NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Northeast Site Solutions
Denise Sabo
4 Angela's Way, Burlington CT 06013
203-435-3640
denise@northeastsitesolutions.com

October 24, 2021

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Exempt Modification Application
10 Silvia Street, Branford CT 06405
Latitude: 41.2939261
Longitude: -72.7857085
Site#: 822765_ Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 10 Silvia Street, Branford CT 06405. Verizon Wireless currently maintains twelve (12) antennas at the 112-foot level of the existing 125-foot tower. The property is owned by 332 East Main Street LLC, and the tower is owned by Crown Castle. Verizon now intends to replace nine (9) antenna existing antenna with nine (9) new antenna. The new antennas would be installed at the 112-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and **5G** capable.

Verizon Planned Modifications:
Remove: NONE

Remove and Replace:
(3) Nokia UHBA B13 RRH (REMOVE) – (3) Samsung B2/B66A -BRO49 – RFV01U-D1A RRU (REPLACE)
(3) Nokia UHIC B4 RRH (REMOVE) – (3) Samsung B5/B13 -BRO4C – RFV01U-D2A RRU (REPLACE)
(3) LNX 6514DS Antenna (REMOVE) – (3) MX06FR0660 Antenna (REPLACE)
(3) HBXX-6517DS Antenna (REMOVE) – (3) MX06FR0660 Antenna (REPLACE)
(3) LNX6514DS Antenna (REMOVE) – (3) MT6407-77A Antenna (REPLACE)

Install New: NONE

Existing to Remain:
(3) HBXX-6517DS Antenna
(2) Raycap
(2) Hybrid Lines

NORTHEAST SITE SOLUTIONS

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The facility was approved by the Town of Branford Planning and Zoning on November 10, 1998. Please see attached

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies§ 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to The Honorable James B Cosgrove, First Selectman for the Town of Branford, Harry Smith, Town Planner, Crown Castle as the tower owner, and 332 East Main Street LLC the property owner.

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

1. The proposed modifications will not result in an increase in the height of the existing structure.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications 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, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Denise Sabo
Mobile: 203-435-3640
Fax: 413-521-0558
Office: 4 Angela's Way, Burlington CT 06013
Email: denise@northeastsitesolutions.com

NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Attachments
cc: The Honorable James B Cosgrove
Town of Branford – Planning and Zoning
1019 Main Street, Branford CT 06405

Harry Smith, Town Planner
Town of Branford – Planning and Zoning
1019 Main Street, Branford CT 06405

332 East Main Street LLC, Property Owner
375 Fairfield Ave, Bldg 1, Stamford CT 06902

Crown Castle, Tower Owner (via email to Sarah.Snell@crowncastle.com)
SARAH SNELL
1800 W PARK DR
WESTBOROUGH, MA 01581-3926

Exhibit A

Original Facility Approval

Filing Guides
Meetings & Minutes
Public Participation
Audio Link to New Britain Hearing Rooms
Programs & Services
Telecommunications Database
Publications
Other Resources
Statutes & Regulations
Electric Transmission Upgrade Projects
Frequently Asked Questions

Melanie Bachman,
Executive Director

DOCKET NO. 170 - An application of Metro Mobile CTS of Hartford, Inc. for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications facility located at 109 Maple Avenue West in the Higganum section of the Town of Haddam, Connecticut.

Connecticut Siting Council

November 15, 1995

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact, and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a cellular telecommunications tower and equipment building at the proposed prime site in the Higganum section of Haddam, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Bell Atlantic NYNEX Mobile, Inc. for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed prime site, located within an 88.85 acre parcel at 109 Maple Avenue West, Haddam, Connecticut. We find the effects on scenic resources and the environment from the alternate site to be more significant than the effects from the prime site, and therefore deny certification of the alternate site without prejudice.

The facility shall be constructed, operated, and maintained as a monopole substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed communications service and sufficient to accommodate tower sharing, and not to exceed a total height of 120 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include plans for the tower and tower foundation; specifications for the placement of all antennas to be attached to this tower; plans for the equipment building, security fence, emergency generator and fuel tank; plans for the access road and utility line installation from 109 Maple Avenue West; plans for site clearing and tree trimming; and plans for water drainage and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sedimentation Control, as amended.

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

4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.

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

6. If the facility does not initially provide, or permanently ceases to provide, cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapplication for any continued or new use shall be made to the Council before any such use is made.

7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

8. The Certificate Holder shall notify the Council upon completion of construction and provide the final cost to construct the facility.

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

Hartford Courant and the Middletown Press.

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

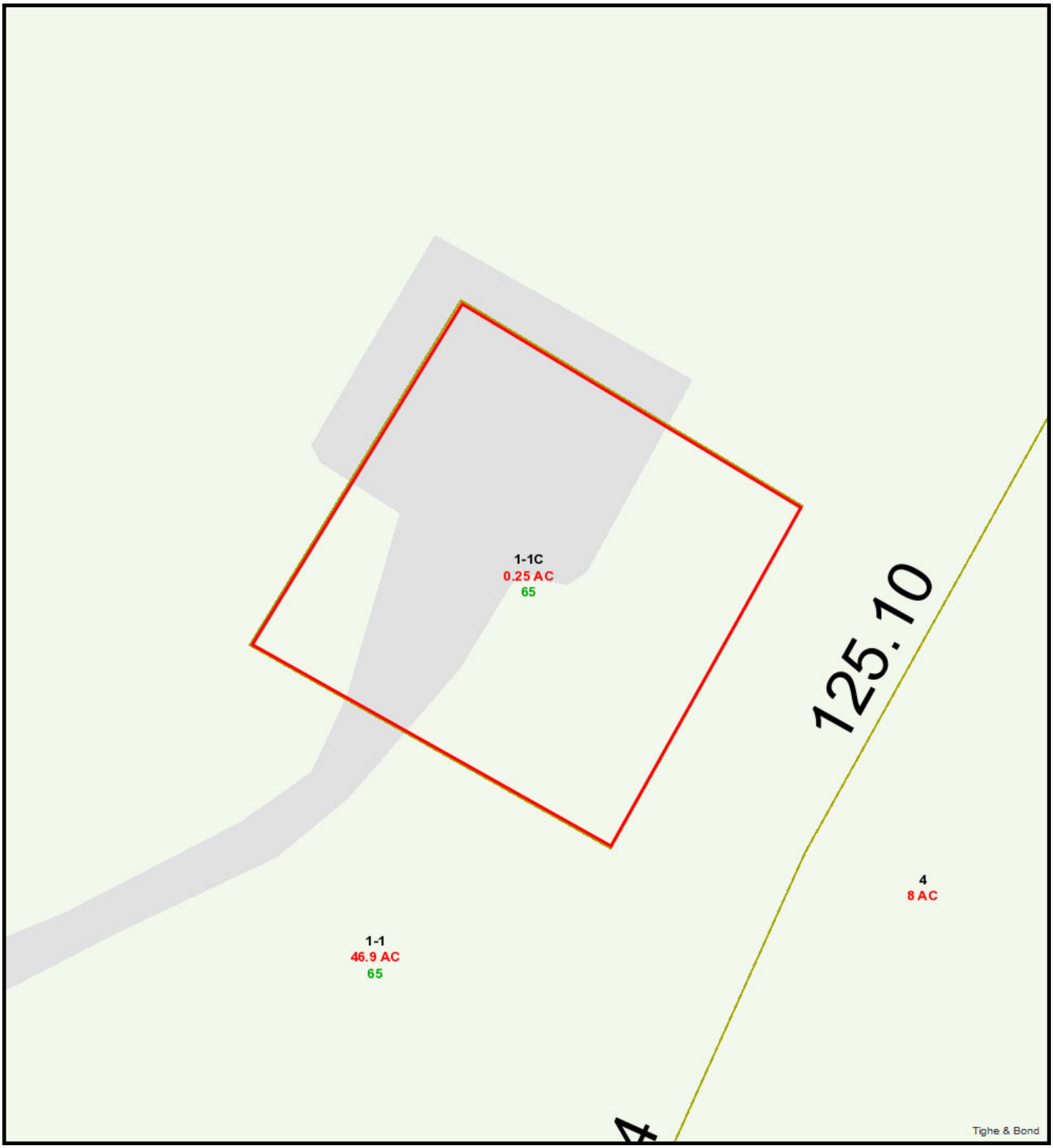
The parties and intervenors to this proceeding are:

APPLICANT	**ITS REPRESENTATIVES**
Bell Atlantic NYNEX Mobile, Inc.	Brian C.S. Freeman, Esq. Kenneth C. Baldwin, Esq. Robinson & Cole One Commercial Plaza Hartford, CT 06103-3597 David S. Malko General Manager - Engineering Sandy M. Ranciato Manager - Regulatory Services Bell Atlantic NYNEX Mobile, Inc. 20 Alexander Drive Wallingford, CT 06492
INTERVENOR	**ITS REPRESENTATIVE**
Town of Haddam	The Honorable Marjorie W. DeBold First Selectman Town of Haddam 30 Field Park Drive Haddam, CT 06438
INTERVENOR	**ITS REPRESENTATIVE**
Springwich Cellular Limited Partnership	Peter J. Tyrrell, Esq. General Counsel - Wireless Springwich Cellular Limited Partnership 500 Enterprise Dr., 4th floor Rocky Hill, CT 06067

Content Last Modified on 8/9/2002 11:34:46 AM

Exhibit B

Property Card



3/16/2021 10:43:10 AM

Scale: 1"=33'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2020.

Information on the Property Records for the Municipality of Haddam was last updated on 3/15/2021.

Parcel Information

Location:	65 MAPLE AVE WEST UNIT C	Property Use:	Vacant Land	Primary Use:	Cell Tower
Unique ID:	MT380800	Map Block Lot:	23 001 1 C	Acres:	1.25
490 Acres:	0.00	Zone:	R-2	Volume / Page:	0336/0559
Developers Map / Lot:		Census:	5901		

Value Information

	Appraised Value	Assessed Value
Land	100,750	70,530
Buildings	0	0
Detached Outbuildings	349,290	244,500
Total	450,040	315,030

Owner's Information

Owner's Data
DAMICO LOUIS W JR + DAMICO ENZO C/O CROWN ATLANTIC CO LLC PMB 3 4017 WASHINGTON RD MCMURRAY, PA 15317

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
8 Ft Chain Fence	2007	0.00	0.00	2,240
Cell Tower	2007	0.00	0.00	1
Building Utility	2007	0.00	0.00	580

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
DAMICO LOUIS W JR + DAMICO ENZO	0336	0559	04/05/2010		No	$0
DAMICO LOUIS W SR + LOUIS W JR	0305	0805	10/10/2006		No	$0
DAMICO LOUIS W & MARJORY C DAMICO FAMILY	0256	0789	01/27/2003		No	$0
DAMICO LOUIS W	0233	1040	12/21/2000		No	$0

Building Permits

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
8980	Unknown	12/05/2007		Closed	MOUNT 2 ANTENNAS ON EXIST TOWE

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER:	467600
VERIZON SITE NAME:	BRANFORD_4_CT - A
SITE TYPE:	MONOPOLE
TOWER HEIGHT:	125'-0"
BUSINESS UNIT #:	822765
SITE ADDRESS:	10 SYLVIA ST. BRANFORD, CT 06405
COUNTY:	NEW HAVEN
JURISDICTION:	TOWN OF BRANFORD

VERIZON 850 ADD 16244652

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	BRANFORD/ I-95/ X55/ DTN1
SITE ADDRESS:	10 SYLVIA ST. BRANFORD, CT 06405
COUNTY:	NEW HAVEN
MAP/PARCEL #:	G05/F05/004/00017
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.293926°
LONGITUDE:	-72.785709°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	154'
CURRENT ZONING:	BL
JURISDICTION:	TOWN OF BRANFORD
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	322 EAST MAIN STREET LLC 375 FAIRFIELD AVE STAMFORD, CT 06902
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 20 ALEXANDER DRIVE, 2ND FLOOR WALLINGFORD, CT 06492
ELECTRIC PROVIDER:	CL&P
TELCO PROVIDER:	NOT PROVIDED

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS marvin.phillips@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	1500 CORPORATE DRIVE CANONSBURG, PA 15317 N/A - PROJECT MANAGER N/A N/A - CONSTRUCTION MANAGER N/A
VERIZON CONTACT:	ANDREW LEONE ALEONE@STRUCTURECONSULTING.NET

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS

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.

APPROVALS

SIGNATURE	DATE

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT	https://pmi.vzwsmart.com
SMART TOOL VENDOR PROJECT NUMBER	10091623
VzW LOCATION CODE (PSLC)	16244652

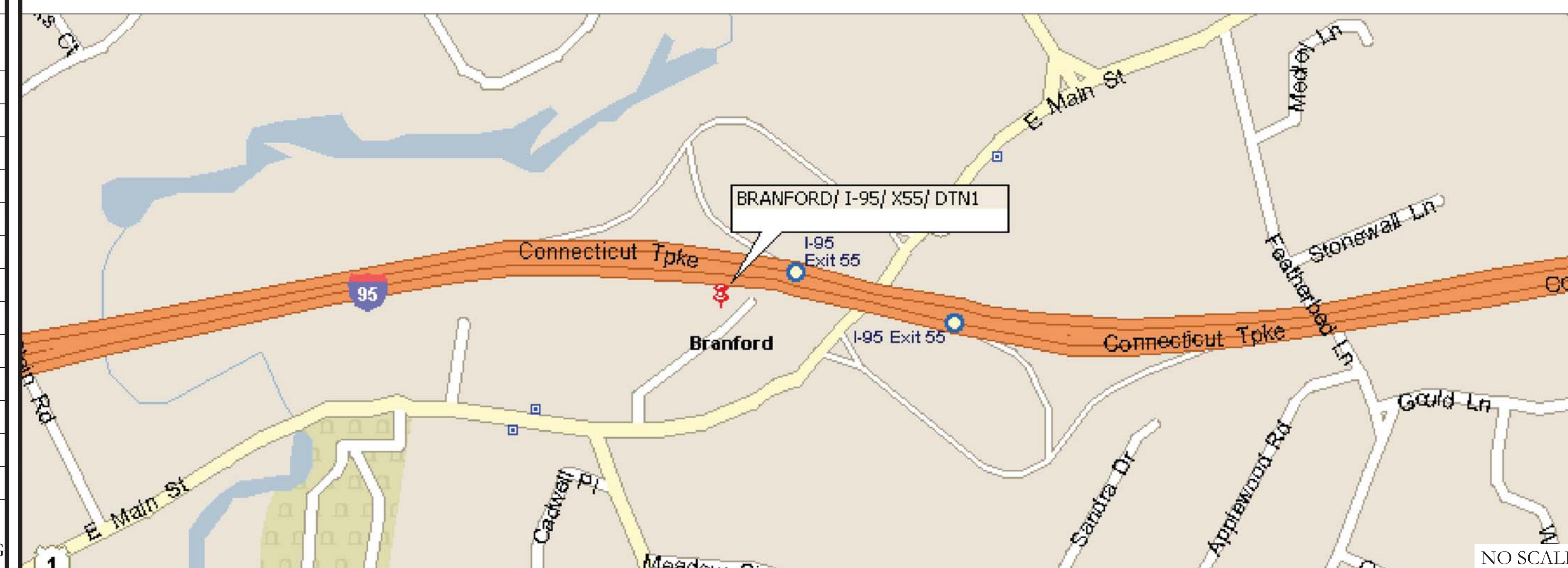
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED	Y

VzW APPROVED SMART KIT VENDORS

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

LOCATION MAP



GET ON I-95 N IN EAST HAVEN FROM BURR ST, CHARTER OAK AVE, MAIN ST AND US-1 N HEAD WEST TURN RIGHT ONTO BURR ST TURN LEFT TO STAY ON BURR ST TURN LEFT ONTO CHARTER OAK AVE TURN LEFT ONTO MAIN ST PASS BY KFC (ON THE LEFT) TURN RIGHT ONTO OAKLEY ST TURN RIGHT ONTO US-1 N USE THE LEFT LANE TO TAKE THE RAMP ONTO I-95 N FOLLOW I-95 N TO US-1 S IN BRANFORD. TAKE EXIT 55 FROM I-95 N MERGE WITH I-95 N TAKE EXIT 55 FOR US-1/EAST MAIN ST TOWARD NORTH BRANFORD FOLLOW US-1 S AND SYLVIA ST TO YOUR DESTINATION TURN LEFT ONTO US-1 S TURN RIGHT ONTO SYLVIA ST TURN LEFT SLIGHT RIGHT DESTINATION WILL BE ON THE RIGHT.

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	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	B+T GROUP
DATED:	AUGUST 11, 2021
MOUNT ANALYSIS:	MASER CONSULTING P.A.
DATED:	AUGUST 10, 2021
RFDS REVISION:	0
DATED:	7/15/21
ORDER ID:	582521
REVISION:	0

CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!

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 (9) ANTENNAS
- REMOVE (6) RADIOS
- INSTALL (9) ANTENNAS
- INSTALL (6) RADIOS
- INSTALL (3) DUAL ANTENNA MOUNTS
- INSTALL MOUNT MODIFICATIONS PER MOUNT ANALYSIS BY MASER CONSULTING DATED AUGUST 10, 2021

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
467600

BU #: **822765**
BRANFORD/ I-95/ X55/ DTN1

10 SYLVIA ST.
BRANFORD, CT 06405

EXISTING 125'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	8/24/21	JJR	CONSTRUCTION	JJR
1	9/27/21	TDG	CONSTRUCTION	TDG

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

SHEET NUMBER:	REVISION:
T-1	1

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 RESCUE 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.

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.

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–POTENTAL 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).

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. VERYIFY 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. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
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 (WIREMOLD 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 WALL 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
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

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

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
467600

BU #: **822765**
BRANFORD/ I-95/ X55/ DTN1

10 SYLVIA ST.
BRANFORD, CT 06405

EXISTING 125'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	8/24/21	JJR	CONSTRUCTION	JJR
1	9/27/21	TDG	CONSTRUCTION	TDG

No. 23924
9/27/21

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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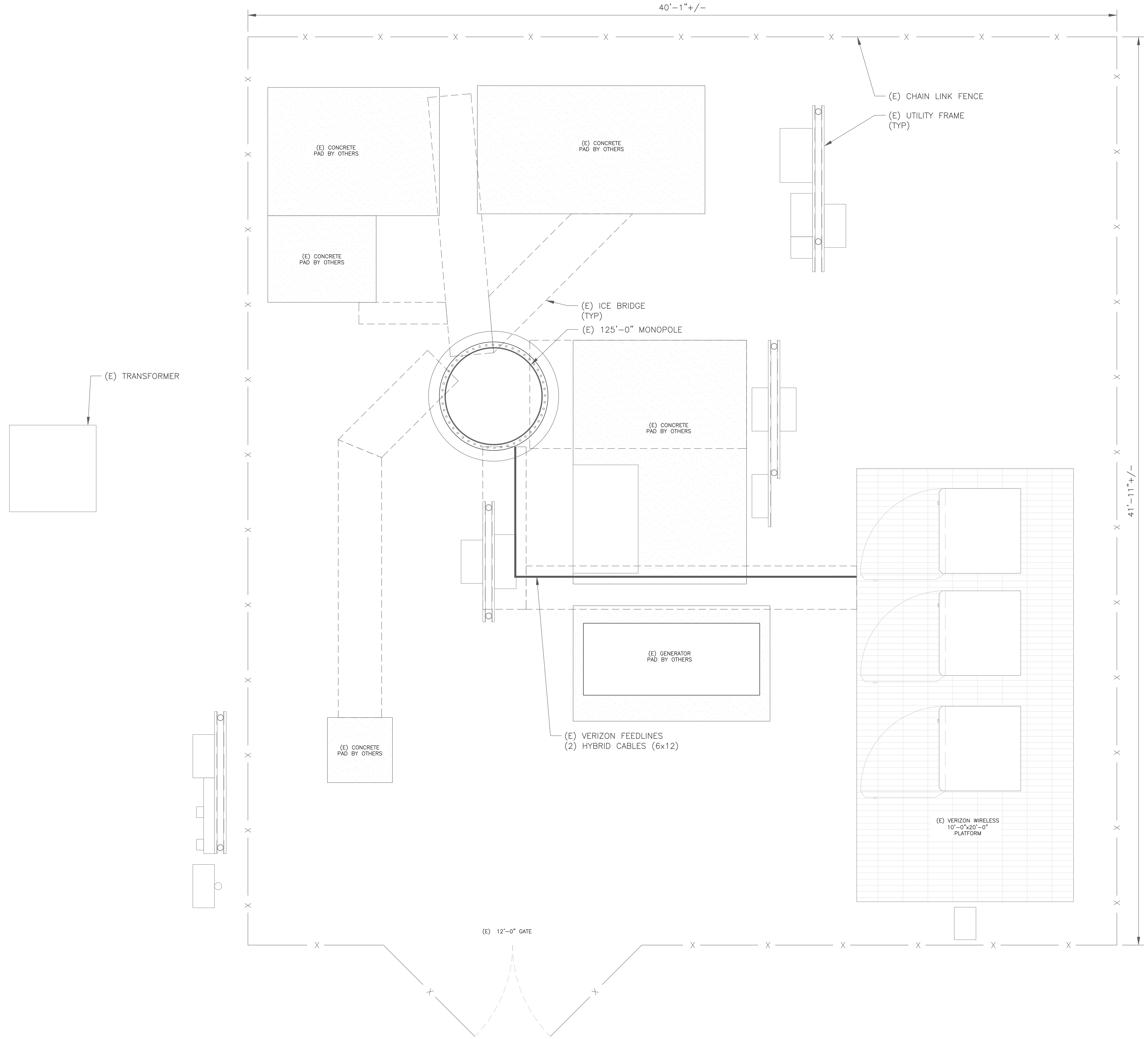
SHEET NUMBER: T-2
REVISION: 1



1 SITE PLAN
SCALE: 3/8"=1'-0" (FULL SIZE) 3/16"=1'-0" (11x17)

N

verizon

180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE

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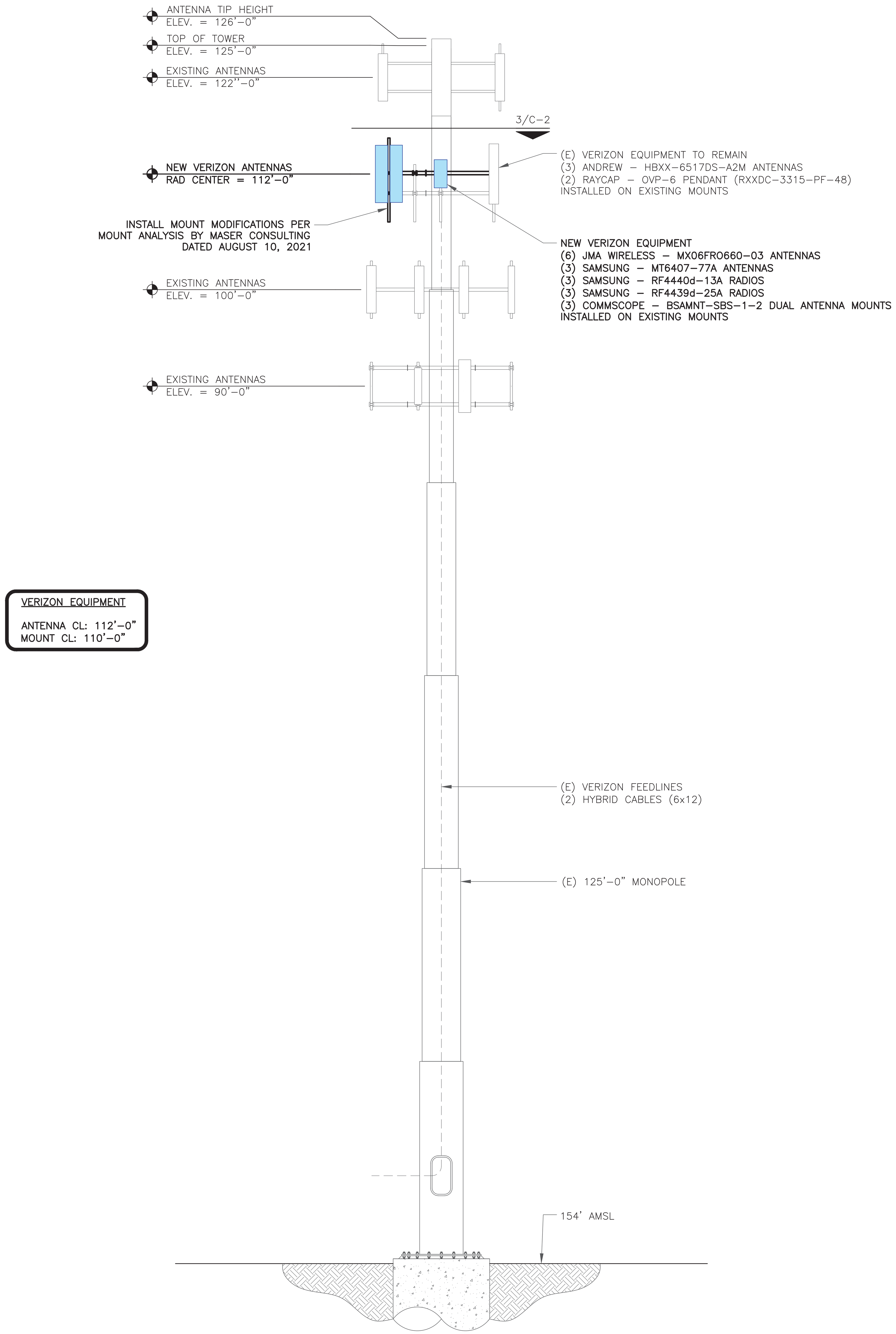
SHEET NUMBER: **C-1**

