100
86	M93A	Z	.374	.374	0	%100
87	M98A	X	.646	.646	0	%100
88	M98A	Z	.373	.373	0	%100
89	M105	X	.646	.646	0	%100
90	M105	Z	.373	.373	0	%100
91	M106	X	2.585	2.585	0	%100
92	M106	Z	1.492	1.492	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.463	.463	0	%100
2	M1	Z	.801	.801	0	%100
3	M2	X	.463	.463	0	%100
4	M2	Z	.801	.801	0	%100
5	M3	X	1.85	1.85	0	%100
6	M3	Z	3.205	3.205	0	%100
7	M5	X	1.391	1.391	0	%100
8	M5	Z	2.41	2.41	0	%100
9	M7	X	2.133	2.133	0	%100
10	M7	Z	3.694	3.694	0	%100
11	M50	X	2.668	2.668	0	%100
12	M50	Z	4.62	4.62	0	%100
13	MP1B	X	1.353	1.353	0	%100
14	MP1B	Z	2.344	2.344	0	%100
15	MP2B	X	1.498	1.498	0	%100
16	MP2B	Z	2.594	2.594	0	%100
17	MP3B	X	1.353	1.353	0	%100
18	MP3B	Z	2.344	2.344	0	%100
19	MP4B	X	1.353	1.353	0	%100
20	MP4B	Z	2.344	2.344	0	%100
21	F	X	2.668	2.668	0	%100
22	F	Z	4.62	4.62	0	%100
23	MP1A	X	1.353	1.353	0	%100
24	MP1A	Z	2.344	2.344	0	%100
25	MP2A	X	1.498	1.498	0	%100
26	MP2A	Z	2.594	2.594	0	%100
27	MP3A	X	1.353	1.353	0	%100
28	MP3A	Z	2.344	2.344	0	%100
29	MP4A	X	1.353	1.353	0	%100
30	MP4A	Z	2.344	2.344	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	1.353	1.353	0	%100
34	MP1C	Z	2.344	2.344	0	%100
35	MP2C	X	1.498	1.498	0	%100
36	MP2C	Z	2.594	2.594	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, %]
37	MP3C	X	1.353	1.353	0	%100
38	MP3C	Z	2.344	2.344	0	%100
39	MP4C	X	1.353	1.353	0	%100
40	MP4C	Z	2.344	2.344	0	%100
41	M76A	X	1.123	1.123	0	%100
42	M76A	Z	1.946	1.946	0	%100
43	M77	X	1.392	1.392	0	%100
44	M77	Z	2.412	2.412	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	1.369	1.369	0	%100
48	M76B	Z	2.372	2.372	0	%100
49	M77A	X	1.392	1.392	0	%100
50	M77A	Z	2.412	2.412	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	1.377	1.377	0	%100
54	M76C	Z	2.385	2.385	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	1.41	1.41	0	%100
58	M75B	Z	2.442	2.442	0	%100
59	M76D	X	1.38	1.38	0	%100
60	M76D	Z	2.39	2.39	0	%100
61	M80	X	1.379	1.379	0	%100
62	M80	Z	2.388	2.388	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	1.379	1.379	0	%100
68	M89	Z	2.388	2.388	0	%100
69	M90	X	1.379	1.379	0	%100
70	M90	Z	2.388	2.388	0	%100
71	M96	X	1.391	1.391	0	%100
72	M96	Z	2.41	2.41	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	1.379	1.379	0	%100
76	M98	Z	2.388	2.388	0	%100
77	M114	X	2e-6	2e-6	0	%100
78	M114	Z	3e-6	3e-6	0	%100
79	M125	X	2.137	2.137	0	%100
80	M125	Z	3.701	3.701	0	%100
81	M83A	X	1.123	1.123	0	%100
82	M83A	Z	1.946	1.946	0	%100
83	M88A	X	1.123	1.123	0	%100
84	M88A	Z	1.946	1.946	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	1.119	1.119	0	%100
88	M98A	Z	1.939	1.939	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	1.119	1.119	0	%100
92	M106	Z	1.939	1.939	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	2.776	2.776	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	2.776	2.776	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	3.71	3.71	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	5.693	5.693	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	1.778	1.778	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	2.707	2.707	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	2.996	2.996	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	2.707	2.707	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	2.707	2.707	0	%100
21	F	X	0	0	0	%100
22	F	Z	7.113	7.113	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	2.707	2.707	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	2.996	2.996	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	2.707	2.707	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	2.707	2.707	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	1.778	1.778	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	2.707	2.707	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	2.996	2.996	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	2.707	2.707	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	2.707	2.707	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	2.246	2.246	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	3.713	3.713	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	.919	.919	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	.904	.904	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	.928	.928	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	.917	.917	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	3.67	3.67	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	.928	.928	0	%100
57	M75B	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	M75B	Z	.987	.987	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	3.685	3.685	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	.919	.919	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	.919	.919	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	.928	.928	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	3.677	3.677	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	.919	.919	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	.928	.928	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	.919	.919	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	3.677	3.677	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	1.419	1.419	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	1.427	1.427	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	.749	.749	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	2.996	2.996	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	.749	.749	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	2.985	2.985	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	.746	.746	0	%100
91	M106	X	0	0	0	%100
92	M106	Z	.746	.746	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.463	-.463	0	%100
2	M1	Z	.801	.801	0	%100
3	M2	X	-1.85	-1.85	0	%100
4	M2	Z	3.205	3.205	0	%100
5	M3	X	-.463	-.463	0	%100
6	M3	Z	.801	.801	0	%100
7	M5	X	-1.391	-1.391	0	%100
8	M5	Z	2.41	2.41	0	%100
9	M7	X	-2.137	-2.137	0	%100
10	M7	Z	3.701	3.701	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-1.353	-1.353	0	%100
14	MP1B	Z	2.344	2.344	0	%100
15	MP2B	X	-1.498	-1.498	0	%100
16	MP2B	Z	2.594	2.594	0	%100
17	MP3B	X	-1.353	-1.353	0	%100
18	MP3B	Z	2.344	2.344	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, %]
19	MP4B	X	-1.353	-1.353	0	%100
20	MP4B	Z	2.344	2.344	0	%100
21	F	X	-2.668	-2.668	0	%100
22	F	Z	4.62	4.62	0	%100
23	MP1A	X	-1.353	-1.353	0	%100
24	MP1A	Z	2.344	2.344	0	%100
25	MP2A	X	-1.498	-1.498	0	%100
26	MP2A	Z	2.594	2.594	0	%100
27	MP3A	X	-1.353	-1.353	0	%100
28	MP3A	Z	2.344	2.344	0	%100
29	MP4A	X	-1.353	-1.353	0	%100
30	MP4A	Z	2.344	2.344	0	%100
31	M68	X	-2.668	-2.668	0	%100
32	M68	Z	4.62	4.62	0	%100
33	MP1C	X	-1.353	-1.353	0	%100
34	MP1C	Z	2.344	2.344	0	%100
35	MP2C	X	-1.498	-1.498	0	%100
36	MP2C	Z	2.594	2.594	0	%100
37	MP3C	X	-1.353	-1.353	0	%100
38	MP3C	Z	2.344	2.344	0	%100
39	MP4C	X	-1.353	-1.353	0	%100
40	MP4C	Z	2.344	2.344	0	%100
41	M76A	X	-1.123	-1.123	0	%100
42	M76A	Z	1.946	1.946	0	%100
43	M77	X	-1.392	-1.392	0	%100
44	M77	Z	2.412	2.412	0	%100
45	M75	X	-1.377	-1.377	0	%100
46	M75	Z	2.385	2.385	0	%100
47	M76B	X	-3.4e-5	-3.4e-5	0	%100
48	M76B	Z	6e-5	6e-5	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-1.376	-1.376	0	%100
52	M75A	Z	2.383	2.383	0	%100
53	M76C	X	-1.376	-1.376	0	%100
54	M76C	Z	2.383	2.383	0	%100
55	M77B	X	-1.392	-1.392	0	%100
56	M77B	Z	2.412	2.412	0	%100
57	M75B	X	-.00087	-.00087	0	%100
58	M75B	Z	.002	.002	0	%100
59	M76D	X	-1.384	-1.384	0	%100
60	M76D	Z	2.397	2.397	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-1.379	-1.379	0	%100
64	M83	Z	2.388	2.388	0	%100
65	M88	X	-1.391	-1.391	0	%100
66	M88	Z	2.41	2.41	0	%100
67	M89	X	-1.379	-1.379	0	%100
68	M89	Z	2.388	2.388	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-1.379	-1.379	0	%100
74	M97	Z	2.388	2.388	0	%100
75	M98	X	-1.379	-1.379	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, %]
76	M98	Z	2.388	2.388	0	%100
77	M114	X	-2.133	-2.133	0	%100
78	M114	Z	3.694	3.694	0	%100
79	M125	X	-2e-6	-2e-6	0	%100
80	M125	Z	3e-6	3e-6	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	-1.123	-1.123	0	%100
84	M88A	Z	1.946	1.946	0	%100
85	M93A	X	-1.123	-1.123	0	%100
86	M93A	Z	1.946	1.946	0	%100
87	M98A	X	-1.119	-1.119	0	%100
88	M98A	Z	1.939	1.939	0	%100
89	M105	X	-1.119	-1.119	0	%100
90	M105	Z	1.939	1.939	0	%100
91	M106	X	0	0	0	%100
92	M106	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	M1	X	-2.404	-2.404	0	%100
2	M1	Z	1.388	1.388	0	%100
3	M2	X	-2.404	-2.404	0	%100
4	M2	Z	1.388	1.388	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	-.803	-.803	0	%100
8	M5	Z	.464	.464	0	%100
9	M7	X	-1.236	-1.236	0	%100
10	M7	Z	.714	.714	0	%100
11	M50	X	-1.54	-1.54	0	%100
12	M50	Z	.889	.889	0	%100
13	MP1B	X	-2.344	-2.344	0	%100
14	MP1B	Z	1.353	1.353	0	%100
15	MP2B	X	-2.594	-2.594	0	%100
16	MP2B	Z	1.498	1.498	0	%100
17	MP3B	X	-2.344	-2.344	0	%100
18	MP3B	Z	1.353	1.353	0	%100
19	MP4B	X	-2.344	-2.344	0	%100
20	MP4B	Z	1.353	1.353	0	%100
21	F	X	-1.54	-1.54	0	%100
22	F	Z	.889	.889	0	%100
23	MP1A	X	-2.344	-2.344	0	%100
24	MP1A	Z	1.353	1.353	0	%100
25	MP2A	X	-2.594	-2.594	0	%100
26	MP2A	Z	1.498	1.498	0	%100
27	MP3A	X	-2.344	-2.344	0	%100
28	MP3A	Z	1.353	1.353	0	%100
29	MP4A	X	-2.344	-2.344	0	%100
30	MP4A	Z	1.353	1.353	0	%100
31	M68	X	-6.16	-6.16	0	%100
32	M68	Z	3.557	3.557	0	%100
33	MP1C	X	-2.344	-2.344	0	%100
34	MP1C	Z	1.353	1.353	0	%100
35	MP2C	X	-2.594	-2.594	0	%100
36	MP2C	Z	1.498	1.498	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, %]
37	MP3C	X	-2.344	-2.344	0	%100
38	MP3C	Z	1.353	1.353	0	%100
39	MP4C	X	-2.344	-2.344	0	%100
40	MP4C	Z	1.353	1.353	0	%100
41	M76A	X	-1.946	-1.946	0	%100
42	M76A	Z	1.123	1.123	0	%100
43	M77	X	-.804	-.804	0	%100
44	M77	Z	.464	.464	0	%100
45	M75	X	-3.179	-3.179	0	%100
46	M75	Z	1.835	1.835	0	%100
47	M76B	X	-.807	-.807	0	%100
48	M76B	Z	.466	.466	0	%100
49	M77A	X	-.804	-.804	0	%100
50	M77A	Z	.464	.464	0	%100
51	M75A	X	-3.179	-3.179	0	%100
52	M75A	Z	1.835	1.835	0	%100
53	M76C	X	-.794	-.794	0	%100
54	M76C	Z	.458	.458	0	%100
55	M77B	X	-3.216	-3.216	0	%100
56	M77B	Z	1.857	1.857	0	%100
57	M75B	X	-.735	-.735	0	%100
58	M75B	Z	.424	.424	0	%100
59	M76D	X	-.801	-.801	0	%100
60	M76D	Z	.463	.463	0	%100
61	M80	X	-.796	-.796	0	%100
62	M80	Z	.46	.46	0	%100
63	M83	X	-3.184	-3.184	0	%100
64	M83	Z	1.839	1.839	0	%100
65	M88	X	-3.213	-3.213	0	%100
66	M88	Z	1.855	1.855	0	%100
67	M89	X	-.796	-.796	0	%100
68	M89	Z	.46	.46	0	%100
69	M90	X	-.796	-.796	0	%100
70	M90	Z	.46	.46	0	%100
71	M96	X	-.803	-.803	0	%100
72	M96	Z	.464	.464	0	%100
73	M97	X	-3.184	-3.184	0	%100
74	M97	Z	1.839	1.839	0	%100
75	M98	X	-.796	-.796	0	%100
76	M98	Z	.46	.46	0	%100
77	M114	X	-4.93	-4.93	0	%100
78	M114	Z	2.846	2.846	0	%100
79	M125	X	-1.229	-1.229	0	%100
80	M125	Z	.71	.71	0	%100
81	M83A	X	-.649	-.649	0	%100
82	M83A	Z	.374	.374	0	%100
83	M88A	X	-.649	-.649	0	%100
84	M88A	Z	.374	.374	0	%100
85	M93A	X	-2.594	-2.594	0	%100
86	M93A	Z	1.498	1.498	0	%100
87	M98A	X	-.646	-.646	0	%100
88	M98A	Z	.373	.373	0	%100
89	M105	X	-2.585	-2.585	0	%100
90	M105	Z	1.492	1.492	0	%100
91	M106	X	-.646	-.646	0	%100
92	M106	Z	.373	.373	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-3.701	-3.701	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.925	-.925	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.925	-.925	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	-4e-6	-4e-6	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	-5.335	-5.335	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-2.707	-2.707	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	-2.996	-2.996	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	-2.707	-2.707	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	-2.707	-2.707	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	-2.707	-2.707	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	-2.996	-2.996	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-2.707	-2.707	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-2.707	-2.707	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	-5.335	-5.335	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-2.707	-2.707	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-2.996	-2.996	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-2.707	-2.707	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-2.707	-2.707	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	-2.246	-2.246	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	-2.752	-2.752	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-2.767	-2.767	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	-2.785	-2.785	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-2.754	-2.754	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	-2.785	-2.785	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-2.681	-2.681	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, %]
58	M75B	Z	0	0	0	%100
59	M76D	X	-6e-6	-6e-6	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	-2.758	-2.758	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-2.758	-2.758	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	-2.783	-2.783	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	-2.758	-2.758	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	-2.783	-2.783	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-2.758	-2.758	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	-4.274	-4.274	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	-4.265	-4.265	0	%100
80	M125	Z	0	0	0	%100
81	M83A	X	-2.247	-2.247	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	0	0	0	%100
85	M93A	X	-2.247	-2.247	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	0	0	0	%100
89	M105	X	-2.238	-2.238	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	-2.238	-2.238	0	%100
92	M106	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.404	-2.404	0	%100
2	M1	Z	-1.388	-1.388	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-2.404	-2.404	0	%100
6	M3	Z	-1.388	-1.388	0	%100
7	M5	X	-.803	-.803	0	%100
8	M5	Z	-.464	-.464	0	%100
9	M7	X	-1.229	-1.229	0	%100
10	M7	Z	-.71	-.71	0	%100
11	M50	X	-6.16	-6.16	0	%100
12	M50	Z	-3.557	-3.557	0	%100
13	MP1B	X	-2.344	-2.344	0	%100
14	MP1B	Z	-1.353	-1.353	0	%100
15	MP2B	X	-2.594	-2.594	0	%100
16	MP2B	Z	-1.498	-1.498	0	%100
17	MP3B	X	-2.344	-2.344	0	%100
18	MP3B	Z	-1.353	-1.353	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, %]
19	MP4B	X	-2.344	-2.344	0	%100
20	MP4B	Z	-1.353	-1.353	0	%100
21	F	X	-1.54	-1.54	0	%100
22	F	Z	-.889	-.889	0	%100
23	MP1A	X	-2.344	-2.344	0	%100
24	MP1A	Z	-1.353	-1.353	0	%100
25	MP2A	X	-2.594	-2.594	0	%100
26	MP2A	Z	-1.498	-1.498	0	%100
27	MP3A	X	-2.344	-2.344	0	%100
28	MP3A	Z	-1.353	-1.353	0	%100
29	MP4A	X	-2.344	-2.344	0	%100
30	MP4A	Z	-1.353	-1.353	0	%100
31	M68	X	-1.54	-1.54	0	%100
32	M68	Z	-.889	-.889	0	%100
33	MP1C	X	-2.344	-2.344	0	%100
34	MP1C	Z	-1.353	-1.353	0	%100
35	MP2C	X	-2.594	-2.594	0	%100
36	MP2C	Z	-1.498	-1.498	0	%100
37	MP3C	X	-2.344	-2.344	0	%100
38	MP3C	Z	-1.353	-1.353	0	%100
39	MP4C	X	-2.344	-2.344	0	%100
40	MP4C	Z	-1.353	-1.353	0	%100
41	M76A	X	-1.946	-1.946	0	%100
42	M76A	Z	-1.123	-1.123	0	%100
43	M77	X	-.804	-.804	0	%100
44	M77	Z	-.464	-.464	0	%100
45	M75	X	-.794	-.794	0	%100
46	M75	Z	-.458	-.458	0	%100
47	M76B	X	-3.179	-3.179	0	%100
48	M76B	Z	-1.835	-1.835	0	%100
49	M77A	X	-3.216	-3.216	0	%100
50	M77A	Z	-1.857	-1.857	0	%100
51	M75A	X	-.796	-.796	0	%100
52	M75A	Z	-.459	-.459	0	%100
53	M76C	X	-.796	-.796	0	%100
54	M76C	Z	-.459	-.459	0	%100
55	M77B	X	-.804	-.804	0	%100
56	M77B	Z	-.464	-.464	0	%100
57	M75B	X	-3.175	-3.175	0	%100
58	M75B	Z	-1.833	-1.833	0	%100
59	M76D	X	-.794	-.794	0	%100
60	M76D	Z	-.459	-.459	0	%100
61	M80	X	-3.184	-3.184	0	%100
62	M80	Z	-1.839	-1.839	0	%100
63	M83	X	-.796	-.796	0	%100
64	M83	Z	-.46	-.46	0	%100
65	M88	X	-.803	-.803	0	%100
66	M88	Z	-.464	-.464	0	%100
67	M89	X	-.796	-.796	0	%100
68	M89	Z	-.46	-.46	0	%100
69	M90	X	-3.184	-3.184	0	%100
70	M90	Z	-1.839	-1.839	0	%100
71	M96	X	-3.213	-3.213	0	%100
72	M96	Z	-1.855	-1.855	0	%100
73	M97	X	-.796	-.796	0	%100
74	M97	Z	-.46	-.46	0	%100
75	M98	X	-.796	-.796	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, %]
76	M98	Z	-46	-46	0	%100
77	M114	X	-1.236	-1.236	0	%100
78	M114	Z	-714	-714	0	%100
79	M125	X	-4.93	-4.93	0	%100
80	M125	Z	-2.846	-2.846	0	%100
81	M83A	X	-2.594	-2.594	0	%100
82	M83A	Z	-1.498	-1.498	0	%100
83	M88A	X	-649	-649	0	%100
84	M88A	Z	-374	-374	0	%100
85	M93A	X	-649	-649	0	%100
86	M93A	Z	-374	-374	0	%100
87	M98A	X	-646	-646	0	%100
88	M98A	Z	-373	-373	0	%100
89	M105	X	-646	-646	0	%100
90	M105	Z	-373	-373	0	%100
91	M106	X	-2.585	-2.585	0	%100
92	M106	Z	-1.492	-1.492	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-463	-463	0	%100
2	M1	Z	-801	-801	0	%100
3	M2	X	-463	-463	0	%100
4	M2	Z	-801	-801	0	%100
5	M3	X	-1.85	-1.85	0	%100
6	M3	Z	-3.205	-3.205	0	%100
7	M5	X	-1.391	-1.391	0	%100
8	M5	Z	-2.41	-2.41	0	%100
9	M7	X	-2.133	-2.133	0	%100
10	M7	Z	-3.694	-3.694	0	%100
11	M50	X	-2.668	-2.668	0	%100
12	M50	Z	-4.62	-4.62	0	%100
13	MP1B	X	-1.353	-1.353	0	%100
14	MP1B	Z	-2.344	-2.344	0	%100
15	MP2B	X	-1.498	-1.498	0	%100
16	MP2B	Z	-2.594	-2.594	0	%100
17	MP3B	X	-1.353	-1.353	0	%100
18	MP3B	Z	-2.344	-2.344	0	%100
19	MP4B	X	-1.353	-1.353	0	%100
20	MP4B	Z	-2.344	-2.344	0	%100
21	F	X	-2.668	-2.668	0	%100
22	F	Z	-4.62	-4.62	0	%100
23	MP1A	X	-1.353	-1.353	0	%100
24	MP1A	Z	-2.344	-2.344	0	%100
25	MP2A	X	-1.498	-1.498	0	%100
26	MP2A	Z	-2.594	-2.594	0	%100
27	MP3A	X	-1.353	-1.353	0	%100
28	MP3A	Z	-2.344	-2.344	0	%100
29	MP4A	X	-1.353	-1.353	0	%100
30	MP4A	Z	-2.344	-2.344	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-1.353	-1.353	0	%100
34	MP1C	Z	-2.344	-2.344	0	%100
35	MP2C	X	-1.498	-1.498	0	%100
36	MP2C	Z	-2.594	-2.594	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, %]
37	MP3C	X	-1.353	-1.353	0	%100
38	MP3C	Z	-2.344	-2.344	0	%100
39	MP4C	X	-1.353	-1.353	0	%100
40	MP4C	Z	-2.344	-2.344	0	%100
41	M76A	X	-1.123	-1.123	0	%100
42	M76A	Z	-1.946	-1.946	0	%100
43	M77	X	-1.392	-1.392	0	%100
44	M77	Z	-2.412	-2.412	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-1.369	-1.369	0	%100
48	M76B	Z	-2.372	-2.372	0	%100
49	M77A	X	-1.392	-1.392	0	%100
50	M77A	Z	-2.412	-2.412	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	-1.377	-1.377	0	%100
54	M76C	Z	-2.385	-2.385	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-1.41	-1.41	0	%100
58	M75B	Z	-2.442	-2.442	0	%100
59	M76D	X	-1.38	-1.38	0	%100
60	M76D	Z	-2.39	-2.39	0	%100
61	M80	X	-1.379	-1.379	0	%100
62	M80	Z	-2.388	-2.388	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	-1.379	-1.379	0	%100
68	M89	Z	-2.388	-2.388	0	%100
69	M90	X	-1.379	-1.379	0	%100
70	M90	Z	-2.388	-2.388	0	%100
71	M96	X	-1.391	-1.391	0	%100
72	M96	Z	-2.41	-2.41	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	-1.379	-1.379	0	%100
76	M98	Z	-2.388	-2.388	0	%100
77	M114	X	-2e-6	-2e-6	0	%100
78	M114	Z	-3e-6	-3e-6	0	%100
79	M125	X	-2.137	-2.137	0	%100
80	M125	Z	-3.701	-3.701	0	%100
81	M83A	X	-1.123	-1.123	0	%100
82	M83A	Z	-1.946	-1.946	0	%100
83	M88A	X	-1.123	-1.123	0	%100
84	M88A	Z	-1.946	-1.946	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	-1.119	-1.119	0	%100
88	M98A	Z	-1.939	-1.939	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	-1.119	-1.119	0	%100
92	M106	Z	-1.939	-1.939	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.639	-.639	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.639	-.639	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	-1.04	-1.04	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-1.569	-1.569	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	-.52	-.52	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	-.494	-.494	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	-.598	-.598	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	-.494	-.494	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	-.494	-.494	0	%100
21	F	X	0	0	0	%100
22	F	Z	-2.081	-2.081	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	-.494	-.494	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	-.598	-.598	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	-.494	-.494	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	-.494	-.494	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	-.52	-.52	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-.494	-.494	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	-.598	-.598	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-.494	-.494	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-.494	-.494	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	-.408	-.408	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	-1.04	-1.04	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-.26	-.26	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	-.256	-.256	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	-.26	-.26	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	-.26	-.26	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	-1.04	-1.04	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	-.26	-.26	0	%100
57	M75B	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, %]
58	M75B	Z	-28	-28	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	-1.04	-1.04	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	-26	-26	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	-26	-26	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	-26	-26	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	-1.04	-1.04	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	-26	-26	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	-26	-26	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	-26	-26	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	-1.04	-1.04	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	-.391	-.391	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	-.393	-.393	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	-.15	-.15	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	-.598	-.598	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	-.15	-.15	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	-.733	-.733	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	-.183	-.183	0	%100
91	M106	X	0	0	0	%100
92	M106	Z	-.183	-.183	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.106	.106	0	%100
2	M1	Z	-.184	-.184	0	%100
3	M2	X	.426	.426	0	%100
4	M2	Z	-.738	-.738	0	%100
5	M3	X	.106	.106	0	%100
6	M3	Z	-.184	-.184	0	%100
7	M5	X	.39	.39	0	%100
8	M5	Z	-.676	-.676	0	%100
9	M7	X	.589	.589	0	%100
10	M7	Z	-1.02	-1.02	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	.247	.247	0	%100
14	MP1B	Z	-.428	-.428	0	%100
15	MP2B	X	.299	.299	0	%100
16	MP2B	Z	-.518	-.518	0	%100
17	MP3B	X	.247	.247	0	%100
18	MP3B	Z	-.428	-.428	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, %]
19	MP4B	X	.247	.247	0	%100
20	MP4B	Z	-.428	-.428	0	%100
21	F	X	.78	.78	0	%100
22	F	Z	-1.351	-1.351	0	%100
23	MP1A	X	.247	.247	0	%100
24	MP1A	Z	-.428	-.428	0	%100
25	MP2A	X	.299	.299	0	%100
26	MP2A	Z	-.518	-.518	0	%100
27	MP3A	X	.247	.247	0	%100
28	MP3A	Z	-.428	-.428	0	%100
29	MP4A	X	.247	.247	0	%100
30	MP4A	Z	-.428	-.428	0	%100
31	M68	X	.78	.78	0	%100
32	M68	Z	-1.351	-1.351	0	%100
33	MP1C	X	.247	.247	0	%100
34	MP1C	Z	-.428	-.428	0	%100
35	MP2C	X	.299	.299	0	%100
36	MP2C	Z	-.518	-.518	0	%100
37	MP3C	X	.247	.247	0	%100
38	MP3C	Z	-.428	-.428	0	%100
39	MP4C	X	.247	.247	0	%100
40	MP4C	Z	-.428	-.428	0	%100
41	M76A	X	.204	.204	0	%100
42	M76A	Z	-.353	-.353	0	%100
43	M77	X	.39	.39	0	%100
44	M77	Z	-.676	-.676	0	%100
45	M75	X	.39	.39	0	%100
46	M75	Z	-.676	-.676	0	%100
47	M76B	X	1e-5	1e-5	0	%100
48	M76B	Z	-1.7e-5	-1.7e-5	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	.39	.39	0	%100
52	M75A	Z	-.675	-.675	0	%100
53	M76C	X	.39	.39	0	%100
54	M76C	Z	-.675	-.675	0	%100
55	M77B	X	.39	.39	0	%100
56	M77B	Z	-.676	-.676	0	%100
57	M75B	X	.000247	.000247	0	%100
58	M75B	Z	-.000427	-.000427	0	%100
59	M76D	X	.391	.391	0	%100
60	M76D	Z	-.677	-.677	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	.39	.39	0	%100
64	M83	Z	-.676	-.676	0	%100
65	M88	X	.39	.39	0	%100
66	M88	Z	-.676	-.676	0	%100
67	M89	X	.39	.39	0	%100
68	M89	Z	-.676	-.676	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	.39	.39	0	%100
74	M97	Z	-.676	-.676	0	%100
75	M98	X	.39	.39	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, %]
76	M98	Z	-.676	-.676	0	%100
77	M114	X	.588	.588	0	%100
78	M114	Z	-1.018	-1.018	0	%100
79	M125	X	1e-6	1e-6	0	%100
80	M125	Z	-1e-6	-1e-6	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	.224	.224	0	%100
84	M88A	Z	-.389	-.389	0	%100
85	M93A	X	.224	.224	0	%100
86	M93A	Z	-.389	-.389	0	%100
87	M98A	X	.275	.275	0	%100
88	M98A	Z	-.476	-.476	0	%100
89	M105	X	.275	.275	0	%100
90	M105	Z	-.476	-.476	0	%100
91	M106	X	0	0	0	%100
92	M106	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	M1	X	.553	.553	0	%100
2	M1	Z	-.319	-.319	0	%100
3	M2	X	.553	.553	0	%100
4	M2	Z	-.319	-.319	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	.225	.225	0	%100
8	M5	Z	-.13	-.13	0	%100
9	M7	X	.341	.341	0	%100
10	M7	Z	-.197	-.197	0	%100
11	M50	X	.45	.45	0	%100
12	M50	Z	-.26	-.26	0	%100
13	MP1B	X	.428	.428	0	%100
14	MP1B	Z	-.247	-.247	0	%100
15	MP2B	X	.518	.518	0	%100
16	MP2B	Z	-.299	-.299	0	%100
17	MP3B	X	.428	.428	0	%100
18	MP3B	Z	-.247	-.247	0	%100
19	MP4B	X	.428	.428	0	%100
20	MP4B	Z	-.247	-.247	0	%100
21	F	X	.45	.45	0	%100
22	F	Z	-.26	-.26	0	%100
23	MP1A	X	.428	.428	0	%100
24	MP1A	Z	-.247	-.247	0	%100
25	MP2A	X	.518	.518	0	%100
26	MP2A	Z	-.299	-.299	0	%100
27	MP3A	X	.428	.428	0	%100
28	MP3A	Z	-.247	-.247	0	%100
29	MP4A	X	.428	.428	0	%100
30	MP4A	Z	-.247	-.247	0	%100
31	M68	X	1.802	1.802	0	%100
32	M68	Z	-1.04	-1.04	0	%100
33	MP1C	X	.428	.428	0	%100
34	MP1C	Z	-.247	-.247	0	%100
35	MP2C	X	.518	.518	0	%100
36	MP2C	Z	-.299	-.299	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, %]
37	MP3C	X	.428	.428	0	%100
38	MP3C	Z	-.247	-.247	0	%100
39	MP4C	X	.428	.428	0	%100
40	MP4C	Z	-.247	-.247	0	%100
41	M76A	X	.353	.353	0	%100
42	M76A	Z	-.204	-.204	0	%100
43	M77	X	.225	.225	0	%100
44	M77	Z	-.13	-.13	0	%100