REVISION: **1**



1 TOWER ELEVATION
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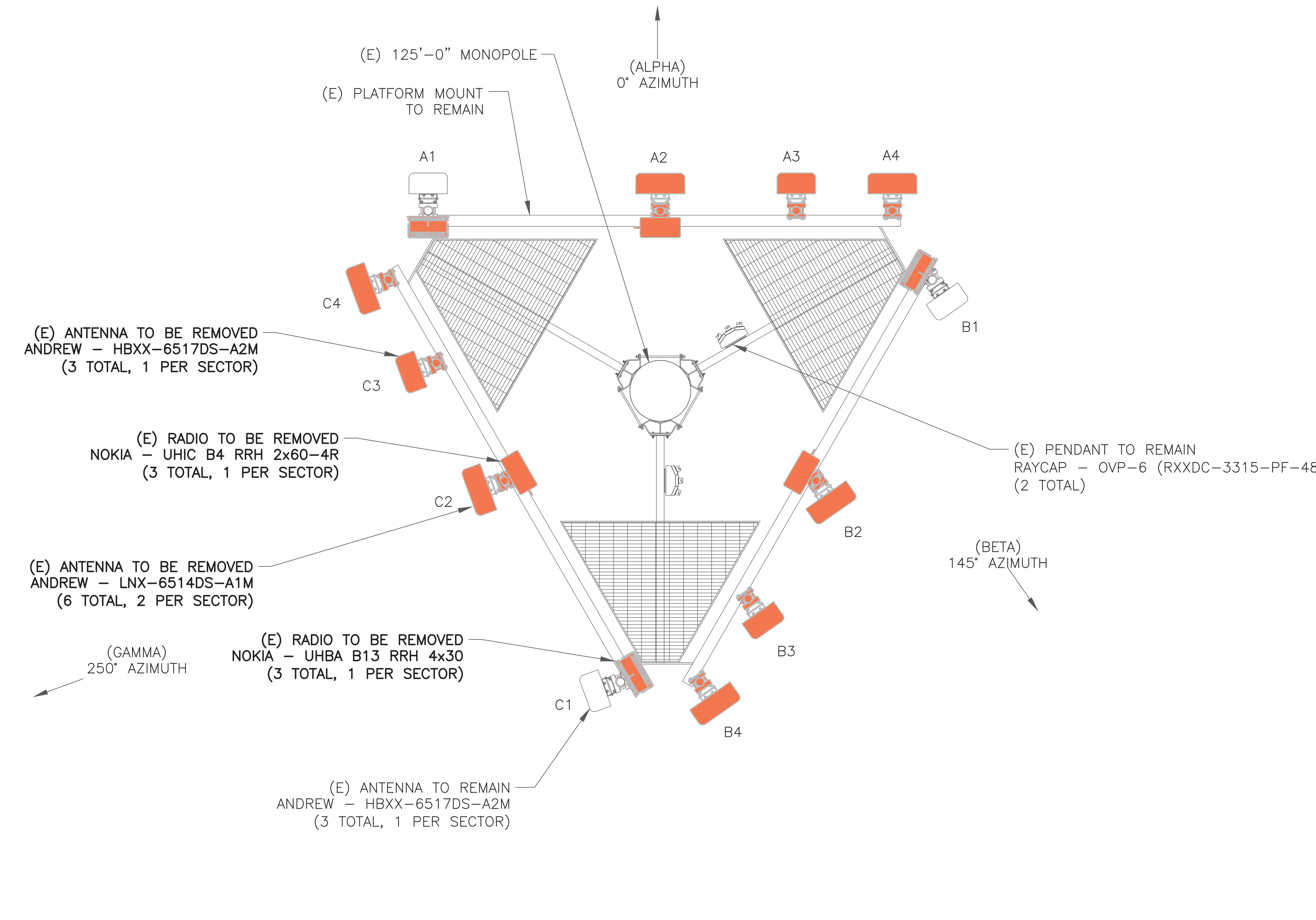
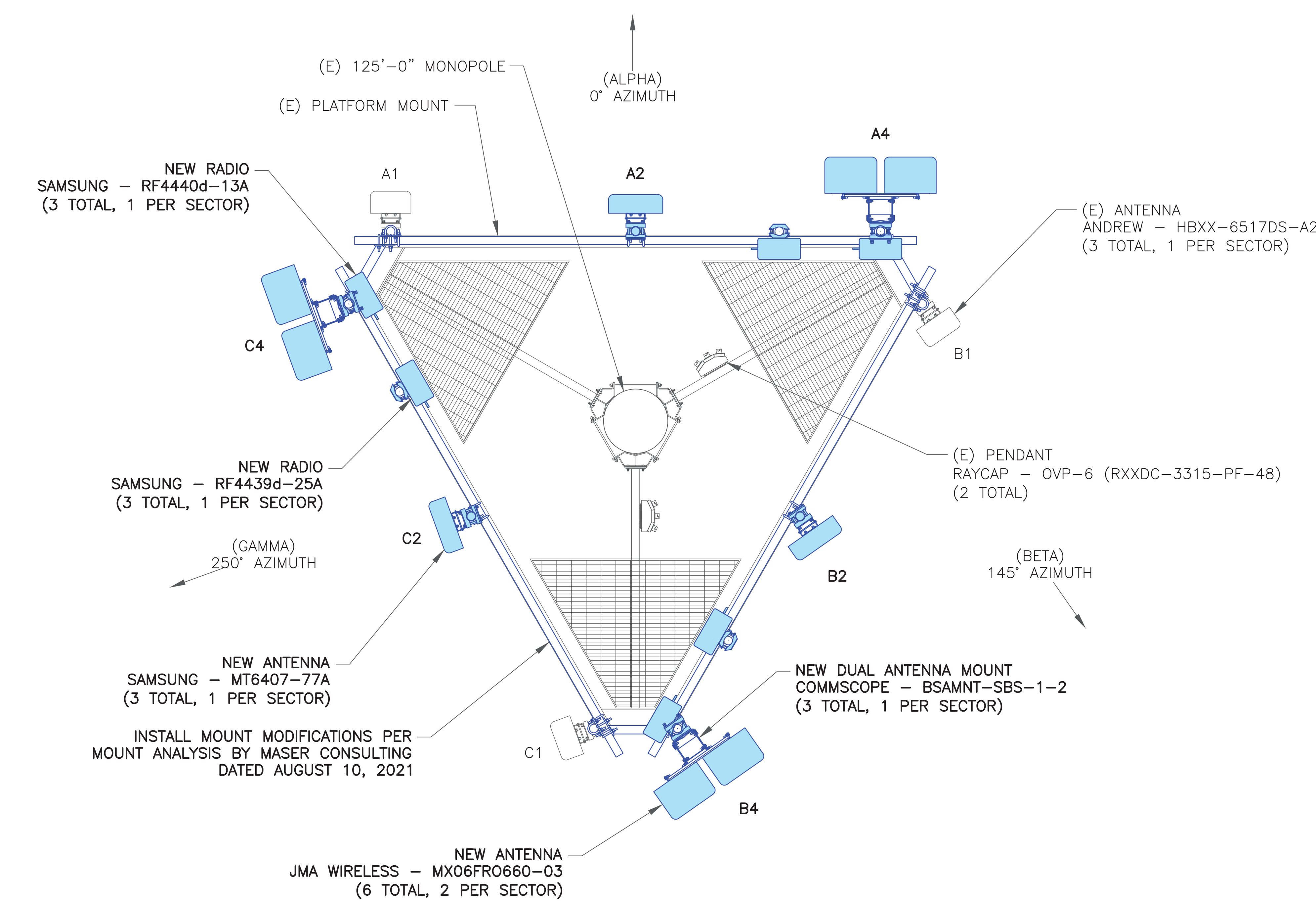


2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

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BU #: **822765**
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BRANFORD, CT 06405

EXISTING 125'-0" MONOPOLE

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SHEET NUMBER:	REVISION:
C-2	1

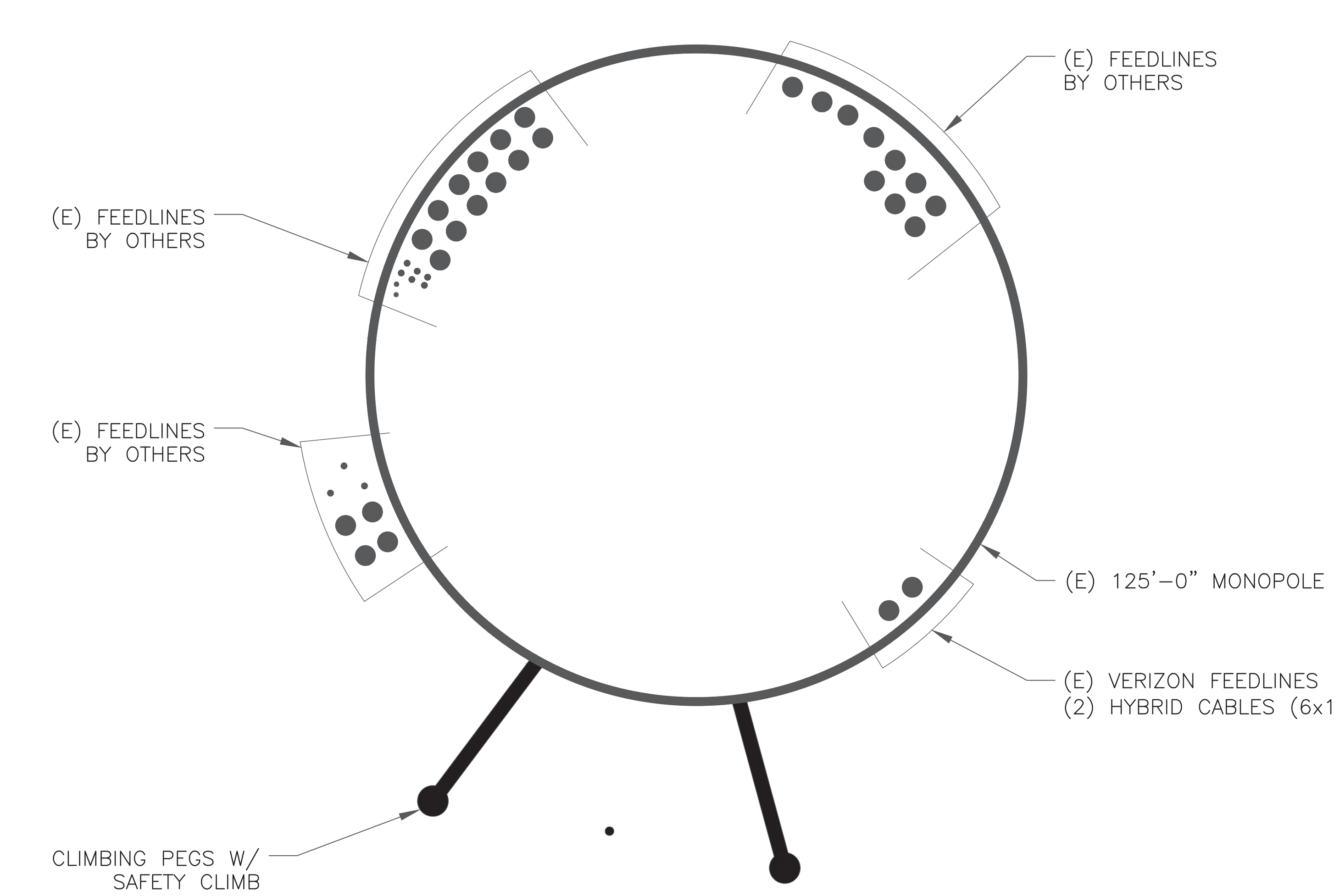
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	EXISTING	ANDREW	HBXX-6517DS-A2M	112'-0"	0°	–	–	–	–
A2	NEW	SAMSUNG	MT6407-77A	112'-0"	0°	0°	6°	RAYCAP	(1) OVP-6 PENDANT (RXXDC-3315-PF-48)
A3	NEW	JMA WIRELESS	MX06FRO660-03	112'-0"	0°	0°	2°/2°/2°	SAMSUNG	(1) RF4440D-13A
A4	NEW	JMA WIRELESS	MX06FRO660-03	112'-0"	0°	0°	2°/2°/2°/2°	SAMSUNG	(1) RF4439D-25A
B1	EXISTING	ANDREW	HBXX-6517DS-A2M	112'-0"	145°	–	–	–	–
B2	NEW	SAMSUNG	MT6407-77A	112'-0"	145°	0°	6°	RAYCAP	(1) OVP-6 PENDANT (RXXDC-3315-PF-48)
B3	NEW	JMA WIRELESS	MX06FRO660-03	112'-0"	145°	0°	2°/2°/2°	SAMSUNG	(1) RF4440D-13A
B4	NEW	JMA WIRELESS	MX06FRO660-03	112'-0"	145°	0°	2°/2°/2°/2°	SAMSUNG	(1) RF4439D-25A
C1	EXISTING	ANDREW	HBXX-6517DS-A2M	112'-0"	250°	–	–	–	–
C2	NEW	SAMSUNG	MT6407-77A	112'-0"	250°	0°	6°	–	–
C3	NEW	JMA WIRELESS	MX06FRO660-03	112'-0"	250°	0°	6°/6°/3°	SAMSUNG	(1) RF4440D-13A
C4	NEW	JMA WIRELESS	MX06FRO660-03	112'-0"	250°	0°	6°/6°/6°/3°	SAMSUNG	(1) RF4439D-25A

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	HYBRID	6x12	162'-0"±	2
TOTAL CABLE QTY:				2



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

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SUITE 300
TULSA, OK 74119
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www.btgrp.com

VERIZON SITE NUMBER:
467600

BU #: **822765**
BRANFORD/ I-95/ X55/ DTN1

10 SYLVIA ST.
BRANFORD, CT 06405

EXISTING 125'-0" MONOPOLE

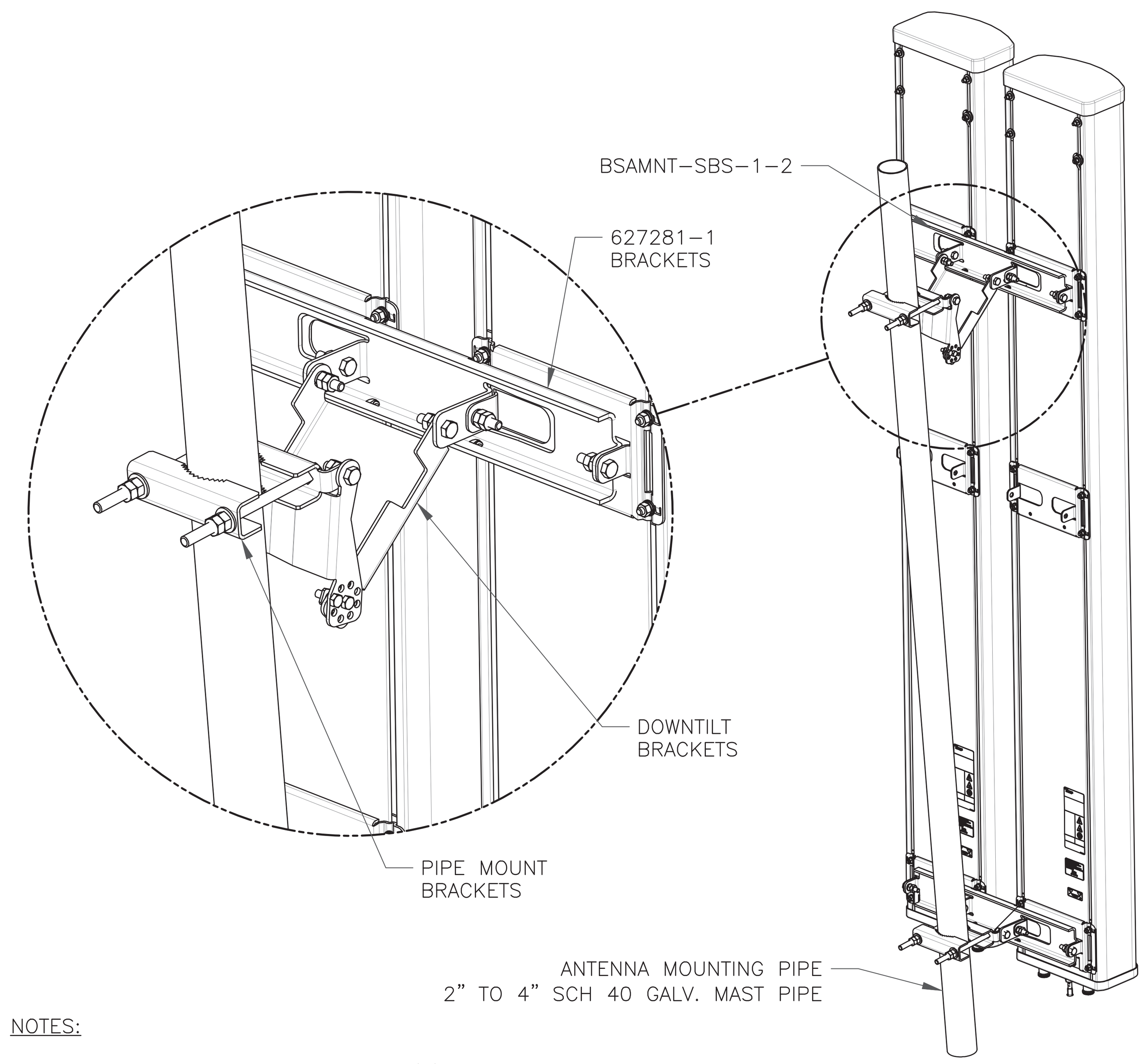
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	8/24/21	JJR	CONSTRUCTION	JJR
1	9/27/21	TDG	CONSTRUCTION	TDG

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
9/27/21

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

SHEET NUMBER:	REVISION:
C-3	1

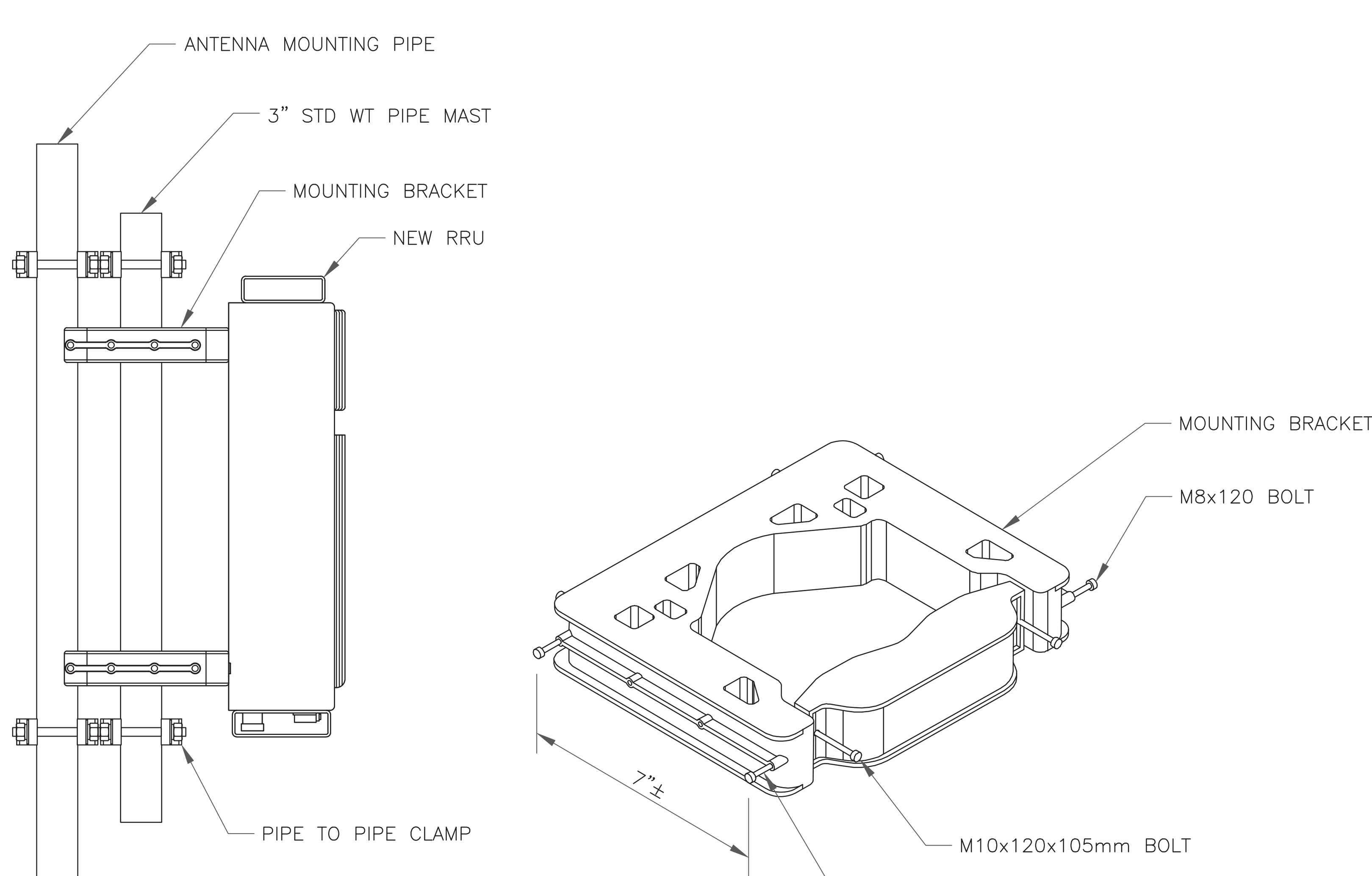


NOTES:

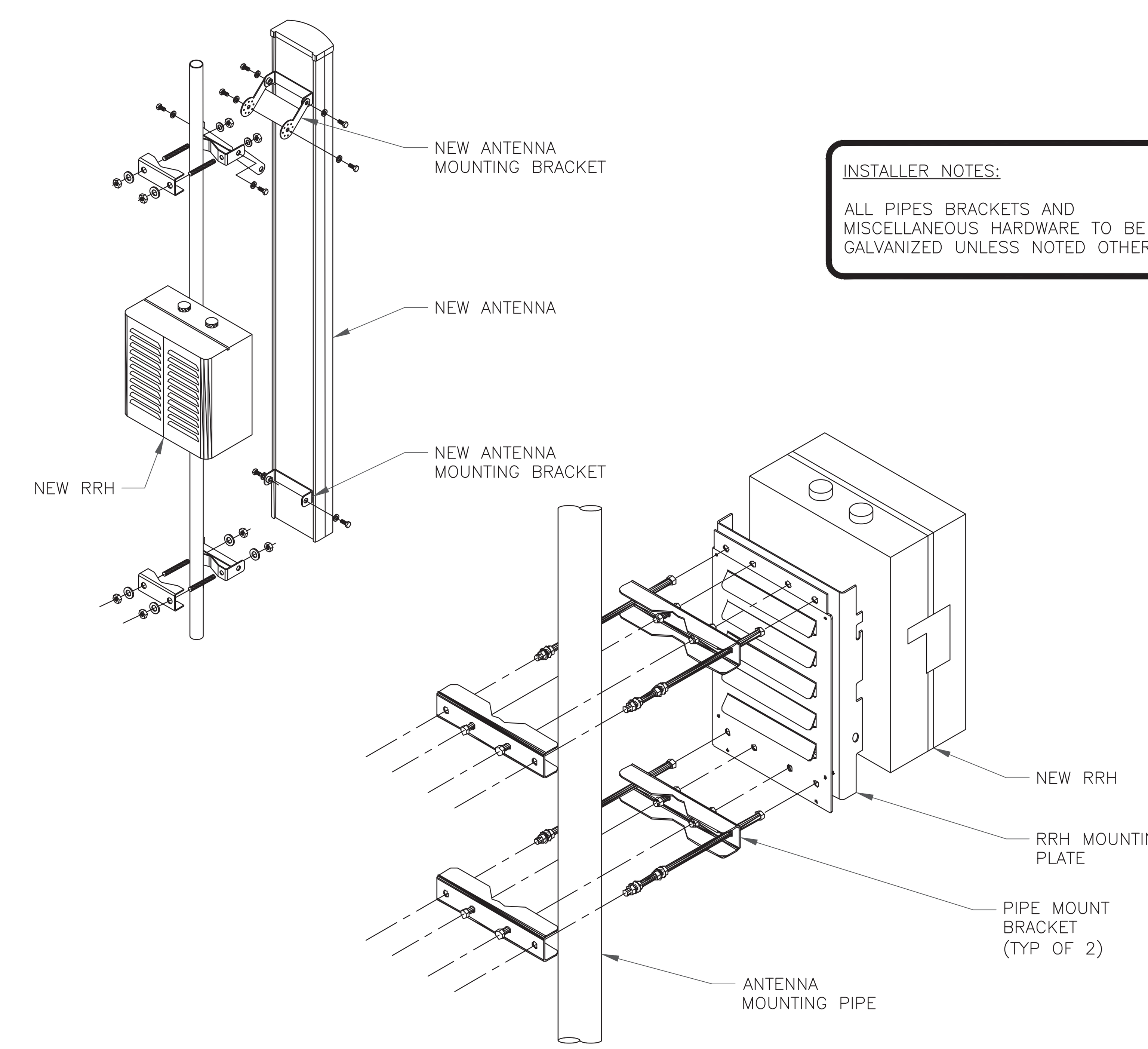
- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

1 COMMSCOPE – BSAMNT-SBS-1-2
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE



3 NOKIA – FPKA BRACKET MOUNTING DETAIL
SCALE: NOT TO SCALE



INSTALLER NOTES:

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

4 ANTENNA & RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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EXISTING 125'-0" MONOPOLE

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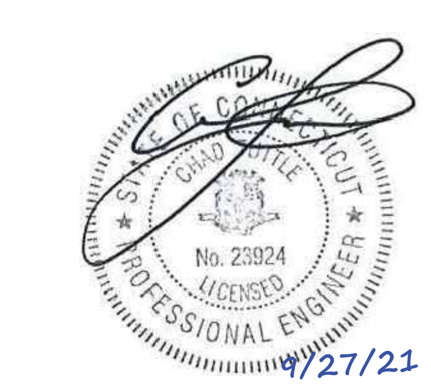
1	9/27/21	TDG	CONSTRUCTION	TDG



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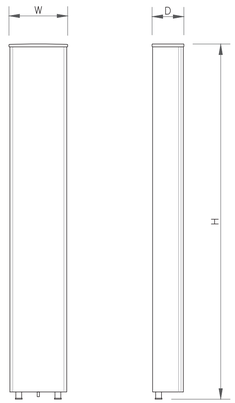
Expires 2/10/22

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.

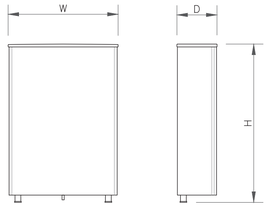
SHEET NUMBER: C-4

REVISION: 1



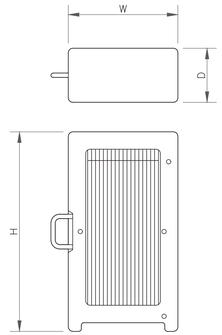
ANTENNA SPECS	
MANUFACTURER	JMA WIRELESS
MODEL #	MX06FRO660-03
WIDTH	15.4"
DEPTH	10.7"
HEIGHT	71.3"
WEIGHT	78 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



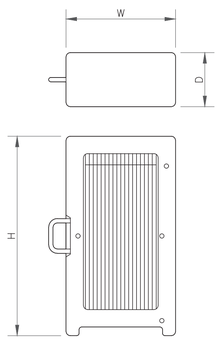
ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

2 ANTENNA SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	RF4440d-13A
WIDTH	14.96"
DEPTH	9.06"
HEIGHT	14.96"
WEIGHT	72.5 LBS

3 RRU SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	RF4439d-25A
WIDTH	14.96"
DEPTH	10.04"
HEIGHT	14.96"
WEIGHT	74.7 LBS

4 RRU SPECS
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
467600

BU #: **822765**
BRANFORD/ I-95/ X55/ DTN1

10 SYLVIA ST.
BRANFORD, CT 06405

EXISTING 125'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	8/24/21	JJR	CONSTRUCTION	JJR
1	9/27/21	TDG	CONSTRUCTION	TDG

STATE OF CONNECTICUT
GREGORY D. GOULET
No. 23824
LICENSED
PROFESSIONAL ENGINEER
9/27/21

B&T ENGINEERING, INC.
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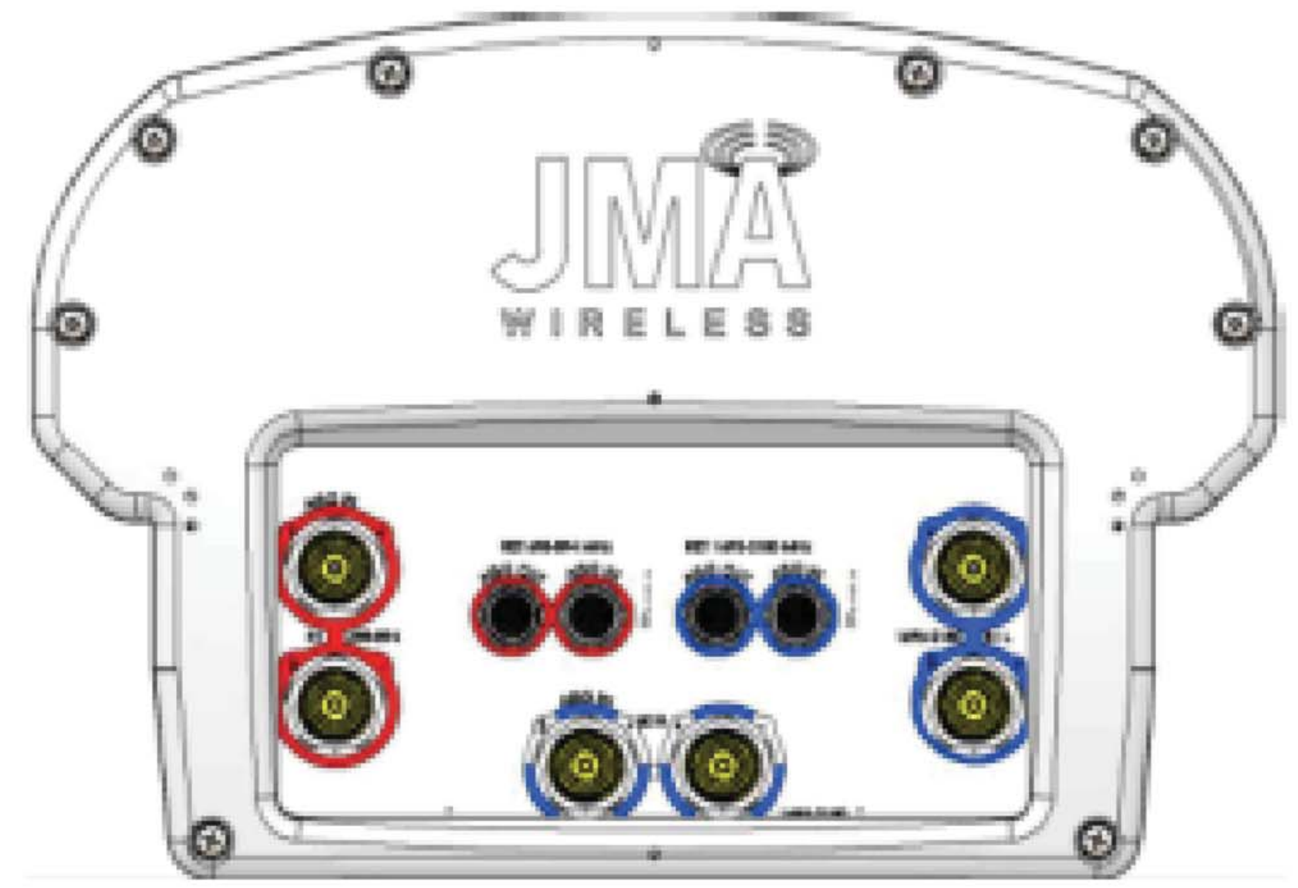
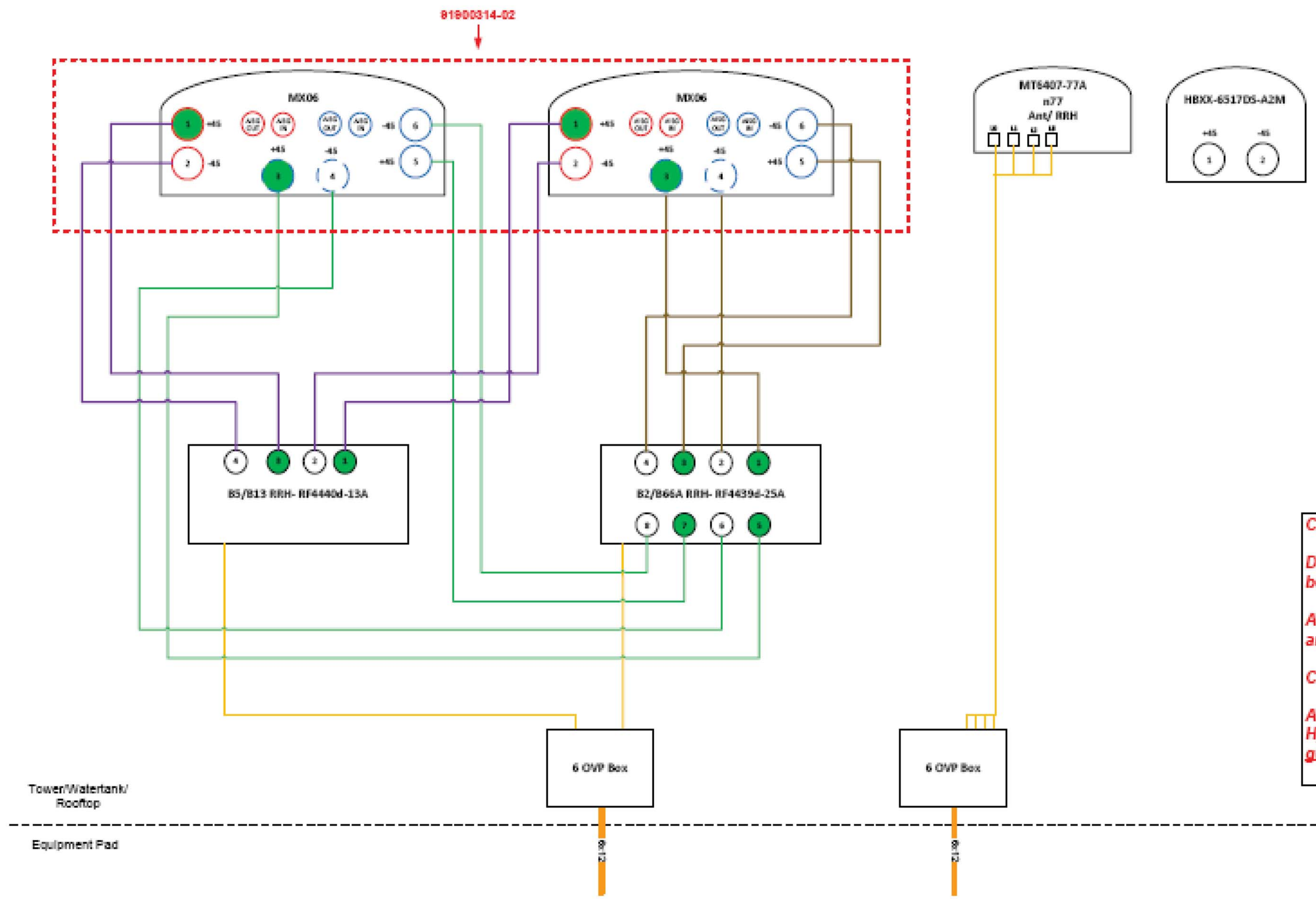
SHEET NUMBER: C-5

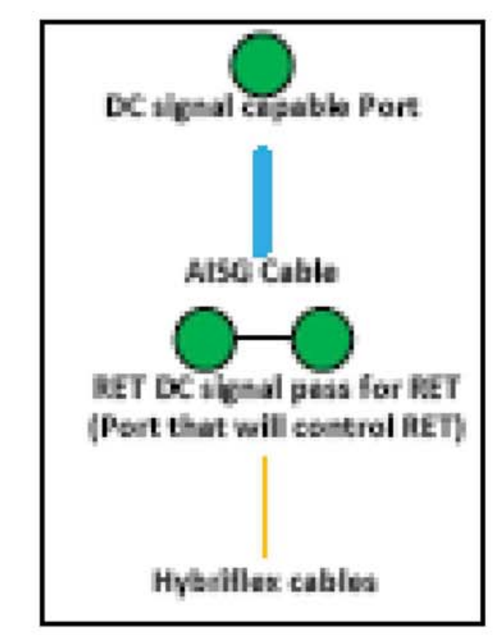
REVISION: 1



- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.

RET DC signal pass for RET
(Port that will control RET)





Comments:

Diagram shows antenna port configuration as viewed from below antennas.

Antenna positions are indicated as viewed from IN FRONT of antennas.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)

1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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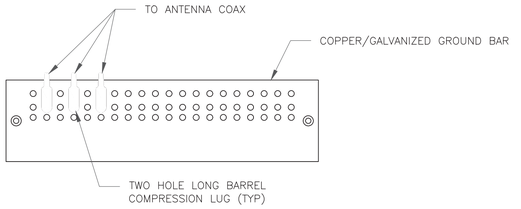
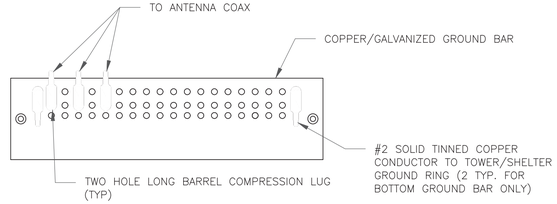
SHEET NUMBER: C-6
REVISION: 1



NOTES:

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

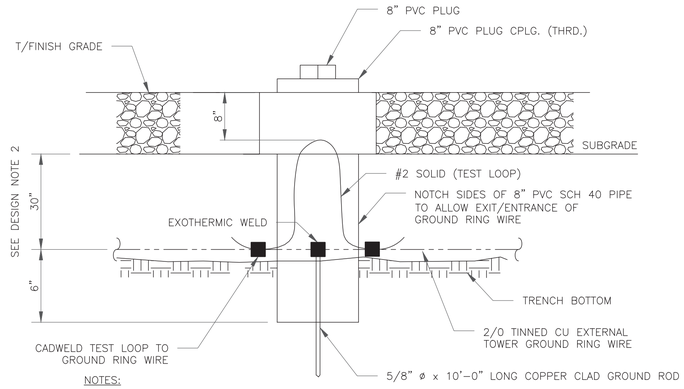
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

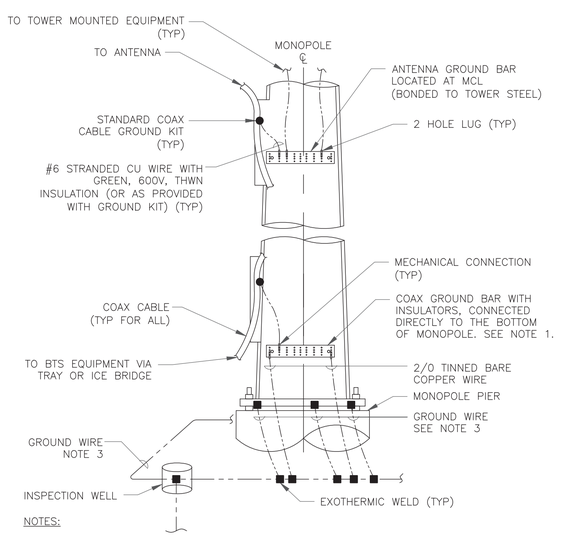
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

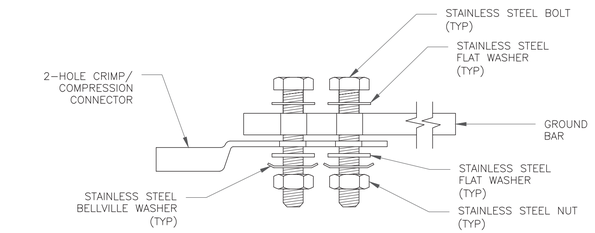
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



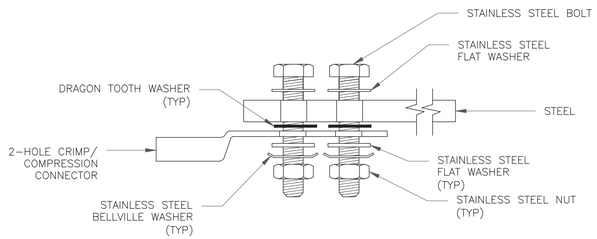
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

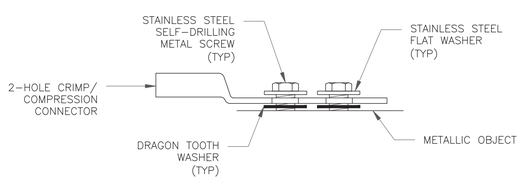
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

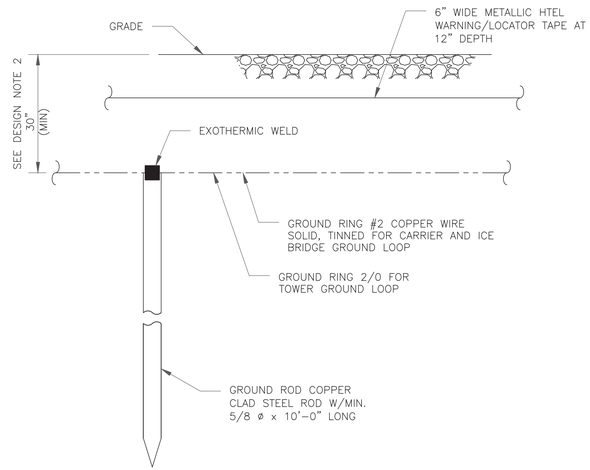


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
467600

BU #: **822765**
BRANFORD/ I-95/ X55/ DTN1

10 SYLVIA ST.
BRANFORD, CT 06405

EXISTING 125'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	8/24/21	JJR	CONSTRUCTION	JJR
1	9/27/21	TDG	CONSTRUCTION	TDG

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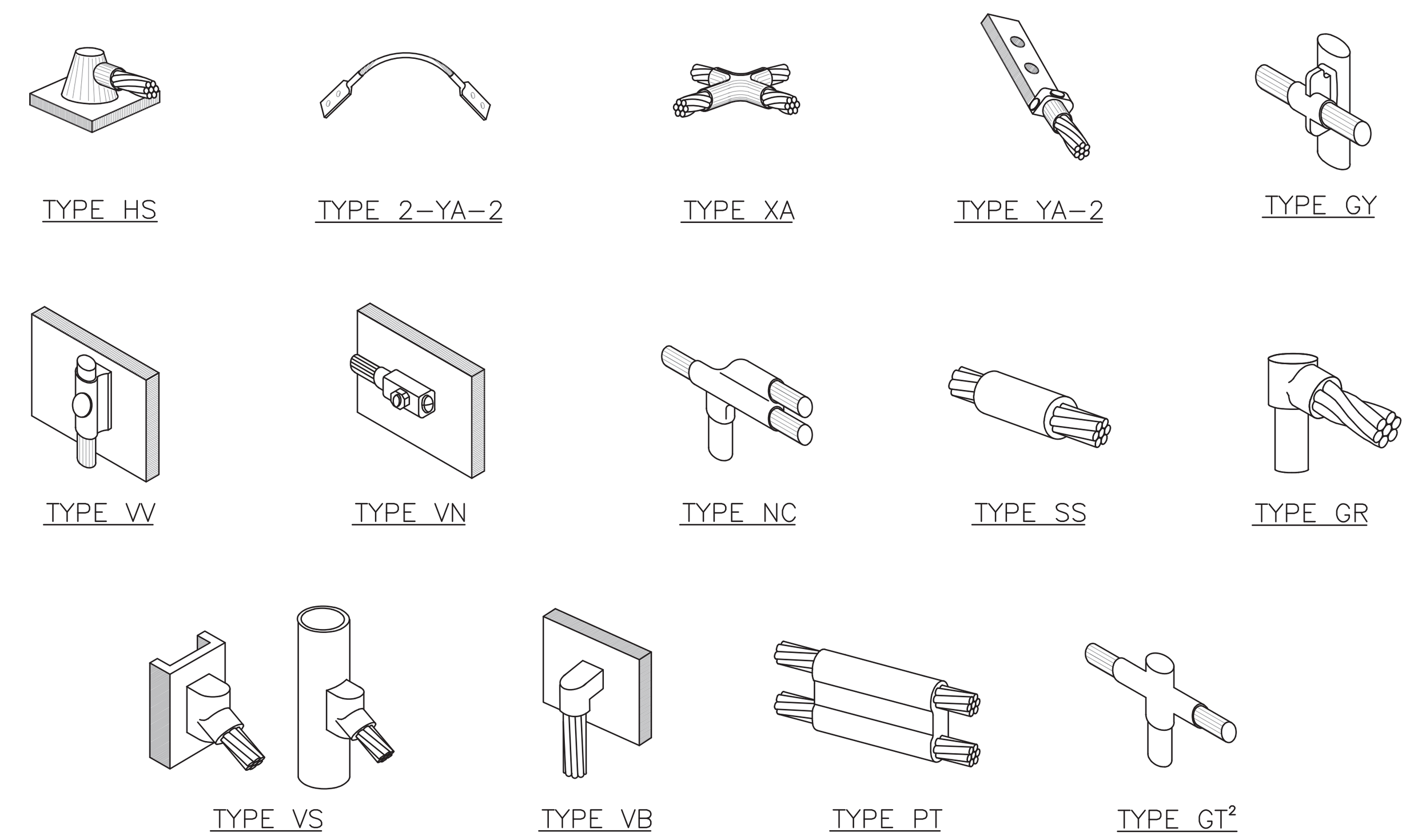
SHEET NUMBER: G-1