45	M75	X	.901	.901	0	%100
46	M75	Z	-.52	-.52	0	%100
47	M76B	X	.229	.229	0	%100
48	M76B	Z	-.132	-.132	0	%100
49	M77A	X	.225	.225	0	%100
50	M77A	Z	-.13	-.13	0	%100
51	M75A	X	.901	.901	0	%100
52	M75A	Z	-.52	-.52	0	%100
53	M76C	X	.225	.225	0	%100
54	M76C	Z	-.13	-.13	0	%100
55	M77B	X	.901	.901	0	%100
56	M77B	Z	-.52	-.52	0	%100
57	M75B	X	.208	.208	0	%100
58	M75B	Z	-.12	-.12	0	%100
59	M76D	X	.226	.226	0	%100
60	M76D	Z	-.131	-.131	0	%100
61	M80	X	.225	.225	0	%100
62	M80	Z	-.13	-.13	0	%100
63	M83	X	.901	.901	0	%100
64	M83	Z	-.52	-.52	0	%100
65	M88	X	.901	.901	0	%100
66	M88	Z	-.52	-.52	0	%100
67	M89	X	.225	.225	0	%100
68	M89	Z	-.13	-.13	0	%100
69	M90	X	.225	.225	0	%100
70	M90	Z	-.13	-.13	0	%100
71	M96	X	.225	.225	0	%100
72	M96	Z	-.13	-.13	0	%100
73	M97	X	.901	.901	0	%100
74	M97	Z	-.52	-.52	0	%100
75	M98	X	.225	.225	0	%100
76	M98	Z	-.13	-.13	0	%100
77	M114	X	1.359	1.359	0	%100
78	M114	Z	-.785	-.785	0	%100
79	M125	X	.339	.339	0	%100
80	M125	Z	-.196	-.196	0	%100
81	M83A	X	.13	.13	0	%100
82	M83A	Z	-.075	-.075	0	%100
83	M88A	X	.13	.13	0	%100
84	M88A	Z	-.075	-.075	0	%100
85	M93A	X	.518	.518	0	%100
86	M93A	Z	-.299	-.299	0	%100
87	M98A	X	.159	.159	0	%100
88	M98A	Z	-.092	-.092	0	%100
89	M105	X	.634	.634	0	%100
90	M105	Z	-.366	-.366	0	%100
91	M106	X	.159	.159	0	%100
92	M106	Z	-.092	-.092	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.852	.852	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.213	.213	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.213	.213	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	1e-6	1e-6	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	1.56	1.56	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	.494	.494	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	.598	.598	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	.494	.494	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	.494	.494	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	.494	.494	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	.598	.598	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	.494	.494	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	.494	.494	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	1.56	1.56	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	.494	.494	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	.598	.598	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	.494	.494	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	.494	.494	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	.408	.408	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	.78	.78	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	.784	.784	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	.78	.78	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	.781	.781	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	.78	.78	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	.76	.76	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, %]
58	M75B	Z	0	0	0	%100
59	M76D	X	2e-6	2e-6	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	.78	.78	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	.78	.78	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	.78	.78	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	.78	.78	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	.78	.78	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	.78	.78	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	1.178	1.178	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	1.176	1.176	0	%100
80	M125	Z	0	0	0	%100
81	M83A	X	.449	.449	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	0	0	0	%100
85	M93A	X	.449	.449	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	0	0	0	%100
89	M105	X	.549	.549	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	.549	.549	0	%100
92	M106	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.553	.553	0	%100
2	M1	Z	.319	.319	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.553	.553	0	%100
6	M3	Z	.319	.319	0	%100
7	M5	X	.225	.225	0	%100
8	M5	Z	.13	.13	0	%100
9	M7	X	.339	.339	0	%100
10	M7	Z	.196	.196	0	%100
11	M50	X	1.802	1.802	0	%100
12	M50	Z	1.04	1.04	0	%100
13	MP1B	X	.428	.428	0	%100
14	MP1B	Z	.247	.247	0	%100
15	MP2B	X	.518	.518	0	%100
16	MP2B	Z	.299	.299	0	%100
17	MP3B	X	.428	.428	0	%100
18	MP3B	Z	.247	.247	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, %]
19	MP4B	X	.428	.428	0	%100
20	MP4B	Z	.247	.247	0	%100
21	F	X	.45	.45	0	%100
22	F	Z	.26	.26	0	%100
23	MP1A	X	.428	.428	0	%100
24	MP1A	Z	.247	.247	0	%100
25	MP2A	X	.518	.518	0	%100
26	MP2A	Z	.299	.299	0	%100
27	MP3A	X	.428	.428	0	%100
28	MP3A	Z	.247	.247	0	%100
29	MP4A	X	.428	.428	0	%100
30	MP4A	Z	.247	.247	0	%100
31	M68	X	.45	.45	0	%100
32	M68	Z	.26	.26	0	%100
33	MP1C	X	.428	.428	0	%100
34	MP1C	Z	.247	.247	0	%100
35	MP2C	X	.518	.518	0	%100
36	MP2C	Z	.299	.299	0	%100
37	MP3C	X	.428	.428	0	%100
38	MP3C	Z	.247	.247	0	%100
39	MP4C	X	.428	.428	0	%100
40	MP4C	Z	.247	.247	0	%100
41	M76A	X	.353	.353	0	%100
42	M76A	Z	.204	.204	0	%100
43	M77	X	.225	.225	0	%100
44	M77	Z	.13	.13	0	%100
45	M75	X	.225	.225	0	%100
46	M75	Z	.13	.13	0	%100
47	M76B	X	.901	.901	0	%100
48	M76B	Z	.52	.52	0	%100
49	M77A	X	.901	.901	0	%100
50	M77A	Z	.52	.52	0	%100
51	M75A	X	.225	.225	0	%100
52	M75A	Z	.13	.13	0	%100
53	M76C	X	.225	.225	0	%100
54	M76C	Z	.13	.13	0	%100
55	M77B	X	.225	.225	0	%100
56	M77B	Z	.13	.13	0	%100
57	M75B	X	.9	.9	0	%100
58	M75B	Z	.52	.52	0	%100
59	M76D	X	.224	.224	0	%100
60	M76D	Z	.129	.129	0	%100
61	M80	X	.901	.901	0	%100
62	M80	Z	.52	.52	0	%100
63	M83	X	.225	.225	0	%100
64	M83	Z	.13	.13	0	%100
65	M88	X	.225	.225	0	%100
66	M88	Z	.13	.13	0	%100
67	M89	X	.225	.225	0	%100
68	M89	Z	.13	.13	0	%100
69	M90	X	.901	.901	0	%100
70	M90	Z	.52	.52	0	%100
71	M96	X	.901	.901	0	%100
72	M96	Z	.52	.52	0	%100
73	M97	X	.225	.225	0	%100
74	M97	Z	.13	.13	0	%100
75	M98	X	.225	.225	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, %]
76	M98	Z	.13	.13	0	%100
77	M114	X	.341	.341	0	%100
78	M114	Z	.197	.197	0	%100
79	M125	X	1.359	1.359	0	%100
80	M125	Z	.785	.785	0	%100
81	M83A	X	.518	.518	0	%100
82	M83A	Z	.299	.299	0	%100
83	M88A	X	.13	.13	0	%100
84	M88A	Z	.075	.075	0	%100
85	M93A	X	.13	.13	0	%100
86	M93A	Z	.075	.075	0	%100
87	M98A	X	.159	.159	0	%100
88	M98A	Z	.092	.092	0	%100
89	M105	X	.159	.159	0	%100
90	M105	Z	.092	.092	0	%100
91	M106	X	.634	.634	0	%100
92	M106	Z	.366	.366	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.106	.106	0	%100
2	M1	Z	.184	.184	0	%100
3	M2	X	.106	.106	0	%100
4	M2	Z	.184	.184	0	%100
5	M3	X	.426	.426	0	%100
6	M3	Z	.738	.738	0	%100
7	M5	X	.39	.39	0	%100
8	M5	Z	.676	.676	0	%100
9	M7	X	.588	.588	0	%100
10	M7	Z	1.018	1.018	0	%100
11	M50	X	.78	.78	0	%100
12	M50	Z	1.351	1.351	0	%100
13	MP1B	X	.247	.247	0	%100
14	MP1B	Z	.428	.428	0	%100
15	MP2B	X	.299	.299	0	%100
16	MP2B	Z	.518	.518	0	%100
17	MP3B	X	.247	.247	0	%100
18	MP3B	Z	.428	.428	0	%100
19	MP4B	X	.247	.247	0	%100
20	MP4B	Z	.428	.428	0	%100
21	F	X	.78	.78	0	%100
22	F	Z	1.351	1.351	0	%100
23	MP1A	X	.247	.247	0	%100
24	MP1A	Z	.428	.428	0	%100
25	MP2A	X	.299	.299	0	%100
26	MP2A	Z	.518	.518	0	%100
27	MP3A	X	.247	.247	0	%100
28	MP3A	Z	.428	.428	0	%100
29	MP4A	X	.247	.247	0	%100
30	MP4A	Z	.428	.428	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	.247	.247	0	%100
34	MP1C	Z	.428	.428	0	%100
35	MP2C	X	.299	.299	0	%100
36	MP2C	Z	.518	.518	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, %]
37	MP3C	X	.247	.247	0	%100
38	MP3C	Z	.428	.428	0	%100
39	MP4C	X	.247	.247	0	%100
40	MP4C	Z	.428	.428	0	%100
41	M76A	X	.204	.204	0	%100
42	M76A	Z	.353	.353	0	%100
43	M77	X	.39	.39	0	%100
44	M77	Z	.676	.676	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	.388	.388	0	%100
48	M76B	Z	.672	.672	0	%100
49	M77A	X	.39	.39	0	%100
50	M77A	Z	.676	.676	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	.39	.39	0	%100
54	M76C	Z	.676	.676	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	.4	.4	0	%100
58	M75B	Z	.692	.692	0	%100
59	M76D	X	.39	.39	0	%100
60	M76D	Z	.675	.675	0	%100
61	M80	X	.39	.39	0	%100
62	M80	Z	.676	.676	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	.39	.39	0	%100
68	M89	Z	.676	.676	0	%100
69	M90	X	.39	.39	0	%100
70	M90	Z	.676	.676	0	%100
71	M96	X	.39	.39	0	%100
72	M96	Z	.676	.676	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	.39	.39	0	%100
76	M98	Z	.676	.676	0	%100
77	M114	X	1e-6	1e-6	0	%100
78	M114	Z	1e-6	1e-6	0	%100
79	M125	X	.589	.589	0	%100
80	M125	Z	1.02	1.02	0	%100
81	M83A	X	.224	.224	0	%100
82	M83A	Z	.389	.389	0	%100
83	M88A	X	.224	.224	0	%100
84	M88A	Z	.389	.389	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	.275	.275	0	%100
88	M98A	Z	.476	.476	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	.275	.275	0	%100
92	M106	Z	.476	.476	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.639	.639	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	.639	.639	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	1.04	1.04	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	1.569	1.569	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	.52	.52	0	%100
13	MP1B	X	0	0	0	%100
14	MP1B	Z	.494	.494	0	%100
15	MP2B	X	0	0	0	%100
16	MP2B	Z	.598	.598	0	%100
17	MP3B	X	0	0	0	%100
18	MP3B	Z	.494	.494	0	%100
19	MP4B	X	0	0	0	%100
20	MP4B	Z	.494	.494	0	%100
21	F	X	0	0	0	%100
22	F	Z	2.081	2.081	0	%100
23	MP1A	X	0	0	0	%100
24	MP1A	Z	.494	.494	0	%100
25	MP2A	X	0	0	0	%100
26	MP2A	Z	.598	.598	0	%100
27	MP3A	X	0	0	0	%100
28	MP3A	Z	.494	.494	0	%100
29	MP4A	X	0	0	0	%100
30	MP4A	Z	.494	.494	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	.52	.52	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	.494	.494	0	%100
35	MP2C	X	0	0	0	%100
36	MP2C	Z	.598	.598	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	.494	.494	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	.494	.494	0	%100
41	M76A	X	0	0	0	%100
42	M76A	Z	.408	.408	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	1.04	1.04	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	.26	.26	0	%100
47	M76B	X	0	0	0	%100
48	M76B	Z	.256	.256	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	.26	.26	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	.26	.26	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	1.04	1.04	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	.26	.26	0	%100
57	M75B	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, %]
58	M75B	Z	.28	.28	0	%100
59	M76D	X	0	0	0	%100
60	M76D	Z	1.04	1.04	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	.26	.26	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	.26	.26	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	.26	.26	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	1.04	1.04	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	.26	.26	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	.26	.26	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	.26	.26	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	1.04	1.04	0	%100
77	M114	X	0	0	0	%100
78	M114	Z	.391	.391	0	%100
79	M125	X	0	0	0	%100
80	M125	Z	.393	.393	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	.15	.15	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	.598	.598	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	.15	.15	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	.733	.733	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	.183	.183	0	%100
91	M106	X	0	0	0	%100
92	M106	Z	.183	.183	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.106	-.106	0	%100
2	M1	Z	.184	.184	0	%100
3	M2	X	-.426	-.426	0	%100
4	M2	Z	.738	.738	0	%100
5	M3	X	-.106	-.106	0	%100
6	M3	Z	.184	.184	0	%100
7	M5	X	-.39	-.39	0	%100
8	M5	Z	.676	.676	0	%100
9	M7	X	-.589	-.589	0	%100
10	M7	Z	1.02	1.02	0	%100
11	M50	X	0	0	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-.247	-.247	0	%100
14	MP1B	Z	.428	.428	0	%100
15	MP2B	X	-.299	-.299	0	%100
16	MP2B	Z	.518	.518	0	%100
17	MP3B	X	-.247	-.247	0	%100
18	MP3B	Z	.428	.428	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, %]
19	MP4B	X	-.247	-.247	0	%100
20	MP4B	Z	.428	.428	0	%100
21	F	X	-.78	-.78	0	%100
22	F	Z	1.351	1.351	0	%100
23	MP1A	X	-.247	-.247	0	%100
24	MP1A	Z	.428	.428	0	%100
25	MP2A	X	-.299	-.299	0	%100
26	MP2A	Z	.518	.518	0	%100
27	MP3A	X	-.247	-.247	0	%100
28	MP3A	Z	.428	.428	0	%100
29	MP4A	X	-.247	-.247	0	%100
30	MP4A	Z	.428	.428	0	%100
31	M68	X	-.78	-.78	0	%100
32	M68	Z	1.351	1.351	0	%100
33	MP1C	X	-.247	-.247	0	%100
34	MP1C	Z	.428	.428	0	%100
35	MP2C	X	-.299	-.299	0	%100
36	MP2C	Z	.518	.518	0	%100
37	MP3C	X	-.247	-.247	0	%100
38	MP3C	Z	.428	.428	0	%100
39	MP4C	X	-.247	-.247	0	%100
40	MP4C	Z	.428	.428	0	%100
41	M76A	X	-.204	-.204	0	%100
42	M76A	Z	.353	.353	0	%100
43	M77	X	-.39	-.39	0	%100
44	M77	Z	.676	.676	0	%100
45	M75	X	-.39	-.39	0	%100
46	M75	Z	.676	.676	0	%100
47	M76B	X	-1e-5	-1e-5	0	%100
48	M76B	Z	1.7e-5	1.7e-5	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-.39	-.39	0	%100
52	M75A	Z	.675	.675	0	%100
53	M76C	X	-.39	-.39	0	%100
54	M76C	Z	.675	.675	0	%100
55	M77B	X	-.39	-.39	0	%100
56	M77B	Z	.676	.676	0	%100
57	M75B	X	-.000247	-.000247	0	%100
58	M75B	Z	.000427	.000427	0	%100
59	M76D	X	-.391	-.391	0	%100
60	M76D	Z	.677	.677	0	%100
61	M80	X	0	0	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-.39	-.39	0	%100
64	M83	Z	.676	.676	0	%100
65	M88	X	-.39	-.39	0	%100
66	M88	Z	.676	.676	0	%100
67	M89	X	-.39	-.39	0	%100
68	M89	Z	.676	.676	0	%100
69	M90	X	0	0	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	0	0	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-.39	-.39	0	%100
74	M97	Z	.676	.676	0	%100
75	M98	X	-.39	-.39	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, %]
76	M98	Z	.676	.676	0	%100
77	M114	X	-.588	-.588	0	%100
78	M114	Z	1.018	1.018	0	%100
79	M125	X	-1e-6	-1e-6	0	%100
80	M125	Z	1e-6	1e-6	0	%100
81	M83A	X	0	0	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	-.224	-.224	0	%100
84	M88A	Z	.389	.389	0	%100
85	M93A	X	-.224	-.224	0	%100
86	M93A	Z	.389	.389	0	%100
87	M98A	X	-.275	-.275	0	%100
88	M98A	Z	.476	.476	0	%100
89	M105	X	-.275	-.275	0	%100
90	M105	Z	.476	.476	0	%100
91	M106	X	0	0	0	%100
92	M106	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	M1	X	-.553	-.553	0	%100
2	M1	Z	.319	.319	0	%100
3	M2	X	-.553	-.553	0	%100
4	M2	Z	.319	.319	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	-.225	-.225	0	%100
8	M5	Z	.13	.13	0	%100
9	M7	X	-.341	-.341	0	%100
10	M7	Z	.197	.197	0	%100
11	M50	X	-.45	-.45	0	%100
12	M50	Z	.26	.26	0	%100
13	MP1B	X	-.428	-.428	0	%100
14	MP1B	Z	.247	.247	0	%100
15	MP2B	X	-.518	-.518	0	%100
16	MP2B	Z	.299	.299	0	%100
17	MP3B	X	-.428	-.428	0	%100
18	MP3B	Z	.247	.247	0	%100
19	MP4B	X	-.428	-.428	0	%100
20	MP4B	Z	.247	.247	0	%100
21	F	X	-.45	-.45	0	%100
22	F	Z	.26	.26	0	%100
23	MP1A	X	-.428	-.428	0	%100
24	MP1A	Z	.247	.247	0	%100
25	MP2A	X	-.518	-.518	0	%100
26	MP2A	Z	.299	.299	0	%100
27	MP3A	X	-.428	-.428	0	%100
28	MP3A	Z	.247	.247	0	%100
29	MP4A	X	-.428	-.428	0	%100
30	MP4A	Z	.247	.247	0	%100
31	M68	X	-1.802	-1.802	0	%100
32	M68	Z	1.04	1.04	0	%100
33	MP1C	X	-.428	-.428	0	%100
34	MP1C	Z	.247	.247	0	%100
35	MP2C	X	-.518	-.518	0	%100
36	MP2C	Z	.299	.299	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, %]
37	MP3C	X	-.428	-.428	0	%100
38	MP3C	Z	.247	.247	0	%100
39	MP4C	X	-.428	-.428	0	%100
40	MP4C	Z	.247	.247	0	%100
41	M76A	X	-.353	-.353	0	%100
42	M76A	Z	.204	.204	0	%100
43	M77	X	-.225	-.225	0	%100
44	M77	Z	.13	.13	0	%100
45	M75	X	-.901	-.901	0	%100
46	M75	Z	.52	.52	0	%100
47	M76B	X	-.229	-.229	0	%100
48	M76B	Z	.132	.132	0	%100
49	M77A	X	-.225	-.225	0	%100
50	M77A	Z	.13	.13	0	%100
51	M75A	X	-.901	-.901	0	%100
52	M75A	Z	.52	.52	0	%100
53	M76C	X	-.225	-.225	0	%100
54	M76C	Z	.13	.13	0	%100
55	M77B	X	-.901	-.901	0	%100
56	M77B	Z	.52	.52	0	%100
57	M75B	X	-.208	-.208	0	%100
58	M75B	Z	.12	.12	0	%100
59	M76D	X	-.226	-.226	0	%100
60	M76D	Z	.131	.131	0	%100
61	M80	X	-.225	-.225	0	%100
62	M80	Z	.13	.13	0	%100
63	M83	X	-.901	-.901	0	%100
64	M83	Z	.52	.52	0	%100
65	M88	X	-.901	-.901	0	%100
66	M88	Z	.52	.52	0	%100
67	M89	X	-.225	-.225	0	%100
68	M89	Z	.13	.13	0	%100
69	M90	X	-.225	-.225	0	%100
70	M90	Z	.13	.13	0	%100
71	M96	X	-.225	-.225	0	%100
72	M96	Z	.13	.13	0	%100
73	M97	X	-.901	-.901	0	%100
74	M97	Z	.52	.52	0	%100
75	M98	X	-.225	-.225	0	%100
76	M98	Z	.13	.13	0	%100
77	M114	X	-1.359	-1.359	0	%100
78	M114	Z	.785	.785	0	%100
79	M125	X	-.339	-.339	0	%100
80	M125	Z	.196	.196	0	%100
81	M83A	X	-.13	-.13	0	%100
82	M83A	Z	.075	.075	0	%100
83	M88A	X	-.13	-.13	0	%100
84	M88A	Z	.075	.075	0	%100
85	M93A	X	-.518	-.518	0	%100
86	M93A	Z	.299	.299	0	%100
87	M98A	X	-.159	-.159	0	%100
88	M98A	Z	.092	.092	0	%100
89	M105	X	-.634	-.634	0	%100
90	M105	Z	.366	.366	0	%100
91	M106	X	-.159	-.159	0	%100
92	M106	Z	.092	.092	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.852	-.852	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.213	-.213	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.213	-.213	0	%100
6	M3	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	M7	X	-1e-6	-1e-6	0	%100
10	M7	Z	0	0	0	%100
11	M50	X	-1.56	-1.56	0	%100
12	M50	Z	0	0	0	%100
13	MP1B	X	-.494	-.494	0	%100
14	MP1B	Z	0	0	0	%100
15	MP2B	X	-.598	-.598	0	%100
16	MP2B	Z	0	0	0	%100
17	MP3B	X	-.494	-.494	0	%100
18	MP3B	Z	0	0	0	%100
19	MP4B	X	-.494	-.494	0	%100
20	MP4B	Z	0	0	0	%100
21	F	X	0	0	0	%100
22	F	Z	0	0	0	%100
23	MP1A	X	-.494	-.494	0	%100
24	MP1A	Z	0	0	0	%100
25	MP2A	X	-.598	-.598	0	%100
26	MP2A	Z	0	0	0	%100
27	MP3A	X	-.494	-.494	0	%100
28	MP3A	Z	0	0	0	%100
29	MP4A	X	-.494	-.494	0	%100
30	MP4A	Z	0	0	0	%100
31	M68	X	-1.56	-1.56	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-.494	-.494	0	%100
34	MP1C	Z	0	0	0	%100
35	MP2C	X	-.598	-.598	0	%100
36	MP2C	Z	0	0	0	%100
37	MP3C	X	-.494	-.494	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-.494	-.494	0	%100
40	MP4C	Z	0	0	0	%100
41	M76A	X	-.408	-.408	0	%100
42	M76A	Z	0	0	0	%100
43	M77	X	0	0	0	%100
44	M77	Z	0	0	0	%100
45	M75	X	-.78	-.78	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-.784	-.784	0	%100
48	M76B	Z	0	0	0	%100
49	M77A	X	-.78	-.78	0	%100
50	M77A	Z	0	0	0	%100
51	M75A	X	-.781	-.781	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	0	0	0	%100
54	M76C	Z	0	0	0	%100
55	M77B	X	-.78	-.78	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-.76	-.76	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	M75B	Z	0	0	0	%100
59	M76D	X	-2e-6	-2e-6	0	%100
60	M76D	Z	0	0	0	%100
61	M80	X	-.78	-.78	0	%100
62	M80	Z	0	0	0	%100
63	M83	X	-.78	-.78	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	-.78	-.78	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	0	0	0	%100
68	M89	Z	0	0	0	%100
69	M90	X	-.78	-.78	0	%100
70	M90	Z	0	0	0	%100
71	M96	X	-.78	-.78	0	%100
72	M96	Z	0	0	0	%100
73	M97	X	-.78	-.78	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	0	0	0	%100
76	M98	Z	0	0	0	%100
77	M114	X	-1.178	-1.178	0	%100
78	M114	Z	0	0	0	%100
79	M125	X	-1.176	-1.176	0	%100
80	M125	Z	0	0	0	%100
81	M83A	X	-.449	-.449	0	%100
82	M83A	Z	0	0	0	%100
83	M88A	X	0	0	0	%100
84	M88A	Z	0	0	0	%100
85	M93A	X	-.449	-.449	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	0	0	0	%100
88	M98A	Z	0	0	0	%100
89	M105	X	-.549	-.549	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	-.549	-.549	0	%100
92	M106	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.553	-.553	0	%100
2	M1	Z	-.319	-.319	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.553	-.553	0	%100
6	M3	Z	-.319	-.319	0	%100
7	M5	X	-.225	-.225	0	%100
8	M5	Z	-.13	-.13	0	%100
9	M7	X	-.339	-.339	0	%100
10	M7	Z	-.196	-.196	0	%100
11	M50	X	-1.802	-1.802	0	%100
12	M50	Z	-1.04	-1.04	0	%100
13	MP1B	X	-.428	-.428	0	%100
14	MP1B	Z	-.247	-.247	0	%100
15	MP2B	X	-.518	-.518	0	%100
16	MP2B	Z	-.299	-.299	0	%100
17	MP3B	X	-.428	-.428	0	%100
18	MP3B	Z	-.247	-.247	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, %]
19	MP4B	X	-.428	-.428	0	%100
20	MP4B	Z	-.247	-.247	0	%100
21	F	X	-.45	-.45	0	%100
22	F	Z	-.26	-.26	0	%100
23	MP1A	X	-.428	-.428	0	%100
24	MP1A	Z	-.247	-.247	0	%100
25	MP2A	X	-.518	-.518	0	%100
26	MP2A	Z	-.299	-.299	0	%100
27	MP3A	X	-.428	-.428	0	%100
28	MP3A	Z	-.247	-.247	0	%100
29	MP4A	X	-.428	-.428	0	%100
30	MP4A	Z	-.247	-.247	0	%100
31	M68	X	-.45	-.45	0	%100
32	M68	Z	-.26	-.26	0	%100
33	MP1C	X	-.428	-.428	0	%100
34	MP1C	Z	-.247	-.247	0	%100
35	MP2C	X	-.518	-.518	0	%100
36	MP2C	Z	-.299	-.299	0	%100
37	MP3C	X	-.428	-.428	0	%100
38	MP3C	Z	-.247	-.247	0	%100
39	MP4C	X	-.428	-.428	0	%100
40	MP4C	Z	-.247	-.247	0	%100
41	M76A	X	-.353	-.353	0	%100
42	M76A	Z	-.204	-.204	0	%100
43	M77	X	-.225	-.225	0	%100
44	M77	Z	-.13	-.13	0	%100
45	M75	X	-.225	-.225	0	%100
46	M75	Z	-.13	-.13	0	%100
47	M76B	X	-.901	-.901	0	%100
48	M76B	Z	-.52	-.52	0	%100
49	M77A	X	-.901	-.901	0	%100
50	M77A	Z	-.52	-.52	0	%100
51	M75A	X	-.225	-.225	0	%100
52	M75A	Z	-.13	-.13	0	%100
53	M76C	X	-.225	-.225	0	%100
54	M76C	Z	-.13	-.13	0	%100
55	M77B	X	-.225	-.225	0	%100
56	M77B	Z	-.13	-.13	0	%100
57	M75B	X	-.9	-.9	0	%100
58	M75B	Z	-.52	-.52	0	%100
59	M76D	X	-.224	-.224	0	%100
60	M76D	Z	-.129	-.129	0	%100
61	M80	X	-.901	-.901	0	%100
62	M80	Z	-.52	-.52	0	%100
63	M83	X	-.225	-.225	0	%100
64	M83	Z	-.13	-.13	0	%100
65	M88	X	-.225	-.225	0	%100
66	M88	Z	-.13	-.13	0	%100
67	M89	X	-.225	-.225	0	%100
68	M89	Z	-.13	-.13	0	%100
69	M90	X	-.901	-.901	0	%100
70	M90	Z	-.52	-.52	0	%100
71	M96	X	-.901	-.901	0	%100
72	M96	Z	-.52	-.52	0	%100
73	M97	X	-.225	-.225	0	%100
74	M97	Z	-.13	-.13	0	%100
75	M98	X	-.225	-.225	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, %]
76	M98	Z	-.13	-.13	0	%100
77	M114	X	-.341	-.341	0	%100
78	M114	Z	-.197	-.197	0	%100
79	M125	X	-1.359	-1.359	0	%100
80	M125	Z	-.785	-.785	0	%100
81	M83A	X	-.518	-.518	0	%100
82	M83A	Z	-.299	-.299	0	%100
83	M88A	X	-.13	-.13	0	%100
84	M88A	Z	-.075	-.075	0	%100
85	M93A	X	-.13	-.13	0	%100
86	M93A	Z	-.075	-.075	0	%100
87	M98A	X	-.159	-.159	0	%100
88	M98A	Z	-.092	-.092	0	%100
89	M105	X	-.159	-.159	0	%100
90	M105	Z	-.092	-.092	0	%100
91	M106	X	-.634	-.634	0	%100
92	M106	Z	-.366	-.366	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.106	-.106	0	%100
2	M1	Z	-.184	-.184	0	%100
3	M2	X	-.106	-.106	0	%100
4	M2	Z	-.184	-.184	0	%100
5	M3	X	-.426	-.426	0	%100
6	M3	Z	-.738	-.738	0	%100
7	M5	X	-.39	-.39	0	%100
8	M5	Z	-.676	-.676	0	%100
9	M7	X	-.588	-.588	0	%100
10	M7	Z	-1.018	-1.018	0	%100
11	M50	X	-.78	-.78	0	%100
12	M50	Z	-1.351	-1.351	0	%100
13	MP1B	X	-.247	-.247	0	%100
14	MP1B	Z	-.428	-.428	0	%100
15	MP2B	X	-.299	-.299	0	%100
16	MP2B	Z	-.518	-.518	0	%100
17	MP3B	X	-.247	-.247	0	%100
18	MP3B	Z	-.428	-.428	0	%100
19	MP4B	X	-.247	-.247	0	%100
20	MP4B	Z	-.428	-.428	0	%100
21	F	X	-.78	-.78	0	%100
22	F	Z	-1.351	-1.351	0	%100
23	MP1A	X	-.247	-.247	0	%100
24	MP1A	Z	-.428	-.428	0	%100
25	MP2A	X	-.299	-.299	0	%100
26	MP2A	Z	-.518	-.518	0	%100
27	MP3A	X	-.247	-.247	0	%100
28	MP3A	Z	-.428	-.428	0	%100
29	MP4A	X	-.247	-.247	0	%100
30	MP4A	Z	-.428	-.428	0	%100
31	M68	X	0	0	0	%100
32	M68	Z	0	0	0	%100
33	MP1C	X	-.247	-.247	0	%100
34	MP1C	Z	-.428	-.428	0	%100
35	MP2C	X	-.299	-.299	0	%100
36	MP2C	Z	-.518	-.518	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, %]
37	MP3C	X	-.247	-.247	0	%100
38	MP3C	Z	-.428	-.428	0	%100
39	MP4C	X	-.247	-.247	0	%100
40	MP4C	Z	-.428	-.428	0	%100
41	M76A	X	-.204	-.204	0	%100
42	M76A	Z	-.353	-.353	0	%100
43	M77	X	-.39	-.39	0	%100
44	M77	Z	-.676	-.676	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	0	0	0	%100
47	M76B	X	-.388	-.388	0	%100
48	M76B	Z	-.672	-.672	0	%100
49	M77A	X	-.39	-.39	0	%100
50	M77A	Z	-.676	-.676	0	%100
51	M75A	X	0	0	0	%100
52	M75A	Z	0	0	0	%100
53	M76C	X	-.39	-.39	0	%100
54	M76C	Z	-.676	-.676	0	%100
55	M77B	X	0	0	0	%100
56	M77B	Z	0	0	0	%100
57	M75B	X	-.4	-.4	0	%100
58	M75B	Z	-.692	-.692	0	%100
59	M76D	X	-.39	-.39	0	%100
60	M76D	Z	-.675	-.675	0	%100
61	M80	X	-.39	-.39	0	%100
62	M80	Z	-.676	-.676	0	%100
63	M83	X	0	0	0	%100
64	M83	Z	0	0	0	%100
65	M88	X	0	0	0	%100
66	M88	Z	0	0	0	%100
67	M89	X	-.39	-.39	0	%100
68	M89	Z	-.676	-.676	0	%100
69	M90	X	-.39	-.39	0	%100
70	M90	Z	-.676	-.676	0	%100
71	M96	X	-.39	-.39	0	%100
72	M96	Z	-.676	-.676	0	%100
73	M97	X	0	0	0	%100
74	M97	Z	0	0	0	%100
75	M98	X	-.39	-.39	0	%100
76	M98	Z	-.676	-.676	0	%100
77	M114	X	-1e-6	-1e-6	0	%100
78	M114	Z	-1e-6	-1e-6	0	%100
79	M125	X	-.589	-.589	0	%100
80	M125	Z	-1.02	-1.02	0	%100
81	M83A	X	-.224	-.224	0	%100
82	M83A	Z	-.389	-.389	0	%100
83	M88A	X	-.224	-.224	0	%100
84	M88A	Z	-.389	-.389	0	%100
85	M93A	X	0	0	0	%100
86	M93A	Z	0	0	0	%100
87	M98A	X	-.275	-.275	0	%100
88	M98A	Z	-.476	-.476	0	%100
89	M105	X	0	0	0	%100
90	M105	Z	0	0	0	%100
91	M106	X	-.275	-.275	0	%100
92	M106	Z	-.476	-.476	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	M5	Y	-29.322	-19.076	0	.162
2	M5	Y	-19.076	-13.294	.162	.325
3	M5	Y	-13.294	-27.433	.325	.487
4	M5	Y	-27.433	-25.644	.487	.649
5	M5	Y	-25.644	-.358	.649	.812
6	M7	Y	-1.181	-5.396	0	1.025
7	M7	Y	-5.396	-9.238	1.025	2.05
8	M7	Y	-9.238	-14.68	2.05	3.075
9	M7	Y	-14.68	-17.067	3.075	4.1
10	M7	Y	-17.067	-14.429	4.1	5.125
11	M50	Y	-.092	-3.375	6.25	7.5
12	M50	Y	-3.375	-7.796	7.5	8.75
13	M50	Y	-7.796	-12.031	8.75	10
14	M50	Y	-12.031	-7.148	10	11.25
15	M50	Y	-7.148	-.092	11.25	12.5
16	M76C	Y	-1.646	-1.646	.106	.5
17	M76D	Y	-2.071	-30.286	0	.204
18	M76D	Y	-30.286	-28.132	.204	.409
19	M76D	Y	-28.132	-2.071	.409	.613
20	M80	Y	-21.112	-15.731	0	.138
21	M80	Y	-15.731	-22.203	.138	.276
22	M80	Y	-22.203	-22.75	.276	.414
23	M80	Y	-22.75	-5.519	.414	.552
24	M50	Y	-.054	-4.881	0	1.5
25	M50	Y	-4.881	-13.54	1.5	3
26	M50	Y	-13.54	-17.471	3	4.5
27	M50	Y	-17.471	-8.539	4.5	6
28	M50	Y	-8.539	-.054	6	7.5
29	F	Y	-.119	-9.451	5	6.5
30	F	Y	-9.451	-15.591	6.5	8
31	F	Y	-15.591	-10.979	8	9.5
32	F	Y	-10.979	-5.432	9.5	11
33	F	Y	-5.432	-.119	11	12.5
34	M89	Y	-8.05	-8.05	.139	.425
35	M90	Y	-3.1	-3.1	0	.548
36	F	Y	-.239	-3.895	0	1.25
37	F	Y	-3.895	-9.6	1.25	2.5
38	F	Y	-9.6	-15.612	2.5	3.75
39	F	Y	-15.612	-17.184	3.75	5
40	F	Y	-17.184	-12.4	5	6.25
41	M68	Y	-.04	-8.938	5	6.5
42	M68	Y	-8.938	-16.524	6.5	8
43	M68	Y	-16.524	-11.651	8	9.5
44	M68	Y	-11.651	-4.266	9.5	11
45	M68	Y	-4.266	-.04	11	12.5
46	M97	Y	-4.048	-4.048	0	.552
47	M98	Y	-6.682	-4.048	0	.552