REVISION: 1

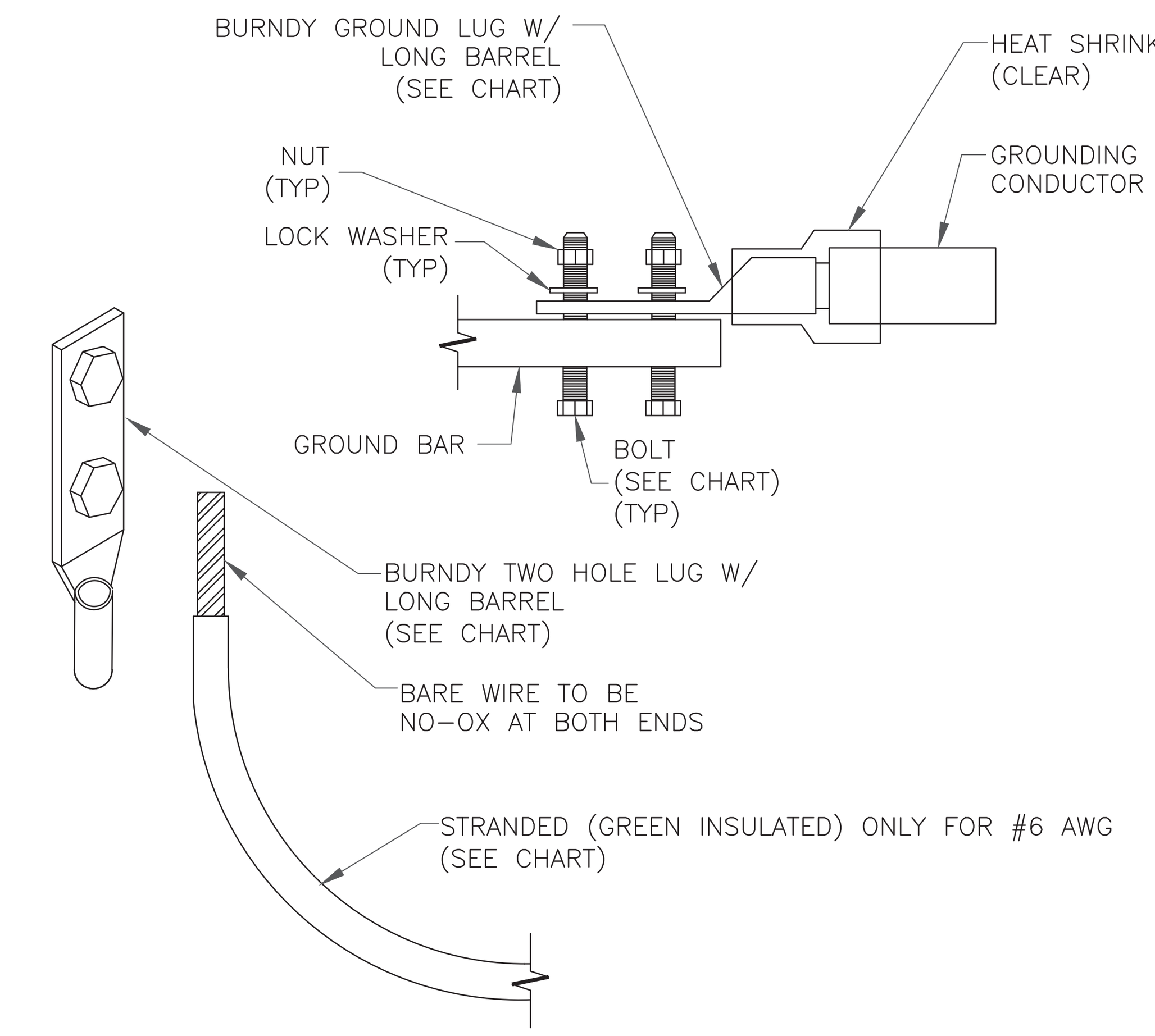


NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

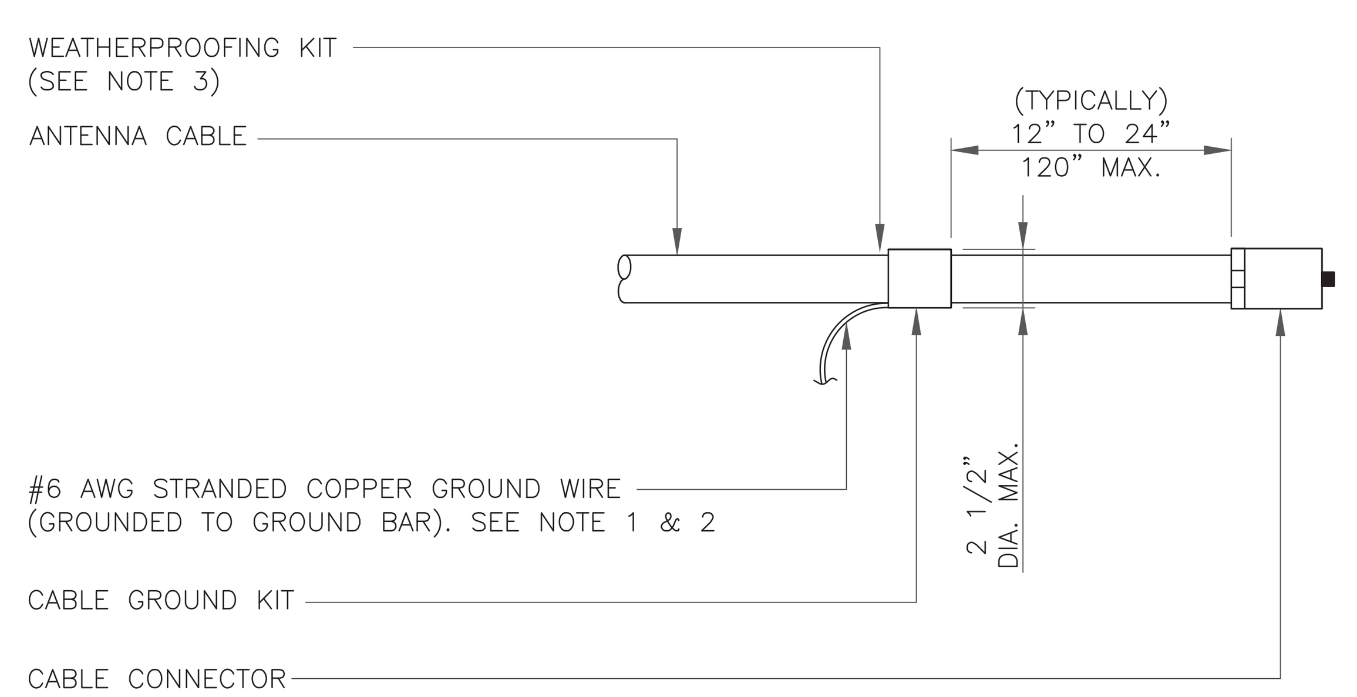
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" – 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" – 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" – 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" – 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" – 16 NC S 2 BOLT



NOTES:

1. 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.

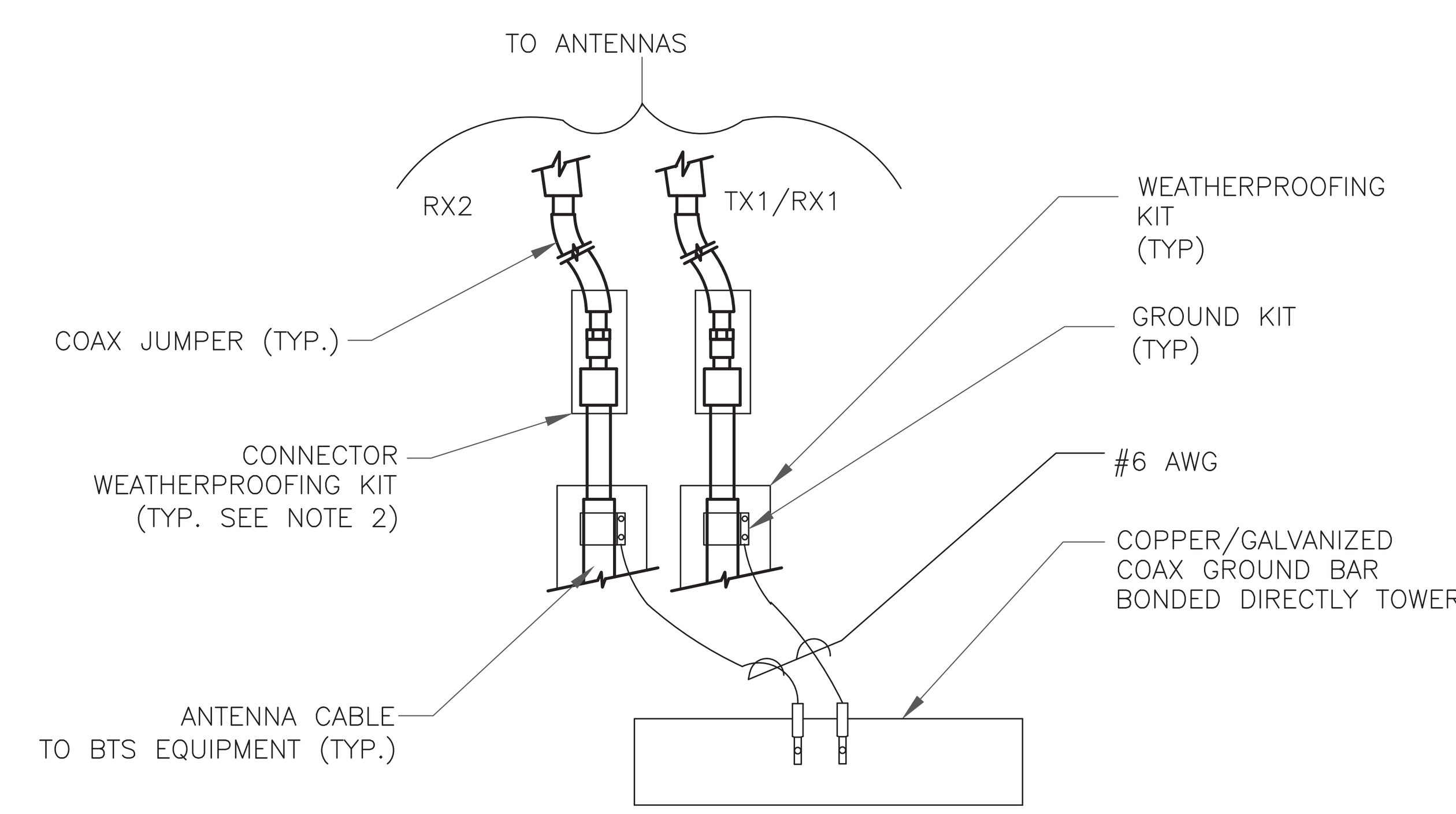
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

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

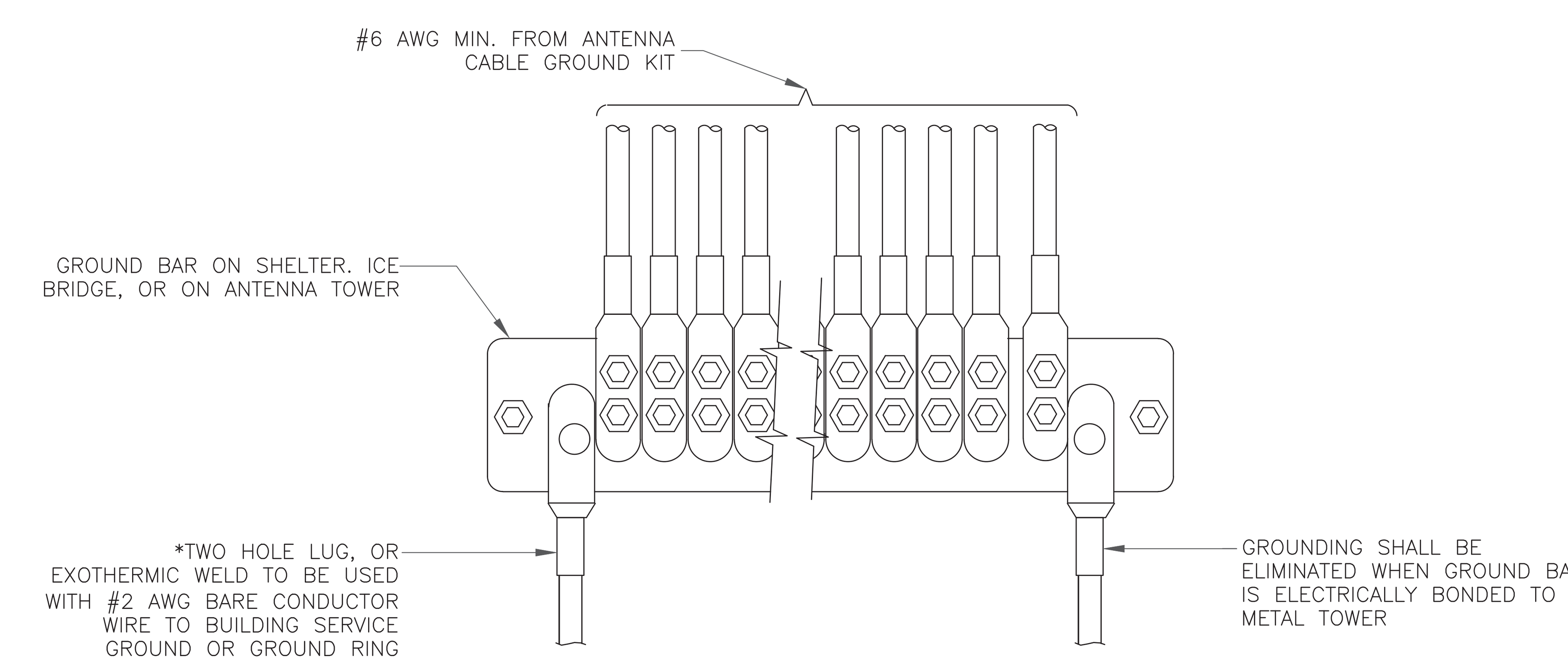
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



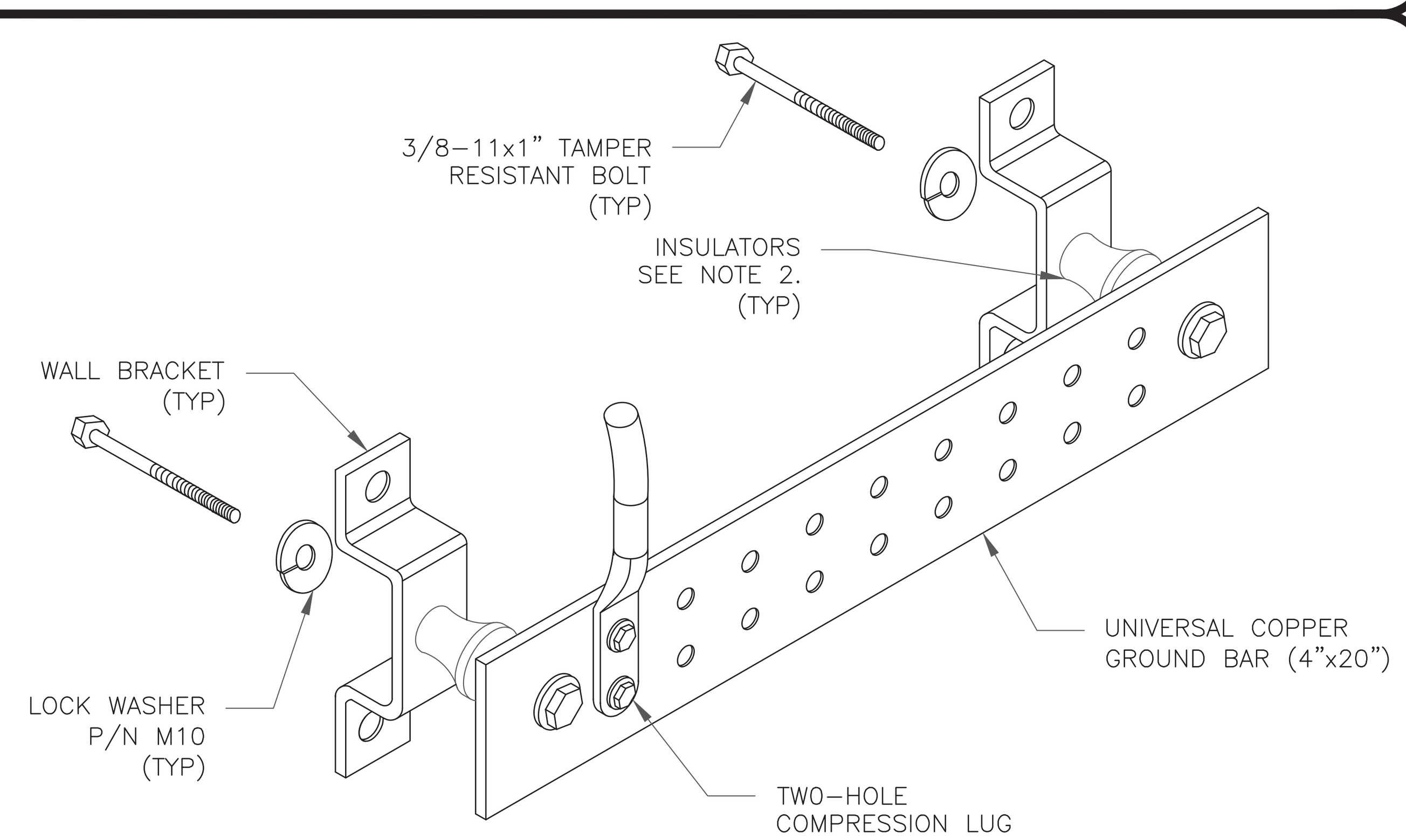
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



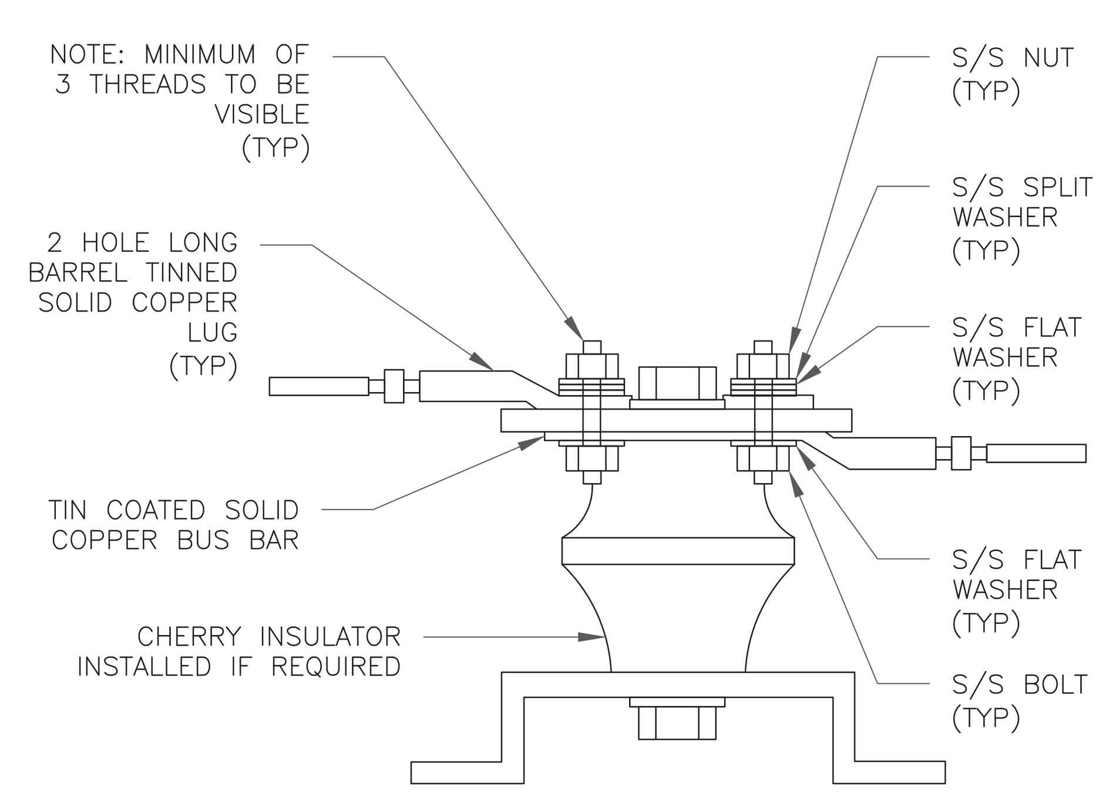
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



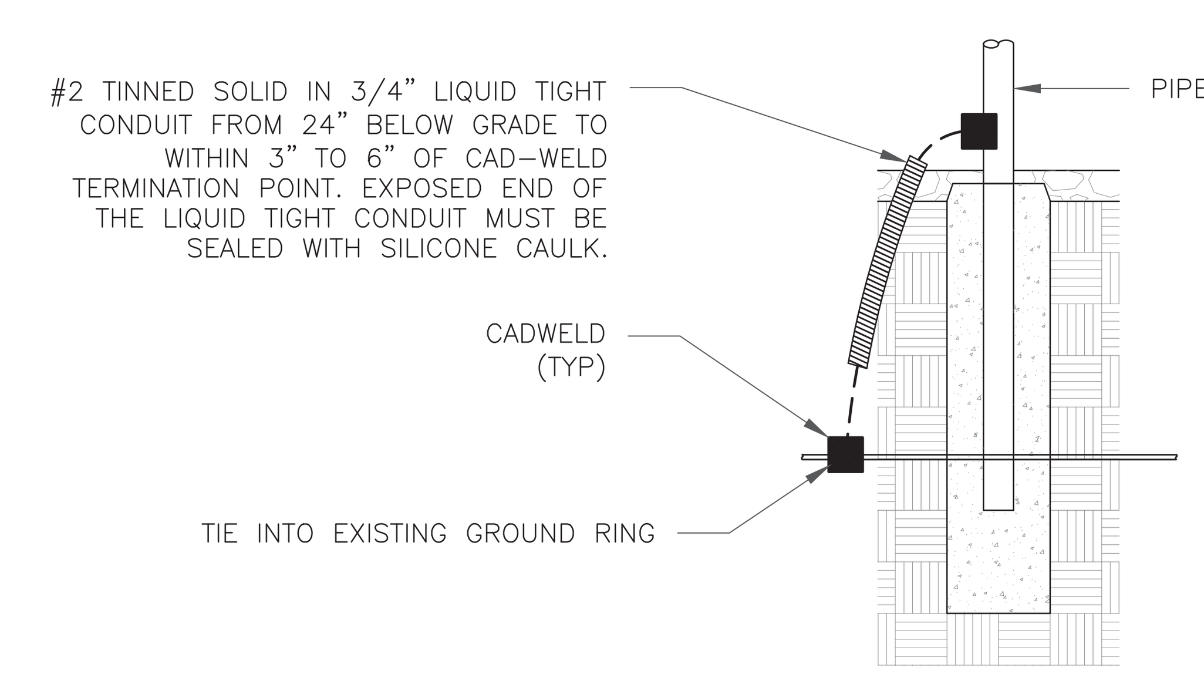
NOTES:

1. 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.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

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467600

BU #: **822765**
BRANFORD/ I-95/ X55/ DTN1

10 SYLVIA ST.
BRANFORD, CT 06405

EXISTING 125'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	8/24/21	JJR	CONSTRUCTION	JJR
1	9/27/21	TDG	CONSTRUCTION	TDG

STATE OF CONNECTICUT, No. 23924, LICENSED PROFESSIONAL ENGINEER, 9/27/21

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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:	REVISION:
G-2	1

Exhibit D

Structural Analysis Report

Date: **August 10, 2021**

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	467600
	Site Name:	BRANFORD_4_CT - A
Crown Castle Designation:	**BU Number:**	822765
	Site Name:	Branford/ I-95/ X55/ Dtn1
	JDE Job Number:	682496
	Work Order Number:	2006803
	Order Number:	582521 Rev. 0
Engineering Firm Designation:	**B+T Group Project Number:**	101126.007.01
Site Data:	**10 Sylvia St., Branford, New Haven County, CT**	
	Latitude *41° 17' 38.16"*, Longitude *-72° 47' 8.54"*	
	125 Foot - Monopole Tower	

B+T Group is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

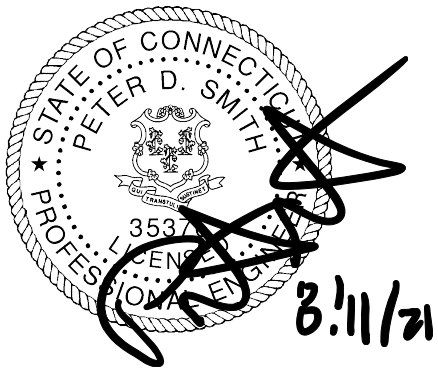
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity - 96.5%**

This analysis utilizes an ultimate 3-second gust wind speed of 130 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Jacob Johnson, E.I.T.