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	M1	Y	-3.667	-3.667	1.121	5.528
2	M5	Y	-.344	-.344	0	.812
3	M76C	Y	-.344	-.344	0	.5
4	M76D	Y	-.344	-.344	0	.613
5	M80	Y	-.344	-.344	0	.552
6	M83	Y	-.344	-.344	0	.552

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
7	M98A	Y	-2.75	-2.75	0	1.814
8	M103	Y	0	0	0	.066
9	M106A	Y	0	0	0	.066
10	M2	Y	-3.667	-3.667	1.116	5.528
11	M77B	Y	-.344	-.344	.82	.833
12	M75B	Y	-.344	-.344	0	.438
13	M96	Y	-.344	-.344	0	.812
14	M97	Y	-.344	-.344	0	.552
15	M98	Y	-.344	-.344	0	.552
16	M117	Y	0	0	.028	.029
17	M122	Y	0	0	.014	.024
18	M99	Y	0	0	0	.066
19	M106	Y	-2.75	-2.75	0	1.814
20	M104	Y	0	0	0	.066
21	M112	Y	0	0	0	.25
22	M3	Y	-3.667	-3.667	1.121	5.528
23	M75	Y	-.344	-.344	0	.5
24	M75A	Y	-.344	-.344	0	.5
25	M88	Y	-.344	-.344	0	.812
26	M89	Y	-.344	-.344	0	.552
27	M90	Y	-.344	-.344	0	.552
28	M100	Y	0	0	0	.066
29	M105	Y	-2.75	-2.75	0	1.814
30	M105A	Y	0	0	0	.066