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 02/10/2022



Peter D. Smith, P.E.

tnxTower Report - version 8.1.1.0

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1) INTRODUCTION

This is a 125 ft Monopole tower designed by PiRod Manufactures Inc. The tower has been modified per reinforcement drawings prepared by B+T Group in October 2015. Reinforcement consists of addition of flat plates from 0.5' to 75.5', extra anchor rods, anchor rod brackets and bridge stiffeners at 80', 60', 40', and 20'.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	130 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1.5 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)
112.0	113.0	3	Andrew	HBXX-6517DS-A2M	2	1-5/8
		6	JMA Wireless	MX06FRO660-03		
		2	Raycap	RXXDC-3315-PF-48		
		3	Samsung Telecomm.	MT6407-77A		
		3	Samsung Telecomm.	RFV01U-D1A		
		3	Samsung Telecomm.	RFV01U-D2A		
	112.0	3	--	91900314-02 Dual-mount antenna bracket		
		1	--	Platform Mount [LP 303-1]		

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)
122.0	122.0	3	Ericsson	ERICSSON AIR 21 B2A B4P	10	1-5/8
		3	Ericsson	ERICSSON AIR 21 B4A B2P		
		3	Ericsson	KRY 112 144/1		
		3	Ericsson	RADIO 4449 B71/B85A		
		3	Rfs Celwave	APXVAALL24_43-U-NA20		
		1	--	Platform Mount [LP 405-1]		
100.0	100.0	3	Andrew	SBNHH-1D65A	12 6 2	1-1/4 3/4 3/8
		1	CCI Antennas	HPA-65R-BUU-H6		
		3	Ericsson	RRUS 32		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 8843 B2/B66A		
		4	Kathrein	80010964		
		2	Kathrein	80010965		
		2	Powerwave Tech.	7770.00		
		6	Powerwave Tech.	LGP21401		
		3	Raycap	DC6-48-60-18-8F		
		1	--	T-Arm Mount [TA 602-3]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
90.0	90.0	3	Alcatel Lucent	PCS 1900MHZ 4X45W-65MHZ	4 3	1-1/4 1/2
		6	Alcatel Lucent	RRH2X50-800		
		3	Commscope	NNVV-65B-R4		
		3	Nokia	FZHN		
		3	Rfs Celwave	APXVTM14-ALU-I20		
		1	--	Platform Mount [LP 303-1_KCKR-HR-1]		
	88.0	2	Dragonwave	A-ANT-18G-2-C		
		3	Dragonwave	AIRPAIR ODU		
81.0	81.0	1	Commscope	MC-PK8-DSH (1)	1	1-3/8
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		3	JMA Wireless	MX08FRO665-21		
		1	Raycap	RDIDC-9181-PF-48		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	3552248	CCI Sites
Tower Modification Drawing	5952282	CCI Sites
Post Modification Inspection	6215120	CCI Sites
Foundation Drawing	3910040	CCI Sites
Geotech Report	3552247	CCI Sites
Crown CAD Package	Date: 08/02/2021	CCI Sites

3.1) Analysis Method

tnxTower (version 8.1.1.0), 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 pole and in the reinforcing elements. These calculations are presented in Appendix C.

3.2) Assumptions

1) The 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.
3) Base and flange plate design methodology of the manufacturer has been reviewed and found to be an acceptable means of designing to resist the full capacity of the bolts and shaft.

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	125 - 120	Pole	P24x0.375	1	-4.721	--	1.7%	Pass
L2	120 - 115	Pole	P24x0.375	2	-5.332	--	4.9%	Pass
L3	115 - 110	Pole	P24x0.375	3	-9.668	--	10.7%	Pass
L4	110 - 105	Pole	P24x0.375	4	-10.304	--	18.3%	Pass
L5	105 - 100	Pole	P24x0.375	5	-10.949	--	26.1%	Pass
L6	100 - 95	Pole	P30x0.375	6	-14.833	--	24.9%	Pass
L7	95 - 90	Pole	P30x0.375	7	-15.710	--	32.4%	Pass
L8	90 - 85	Pole	P30x0.375	8	-20.615	--	42.0%	Pass
L9	85 - 80	Pole	P30x0.375	9	-24.698	--	52.2%	Pass
L10	80 - 75.71	Pole	P36x0.375	10	-25.607	--	44.1%	Pass
L11	75.71 - 75.46	Pole + Reinf.	P36x0.5625	11	-25.684	--	34.9%	Pass
L12	75.46 - 70.46	Pole + Reinf.	P36x0.5625	12	-27.115	--	41.4%	Pass
L13	70.46 - 65.46	Pole + Reinf.	P36x0.5625	13	-28.559	--	48.0%	Pass
L14	65.46 - 60.46	Pole + Reinf.	P36x0.5625	14	-30.011	--	54.9%	Pass
L15	60.46 - 60	Pole + Reinf.	P36x0.5625	15	-30.148	--	55.5%	Pass
L16	60 - 59.75	Pole + Reinf.	P42x0.525	16	-30.230	--	37.9%	Pass
L17	59.75 - 54.75	Pole + Reinf.	P42x0.525	17	-31.822	--	42.7%	Pass
L18	54.75 - 49.75	Pole + Reinf.	P42x0.525	18	-33.424	--	47.5%	Pass
L19	49.75 - 44.75	Pole + Reinf.	P42x0.525	19	-35.026	--	52.4%	Pass
L20	44.75 - 40	Pole + Reinf.	P42x0.525	20	-36.556	--	57.2%	Pass
L21	40 - 39.75	Pole + Reinf.	P48x0.55625	21	-36.656	--	42.4%	Pass
L22	39.75 - 34.75	Pole + Reinf.	P48x0.55625	22	-38.527	--	46.1%	Pass
L23	34.75 - 29.75	Pole + Reinf.	P48x0.55625	23	-40.406	--	50.0%	Pass
L24	29.75 - 24.75	Pole + Reinf.	P48x0.55625	24	-42.287	--	53.9%	Pass
L25	24.75 - 20	Pole + Reinf.	P48x0.55625	25	-44.079	--	57.7%	Pass
L26	20 - 19.75	Pole + Reinf.	P54x0.5875	26	-44.194	--	44.2%	Pass
L27	19.75 - 14.75	Pole + Reinf.	P54x0.5875	27	-46.364	--	47.3%	Pass
L28	14.75 - 9.75	Pole + Reinf.	P54x0.5875	28	-48.541	--	50.4%	Pass
L29	9.75 - 4.75	Pole + Reinf.	P54x0.5875	29	-50.722	--	53.6%	Pass
L30	4.75 - 4.39	Pole + Reinf.	P54x0.5875	30	-50.885	--	53.8%	Pass
L31	4.39 - 4.14	Pole + Reinf.	P54x0.4875	31	-50.987	--	65.7%	Pass
L32	4.14 - 0	Pole + Reinf.	P54x0.4875	32	-52.672	--	69.0%	Pass
							Summary	
						Pole(L32)	69.0%	Pass
						Reinforcement	60.9%	Pass
						Overall	69.0%	Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2,3	Flange Connection	100	26.1	Pass
1,2	Bridge Stiffeners	80	49.7	Pass
1,2	Flange Connection	80	48.4	Pass
1,2	Bridge Stiffeners	60	64.6	Pass
1,2	Flange Connection	60	60.9	Pass
1,2	Bridge Stiffeners	40	61.7	Pass
1,2	Flange Connection	40	65.3	Pass
1,2	Bridge Stiffeners	20	61.0	Pass
1,2	Flange Connection	20	65.2	Pass
1,2	Anchor Rods	Base	96.5	Pass
1,2	Base plate	Base	51.0	Pass
1,2	Anchor Rods Brackets	Base	50.1	Pass
1,2	Base Foundation (Structure)	Base	75.4	Pass
1,2	Base Foundation (Soil Interaction)	Base	63.4	Pass

Structure Rating (max from all components) =	**96.5%**

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed.
2) Rating per TIA-222-H Section 15.5.
3) Flange plates have the same capacity as their respective shaft.

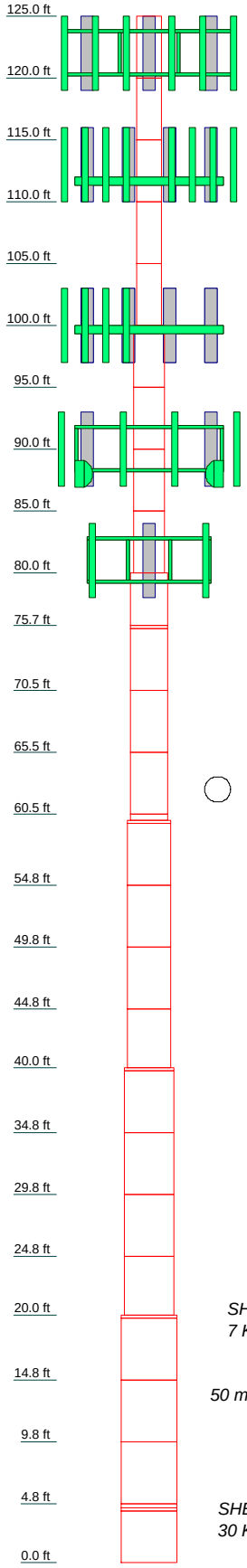
4.1) Recommendations

The tower and its foundations have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	Size	Length (ft)	Grade	Weight (K)
1	P24x0.375	5.000	A53-B-42	0.5
2	P24x0.375	5.000		0.5
3	P24x0.375	5.000		0.5
4	P24x0.375	5.000		0.5
5	P24x0.375	5.000		0.5
6	P30x0.375	5.000		0.6
7	P30x0.375	5.000		0.6
8	P30x0.375	5.000		0.6
9	P30x0.375	5.000		0.6
10	P36x0.375	4.292		0.6
11	P36x0.562	0.250		0.1
12	P36x0.562	5.0000		1.0
13	P36x0.562	5.000		1.0
14	P36x0.562	5.000		1.0
15	P36x0.562	0.250		0.1
16	P42x0.525	0.750		0.1
17	P42x0.525	5.0000		1.1
18	P42x0.525	5.000		1.1
19	P42x0.525	5.000		1.1
20	P42x0.525	4.750		1.1
21	P42x0.525	0.250		0.1
22	P48x0.562	5.0000		1.4
23	P48x0.562	5.000		1.4
24	P48x0.562	5.000		1.4
25	P48x0.562	4.750		1.3
26	P54x0.587	0.250		0.1
27	P54x0.587	5.0000		1.6
28	P54x0.587	5.000		1.6
29	P54x0.587	5.000		1.6
30	P54x0.587	0.250		0.1
31	P54x0.587	0.750		0.1
32	P54x0.587	4.139		1.2
				25.0



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-42	42 ksi	63 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure B to the TIA-222-H Standard.
2. Tower designed for a 130 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.000 ft
7. TIA-222-H Annex S
8. TOWER RATING: 69.0%

ALL REACTIONS ARE FACTORED

AXIAL 87 K

SHEAR 7 K *MOMENT 636 kip-ft*

TORQUE 0 kip-ft
50 mph WIND - 1.500 in ICE

AXIAL 53 K

SHEAR 30 K *MOMENT 2597 kip-ft*

TORQUE 2 kip-ft
REACTIONS - 130 mph WIND

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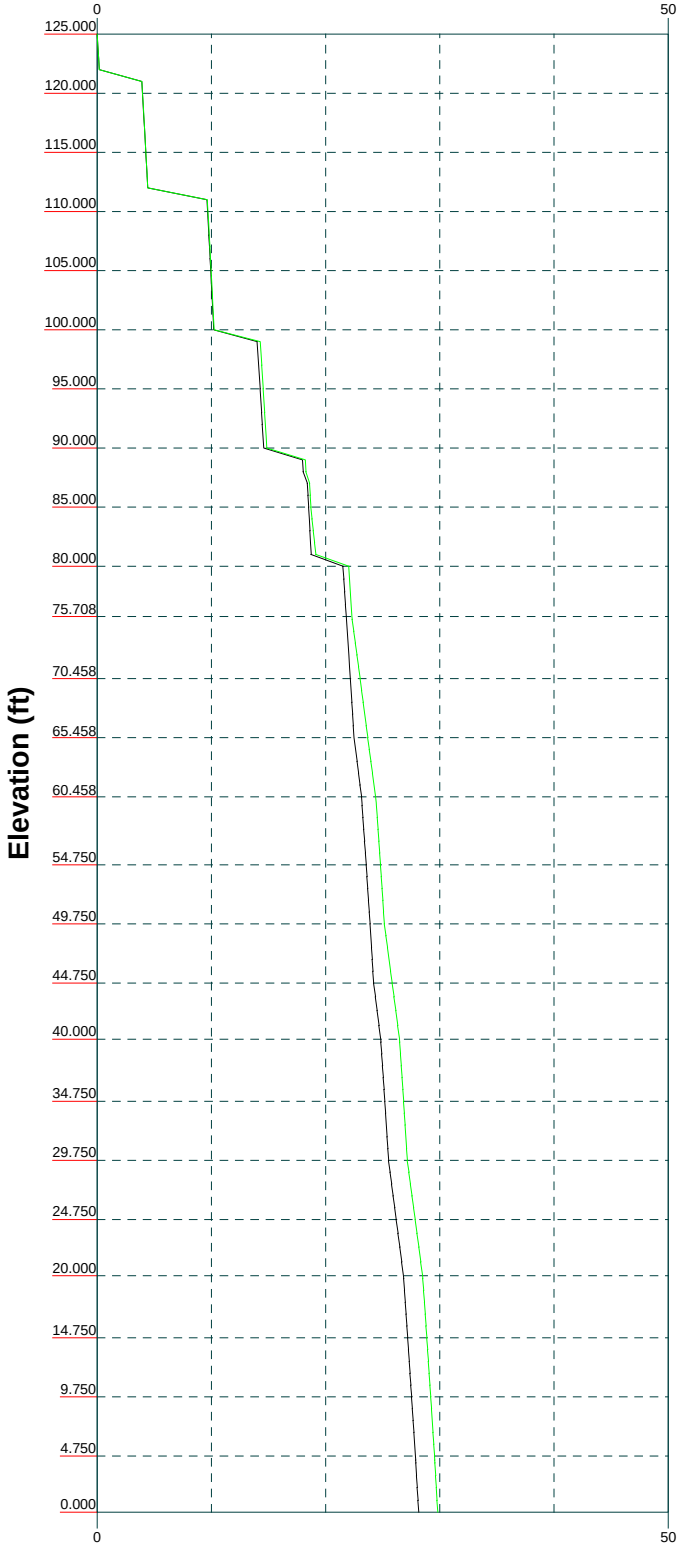
Job: 101126.007.01 - Branford I-95 X55 Dtn1, CT (BU# 82276		
Project:		
Client: Crown Castle	Drawn by: Sahana	App'd:
Code: TIA-222-H	Date: 08/08/21	Scale: NTS
Path:		Dwg No. E-1

TIA-222-H - 130 mph/50 mph 1.500 in Ice Exposure B

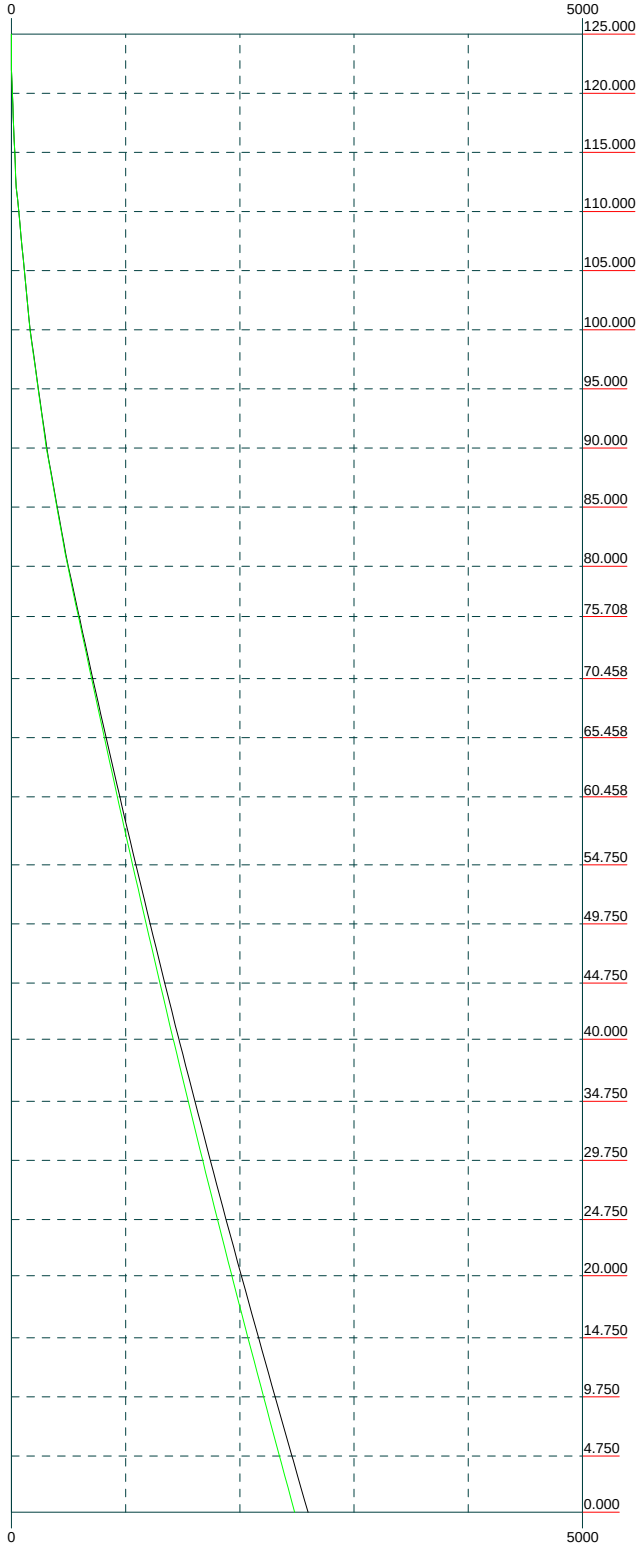
Maximum Values

Vx Vz Mx Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)



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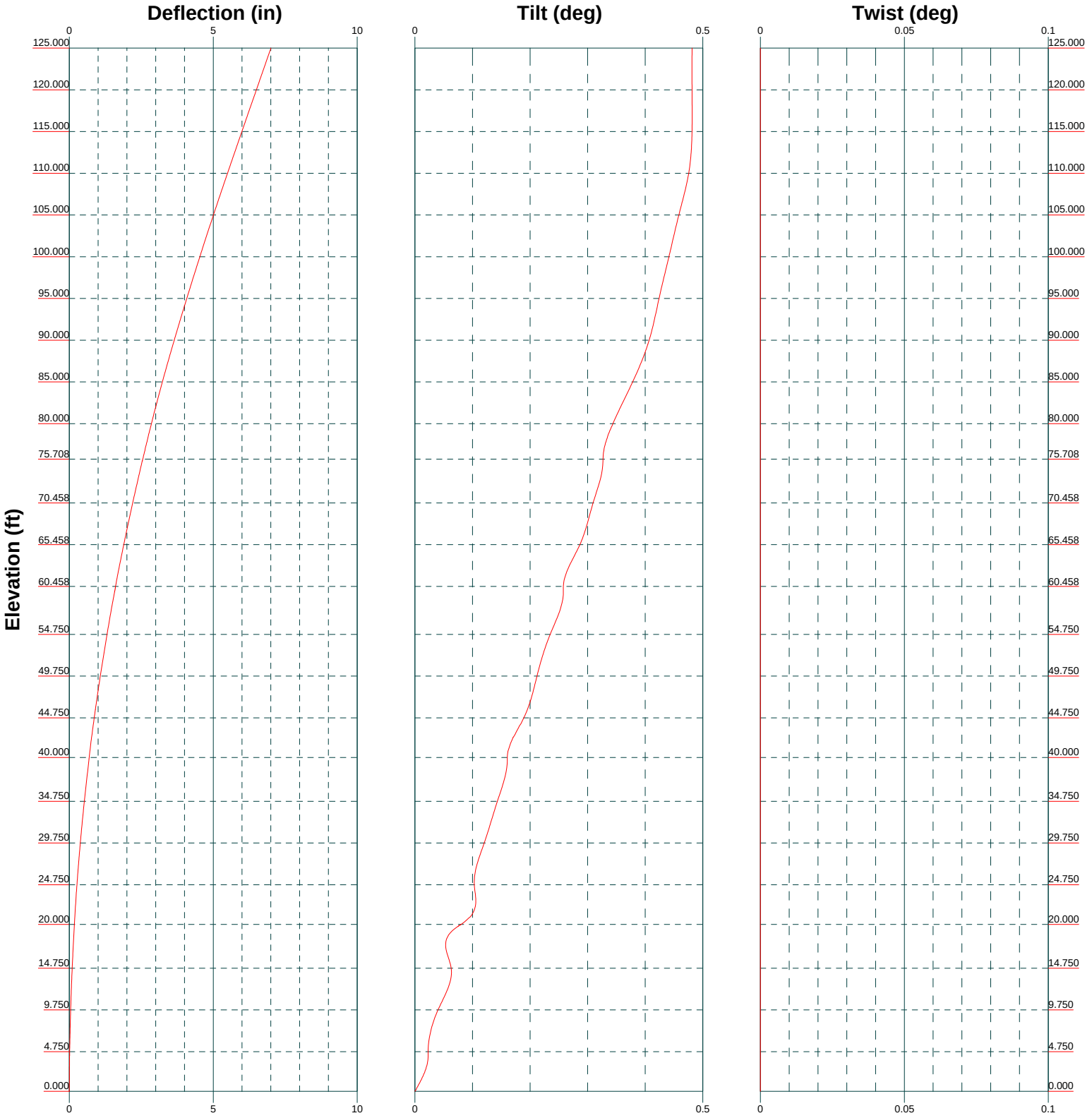
Job: ***101126.007.01 - Branford I-95 X55 Dtn1, CT (BU# 82276***		
Project:		
Client: Crown Castle	Drawn by: Sahana	App'd:
Code: TIA-222-H	Date: 08/08/21	Scale: NTS
Path:		Dwg No. E-4

TIA-222-H - Service - 60 mph

Maximum Values



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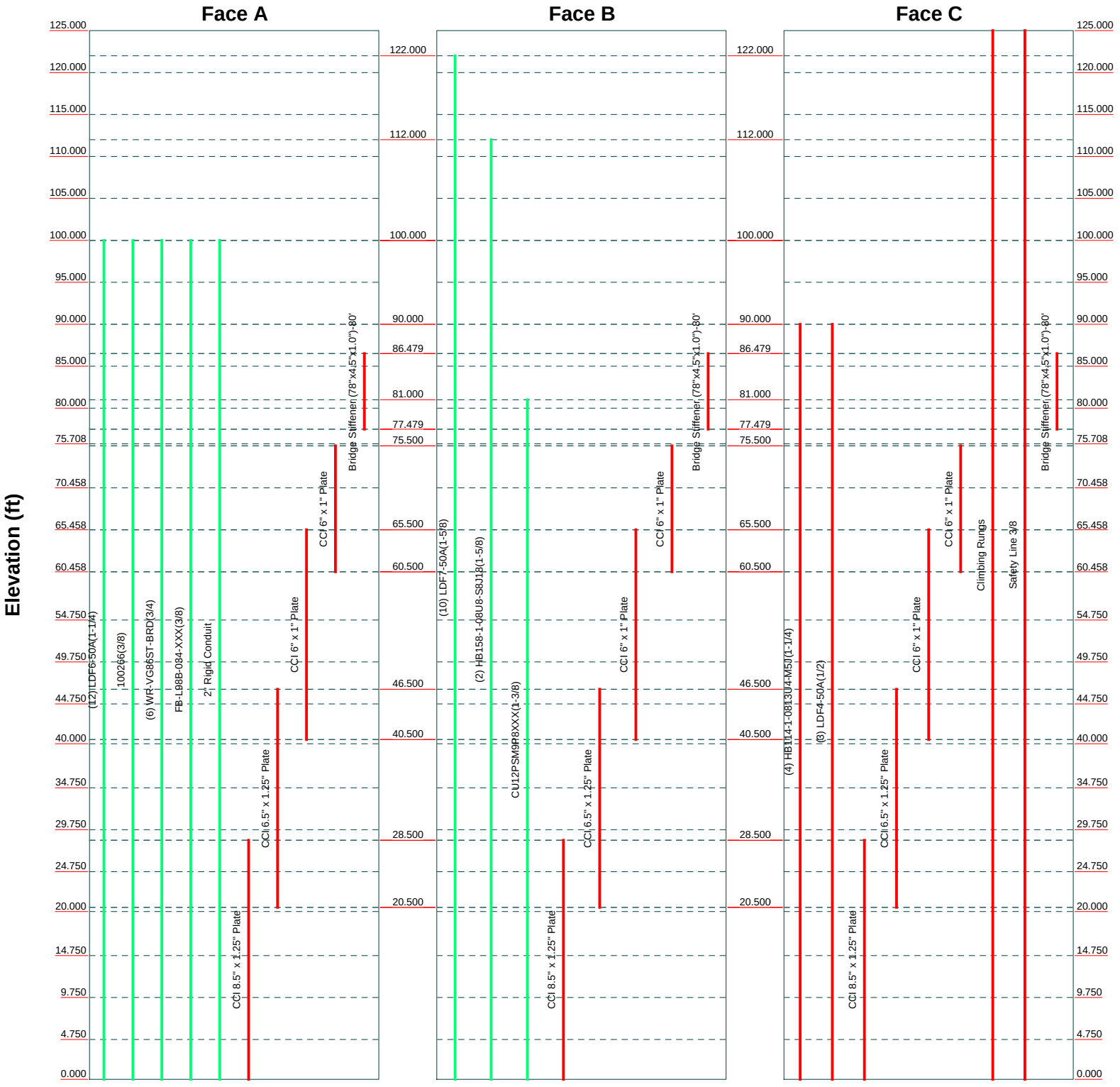
Job: ***101126.007.01 - Branford I-95 X55 Dtn1, CT (BU# 82276***			
Project:			
Client: Crown Castle	Drawn by: Sahana	App'd:	
Code: TIA-222-H	Date: 08/08/21	Scale: NTS	
Path:		Dwg No. E-5	