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	M5	Y	-.035	-.102	0	.406
2	M5	Y	-.102	-.169	.406	.812
3	M7	Y	-.016	-.214	0	1.025
4	M7	Y	-.214	-.307	1.025	2.05
5	M7	Y	-.307	-.282	2.05	3.075
6	M7	Y	-.282	-.194	3.075	4.1
7	M7	Y	-.194	-.016	4.1	5.125
8	M50	Y	-.002	-.113	6.25	7.5
9	M50	Y	-.113	-.271	7.5	8.75
10	M50	Y	-.271	-.266	8.75	10
11	M50	Y	-.266	-.098	10	11.25
12	M50	Y	-.098	-.002	11.25	12.5
13	M68	Y	-.003	-.118	0	1.25
14	M68	Y	-.118	-.305	1.25	2.5
15	M68	Y	-.305	-.27	2.5	3.75
16	M68	Y	-.27	-.096	3.75	5
17	M68	Y	-.096	-.003	5	6.25
18	M76C	Y	-.025	-.118	0	.5
19	M76D	Y	-.019	-.118	0	.613
20	M78	Y	-.95	-.95	0	.042
21	M80	Y	-.088	-.088	0	.552
22	M82	Y	-.926	-.926	0	.042
23	M83	Y	-.655	-.655	.139	.183
24	M50	Y	-.003	-.11	0	1.25
25	M50	Y	-.11	-.275	1.25	2.5
26	M50	Y	-.275	-.273	2.5	3.75
27	M50	Y	-.273	-.124	3.75	5
28	M50	Y	-.124	-.003	5	6.25
29	F	Y	-.004	-.106	6.25	7.5

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, %]
30	F	Y	-.106	-.266	7.5	8.75
31	F	Y	-.266	-.277	8.75	10
32	F	Y	-.277	-.095	10	11.25
33	F	Y	-.095	-.004	11.25	12.5
34	M75	Y	-.016	-.106	0	.5
35	M75A	Y	-.027	-.106	0	.5
36	M85	Y	-.527	-.527	0	.042
37	M87	Y	-1.62	-1.62	0	.042
38	M88	Y	-.09	-.09	0	.812
39	M89	Y	-.107	-.107	0	.473
40	M90	Y	-.315	-.315	.151	.276
41	M114	Y	-.044	-.182	0	1.025
42	M114	Y	-.182	-.305	1.025	2.05
43	M114	Y	-.305	-.321	2.05	3.075
44	M114	Y	-.321	-.186	3.075	4.1
45	M114	Y	-.186	-.014	4.1	5.125
46	F	Y	-.002	-.096	0	1.25
47	F	Y	-.096	-.304	1.25	2.5
48	F	Y	-.304	-.294	2.5	3.75
49	F	Y	-.294	-.097	3.75	5
50	F	Y	-.097	-.002	5	6.25
51	M68	Y	-.002	-.115	6.25	7.5
52	M68	Y	-.115	-.29	7.5	8.75
53	M68	Y	-.29	-.274	8.75	10
54	M68	Y	-.274	-.089	10	11.25
55	M68	Y	-.089	-.002	11.25	12.5
56	M76B	Y	-.05	-.05	0	.5
57	M75B	Y	-.042	-.042	.053	.438
58	M93	Y	-.702	-.702	0	.042
59	M95	Y	-1.567	-1.567	0	.042
60	M96	Y	-.091	-.091	0	.812
61	M97	Y	-.067	-.091	0	.552
62	M98	Y	-.046	-.046	0	.552
63	M122	Y	-.208	-.208	0	.024
64	M125	Y	-.081	-.206	0	1.025
65	M125	Y	-.206	-.271	1.025	2.05
66	M125	Y	-.271	-.287	2.05	3.075
67	M125	Y	-.287	-.206	3.075	4.1
68	M125	Y	-.206	-.018	4.1	5.125