Feed Line Distribution Chart
0' - 125'

Round | Flat | App In Face | App Out Face | Truss Leg



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Job: ***101126.007.01 - Branford I-95 X55 Dtn1, CT (BU# 82276***		
Project:		
Client: Crown Castle	Drawn by: Sahana	App'd:
Code: TIA-222-H	Date: 08/08/21	Scale: NTS
Path:		Dwg No. E-7

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower base elevation above sea level: 56.000 ft.
Basic wind speed of 130 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
TOWER RATING: %.
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		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Pole Section Geometry

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L1	125.000-120.000	5.000	P24x0.375	A53-B-42 (42 ksi)	
L2	120.000-115.000	5.000	P24x0.375	A53-B-42 (42 ksi)	
L3	115.000-110.000	5.000	P24x0.375	A53-B-42 (42 ksi)	
L4	110.000-105.000	5.000	P24x0.375	A53-B-42 (42 ksi)	
L5	105.000-100.000	5.000	P24x0.375	A53-B-42 (42 ksi)	
L6	100.000-95.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L7	95.000-90.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L8	90.000-85.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L9	85.000-80.000	5.000	P30x0.375	A53-B-42 (42 ksi)	
L10	80.000-75.708	4.292	P36x0.375	A53-B-42 (42 ksi)	
L11	75.708-75.458	0.250	P36x0.5625	A53-B-42 (42 ksi)	
L12	75.458-70.458	5.000	P36x0.5625	A53-B-42 (42 ksi)	
L13	70.458-65.458	5.000	P36x0.5625	A53-B-42 (42 ksi)	
L14	65.458-60.458	5.000	P36x0.5625	A53-B-42 (42 ksi)	
L15	60.458-60.000	0.458	P36x0.5625	A53-B-42 (42 ksi)	
L16	60.000-59.750	0.250	P42x0.525	A53-B-42 (42 ksi)	
L17	59.750-54.750	5.000	P42x0.525	A53-B-42 (42 ksi)	
L18	54.750-49.750	5.000	P42x0.525	A53-B-42 (42 ksi)	
L19	49.750-44.750	5.000	P42x0.525	A53-B-42 (42 ksi)	
L20	44.750-40.000	4.750	P42x0.525	A53-B-42 (42 ksi)	
L21	40.000-39.750	0.250	P48x0.55625	A53-B-42 (42 ksi)	
L22	39.750-34.750	5.000	P48x0.55625	A53-B-42 (42 ksi)	
L23	34.750-29.750	5.000	P48x0.55625	A53-B-42 (42 ksi)	
L24	29.750-24.750	5.000	P48x0.55625	A53-B-42 (42 ksi)	
L25	24.750-20.000	4.750	P48x0.55625	A53-B-42 (42 ksi)	
L26	20.000-19.750	0.250	P54x0.5875	A53-B-42 (42 ksi)	
L27	19.750-14.750	5.000	P54x0.5875	A53-B-42 (42 ksi)	
L28	14.750-9.750	5.000	P54x0.5875	A53-B-42 (42 ksi)	
L29	9.750-4.750	5.000	P54x0.5875	A53-B-42 (42 ksi)	

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L30	4.750-4.385	0.365	P54x0.5875	A53-B-42 (42 ksi)	
L31	4.385-4.135	0.250	P54x0.4875	A53-B-42 (42 ksi)	
L32	4.135-0.000	4.135	P54x0.4875	A53-B-42 (42 ksi)	

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 125.000-120.000				1	1	1			
L2 120.000-115.000				1	1	1			
L3 115.000-110.000				1	1	1			
L4 110.000-105.000				1	1	1			
L5 105.000-100.000				1	1	1			
L6 100.000-95.000				1	1	1			
L7 95.000-90.000				1	1	1			
L8 90.000-85.000				1	1	1			
L9 85.000-80.000				1	1	1			
L10 80.000-75.708				1	1	1			
L11 75.708-75.458				1	1	0.957627			
L12 75.458-70.458				1	1	0.957627			
L13 70.458-65.458				1	1	0.957627			
L14 65.458-60.458				1	1	0.957627			
L15 60.458-60.000				1	1	0.957627			
L16 60.000-59.750				1	1	0.980003			
L17 59.750-54.750				1	1	0.980003			
L18 54.750-49.750				1	1	0.980003			
L19 49.750-44.750				1	1	0.980003			
L20 44.750-40.000				1	1	0.980003			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L21 40.000-39.750				1	1	0.970732			
L22 39.750-34.750				1	1	0.970732			
L23 34.750-29.750				1	1	0.970732			
L24 29.750-24.750				1	1	0.970732			
L25 24.750-20.000				1	1	0.970732			
L26 20.000-19.750				1	1	0.96417			
L27 19.750-14.750				1	1	0.96417			
L28 14.750-9.750				1	1	0.96417			
L29 9.750-4.750				1	1	0.96417			
L30 4.750-4.385				1	1	0.96417			
L31 4.385-4.135				1	1	1.06826			
L32 4.135-0.000				1	1	1.06826			

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 klf
*										
HB114-1-0813U4-M5J(1 -1/4)	C	No	Surface Ar (CaAa)	90.000 - 0.000	4	2	0.250 0.310	1.540		0.001
LDF4-50A(1/2)	C	No	Surface Ar (CaAa)	90.000 - 0.000	3	2	0.320 0.340	0.630		0.000
*										
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	28.500 - 0.000	1	1	0.000 0.000	8.500	19.500	0.000
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	28.500 - 0.000	1	1	0.000 0.000	8.500	19.500	0.000
CCI 8.5" x 1.25" Plate	C	No	Surface Af (CaAa)	28.500 - 0.000	1	1	0.000 0.000	8.500	19.500	0.000
*										
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	46.500 - 20.500	1	1	0.000 0.000	6.500	15.500	0.000
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	46.500 - 20.500	1	1	0.000 0.000	6.500	15.500	0.000
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	46.500 - 20.500	1	1	0.000 0.000	6.500	15.500	0.000
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	65.500 - 40.500	1	1	0.000 0.000	6.000	14.000	0.000
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	65.500 - 40.500	1	1	0.000 0.000	6.000	14.000	0.000

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 klf
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	65.500 - 40.500	1	1	0.000 0.000	6.000	14.000	0.000
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	75.500 - 60.500	1	1	0.000 0.000	6.000	14.000	0.000
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	75.500 - 60.500	1	1	0.000 0.000	6.000	14.000	0.000
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	75.500 - 60.500	1	1	0.000 0.000	6.000	14.000	0.000
*										
Climbing Rungs	C	No	Surface Ar (CaAa)	125.000 - 0.000	1	1	0.000 0.100	0.000		0.001
Safety Line 3/8	C	No	Surface Ar (CaAa)	125.000 - 0.000	1	1	0.010 0.030	0.375		0.000
*										
Bridge Stiffener (78"x4.5"x1.0")-80'	A	No	Surface Af (CaAa)	86.479 - 77.479	1	1	0.000 0.000	4.500	11.000	0.000
Bridge Stiffener (78"x4.5"x1.0")-80'	B	No	Surface Af (CaAa)	86.479 - 77.479	1	1	0.000 0.000	4.500	11.000	0.000
Bridge Stiffener (78"x4.5"x1.0")-80'	C	No	Surface Af (CaAa)	86.479 - 77.479	1	1	0.000 0.000	4.500	11.000	0.000
*										
*										
*										
*										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
LDF7-50A(1-5/8)	B	No	No	Inside Pole	122.000 - 0.000	10	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
*									
HB158-1-08U8-S8J18(1-5/8)	B	No	No	Inside Pole	112.000 - 0.000	2	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
*									
LDF6-50A(1-1/4)	A	No	No	Inside Pole	100.000 - 0.000	12	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
100266(3/8)	A	No	No	Inside Pole	100.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
WR-VG86ST-BRD(3/4)	A	No	No	Inside Pole	100.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
FB-L98B-034-XXX(3/8)	A	No	No	Inside Pole	100.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
2" Rigid Conduit	A	No	No	Inside Pole	100.000 - 0.000	1	2" Ice	0.000	0.000
							No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
							2" Ice	0.000	0.003
*									
CU12PSM9P8XXX(1-3/8)	B	No	No	Inside Pole	81.000 - 0.000	1	No Ice	0.000	0.002
							1/2" Ice	0.000	0.002
							1" Ice	0.000	0.002
							2" Ice	0.000	0.002
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	125.000-120.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.016
		C	0.000	0.000	0.188	0.000	0.004
L2	120.000-115.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.041
		C	0.000	0.000	0.188	0.000	0.004
L3	115.000-110.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.046
		C	0.000	0.000	0.188	0.000	0.004
L4	110.000-105.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.054
		C	0.000	0.000	0.188	0.000	0.004
L5	105.000-100.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.054
		C	0.000	0.000	0.188	0.000	0.004
L6	100.000-95.000	A	0.000	0.000	0.000	0.000	0.068
		B	0.000	0.000	0.000	0.000	0.054
		C	0.000	0.000	0.188	0.000	0.004
L7	95.000-90.000	A	0.000	0.000	0.000	0.000	0.068
		B	0.000	0.000	0.000	0.000	0.054
		C	0.000	0.000	0.188	0.000	0.004
L8	90.000-85.000	A	0.000	0.000	1.080	0.000	0.068
		B	0.000	0.000	1.080	0.000	0.054
		C	0.000	0.000	3.438	0.000	0.030
L9	85.000-80.000	A	0.000	0.000	3.652	0.000	0.068
		B	0.000	0.000	3.652	0.000	0.056
		C	0.000	0.000	6.009	0.000	0.030
L10	80.000-75.708	A	0.000	0.000	1.841	0.000	0.059
		B	0.000	0.000	1.841	0.000	0.053
		C	0.000	0.000	3.865	0.000	0.026
L11	75.708-75.458	A	0.000	0.000	0.042	0.000	0.003
		B	0.000	0.000	0.042	0.000	0.003
		C	0.000	0.000	0.160	0.000	0.002
L12	75.458-70.458	A	0.000	0.000	5.000	0.000	0.068
		B	0.000	0.000	5.000	0.000	0.062
		C	0.000	0.000	7.357	0.000	0.030
L13	70.458-65.458	A	0.000	0.000	5.042	0.000	0.068

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	5.042	0.000	0.062
		C	0.000	0.000	7.399	0.000	0.030
L14	65.458-60.458	A	0.000	0.000	9.958	0.000	0.068
		B	0.000	0.000	9.958	0.000	0.062
		C	0.000	0.000	12.316	0.000	0.030
L15	60.458-60.000	A	0.000	0.000	0.458	0.000	0.006
		B	0.000	0.000	0.458	0.000	0.006
		C	0.000	0.000	0.674	0.000	0.003
L16	60.000-59.750	A	0.000	0.000	0.250	0.000	0.003
		B	0.000	0.000	0.250	0.000	0.003
		C	0.000	0.000	0.368	0.000	0.002
L17	59.750-54.750	A	0.000	0.000	5.000	0.000	0.068
		B	0.000	0.000	5.000	0.000	0.062
		C	0.000	0.000	7.357	0.000	0.030
L18	54.750-49.750	A	0.000	0.000	5.000	0.000	0.068
		B	0.000	0.000	5.000	0.000	0.062
		C	0.000	0.000	7.357	0.000	0.030
L19	49.750-44.750	A	0.000	0.000	6.896	0.000	0.068
		B	0.000	0.000	6.896	0.000	0.062
		C	0.000	0.000	9.253	0.000	0.030
L20	44.750-40.000	A	0.000	0.000	9.396	0.000	0.065
		B	0.000	0.000	9.396	0.000	0.059
		C	0.000	0.000	11.635	0.000	0.029
L21	40.000-39.750	A	0.000	0.000	0.271	0.000	0.003
		B	0.000	0.000	0.271	0.000	0.003
		C	0.000	0.000	0.389	0.000	0.002
L22	39.750-34.750	A	0.000	0.000	5.417	0.000	0.068
		B	0.000	0.000	5.417	0.000	0.062
		C	0.000	0.000	7.774	0.000	0.030
L23	34.750-29.750	A	0.000	0.000	5.417	0.000	0.068
		B	0.000	0.000	5.417	0.000	0.062
		C	0.000	0.000	7.774	0.000	0.030
L24	29.750-24.750	A	0.000	0.000	10.729	0.000	0.068
		B	0.000	0.000	10.729	0.000	0.062
		C	0.000	0.000	13.087	0.000	0.030
L25	24.750-20.000	A	0.000	0.000	11.333	0.000	0.065
		B	0.000	0.000	11.333	0.000	0.059
		C	0.000	0.000	13.573	0.000	0.029
L26	20.000-19.750	A	0.000	0.000	0.354	0.000	0.003
		B	0.000	0.000	0.354	0.000	0.003
		C	0.000	0.000	0.472	0.000	0.002
L27	19.750-14.750	A	0.000	0.000	7.083	0.000	0.068
		B	0.000	0.000	7.083	0.000	0.062
		C	0.000	0.000	9.441	0.000	0.030
L28	14.750-9.750	A	0.000	0.000	7.083	0.000	0.068
		B	0.000	0.000	7.083	0.000	0.062
		C	0.000	0.000	9.441	0.000	0.030
L29	9.750-4.750	A	0.000	0.000	7.083	0.000	0.068
		B	0.000	0.000	7.083	0.000	0.062
		C	0.000	0.000	9.441	0.000	0.030
L30	4.750-4.385	A	0.000	0.000	0.516	0.000	0.005
		B	0.000	0.000	0.516	0.000	0.005
		C	0.000	0.000	0.688	0.000	0.002
L31	4.385-4.135	A	0.000	0.000	0.354	0.000	0.003
		B	0.000	0.000	0.354	0.000	0.003
		C	0.000	0.000	0.472	0.000	0.002
L32	4.135-0.000	A	0.000	0.000	5.859	0.000	0.056
		B	0.000	0.000	5.859	0.000	0.052
		C	0.000	0.000	7.808	0.000	0.025

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_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	125.000-120.000	A	1.454	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.016
		C		0.000	0.000	3.095	0.000	0.033
L2	120.000-115.000	A	1.448	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.041
		C		0.000	0.000	3.083	0.000	0.033
L3	115.000-110.000	A	1.441	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.046
		C		0.000	0.000	3.070	0.000	0.032
L4	110.000-105.000	A	1.435	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.054
		C		0.000	0.000	3.057	0.000	0.032
L5	105.000-100.000	A	1.428	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.054
		C		0.000	0.000	3.044	0.000	0.032
L6	100.000-95.000	A	1.421	0.000	0.000	0.000	0.000	0.068
		B		0.000	0.000	0.000	0.000	0.054
		C		0.000	0.000	3.029	0.000	0.032
L7	95.000-90.000	A	1.413	0.000	0.000	0.000	0.000	0.068
		B		0.000	0.000	0.000	0.000	0.054
		C		0.000	0.000	3.014	0.000	0.031
L8	90.000-85.000	A	1.406	0.000	0.000	1.299	0.000	0.081
		B		0.000	0.000	1.299	0.000	0.067
		C		0.000	0.000	10.524	0.000	0.139
L9	85.000-80.000	A	1.397	0.000	0.000	4.386	0.000	0.113
		B		0.000	0.000	4.386	0.000	0.100
		C		0.000	0.000	13.574	0.000	0.170
L10	80.000-75.708	A	1.389	0.000	0.000	2.209	0.000	0.081
		B		0.000	0.000	2.209	0.000	0.076
		C		0.000	0.000	10.064	0.000	0.129
L11	75.708-75.458	A	1.385	0.000	0.000	0.051	0.000	0.004
		B		0.000	0.000	0.051	0.000	0.004
		C		0.000	0.000	0.508	0.000	0.007
L12	75.458-70.458	A	1.380	0.000	0.000	6.099	0.000	0.120
		B		0.000	0.000	6.099	0.000	0.114
		C		0.000	0.000	15.210	0.000	0.175
L13	70.458-65.458	A	1.371	0.000	0.000	6.147	0.000	0.120
		B		0.000	0.000	6.147	0.000	0.114
		C		0.000	0.000	15.214	0.000	0.174
L14	65.458-60.458	A	1.360	0.000	0.000	12.398	0.000	0.169
		B		0.000	0.000	12.398	0.000	0.163
		C		0.000	0.000	21.418	0.000	0.223
L15	60.458-60.000	A	1.354	0.000	0.000	0.582	0.000	0.011
		B		0.000	0.000	0.582	0.000	0.010
		C		0.000	0.000	1.407	0.000	0.016
L16	60.000-59.750	A	1.353	0.000	0.000	0.318	0.000	0.006
		B		0.000	0.000	0.318	0.000	0.006
		C		0.000	0.000	0.767	0.000	0.009
L17	59.750-54.750	A	1.347	0.000	0.000	6.347	0.000	0.118
		B		0.000	0.000	6.347	0.000	0.112
		C		0.000	0.000	15.310	0.000	0.170
L18	54.750-49.750	A	1.335	0.000	0.000	6.335	0.000	0.118
		B		0.000	0.000	6.335	0.000	0.112
		C		0.000	0.000	15.242	0.000	0.169
L19	49.750-44.750	A	1.322	0.000	0.000	8.680	0.000	0.136
		B		0.000	0.000	8.680	0.000	0.130

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	17.527	0.000	0.185
L20	44.750-40.000	A	1.307	0.000	0.000	11.749	0.000	0.155
		B		0.000	0.000	11.749	0.000	0.150
		C		0.000	0.000	20.093	0.000	0.201
L21	40.000-39.750	A	1.299	0.000	0.000	0.336	0.000	0.006
		B		0.000	0.000	0.336	0.000	0.006
		C		0.000	0.000	0.773	0.000	0.008
L22	39.750-34.750	A	1.291	0.000	0.000	6.707	0.000	0.119
		B		0.000	0.000	6.707	0.000	0.113
		C		0.000	0.000	15.415	0.000	0.166
L23	34.750-29.750	A	1.272	0.000	0.000	6.689	0.000	0.119
		B		0.000	0.000	6.689	0.000	0.113
		C		0.000	0.000	15.313	0.000	0.164
L24	29.750-24.750	A	1.251	0.000	0.000	12.918	0.000	0.162
		B		0.000	0.000	12.918	0.000	0.156
		C		0.000	0.000	21.447	0.000	0.205
L25	24.750-20.000	A	1.226	0.000	0.000	13.541	0.000	0.160
		B		0.000	0.000	13.541	0.000	0.155
		C		0.000	0.000	21.539	0.000	0.199
L26	20.000-19.750	A	1.212	0.000	0.000	0.415	0.000	0.006
		B		0.000	0.000	0.415	0.000	0.006
		C		0.000	0.000	0.832	0.000	0.008
L27	19.750-14.750	A	1.195	0.000	0.000	8.278	0.000	0.124
		B		0.000	0.000	8.278	0.000	0.118
		C		0.000	0.000	16.555	0.000	0.162
L28	14.750-9.750	A	1.155	0.000	0.000	8.238	0.000	0.122
		B		0.000	0.000	8.238	0.000	0.116
		C		0.000	0.000	16.334	0.000	0.156
L29	9.750-4.750	A	1.096	0.000	0.000	8.179	0.000	0.119
		B		0.000	0.000	8.179	0.000	0.113
		C		0.000	0.000	16.010	0.000	0.148
L30	4.750-4.385	A	1.046	0.000	0.000	0.593	0.000	0.008
		B		0.000	0.000	0.593	0.000	0.008
		C		0.000	0.000	1.148	0.000	0.010
L31	4.385-4.135	A	1.039	0.000	0.000	0.406	0.000	0.006
		B		0.000	0.000	0.406	0.000	0.005
		C		0.000	0.000	0.785	0.000	0.007
L32	4.135-0.000	A	0.967	0.000	0.000	6.658	0.000	0.092
		B		0.000	0.000	6.658	0.000	0.088
		C		0.000	0.000	12.654	0.000	0.108

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	125.000-120.000	-0.015	0.369	-0.161	2.256
L2	120.000-115.000	-0.015	0.369	-0.160	2.250
L3	115.000-110.000	-0.015	0.369	-0.160	2.243
L4	110.000-105.000	-0.015	0.369	-0.159	2.236
L5	105.000-100.000	-0.015	0.369	-0.159	2.229
L6	100.000-95.000	-0.016	0.370	-0.167	2.345
L7	95.000-90.000	-0.016	0.370	-0.166	2.336
L8	90.000-85.000	-1.564	2.416	-1.810	3.678
L9	85.000-80.000	-0.985	1.521	-1.423	2.890
L10	80.000-75.708	-1.364	2.108	-1.786	3.635
L11	75.708-75.458	-1.752	2.707	-2.013	4.096

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L12	75.458-70.458	-0.921	1.423	-1.417	2.882
L13	70.458-65.458	-0.917	1.417	-1.409	2.864
L14	65.458-60.458	-0.476	0.736	-1.019	2.069
L15	60.458-60.000	-0.921	1.423	-1.386	2.814
L16	60.000-59.750	-1.007	1.557	-1.517	3.085
L17	59.750-54.750	-1.007	1.557	-1.514	3.079
L18	54.750-49.750	-1.007	1.557	-1.510	3.067
L19	49.750-44.750	-0.837	1.293	-1.333	2.705
L20	44.750-40.000	-0.524	0.810	-1.117	2.264
L21	40.000-39.750	-1.040	1.609	-1.578	3.201
L22	39.750-34.750	-1.040	1.609	-1.575	3.192
L23	34.750-29.750	-1.040	1.609	-1.567	3.172
L24	29.750-24.750	-0.539	0.834	-1.171	2.365
L25	24.750-20.000	-0.506	0.783	-1.101	2.219
L26	20.000-19.750	-0.960	1.485	-1.517	3.058
L27	19.750-14.750	-0.960	1.485	-1.510	3.038
L28	14.750-9.750	-0.960	1.485	-1.492	2.991
L29	9.750-4.750	-0.960	1.485	-1.465	2.920
L30	4.750-4.385	-0.960	1.485	-1.442	2.860
L31	4.385-4.135	-0.960	1.485	-1.439	2.851
L32	4.135-0.000	-0.960	1.485	-1.404	2.760