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	M5	Z	-.088	-.255	0	.406
2	M5	Z	-.255	-.423	.406	.812
3	M7	Z	-.04	-.536	0	1.025
4	M7	Z	-.536	-.767	1.025	2.05
5	M7	Z	-.767	-.706	2.05	3.075
6	M7	Z	-.706	-.484	3.075	4.1
7	M7	Z	-.484	-.04	4.1	5.125
8	M50	Z	-.006	-.283	6.25	7.5
9	M50	Z	-.283	-.676	7.5	8.75
10	M50	Z	-.676	-.666	8.75	10
11	M50	Z	-.666	-.244	10	11.25
12	M50	Z	-.244	-.006	11.25	12.5
13	M68	Z	-.006	-.294	0	1.25
14	M68	Z	-.294	-.762	1.25	2.5

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	M68	Z	-.762	-.676	2.5	3.75
16	M68	Z	-.676	-.24	3.75	5
17	M68	Z	-.24	-.006	5	6.25
18	M76C	Z	-.062	-.294	0	.5
19	M76D	Z	-.048	-.294	0	.613
20	M78	Z	-2.374	-2.374	0	.042
21	M80	Z	-.221	-.221	0	.552
22	M82	Z	-2.316	-2.316	0	.042
23	M83	Z	-1.639	-1.639	.139	.183
24	M50	Z	-.007	-.276	0	1.25
25	M50	Z	-.276	-.688	1.25	2.5
26	M50	Z	-.688	-.683	2.5	3.75
27	M50	Z	-.683	-.309	3.75	5
28	M50	Z	-.309	-.007	5	6.25
29	F	Z	-.011	-.266	6.25	7.5
30	F	Z	-.266	-.664	7.5	8.75
31	F	Z	-.664	-.692	8.75	10
32	F	Z	-.692	-.238	10	11.25
33	F	Z	-.238	-.011	11.25	12.5
34	M75	Z	-.04	-.266	0	.5
35	M75A	Z	-.067	-.266	0	.5
36	M85	Z	-1.317	-1.317	0	.042
37	M87	Z	-4.051	-4.051	0	.042
38	M88	Z	-.224	-.224	0	.812
39	M89	Z	-.268	-.268	0	.473
40	M90	Z	-.788	-.788	.151	.276
41	M114	Z	-.11	-.456	0	1.025
42	M114	Z	-.456	-.761	1.025	2.05
43	M114	Z	-.761	-.802	2.05	3.075
44	M114	Z	-.802	-.465	3.075	4.1
45	M114	Z	-.465	-.036	4.1	5.125
46	F	Z	-.005	-.241	0	1.25
47	F	Z	-.241	-.76	1.25	2.5
48	F	Z	-.76	-.734	2.5	3.75
49	F	Z	-.734	-.242	3.75	5
50	F	Z	-.242	-.005	5	6.25
51	M68	Z	-.005	-.286	6.25	7.5
52	M68	Z	-.286	-.725	7.5	8.75
53	M68	Z	-.725	-.684	8.75	10
54	M68	Z	-.684	-.223	10	11.25
55	M68	Z	-.223	-.005	11.25	12.5
56	M76B	Z	-.126	-.126	0	.5
57	M75B	Z	-.105	-.105	.053	.438
58	M93	Z	-1.756	-1.756	0	.042
59	M95	Z	-3.917	-3.917	0	.042
60	M96	Z	-.228	-.228	0	.812
61	M97	Z	-.167	-.228	0	.552
62	M98	Z	-.115	-.115	0	.552
63	M122	Z	-.52	-.52	0	.024
64	M125	Z	-.204	-.514	0	1.025
65	M125	Z	-.514	-.678	1.025	2.05
66	M125	Z	-.678	-.719	2.05	3.075
67	M125	Z	-.719	-.515	3.075	4.1
68	M125	Z	-.515	-.045	4.1	5.125