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	33	Climbing Rungs	120.00 - 125.00	1.0000	1.0000
L1	34	Safety Line 3/8	120.00 - 125.00	1.0000	1.0000
L2	33	Climbing Rungs	115.00 - 120.00	1.0000	1.0000
L2	34	Safety Line 3/8	115.00 - 120.00	1.0000	1.0000
L3	33	Climbing Rungs	110.00 - 115.00	1.0000	1.0000
L3	34	Safety Line 3/8	110.00 - 115.00	1.0000	1.0000
L4	33	Climbing Rungs	105.00 - 110.00	1.0000	1.0000
L4	34	Safety Line 3/8	105.00 - 110.00	1.0000	1.0000
L5	33	Climbing Rungs	100.00 - 105.00	1.0000	1.0000
L5	34	Safety Line 3/8	100.00 - 105.00	1.0000	1.0000
L6	33	Climbing Rungs	95.00 - 100.00	1.0000	1.0000
L6	34	Safety Line 3/8	95.00 - 100.00	1.0000	1.0000
L7	33	Climbing Rungs	90.00 - 95.00	1.0000	1.0000
L7	34	Safety Line 3/8	90.00 - 95.00	1.0000	1.0000
L8	11	HB114-1-0813U4-M5J(1-1/4)	85.00 - 90.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L8	12	LDF4-50A(1/2)	85.00 - 90.00	1.0000	1.0000
L8	33	Climbing Rungs	85.00 - 90.00	1.0000	1.0000
L8	34	Safety Line 3/8	85.00 - 90.00	1.0000	1.0000
L8	36	Bridge Stiffener (78"x4.5"x1.0")-80'	85.00 - 86.48	1.0000	1.0000
L8	37	Bridge Stiffener (78"x4.5"x1.0")-80'	85.00 - 86.48	1.0000	1.0000
L8	38	Bridge Stiffener (78"x4.5"x1.0")-80'	85.00 - 86.48	1.0000	1.0000
L9	11	HB114-1-0813U4-M5J(1-1/4)	80.00 - 85.00	1.0000	1.0000
L9	12	LDF4-50A(1/2)	80.00 - 85.00	1.0000	1.0000
L9	33	Climbing Rungs	80.00 - 85.00	1.0000	1.0000
L9	34	Safety Line 3/8	80.00 - 85.00	1.0000	1.0000
L9	36	Bridge Stiffener (78"x4.5"x1.0")-80'	80.00 - 85.00	1.0000	1.0000
L9	37	Bridge Stiffener (78"x4.5"x1.0")-80'	80.00 - 85.00	1.0000	1.0000
L9	38	Bridge Stiffener (78"x4.5"x1.0")-80'	80.00 - 85.00	1.0000	1.0000
L10	11	HB114-1-0813U4-M5J(1-1/4)	75.71 - 80.00	1.0000	1.0000
L10	12	LDF4-50A(1/2)	75.71 - 80.00	1.0000	1.0000
L10	33	Climbing Rungs	75.71 - 80.00	1.0000	1.0000
L10	34	Safety Line 3/8	75.71 - 80.00	1.0000	1.0000
L10	36	Bridge Stiffener (78"x4.5"x1.0")-80'	77.48 - 80.00	1.0000	1.0000
L10	37	Bridge Stiffener (78"x4.5"x1.0")-80'	77.48 - 80.00	1.0000	1.0000
L10	38	Bridge Stiffener (78"x4.5"x1.0")-80'	77.48 - 80.00	1.0000	1.0000
L11	11	HB114-1-0813U4-M5J(1-1/4)	75.46 - 75.71	1.0000	1.0000
L11	12	LDF4-50A(1/2)	75.46 - 75.71	1.0000	1.0000
L11	28	CCI 6" x 1" Plate	75.46 - 75.50	1.0000	1.0000
L11	29	CCI 6" x 1" Plate	75.46 - 75.50	1.0000	1.0000
L11	30	CCI 6" x 1" Plate	75.46 - 75.50	1.0000	1.0000
L11	33	Climbing Rungs	75.46 - 75.71	1.0000	1.0000
L11	34	Safety Line 3/8	75.46 - 75.71	1.0000	1.0000
L12	11	HB114-1-0813U4-M5J(1-1/4)	70.46 - 75.46	1.0000	1.0000
L12	12	LDF4-50A(1/2)	70.46 - 75.46	1.0000	1.0000
L12	28	CCI 6" x 1" Plate	70.46 - 75.46	1.0000	1.0000
L12	29	CCI 6" x 1" Plate	70.46 - 75.46	1.0000	1.0000
L12	30	CCI 6" x 1" Plate	70.46 - 75.46	1.0000	1.0000
L12	33	Climbing Rungs	70.46 - 75.46	1.0000	1.0000
L12	34	Safety Line 3/8	70.46 - 75.46	1.0000	1.0000
L13	11	HB114-1-0813U4-M5J(1-1/4)	65.46 - 70.46	1.0000	1.0000
L13	12	LDF4-50A(1/2)	65.46 - 70.46	1.0000	1.0000
L13	24	CCI 6" x 1" Plate	65.46 - 65.50	1.0000	1.0000
L13	25	CCI 6" x 1" Plate	65.46 - 65.50	1.0000	1.0000
L13	26	CCI 6" x 1" Plate	65.46 - 65.50	1.0000	1.0000
L13	28	CCI 6" x 1" Plate	65.46 - 70.46	1.0000	1.0000
L13	29	CCI 6" x 1" Plate	65.46 - 70.46	1.0000	1.0000
L13	30	CCI 6" x 1" Plate	65.46 - 70.46	1.0000	1.0000
L13	33	Climbing Rungs	65.46 - 70.46	1.0000	1.0000
L13	34	Safety Line 3/8	65.46 - 70.46	1.0000	1.0000
L14	11	HB114-1-0813U4-M5J(1-1/4)	60.46 - 65.46	1.0000	1.0000
L14	12	LDF4-50A(1/2)	60.46 - 65.46	1.0000	1.0000
L14	24	CCI 6" x 1" Plate	60.46 - 65.46	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L14	25	CCI 6" x 1" Plate	60.46 - 65.46	1.0000	1.0000
L14	26	CCI 6" x 1" Plate	60.46 - 65.46	1.0000	1.0000
L14	28	CCI 6" x 1" Plate	60.50 - 65.46	1.0000	1.0000
L14	29	CCI 6" x 1" Plate	60.50 - 65.46	1.0000	1.0000
L14	30	CCI 6" x 1" Plate	60.50 - 65.46	1.0000	1.0000
L14	33	Climbing Rungs	60.46 - 65.46	1.0000	1.0000
L14	34	Safety Line 3/8	60.46 - 65.46	1.0000	1.0000
L15	11	HB114-1-0813U4-M5J(1-1/4)	60.00 - 60.46	1.0000	1.0000
L15	12	LDF4-50A(1/2)	60.00 - 60.46	1.0000	1.0000
L15	24	CCI 6" x 1" Plate	60.00 - 60.46	1.0000	1.0000
L15	25	CCI 6" x 1" Plate	60.00 - 60.46	1.0000	1.0000
L15	26	CCI 6" x 1" Plate	60.00 - 60.46	1.0000	1.0000
L15	33	Climbing Rungs	60.00 - 60.46	1.0000	1.0000
L15	34	Safety Line 3/8	60.00 - 60.46	1.0000	1.0000
L16	11	HB114-1-0813U4-M5J(1-1/4)	59.75 - 60.00	1.0000	1.0000
L16	12	LDF4-50A(1/2)	59.75 - 60.00	1.0000	1.0000
L16	24	CCI 6" x 1" Plate	59.75 - 60.00	1.0000	1.0000
L16	25	CCI 6" x 1" Plate	59.75 - 60.00	1.0000	1.0000
L16	26	CCI 6" x 1" Plate	59.75 - 60.00	1.0000	1.0000
L16	33	Climbing Rungs	59.75 - 60.00	1.0000	1.0000
L16	34	Safety Line 3/8	59.75 - 60.00	1.0000	1.0000
L17	11	HB114-1-0813U4-M5J(1-1/4)	54.75 - 59.75	1.0000	1.0000
L17	12	LDF4-50A(1/2)	54.75 - 59.75	1.0000	1.0000
L17	24	CCI 6" x 1" Plate	54.75 - 59.75	1.0000	1.0000
L17	25	CCI 6" x 1" Plate	54.75 - 59.75	1.0000	1.0000
L17	26	CCI 6" x 1" Plate	54.75 - 59.75	1.0000	1.0000
L17	33	Climbing Rungs	54.75 - 59.75	1.0000	1.0000
L17	34	Safety Line 3/8	54.75 - 59.75	1.0000	1.0000
L18	11	HB114-1-0813U4-M5J(1-1/4)	49.75 - 54.75	1.0000	1.0000
L18	12	LDF4-50A(1/2)	49.75 - 54.75	1.0000	1.0000
L18	24	CCI 6" x 1" Plate	49.75 - 54.75	1.0000	1.0000
L18	25	CCI 6" x 1" Plate	49.75 - 54.75	1.0000	1.0000
L18	26	CCI 6" x 1" Plate	49.75 - 54.75	1.0000	1.0000
L18	33	Climbing Rungs	49.75 - 54.75	1.0000	1.0000
L18	34	Safety Line 3/8	49.75 - 54.75	1.0000	1.0000
L19	11	HB114-1-0813U4-M5J(1-1/4)	44.75 - 49.75	1.0000	1.0000
L19	12	LDF4-50A(1/2)	44.75 - 49.75	1.0000	1.0000
L19	20	CCI 6.5" x 1.25" Plate	44.75 - 46.50	1.0000	1.0000
L19	21	CCI 6.5" x 1.25" Plate	44.75 - 46.50	1.0000	1.0000
L19	22	CCI 6.5" x 1.25" Plate	44.75 - 46.50	1.0000	1.0000
L19	24	CCI 6" x 1" Plate	44.75 - 49.75	1.0000	1.0000
L19	25	CCI 6" x 1" Plate	44.75 - 49.75	1.0000	1.0000
L19	26	CCI 6" x 1" Plate	44.75 - 49.75	1.0000	1.0000
L19	33	Climbing Rungs	44.75 - 49.75	1.0000	1.0000
L19	34	Safety Line 3/8	44.75 - 49.75	1.0000	1.0000
L20	11	HB114-1-0813U4-M5J(1-1/4)	40.00 - 44.75	1.0000	1.0000
L20	12	LDF4-50A(1/2)	40.00 - 44.75	1.0000	1.0000
L20	20	CCI 6.5" x 1.25" Plate	40.00 - 44.75	1.0000	1.0000
L20	21	CCI 6.5" x 1.25" Plate	40.00 - 44.75	1.0000	1.0000
L20	22	CCI 6.5" x 1.25" Plate	40.00 - 44.75	1.0000	1.0000
L20	24	CCI 6" x 1" Plate	40.50 - 44.75	1.0000	1.0000
L20	25	CCI 6" x 1" Plate	40.50 - 44.75	1.0000	1.0000
L20	26	CCI 6" x 1" Plate	40.50 - 44.75	1.0000	1.0000
L20	33	Climbing Rungs	40.00 - 44.75	1.0000	1.0000
L20	34	Safety Line 3/8	40.00 - 44.75	1.0000	1.0000
L21	11	HB114-1-0813U4-M5J(1-1/4	39.75 - 40.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		)			
L21	12	LDF4-50A(1/2)	39.75 - 40.00	1.0000	1.0000
L21	20	CCI 6.5" x 1.25" Plate	39.75 - 40.00	1.0000	1.0000
L21	21	CCI 6.5" x 1.25" Plate	39.75 - 40.00	1.0000	1.0000
L21	22	CCI 6.5" x 1.25" Plate	39.75 - 40.00	1.0000	1.0000
L21	33	Climbing Rungs	39.75 - 40.00	1.0000	1.0000
L21	34	Safety Line 3/8	39.75 - 40.00	1.0000	1.0000
L22	11	HB114-1-0813U4-M5J(1-1/4	34.75 - 39.75	1.0000	1.0000
		)			
L22	12	LDF4-50A(1/2)	34.75 - 39.75	1.0000	1.0000
L22	20	CCI 6.5" x 1.25" Plate	34.75 - 39.75	1.0000	1.0000
L22	21	CCI 6.5" x 1.25" Plate	34.75 - 39.75	1.0000	1.0000
L22	22	CCI 6.5" x 1.25" Plate	34.75 - 39.75	1.0000	1.0000
L22	33	Climbing Rungs	34.75 - 39.75	1.0000	1.0000
L22	34	Safety Line 3/8	34.75 - 39.75	1.0000	1.0000
L23	11	HB114-1-0813U4-M5J(1-1/4	29.75 - 34.75	1.0000	1.0000
		)			
L23	12	LDF4-50A(1/2)	29.75 - 34.75	1.0000	1.0000
L23	20	CCI 6.5" x 1.25" Plate	29.75 - 34.75	1.0000	1.0000
L23	21	CCI 6.5" x 1.25" Plate	29.75 - 34.75	1.0000	1.0000
L23	22	CCI 6.5" x 1.25" Plate	29.75 - 34.75	1.0000	1.0000
L23	33	Climbing Rungs	29.75 - 34.75	1.0000	1.0000
L23	34	Safety Line 3/8	29.75 - 34.75	1.0000	1.0000
L24	11	HB114-1-0813U4-M5J(1-1/4	24.75 - 29.75	1.0000	1.0000
		)			
L24	12	LDF4-50A(1/2)	24.75 - 29.75	1.0000	1.0000
L24	16	CCI 8.5" x 1.25" Plate	24.75 - 28.50	1.0000	1.0000
L24	17	CCI 8.5" x 1.25" Plate	24.75 - 28.50	1.0000	1.0000
L24	18	CCI 8.5" x 1.25" Plate	24.75 - 28.50	1.0000	1.0000
L24	20	CCI 6.5" x 1.25" Plate	24.75 - 29.75	1.0000	1.0000
L24	21	CCI 6.5" x 1.25" Plate	24.75 - 29.75	1.0000	1.0000
L24	22	CCI 6.5" x 1.25" Plate	24.75 - 29.75	1.0000	1.0000
L24	33	Climbing Rungs	24.75 - 29.75	1.0000	1.0000
L24	34	Safety Line 3/8	24.75 - 29.75	1.0000	1.0000
L25	11	HB114-1-0813U4-M5J(1-1/4	20.00 - 24.75	1.0000	1.0000
		)			
L25	12	LDF4-50A(1/2)	20.00 - 24.75	1.0000	1.0000
L25	16	CCI 8.5" x 1.25" Plate	20.00 - 24.75	1.0000	1.0000
L25	17	CCI 8.5" x 1.25" Plate	20.00 - 24.75	1.0000	1.0000
L25	18	CCI 8.5" x 1.25" Plate	20.00 - 24.75	1.0000	1.0000
L25	20	CCI 6.5" x 1.25" Plate	20.50 - 24.75	1.0000	1.0000
L25	21	CCI 6.5" x 1.25" Plate	20.50 - 24.75	1.0000	1.0000
L25	22	CCI 6.5" x 1.25" Plate	20.50 - 24.75	1.0000	1.0000
L25	33	Climbing Rungs	20.00 - 24.75	1.0000	1.0000
L25	34	Safety Line 3/8	20.00 - 24.75	1.0000	1.0000
L26	11	HB114-1-0813U4-M5J(1-1/4	19.75 - 20.00	1.0000	1.0000
		)			
L26	12	LDF4-50A(1/2)	19.75 - 20.00	1.0000	1.0000
L26	16	CCI 8.5" x 1.25" Plate	19.75 - 20.00	1.0000	1.0000
L26	17	CCI 8.5" x 1.25" Plate	19.75 - 20.00	1.0000	1.0000
L26	18	CCI 8.5" x 1.25" Plate	19.75 - 20.00	1.0000	1.0000
L26	33	Climbing Rungs	19.75 - 20.00	1.0000	1.0000
L26	34	Safety Line 3/8	19.75 - 20.00	1.0000	1.0000
L27	11	HB114-1-0813U4-M5J(1-1/4	14.75 - 19.75	1.0000	1.0000
		)			
L27	12	LDF4-50A(1/2)	14.75 - 19.75	1.0000	1.0000
L27	16	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L27	17	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L27	18	CCI 8.5" x 1.25" Plate	14.75 - 19.75	1.0000	1.0000
L27	33	Climbing Rungs	14.75 - 19.75	1.0000	1.0000
L27	34	Safety Line 3/8	14.75 - 19.75	1.0000	1.0000
L28	11	HB114-1-0813U4-M5J(1-1/4	9.75 - 14.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
		)			
L28	12	LDF4-50A(1/2)	9.75 - 14.75	1.0000	1.0000
L28	16	CCI 8.5" x 1.25" Plate	9.75 - 14.75	1.0000	1.0000
L28	17	CCI 8.5" x 1.25" Plate	9.75 - 14.75	1.0000	1.0000
L28	18	CCI 8.5" x 1.25" Plate	9.75 - 14.75	1.0000	1.0000
L28	33	Climbing Rungs	9.75 - 14.75	1.0000	1.0000
L28	34	Safety Line 3/8	9.75 - 14.75	1.0000	1.0000
L29	11	HB114-1-0813U4-M5J(1-1/4	4.75 - 9.75	1.0000	1.0000
		)			
L29	12	LDF4-50A(1/2)	4.75 - 9.75	1.0000	1.0000
L29	16	CCI 8.5" x 1.25" Plate	4.75 - 9.75	1.0000	1.0000
L29	17	CCI 8.5" x 1.25" Plate	4.75 - 9.75	1.0000	1.0000
L29	18	CCI 8.5" x 1.25" Plate	4.75 - 9.75	1.0000	1.0000
L29	33	Climbing Rungs	4.75 - 9.75	1.0000	1.0000
L29	34	Safety Line 3/8	4.75 - 9.75	1.0000	1.0000
L30	11	HB114-1-0813U4-M5J(1-1/4	4.39 - 4.75	1.0000	1.0000
		)			
L30	12	LDF4-50A(1/2)	4.39 - 4.75	1.0000	1.0000
L30	16	CCI 8.5" x 1.25" Plate	4.39 - 4.75	1.0000	1.0000
L30	17	CCI 8.5" x 1.25" Plate	4.39 - 4.75	1.0000	1.0000
L30	18	CCI 8.5" x 1.25" Plate	4.39 - 4.75	1.0000	1.0000
L30	33	Climbing Rungs	4.39 - 4.75	1.0000	1.0000
L30	34	Safety Line 3/8	4.39 - 4.75	1.0000	1.0000
L31	11	HB114-1-0813U4-M5J(1-1/4	4.14 - 4.39	1.0000	1.0000
		)			
L31	12	LDF4-50A(1/2)	4.14 - 4.39	1.0000	1.0000
L31	16	CCI 8.5" x 1.25" Plate	4.14 - 4.39	1.0000	1.0000
L31	17	CCI 8.5" x 1.25" Plate	4.14 - 4.39	1.0000	1.0000
L31	18	CCI 8.5" x 1.25" Plate	4.14 - 4.39	1.0000	1.0000
L31	33	Climbing Rungs	4.14 - 4.39	1.0000	1.0000
L31	34	Safety Line 3/8	4.14 - 4.39	1.0000	1.0000
L32	11	HB114-1-0813U4-M5J(1-1/4	0.00 - 4.14	1.0000	1.0000
		)			
L32	12	LDF4-50A(1/2)	0.00 - 4.14	1.0000	1.0000
L32	16	CCI 8.5" x 1.25" Plate	0.00 - 4.14	1.0000	1.0000
L32	17	CCI 8.5" x 1.25" Plate	0.00 - 4.14	1.0000	1.0000
L32	18	CCI 8.5" x 1.25" Plate	0.00 - 4.14	1.0000	1.0000
L32	33	Climbing Rungs	0.00 - 4.14	1.0000	1.0000
L32	34	Safety Line 3/8	0.00 - 4.14	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
L8	36	Bridge Stiffener (78"x4.5"x1.0")-80'	85.00 - 86.48	Auto	1.0000
L8	37	Bridge Stiffener (78"x4.5"x1.0")-80'	85.00 - 86.48	Auto	1.0000
L8	38	Bridge Stiffener (78"x4.5"x1.0")-80'	85.00 - 86.48	Auto	1.0000
L9	36	Bridge Stiffener (78"x4.5"x1.0")-80'	80.00 - 85.00	Auto	1.0000
L9	37	Bridge Stiffener (78"x4.5"x1.0")-80'	80.00 - 85.00	Auto	1.0000
L9	38	Bridge Stiffener (78"x4.5"x1.0")-80'	80.00 - 85.00	Auto	1.0000
L10	36	Bridge Stiffener	77.48 - 80.00	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L10	37	(78"x4.5"x1.0")-80' Bridge Stiffener	77.48 - 80.00	Auto	1.0000
L10	38	(78"x4.5"x1.0")-80' Bridge Stiffener	77.48 - 80.00	Auto	1.0000
L11	28	(78"x4.5"x1.0")-80' CCI 6" x 1" Plate	75.46 - 75.50	Auto	1.0000
L11	29	CCI 6" x 1" Plate	75.46 - 75.50	Auto	1.0000
L11	30	CCI 6" x 1" Plate	75.46 - 75.50	Auto	1.0000
L12	28	CCI 6" x 1" Plate	70.46 - 75.46	Auto	1.0000
L12	29	CCI 6" x 1" Plate	70.46 - 75.46	Auto	1.0000
L12	30	CCI 6" x 1" Plate	70.46 - 75.46	Auto	1.0000
L13	24	CCI 6" x 1" Plate	65.46 - 65.50	Auto	1.0000
L13	25	CCI 6" x 1" Plate	65.46 - 65.50	Auto	1.0000
L13	26	CCI 6" x 1" Plate	65.46 - 65.50	Auto	1.0000
L13	28	CCI 6" x 1" Plate	65.46 - 70.46	Auto	1.0000
L13	29	CCI 6" x 1" Plate	65.46 - 70.46	Auto	1.0000
L13	30	CCI 6" x 1" Plate	65.46 - 70.46	Auto	1.0000
L14	24	CCI 6" x 1" Plate	60.46 - 65.46	Auto	1.0000
L14	25	CCI 6" x 1" Plate	60.46 - 65.46	Auto	1.0000
L14	26	CCI 6" x 1" Plate	60.46 - 65.46	Auto	1.0000
L14	28	CCI 6" x 1" Plate	60.50 - 65.46	Auto	1.0000
L14	29	CCI 6" x 1" Plate	60.50 - 65.46	Auto	1.0000
L14	30	CCI 6" x 1" Plate	60.50 - 65.46	Auto	1.0000
L15	24	CCI 6" x 1" Plate	60.00 - 60.46	Auto	1.0000
L15	25	CCI 6" x 1" Plate	60.00 - 60.46	Auto	1.0000
L15	26	CCI 6" x 1" Plate	60.00 - 60.46	Auto	1.0000
L16	24	CCI 6" x 1" Plate	59.75 - 60.00	Auto	1.0000
L16	25	CCI 6" x 1" Plate	59.75 - 60.00	Auto	1.0000
L16	26	CCI 6" x 1" Plate	59.75 - 60.00	Auto	1.0000
L17	24	CCI 6" x 1" Plate	54.75 - 59.75	Auto	1.0000
L17	25	CCI 6" x 1" Plate	54.75 - 59.75	Auto	1.0000
L17	26	CCI 6" x 1" Plate	54.75 - 59.75	Auto	1.0000
L18	24	CCI 6" x 1" Plate	49.75 - 54.75	Auto	1.0000
L18	25	CCI 6" x 1" Plate	49.75 - 54.75	Auto	1.0000
L18	26	CCI 6" x 1" Plate	49.75 - 54.75	Auto	1.0000
L19	20	CCI 6.5" x 1.25" Plate	44.75 - 46.50	Auto	1.0000
L19	21	CCI 6.5" x 1.25" Plate	44.75 - 46.50	Auto	1.0000
L19	22	CCI 6.5" x 1.25" Plate	44.75 - 46.50	Auto	1.0000
L19	24	CCI 6" x 1" Plate	44.75 - 49.75	Auto	1.0000
L19	25	CCI 6" x 1" Plate	44.75 - 49.75	Auto	1.0000
L19	26	CCI 6" x 1" Plate	44.75 - 49.75	Auto	1.0000
L20	20	CCI 6.5" x 1.25" Plate	40.00 - 44.75	Auto	1.0000
L20	21	CCI 6.5" x 1.25" Plate	40.00 - 44.75	Auto	1.0000
L20	22	CCI 6.5" x 1.25" Plate	40.00 - 44.75	Auto	1.0000
L20	24	CCI 6" x 1" Plate	40.50 - 44.75	Auto	1.0000
L20	25	CCI 6" x 1" Plate	40.50 - 44.75	Auto	1.0000
L20	26	CCI 6" x 1" Plate	40.50 - 44.75	Auto	1.0000
L21	20	CCI 6.5" x 1.25" Plate	39.75 - 40.00	Auto	1.0000
L21	21	CCI 6.5" x 1.25" Plate	39.75 - 40.00	Auto	1.0000
L21	22	CCI 6.5" x 1.25" Plate	39.75 - 40.00	Auto	1.0000
L22	20	CCI 6.5" x 1.25" Plate	34.75 - 39.75	Auto	1.0000
L22	21	CCI 6.5" x 1.25" Plate	34.75 - 39.75	Auto	1.0000
L22	22	CCI 6.5" x 1.25" Plate	34.75 - 39.75	Auto	1.0000
L23	20	CCI 6.5" x 1.25" Plate	29.75 - 34.75	Auto	1.0000
L23	21	CCI 6.5" x 1.25" Plate	29.75 - 34.75	Auto	1.0000
L23	22	CCI 6.5" x 1.25" Plate	29.75 - 34.75	Auto	1.0000
L24	16	CCI 8.5" x 1.25" Plate	24.75 - 28.50	Auto	1.0000
L24	17	CCI 8.5" x 1.25" Plate	24.75 - 28.50	Auto	1.0000
L24	18	CCI 8.5" x 1.25" Plate	24.75 - 28.50	Auto	1.0000
L24	20	CCI 6.5" x 1.25" Plate	24.75 - 29.75	Auto	1.0000
L24	21	CCI 6.5" x 1.25" Plate	24.75 - 29.75	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L24	22	CCI 6.5" x 1.25" Plate	24.75 - 29.75	Auto	1.0000
L25	16	CCI 8.5" x 1.25" Plate	20.00 - 24.75	Auto	1.0000
L25	17	CCI 8.5" x 1.25" Plate	20.00 - 24.75	Auto	1.0000
L25	18	CCI 8.5" x 1.25" Plate	20.00 - 24.75	Auto	1.0000
L25	20	CCI 6.5" x 1.25" Plate	20.50 - 24.75	Auto	1.0000
L25	21	CCI 6.5" x 1.25" Plate	20.50 - 24.75	Auto	1.0000
L25	22	CCI 6.5" x 1.25" Plate	20.50 - 24.75	Auto	1.0000
L26	16	CCI 8.5" x 1.25" Plate	19.75 - 20.00	Auto	1.0000
L26	17	CCI 8.5" x 1.25" Plate	19.75 - 20.00	Auto	1.0000
L26	18	CCI 8.5" x 1.25" Plate	19.75 - 20.00	Auto	1.0000
L27	16	CCI 8.5" x 1.25" Plate	14.75 - 19.75	Auto	1.0000
L27	17	CCI 8.5" x 1.25" Plate	14.75 - 19.75	Auto	1.0000
L27	18	CCI 8.5" x 1.25" Plate	14.75 - 19.75	Auto	1.0000
L28	16	CCI 8.5" x 1.25" Plate	9.75 - 14.75	Auto	1.0000
L28	17	CCI 8.5" x 1.25" Plate	9.75 - 14.75	Auto	1.0000
L28	18	CCI 8.5" x 1.25" Plate	9.75 - 14.75	Auto	1.0000
L29	16	CCI 8.5" x 1.25" Plate	4.75 - 9.75	Auto	1.0000
L29	17	CCI 8.5" x 1.25" Plate	4.75 - 9.75	Auto	1.0000
L29	18	CCI 8.5" x 1.25" Plate	4.75 - 9.75	Auto	1.0000
L30	16	CCI 8.5" x 1.25" Plate	4.39 - 4.75	Auto	1.0000
L30	17	CCI 8.5" x 1.25" Plate	4.39 - 4.75	Auto	1.0000
L30	18	CCI 8.5" x 1.25" Plate	4.39 - 4.75	Auto	1.0000
L31	16	CCI 8.5" x 1.25" Plate	4.14 - 4.39	Auto	1.0000
L31	17	CCI 8.5" x 1.25" Plate	4.14 - 4.39	Auto	1.0000
L31	18	CCI 8.5" x 1.25" Plate	4.14 - 4.39	Auto	1.0000
L32	16	CCI 8.5" x 1.25" Plate	0.00 - 4.14	Auto	1.0000
L32	17	CCI 8.5" x 1.25" Plate	0.00 - 4.14	Auto	1.0000
L32	18	CCI 8.5" x 1.25" Plate	0.00 - 4.14	Auto	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.140 3.450 3.770 4.430	2.590 2.880 3.190 3.840	0.112 0.164 0.225 0.375
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.140 3.450 3.770 4.430	2.590 2.880 3.190 3.840	0.112 0.164 0.225 0.375
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.140 3.450 3.770 4.430	2.590 2.880 3.190 3.840	0.112 0.164 0.225 0.375
APXVAALL24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.183 0.311 0.453 0.782
APXVAALL24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.183 0.311 0.453 0.782