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

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, %]
1	M5	X	.088	.255	0	.406
2	M5	X	.255	.423	.406	.812
3	M7	X	.04	.536	0	1.025
4	M7	X	.536	.767	1.025	2.05
5	M7	X	.767	.706	2.05	3.075
6	M7	X	.706	.484	3.075	4.1
7	M7	X	.484	.04	4.1	5.125
8	M50	X	.006	.283	6.25	7.5
9	M50	X	.283	.676	7.5	8.75
10	M50	X	.676	.666	8.75	10
11	M50	X	.666	.244	10	11.25
12	M50	X	.244	.006	11.25	12.5
13	M68	X	.006	.294	0	1.25
14	M68	X	.294	.762	1.25	2.5
15	M68	X	.762	.676	2.5	3.75
16	M68	X	.676	.24	3.75	5
17	M68	X	.24	.006	5	6.25
18	M76C	X	.062	.294	0	.5
19	M76D	X	.048	.294	0	.613
20	M78	X	2.374	2.374	0	.042
21	M80	X	.221	.221	0	.552
22	M82	X	2.316	2.316	0	.042
23	M83	X	1.639	1.639	.139	.183
24	M50	X	.007	.276	0	1.25
25	M50	X	.276	.688	1.25	2.5
26	M50	X	.688	.683	2.5	3.75
27	M50	X	.683	.309	3.75	5
28	M50	X	.309	.007	5	6.25
29	F	X	.011	.266	6.25	7.5
30	F	X	.266	.664	7.5	8.75
31	F	X	.664	.692	8.75	10
32	F	X	.692	.238	10	11.25
33	F	X	.238	.011	11.25	12.5
34	M75	X	.04	.266	0	.5
35	M75A	X	.067	.266	0	.5
36	M85	X	1.317	1.317	0	.042
37	M87	X	4.051	4.051	0	.042
38	M88	X	.224	.224	0	.812
39	M89	X	.268	.268	0	.473
40	M90	X	.788	.788	.151	.276
41	M114	X	.11	.456	0	1.025
42	M114	X	.456	.761	1.025	2.05
43	M114	X	.761	.802	2.05	3.075
44	M114	X	.802	.465	3.075	4.1
45	M114	X	.465	.036	4.1	5.125
46	F	X	.005	.241	0	1.25
47	F	X	.241	.76	1.25	2.5
48	F	X	.76	.734	2.5	3.75
49	F	X	.734	.242	3.75	5
50	F	X	.242	.005	5	6.25
51	M68	X	.005	.286	6.25	7.5
52	M68	X	.286	.725	7.5	8.75
53	M68	X	.725	.684	8.75	10
54	M68	X	.684	.223	10	11.25
55	M68	X	.223	.005	11.25	12.5
56	M76B	X	.126	.126	0	.5
57	M75B	X	.105	.105	.053	.438

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,%]
58	M93	X	1.756	1.756	0	.042
59	M95	X	3.917	3.917	0	.042
60	M96	X	.228	.228	0	.812
61	M97	X	.167	.228	0	.552
62	M98	X	.115	.115	0	.552
63	M122	X	.52	.52	0	.024
64	M125	X	.204	.514	0	1.025
65	M125	X	.514	.678	1.025	2.05
66	M125	X	.678	.719	2.05	3.075
67	M125	X	.719	.515	3.075	4.1
68	M125	X	.515	.045	4.1	5.125

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N146C	N160	N153	N148B	Y	A-B	-.009
2	N146B	N150	N163	N171	Y	A-B	-.009
3	N148A	N144C	N175	N183	Y	A-B	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N160	N146C	N148B	N153	Y	Open Structure	-.011
2	N185	N175	N183	N148A	Y	Open Structure	-.011
3	N146B	N150	N163	N171	Y	Open Structure	-.011

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N146C	N160	N153	N148B	Y	Two Way	-.000222
2	N146B	N150	N163	N171	Y	Two Way	-.000222
3	N148A	N144C	N175	N183	Y	Two Way	-.000222

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N146C	N160	N153	N148B	Z	Two Way	-.000555
2	N146B	N150	N163	N171	Z	Two Way	-.000555
3	N148A	N144C	N175	N183	Z	Two Way	-.000555

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N146C	N160	N153	N148B	X	Two Way	.000555
2	N146B	N150	N163	N171	X	Two Way	.000555
3	N148A	N144C	N175	N183	X	Two Way	.000555

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	N1	max	1517.706	10	2327.504	13	722.01	1	3.213	13	1.745	4	.695	4
2		min	-1531.016	4	233.742	7	-1291.946	7	-.275	7	-1.739	10	-.63	10
3	N3	max	1125.588	11	2494.373	17	1757.246	1	.377	12	1.95	8	3.335	41
4		min	-616.693	5	351.728	11	-1470.331	7	-2.175	42	-1.953	2	.048	11
5	N5	max	890.365	11	2335.159	21	1378.502	12	.274	2	1.728	12	.246	3
6		min	-1386.66	5	220.081	3	-1095.574	6	-1.692	20	-1.743	6	-2.809	21
7	Totals:	max	3445.648	10	6420.139	19	3649.291	1						
8		min	-3445.652	4	2309.086	64	-3649.293	7						

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

	Member	Shape	Code Ch...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [L...	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	F	C6X8.2	.492	5.99	7	.085	.781	y	38	6897.855	77436	2.108	12.477	1...	H1-1a
2	M68	C6X8.2	.480	5.99	3	.061	9.375	y	2	6897.855	77436	2.108	12.301	1...	H1-1a
3	M50	C6X8.2	.463	5.99	11	.061	5.859	y	19	6897.855	77436	2.108	12.485	1...	H1-1a
4	M5	PL3/8x5	.457	.406	8	.078	.406	y	1	39664.891	60750	.475	6.328	1...	H1-1b
5	M96	PL3/8x5	.447	.406	12	.137	.406	y	40	39664.891	60750	.475	6.328	1...	H1-1b
6	M88	PL3/8x5	.446	.406	4	.086	0	y	8	39664.891	60750	.475	6.328	1...	H1-1b
7	M2	HSS4X4X3	.413	0	39	.150	0	z	8	74075.913	83592	9.909	9.909	3...	H1-1b
8	M1	HSS4X4X3	.371	0	3	.149	0	z	4	74075.913	83592	9.909	9.909	3...	H1-1b
9	M3	HSS4X4X3	.367	0	11	.145	0	z	6	74075.913	83592	9.909	9.909	3...	H1-1b
10	M83	PL3/8x5	.239	.42	8	.090	.552	y	10	49885.783	60750	.475	6.328	1...	H1-1b
11	M125	C6X8.2	.236	2.562	16	.072	2.562	y	5	38740.207	77436	2.108	13.932	1...	H1-1b
12	M106	L3X3X3	.236	0	7	.026	0	y	7	27666.4	35316	1.32	2.905	2...	H2-1
13	M98	PL3/8x5	.236	.42	1	.089	.552	y	2	49885.783	60750	.475	6.328	2...	H1-1b
14	M114	C6X8.2	.233	2.509	21	.087	2.509	y	9	38740.207	77436	2.108	13.932	1...	H1-1b
15	M90	PL3/8x5	.233	.42	4	.098	.552	y	6	49885.783	60750	.475	6.328	1...	H1-1b
16	M7	C6X8.2	.223	2.509	13	.087	2.509	y	1	38740.207	77436	2.108	13.932	1...	H1-1b
17	M98A	L3X3X3	.221	0	3	.024	0	y	3	27666.4	35316	1.32	2.905	2...	H2-1
18	M89	PL3/8x5	.220	.42	2	.095	.42	y	6	49885.783	60750	.475	6.328	1...	H1-1b
19	M105	L3X3X3	.217	0	5	.023	.019	y	12	27666.4	35316	1.32	2.833	2...	H2-1
20	MP2B	PIPE 2.5	.211	4.167	1	.066	4.167		12	30038.461	50715	3.596	3.596	1.8	H1-1b
21	MP2C	PIPE 2.5	.211	4.167	6	.065	4.167		4	30038.461	50715	3.596	3.596	1...	H1-1b
22	MP3C	PIPE 2.0X	.205	4.156	1	.063	4.156		2	23929.137	44100	2.531	2.531	2...	H1-1b
23	M80	PL3/8x5	.204	.42	6	.094	.552	y	4	49885.783	60750	.475	6.328	1...	H1-1b
24	M97	PL3/8x5	.203	.42	10	.086	.552	y	8	49885.783	60750	.475	6.328	1...	H1-1b
25	MP4C	PIPE 2.0	.202	5.104	1	.068	5.104		1	12830.416	32130	1.872	1.872	1...	H1-1b
26	MP2A	PIPE 2.5	.201	4.167	9	.069	4.167		8	30038.461	50715	3.596	3.596	1...	H1-1b
27	MP3A	PIPE 2.0X	.199	4.156	5	.062	4.156		6	23929.137	44100	2.531	2.531	2...	H1-1b
28	MP3B	PIPE 2.0X	.198	4.156	9	.061	4.156		10	23929.137	44100	2.531	2.531	1...	H1-1b
29	MP4B	PIPE 2.0	.197	5.104	9	.066	5.104		9	12830.416	32130	1.872	1.872	1...	H1-1b
30	MP4A	PIPE 2.0	.196	5.104	5	.067	2.552		5	12830.416	32130	1.872	1.872	1...	H1-1b
31	M77	PL3/8x5	.191	.121	2	.198	.833	y	41	38787.042	60750	.475	6.328	1...	H1-1b
32	M77A	PL3/8x5	.162	.711	6	.165	0	y	9	38787.042	60750	.475	6.328	1...	H1-1b
33	MP1B	PIPE 2.0	.162	5.104	1	.045	5.104		2	12830.416	32130	1.872	1.872	1...	H1-1b
34	MP1C	PIPE 2.0	.159	5.104	5	.045	5.104		6	12830.416	32130	1.872	1.872	1...	H1-1b
35	M77B	PL3/8x5	.159	.121	10	.180	0	y	41	38787.042	60750	.475	6.328	1...	H1-1b
36	MP1A	PIPE 2.0	.155	5.104	9	.043	5.104		9	12830.416	32130	1.872	1.872	1...	H1-1b
37	M88A	PIPE 2.5	.120	3.125	8	.031	10.677		6	14558.792	50715	3.596	3.596	1.7	H1-1b
38	M93A	PIPE 2.5	.118	3.125	4	.031	10.677		2	14558.792	50715	3.596	3.596	1...	H1-1b
39	M83A	PIPE 2.5	.118	3.125	12	.030	10.677		10	14558.792	50715	3.596	3.596	1...	H1-1b
40	M76A	PIPE 2.0	.107	3.087	6	.013	3.087		6	28661.491	32130	1.872	1.872	2...	H1-1b
41	M75B	PL3/8x5	.094	0	1	.139	.415	y	17	53654.227	60750	.475	6.328	1...	H1-1b
42	M76D	PL3/8x5	.092	.358	4	.141	.358	y	1	47644.932	60750	.475	6.328	1...	H1-1b
43	M76B	PL3/8x5	.091	.354	8	.140	.354	y	5	51678.729	60750	.475	6.328	1...	H1-1b
44	M75	PL3/8x5	.091	.417	9	.137	.417	y	9	51678.729	60750	.475	6.328	1...	H1-1b
45	M75A	PL3/8x5	.090	.354	12	.145	.354	y	9	51678.682	60750	.475	6.328	1...	H1-1b
46	M76C	PL3/8x5	.089	.417	1	.135	.417	y	1	51678.757	60750	.475	6.328	1...	H1-1b

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):

4.1

Required Shear Strength / bolt (kips):

1.0

Tensile Capacity / bolt (kips):

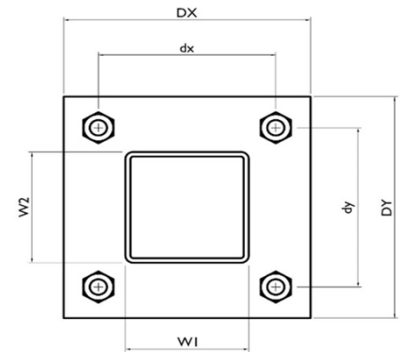
20.7

Shear Capacity / bolt (kips):

12.4

Bolt Overall Utilization:

19.8%



Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:

Rect Tube

Weld Stiffener Configuration:

No Stiffeners

Plate Width, D_x (in):

11.5

Plate Height, D_y (in):

11.5

W_1 (in):

4

W_2 (in):

4

Member Thickness (in):

0.25

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):

0.625

Length of Yield Line, L_y (in):

6.34

Bolt Eccentricity, e (in):

1.65

M_u (kip-in):

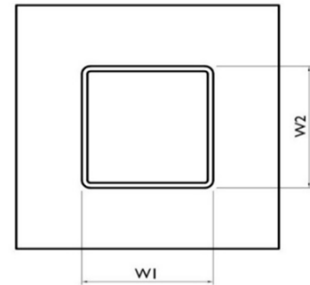
6.75

$\Phi * M_n$ (kip-in):

20.04

Plate Bending Utilization:

33.7%



Tower Connection Weld Checks

Weld Shape:
Weld Stiffener Configuration:
Weld Size (1/16 in):
W1 (in):
W2 (in):
Weld Total Length (in):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in):
 c_y (in):
Required combined strength (kip/in):
Weld Capacity (kip/in):
Weld Utilization:

Yes
Rectangle
None
4
4
4
16.00
21.33
21.33
85.33
2.25
2.25
1.57
5.57
28.3%

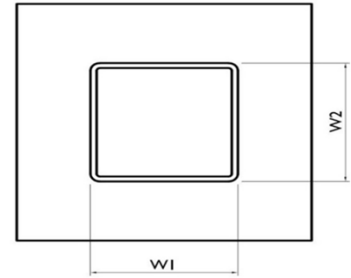


EXHIBIT G

Power Density / RF Emissions Report



FOX HILL TELECOM

Radio Frequency Emissions Analysis Report

Prepared for:



Crown Site ID: 876361_Seymour 2 / Oxford Town Garage

Verizon Wireless Site Name: Oxford W CT

Verizon Wireless FUZE ID: 16272032

Site Address:

20 Great Oak Road

Oxford, CT 06478

April 25, 2024

Fox Hill Telecom Project Number: 240104

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	20.91 %



April 25, 2024

Crown Castle
1800 W. Park Drive
Westborough, MA 01581

Emissions Analysis for:

Crown Castle Site: 876361 – Seymour 2 / Oxford Town Garage

Verizon Wireless Site: Oxford W CT

Fox Hill Telecom, Inc (“Fox Hill”) was directed to analyze the proposed upgrades for Verizon Wireless to the Crown Castle facility located at **20 Great Oak Road, Oxford, CT**, for the purpose of determining whether the emissions from the Proposed Verizon Wireless Antenna Installation, in addition to all existing radio systems located on this property, are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.



General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 MHz band & the 850 MHz cellular band are approximately $497 \mu\text{W}/\text{cm}^2$ and $586 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS), and 3700 MHz C bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report the percentage of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.



CALCULATIONS

Calculations were performed for the proposed upgrades to the Crown Castle facility for Verizon Wireless located at **20 Great Oak Road, Oxford, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65 for far field modeling calculations.

In OET-65, plane wave power densities in the far field of an antenna are calculated by considering antenna gain and reflective waves that would contribute to exposure.

Since the radiation pattern of an antenna has developed in the **far field** region the power gain in specific directions needs to be considered in exposure predictions to yield an Effective Radiated Power (ERP) in each specific direction from the antenna. Also, since the vertical radiation pattern of the antenna is considered, the exposure calculations would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels. To determine a worst-case scenario at each point along the calculation radials, each point was calculated using the antenna gain value at each angle of incident and compared against the result using an isotropic radiator at the antenna height with the greater of the two used to yield the more pessimistic far field value for each point along the calculation radial.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential 1.6 times increase in power density in calculating far field power density values.

With these factors considered, the worst case **far field prediction model** utilized in this analysis is determined by the following equation:

Equation 9 per FCC OET65 for Far Field Modeling

$$S = \frac{33.4 \text{ ERP}}{R^2}$$

S = Power Density (in $\mu\text{w}/\text{cm}^2$)

ERP = Effective Radiated Power from antenna (watts)

R = Distance from the antenna (meters)

Predicted far field power density values for all carriers identified in this report were calculated 6 feet above the ground level and are displayed as a percentage of the applicable FCC standards. All emissions values for other carriers were calculated using the same Far Field model outlined above, using industry standard radio configurations and frequency band selection based upon available licenses in this geographic area for emissions contribution estimates.



For each Verizon Wireless sector, the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
LTE	700 MHz	4	40
LTE / 5G	850 MHz	4	40
LTE	1900 MHz (PCS)	4	40
LTE	2100 MHz (AWS)	4	40
5G	3700 MHz (C Band)	8	40

Table 1: Channel Data Table



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The following **Verizon Wireless** antennas listed in *Table 2 – Antenna Data* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 3700 MHz (C Band) frequency bands. This is based on feedback from Verizon Wireless regarding anticipated antenna selection. Maximum gain values for all antennas are listed in *Table 3 – Verizon Wireless Inventory and Power Data* below.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	JMA MX06FRO660-03	140
A	2	JMA MX06FRO660-03	140
A	3	Samsung MT6413-77A	140
B	1	JMA MX06FRO660-03	140
B	2	JMA MX06FRO660-03	140
B	3	Samsung MT6413-77A	140
C	1	JMA MX06FRO660-03	140
C	2	JMA MX06FRO660-03	140
C	3	Samsung MT6413-77A	140

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.



RESULTS

Per the calculations completed for the proposed Verizon Wireless configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	JMA MX06FRO660-03	700 MHz / 850 MHz	12.25 / 11.85	4	160	2,567.91	2.50
Antenna A2	JMA MX06FRO660-03	1900 MHz (PCS) / 2100 MHz (AWS)	24.35 / 16.05	4	160	25,003.35	1.28
Antenna A3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	2.55
Sector A Composite MPE%							6.33
Antenna B1	JMA MX06FRO660-03	700 MHz / 850 MHz	12.25 / 11.85	4	160	2,567.91	2.50
Antenna B2	JMA MX06FRO660-03	1900 MHz (PCS) / 2100 MHz (AWS)	24.35 / 16.05	4	160	6,298.47	1.28
Antenna B3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	2.55
Sector B Composite MPE%							6.33
Antenna C1	JMA MX06FRO660-03	700 MHz / 850 MHz	12.25 / 11.85	4	160	2,567.91	2.50
Antenna C2	JMA MX06FRO660-03	1900 MHz (PCS) / 2100 MHz (AWS)	24.35 / 16.05	4	160	6,298.47	1.28
Antenna C3	Samsung MT6413-77A	3700 MHz (C Band)	23.15	2	320	66,092.16	2.55
Sector C Composite MPE%							6.33

Table 3: Verizon Wireless Inventory and Power Data table



Table 4: All Carrier MPE Contributions shows all additional identified carriers on site and their emissions contribution estimates, along with the newly calculated maximum Verizon Wireless far field emissions contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas the highest recorded sector value be used for composite site emissions values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three Verizon Wireless sectors have the same configuration yielding the same results for all three sectors. *Table 5* below shows a summary for each Verizon Wireless Sector as well as the composite estimated emissions value for the site.

Site Composite MPE%	
Carrier	MPE %
Verizon Wireless – Max Per Sector Value	6.33 %
T-Mobile	4.29 %
AT&T	7.38 %
Dish Wireless	2.91 %
Site Total MPE %:	20.91 %

Table 4: All Carrier MPE Contributions

Verizon Wireless Sector A Total:	6.33 %
Verizon Wireless Sector B Total:	6.33 %
Verizon Wireless Sector C Total:	6.33 %
Site Total:	20.91 %

Table 5: Site MPE Summary



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Table 6 below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated Verizon sector(s). For this site, all three Verizon Wireless sectors have the same configuration yielding the same results for all three sectors.

Verizon Wireless _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
Verizon Wireless 700 MHz LTE	2	671.52	140	6.81	700 MHz	497	1.37%
Verizon Wireless 850 MHz LTE / 5G	2	612.43	140	6.62	850 MHz	586	1.13%
Verizon Wireless 1900 MHz (PCS) LTE	2	10,890.81	140	6.40	1900 MHz (PCS)	1000	0.64%
Verizon Wireless 2100 MHz (AWS) LTE	2	1,610.87	140	6.40	2100 MHz (AWS)	1000	0.64%
Verizon Wireless 3700 MHz (C Band) 5G	2	33,046.08	140	25.50	3700 MHz (C Band)	1000	2.55%
						Total:	6.33 %

Table 6: Verizon Wireless Maximum Sector MPE Power Values



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the Verizon Wireless facility as well as the site composite emissions estimates value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Verizon Wireless Sector	Power Density Value (%)
Sector A:	6.33 %
Sector B:	6.33 %
Sector C:	6.33 %
Verizon Wireless Maximum Total (per sector):	6.33 %
Site Total:	20.91 %
Site Compliance Status:	COMPLIANT

The estimated composite emissions value for this site, assuming all carriers present, is **20.91 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon the far field calculations performed for all carriers identified in this report.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite estimated values calculated were well within the allowable 100% threshold standard per the federal government.

Scott Heffernan
Principal RF Engineer
Fox Hill Telecom, Inc
Worcester, MA 01609
(978)660-3998

EXHIBIT H

Recipient Mailing Records

Bachi, Jenifer

From: TrackingUpdates@fedex.com
Sent: Tuesday, July 23, 2024 10:50 AM
To: Bachi, Jenifer
Subject: FedEx Shipment 777534069862: Your package has been delivered / FE to 1st Selectman

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Hi. Your package was
delivered Tue, 07/23/2024 at
10:11am.



[OBTAIN PROOF OF DELIVERY](#)

How was your delivery ?



TRACKING NUMBER	<u>777534069852</u>
FROM	KING OF PRUSSIA, PA, US
TO	OXFORD, CT, US
SHIP DATE	Mon 7/22/2024 05:59 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	KING OF PRUSSIA, PA, US
DESTINATION	OXFORD, CT, US
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight



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This report was generated at approximately 9:50 AM CDT 07/23/2024.

Bachi, Jenifer

From: TrackingUpdates@fedex.com
Sent: Tuesday, July 23, 2024 10:50 AM
To: Bachi, Jenifer
Subject: FedEx Shipment 777534098880: Your package has been delivered / 876361 - FE to ZEO

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Hi. Your package was
delivered Tue, 07/23/2024 at
10:11am.



OBTAIN PROOF OF DELIVERY

How was your delivery ?



TRACKING NUMBER	777534098880
FROM	KING OF PRUSSIA, PA, US
TO	OXFORD, CT, US
SHIP DATE	Mon 7/22/2024 05:59 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Pak
ORIGIN	KING OF PRUSSIA, PA, US
DESTINATION	OXFORD, CT, US
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight



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This report was generated at approximately 9:50 AM CDT 07/23/2024.

From: TrackingUpdates@fedex.com
To: [Bachi, Jenifer](#)
Subject: FedEx Shipment 777534124550: Your package has been delivered / 876361 - FE to Property Owner
Date: Tuesday, July 23, 2024 2:05:45 PM

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FedEx



Hi. Your package was
delivered Tue, 07/23/2024 at
1:57pm.



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How was your delivery ?



TRACKING NUMBER	777534124550
FROM	KING OF PRUSSIA, PA, US
TO	MC MURRAY, PA, US
SHIP DATE	Mon 7/22/2024 05:59 PM
PACKAGING TYPE	FedEx Pak
ORIGIN	KING OF PRUSSIA, PA, US
DESTINATION	MC MURRAY, PA, US
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight



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ORIGIN ID: KPDA (610) 635-3221
JENIFER BACHI
CROWN CASTLE
3200 HORIZON DRIVE
SUITE 150
KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 22JUL24
ACTWGT: 2.00 LB
CAD: 104924192/NET4730

BILL SENDER

TO **MELANIE A. BACHMAN, EXEC DIRECTOR**
CONNECTICUT SITING COUNCIL
10 FRANKLIN SQUARE

NEW BRITAIN CT 06051

(860) 827-2935

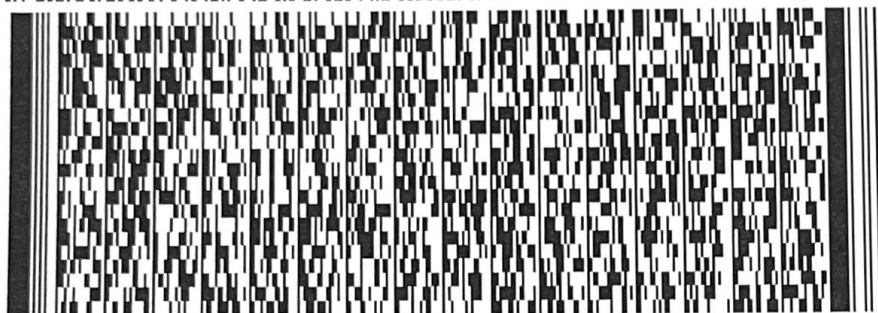
REF: 1766.668

INV:

PO: 876361 VERIZON

DEPT:

583J9/E0E49AE3



FedEx
Express



J243024071301W

TUE - 23 JUL 10:30A

PRIORITY OVERNIGHT

TRK#

0201

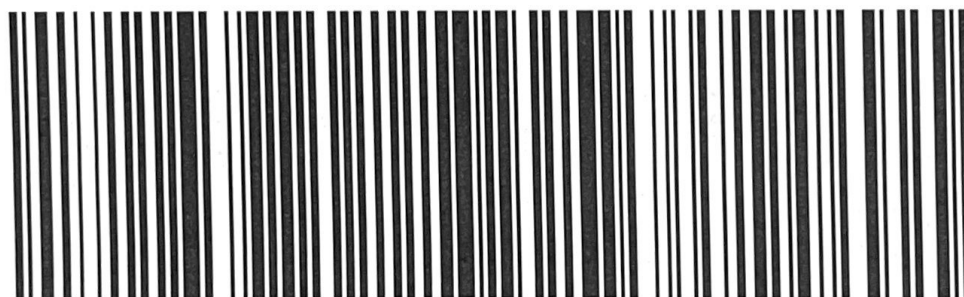
7775 3414 1965

EB BDLA

06051

CT-US

BDL



FedEx Ship Manager - Print Your Label(s)

7/22/24, 8:13 AM

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.