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
APXVAALL24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.183 0.311 0.453 0.782
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.140 3.450 3.770 4.430	2.590 2.880 3.190 3.840	0.111 0.163 0.224 0.374
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.140 3.450 3.770 4.430	2.590 2.880 3.190 3.840	0.111 0.163 0.224 0.374
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.140 3.450 3.770 4.430	2.590 2.880 3.190 3.840	0.111 0.163 0.224 0.374
RADIO 4449 B71/B85A	A	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.644 1.804 1.972 2.329	1.310 1.455 1.608 1.936	0.075 0.092 0.112 0.161
RADIO 4449 B71/B85A	B	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.644 1.804 1.972 2.329	1.310 1.455 1.608 1.936	0.075 0.092 0.112 0.161
RADIO 4449 B71/B85A	C	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.644 1.804 1.972 2.329	1.310 1.455 1.608 1.936	0.075 0.092 0.112 0.161
KRY 112 144/1	A	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
KRY 112 144/1	B	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
KRY 112 144/1	C	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.350 0.426 0.509 0.698	0.175 0.234 0.301 0.456	0.011 0.014 0.019 0.032
17' x 2.375" Horizontal Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.037 5.766 7.510 11.050	4.037 5.766 7.510 11.050	0.080 0.110 0.151 0.266
17' x 2.375" Horizontal Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.037 5.766 7.510 11.050	4.037 5.766 7.510 11.050	0.080 0.110 0.151 0.266
17' x 2.375" Horizontal Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.037 5.766 7.510 11.050	4.037 5.766 7.510 11.050	0.080 0.110 0.151 0.266
L 2 1/2x2 1/2x1/4x15.62"	A	From Leg	4.000 0.000 0.000	0.000	122.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.325 0.430 0.542 0.787	0.007 0.025 0.051 0.126	0.020 0.022 0.025 0.037
L 2 1/2x2 1/2x1/4x15.62"	B	From Leg	4.000	0.000	122.000	No Ice	0.325	0.007	0.020

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1/2" Ice	0.430	0.025	0.022
			0.000			1" Ice	0.542	0.051	0.025
						2" Ice	0.787	0.126	0.037
L 2 1/2x2 1/2x1/4x15.62"	C	From Leg	4.000	0.000	122.000	No Ice	0.325	0.007	0.020
			0.000			1/2" Ice	0.430	0.025	0.022
			0.000			1" Ice	0.542	0.051	0.025
						2" Ice	0.787	0.126	0.037
Platform Mount [LP 405-1]	C	None		0.000	122.000	No Ice	20.880	20.880	1.800
						1/2" Ice	28.890	28.890	2.277
						1" Ice	37.040	37.040	2.868
						2" Ice	53.730	53.730	4.394
*									
HBXX-6517DS-A2M w/ Mount Pipe	A	From Leg	4.000	0.000	112.000	No Ice	7.970	5.990	0.076
			0.000			1/2" Ice	8.730	6.720	0.139
			1.000			1" Ice	9.510	7.470	0.214
						2" Ice	11.110	9.020	0.397
HBXX-6517DS-A2M w/ Mount Pipe	B	From Leg	4.000	0.000	112.000	No Ice	7.970	5.990	0.076
			0.000			1/2" Ice	8.730	6.720	0.139
			1.000			1" Ice	9.510	7.470	0.214
						2" Ice	11.110	9.020	0.397
HBXX-6517DS-A2M w/ Mount Pipe	C	From Leg	4.000	0.000	112.000	No Ice	7.970	5.990	0.076
			0.000			1/2" Ice	8.730	6.720	0.139
			1.000			1" Ice	9.510	7.470	0.214
						2" Ice	11.110	9.020	0.397
RXXDC-3315-PF-48	A	From Leg	4.000	0.000	112.000	No Ice	3.708	2.192	0.032
			0.000			1/2" Ice	3.950	2.395	0.062
			1.000			1" Ice	4.200	2.606	0.097
						2" Ice	4.723	3.049	0.176
RXXDC-3315-PF-48	B	From Leg	4.000	0.000	112.000	No Ice	3.708	2.192	0.032
			0.000			1/2" Ice	3.950	2.395	0.062
			1.000			1" Ice	4.200	2.606	0.097
						2" Ice	4.723	3.049	0.176
MT6407-77A w/ Mount Pipe	A	From Leg	4.000	0.000	112.000	No Ice	4.907	2.682	0.096
			0.000			1/2" Ice	5.256	3.145	0.136
			1.000			1" Ice	5.615	3.624	0.180
						2" Ice	6.362	4.631	0.288
MT6407-77A w/ Mount Pipe	B	From Leg	4.000	0.000	112.000	No Ice	4.907	2.682	0.096
			0.000			1/2" Ice	5.256	3.145	0.136
			1.000			1" Ice	5.615	3.624	0.180
						2" Ice	6.362	4.631	0.288
MT6407-77A w/ Mount Pipe	C	From Leg	4.000	0.000	112.000	No Ice	4.907	2.682	0.096
			0.000			1/2" Ice	5.256	3.145	0.136
			1.000			1" Ice	5.615	3.624	0.180
						2" Ice	6.362	4.631	0.288
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	4.000	0.000	112.000	No Ice	6.540	5.550	0.103
			0.000			1/2" Ice	7.060	6.050	0.185
			1.000			1" Ice	7.600	6.570	0.277
						2" Ice	8.700	7.650	0.496
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.000	0.000	112.000	No Ice	6.540	5.550	0.103
			0.000			1/2" Ice	7.060	6.050	0.185
			1.000			1" Ice	7.600	6.570	0.277
						2" Ice	8.700	7.650	0.496
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.000	0.000	112.000	No Ice	6.540	5.550	0.103
			0.000			1/2" Ice	7.060	6.050	0.185
			1.000			1" Ice	7.600	6.570	0.277
						2" Ice	8.700	7.650	0.496
RFV01U-D1A	A	From Leg	4.000	0.000	112.000	No Ice	1.875	1.250	0.084

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1/2" Ice	2.045	1.393	0.103
			1.000			1" Ice	2.223	1.543	0.124
						2" Ice	2.601	1.865	0.175
RFV01U-D1A	B	From Leg	4.000	0.000	112.000	No Ice	1.875	1.250	0.084
			0.000			1/2" Ice	2.045	1.393	0.103
			1.000			1" Ice	2.223	1.543	0.124
						2" Ice	2.601	1.865	0.175
RFV01U-D1A	C	From Leg	4.000	0.000	112.000	No Ice	1.875	1.250	0.084
			0.000			1/2" Ice	2.045	1.393	0.103
			1.000			1" Ice	2.223	1.543	0.124
						2" Ice	2.601	1.865	0.175
RFV01U-D2A	A	From Leg	4.000	0.000	112.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			1.000			1" Ice	2.223	1.284	0.106
						2" Ice	2.601	1.585	0.153
RFV01U-D2A	B	From Leg	4.000	0.000	112.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			1.000			1" Ice	2.223	1.284	0.106
						2" Ice	2.601	1.585	0.153
RFV01U-D2A	C	From Leg	4.000	0.000	112.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			1.000			1" Ice	2.223	1.284	0.106
						2" Ice	2.601	1.585	0.153
Mount Reinforcement Specifications	C	None		0.000	112.000	No Ice	28.630	28.630	0.280
						1/2" Ice	37.310	37.310	0.670
						1" Ice	45.800	45.800	0.940
						2" Ice	62.380	62.380	1.630
Side Arm Mount [SO 102-1]	A	From Leg	4.000	0.000	112.000	No Ice	1.500	1.500	0.025
			0.000			1/2" Ice	1.740	1.740	0.035
			0.000			1" Ice	1.980	1.980	0.045
						2" Ice	2.460	2.460	0.065
Side Arm Mount [SO 102-1]	B	From Leg	4.000	0.000	112.000	No Ice	1.500	1.500	0.025
			0.000			1/2" Ice	1.740	1.740	0.035
			0.000			1" Ice	1.980	1.980	0.045
						2" Ice	2.460	2.460	0.065
Side Arm Mount [SO 102-1]	C	From Leg	4.000	0.000	112.000	No Ice	1.500	1.500	0.025
			0.000			1/2" Ice	1.740	1.740	0.035
			0.000			1" Ice	1.980	1.980	0.045
						2" Ice	2.460	2.460	0.065
Platform Mount [LP 303-1]	C	None		0.000	112.000	No Ice	14.690	14.690	1.250
						1/2" Ice	18.010	18.010	1.569
						1" Ice	21.340	21.340	1.942
						2" Ice	28.080	28.080	2.852
*									
7770.00 w/ Mount Pipe	A	From Leg	4.000	0.000	100.000	No Ice	5.746	4.254	0.055
			0.000			1/2" Ice	6.179	5.014	0.103
			0.000			1" Ice	6.607	5.711	0.157
						2" Ice	7.488	7.155	0.287
7770.00 w/ Mount Pipe	C	From Leg	4.000	0.000	100.000	No Ice	5.746	4.254	0.055
			0.000			1/2" Ice	6.179	5.014	0.103
			0.000			1" Ice	6.607	5.711	0.157
						2" Ice	7.488	7.155	0.287
(2) 80010965 w/ Mount Pipe	A	From Leg	4.000	0.000	100.000	No Ice	12.260	5.790	0.136
			0.000			1/2" Ice	13.030	6.470	0.226
			0.000			1" Ice	13.800	7.170	0.328
						2" Ice	15.410	8.600	0.570
(2) 80010964 w/ Mount Pipe	B	From Leg	4.000	0.000	100.000	No Ice	8.610	4.100	0.116

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Offsets: Vert ft	Offsets: ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000					1/2" Ice	9.180	4.590	0.186
			0.000					1" Ice	9.770	5.100	0.265
								2" Ice	10.980	6.160	0.453
(2) 80010964 w/ Mount Pipe	C	From Leg	4.000			0.000	100.000	No Ice	8.610	4.100	0.116
			0.000					1/2" Ice	9.180	4.590	0.186
			0.000					1" Ice	9.770	5.100	0.265
								2" Ice	10.980	6.160	0.453
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	4.000			0.000	100.000	No Ice	9.220	6.250	0.074
			0.000					1/2" Ice	9.980	6.960	0.143
			0.000					1" Ice	10.760	7.700	0.224
								2" Ice	12.360	9.220	0.420
(2) SBNHH-1D65A w/ Mount Pipe	B	From Leg	4.000			0.000	100.000	No Ice	3.040	2.450	0.054
			0.000					1/2" Ice	3.340	2.750	0.104
			0.000					1" Ice	3.650	3.050	0.162
								2" Ice	4.310	3.680	0.307
SBNHH-1D65A w/ Mount Pipe	C	From Leg	4.000			0.000	100.000	No Ice	3.040	2.450	0.054
			0.000					1/2" Ice	3.340	2.750	0.104
			0.000					1" Ice	3.650	3.050	0.162
								2" Ice	4.310	3.680	0.307
(2) DC6-48-60-18-8F	A	From Leg	4.000			0.000	100.000	No Ice	1.212	1.212	0.033
			0.000					1/2" Ice	1.892	1.892	0.055
			0.000					1" Ice	2.105	2.105	0.080
								2" Ice	2.570	2.570	0.138
DC6-48-60-18-8F	B	From Leg	4.000			0.000	100.000	No Ice	1.212	1.212	0.033
			0.000					1/2" Ice	1.892	1.892	0.055
			0.000					1" Ice	2.105	2.105	0.080
								2" Ice	2.570	2.570	0.138
(2) LGP21401	A	From Leg	4.000			0.000	100.000	No Ice	1.104	0.207	0.014
			0.000					1/2" Ice	1.239	0.274	0.021
			0.000					1" Ice	1.381	0.348	0.030
								2" Ice	1.688	0.521	0.055
(2) LGP21401	B	From Leg	4.000			0.000	100.000	No Ice	1.104	0.207	0.014
			0.000					1/2" Ice	1.239	0.274	0.021
			0.000					1" Ice	1.381	0.348	0.030
								2" Ice	1.688	0.521	0.055
(2) LGP21401	C	From Leg	4.000			0.000	100.000	No Ice	1.104	0.207	0.014
			0.000					1/2" Ice	1.239	0.274	0.021
			0.000					1" Ice	1.381	0.348	0.030
								2" Ice	1.688	0.521	0.055
RRUS 8843 B2/B66A	A	From Leg	4.000			0.000	100.000	No Ice	1.639	1.353	0.072
			0.000					1/2" Ice	1.799	1.500	0.090
			0.000					1" Ice	1.966	1.655	0.110
								2" Ice	2.323	1.986	0.159
RRUS 8843 B2/B66A	B	From Leg	4.000			0.000	100.000	No Ice	1.639	1.353	0.072
			0.000					1/2" Ice	1.799	1.500	0.090
			0.000					1" Ice	1.966	1.655	0.110
								2" Ice	2.323	1.986	0.159
RRUS 8843 B2/B66A	C	From Leg	4.000			0.000	100.000	No Ice	1.639	1.353	0.072
			0.000					1/2" Ice	1.799	1.500	0.090
			0.000					1" Ice	1.966	1.655	0.110
								2" Ice	2.323	1.986	0.159
RRUS 4449 B5/B12	A	From Leg	4.000			0.000	100.000	No Ice	1.968	1.408	0.071
			0.000					1/2" Ice	2.144	1.564	0.090
			0.000					1" Ice	2.328	1.727	0.111
								2" Ice	2.718	2.075	0.163
RRUS 4449 B5/B12	B	From Leg	4.000			0.000	100.000	No Ice	1.968	1.408	0.071
			0.000					1/2" Ice	2.144	1.564	0.090

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	2.328	1.727	0.111
						2" Ice	2.718	2.075	0.163
RRUS 4449 B5/B12	C	From Leg	4.000	0.000	100.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			0.000			1" Ice	2.328	1.727	0.111
						2" Ice	2.718	2.075	0.163
RRUS 32	A	From Leg	4.000	0.000	100.000	No Ice	2.857	1.777	0.055
			0.000			1/2" Ice	3.083	1.968	0.077
			0.000			1" Ice	3.316	2.166	0.103
						2" Ice	3.805	2.583	0.165
RRUS 32	B	From Leg	4.000	0.000	100.000	No Ice	2.857	1.777	0.055
			0.000			1/2" Ice	3.083	1.968	0.077
			0.000			1" Ice	3.316	2.166	0.103
						2" Ice	3.805	2.583	0.165
RRUS 32	C	From Leg	4.000	0.000	100.000	No Ice	2.857	1.777	0.055
			0.000			1/2" Ice	3.083	1.968	0.077
			0.000			1" Ice	3.316	2.166	0.103
						2" Ice	3.805	2.583	0.165
T-Arm Mount [TA 602-3]	C	None		0.000	100.000	No Ice	13.400	13.400	0.774
						1/2" Ice	16.440	16.440	1.004
						1" Ice	19.700	19.700	1.292
						2" Ice	25.860	25.860	2.053
*									
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.000	0.000	90.000	No Ice	4.090	2.860	0.077
			0.000			1/2" Ice	4.480	3.230	0.127
			0.000			1" Ice	4.880	3.610	0.185
						2" Ice	5.710	4.400	0.331
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.000	0.000	90.000	No Ice	4.090	2.860	0.077
			0.000			1/2" Ice	4.480	3.230	0.127
			0.000			1" Ice	4.880	3.610	0.185
						2" Ice	5.710	4.400	0.331
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.000	0.000	90.000	No Ice	4.090	2.860	0.077
			0.000			1/2" Ice	4.480	3.230	0.127
			0.000			1" Ice	4.880	3.610	0.185
						2" Ice	5.710	4.400	0.331
NNVV-65B-R4 w/ Mount Pipe	A	From Leg	4.000	0.000	90.000	No Ice	7.550	4.230	0.110
			0.000			1/2" Ice	8.040	4.670	0.197
			0.000			1" Ice	8.530	5.120	0.296
						2" Ice	9.560	6.050	0.529
NNVV-65B-R4 w/ Mount Pipe	B	From Leg	4.000	0.000	90.000	No Ice	7.550	4.230	0.110
			0.000			1/2" Ice	8.040	4.670	0.197
			0.000			1" Ice	8.530	5.120	0.296
						2" Ice	9.560	6.050	0.529
NNVV-65B-R4 w/ Mount Pipe	C	From Leg	4.000	0.000	90.000	No Ice	7.550	4.230	0.110
			0.000			1/2" Ice	8.040	4.670	0.197
			0.000			1" Ice	8.530	5.120	0.296
						2" Ice	9.560	6.050	0.529
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	4.000	0.000	90.000	No Ice	2.313	2.229	0.060
			0.000			1/2" Ice	2.517	2.431	0.083
			0.000			1" Ice	2.728	2.641	0.109
						2" Ice	3.174	3.082	0.172
(2) PCS 1900MHZ 4X45W-65MHZ	B	From Leg	4.000	0.000	90.000	No Ice	2.313	2.229	0.060
			0.000			1/2" Ice	2.517	2.431	0.083
			0.000			1" Ice	2.728	2.641	0.109
						2" Ice	3.174	3.082	0.172
(2) RRH2X50-800	A	From Leg	4.000	0.000	90.000	No Ice	1.701	1.282	0.053
			0.000			1/2" Ice	1.864	1.428	0.070

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	2.035	1.580	0.090
						2" Ice	2.398	1.908	0.138
(2) RRH2X50-800	B	From Leg	4.000	0.000	90.000	No Ice	1.701	1.282	0.053
			0.000			1/2" Ice	1.864	1.428	0.070
			0.000			1" Ice	2.035	1.580	0.090
						2" Ice	2.398	1.908	0.138
(2) RRH2X50-800	C	From Leg	4.000	0.000	90.000	No Ice	1.701	1.282	0.053
			0.000			1/2" Ice	1.864	1.428	0.070
			0.000			1" Ice	2.035	1.580	0.090
						2" Ice	2.398	1.908	0.138
FZHN	A	From Leg	4.000	0.000	90.000	No Ice	2.020	0.607	0.044
			0.000			1/2" Ice	2.197	0.715	0.058
			0.000			1" Ice	2.381	0.829	0.075
						2" Ice	2.772	1.089	0.116
FZHN	B	From Leg	4.000	0.000	90.000	No Ice	2.020	0.607	0.044
			0.000			1/2" Ice	2.197	0.715	0.058
			0.000			1" Ice	2.381	0.829	0.075
						2" Ice	2.772	1.089	0.116
FZHN	C	From Leg	4.000	0.000	90.000	No Ice	2.020	0.607	0.044
			0.000			1/2" Ice	2.197	0.715	0.058
			0.000			1" Ice	2.381	0.829	0.075
						2" Ice	2.772	1.089	0.116
(2) AIRPAIR ODU	B	From Leg	4.000	0.000	90.000	No Ice	1.007	0.456	0.012
			0.000			1/2" Ice	1.141	0.561	0.019
			-2.000			1" Ice	1.282	0.673	0.028
						2" Ice	1.587	0.919	0.053
AIRPAIR ODU	C	From Leg	4.000	0.000	90.000	No Ice	1.007	0.456	0.012
			0.000			1/2" Ice	1.141	0.561	0.019
			-2.000			1" Ice	1.282	0.673	0.028
						2" Ice	1.587	0.919	0.053
(2) 8' x 2.375" Mount Pipe	A	From Leg	4.000	0.000	90.000	No Ice	1.900	1.900	0.061
			0.000			1/2" Ice	2.728	2.728	0.075
			0.000			1" Ice	3.401	3.401	0.095
						2" Ice	4.396	4.396	0.150
(2) 8' x 2.375" Mount Pipe	B	From Leg	4.000	0.000	90.000	No Ice	1.900	1.900	0.061
			0.000			1/2" Ice	2.728	2.728	0.075
			0.000			1" Ice	3.401	3.401	0.095
						2" Ice	4.396	4.396	0.150
(2) 8' x 2.375" Mount Pipe	C	From Leg	4.000	0.000	90.000	No Ice	1.900	1.900	0.061
			0.000			1/2" Ice	2.728	2.728	0.075
			0.000			1" Ice	3.401	3.401	0.095
						2" Ice	4.396	4.396	0.150
Platform Mount [LP 303-1_KCKR-HR-1]	C	None		0.000	90.000	No Ice	28.310	28.310	1.770
						1/2" Ice	35.690	35.690	2.297
						1" Ice	43.110	43.110	2.943
						2" Ice	58.210	58.210	4.603
*									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000	0.000	81.000	No Ice	8.010	4.230	0.108
			0.000			1/2" Ice	8.520	4.690	0.194
			0.000			1" Ice	9.040	5.160	0.292
						2" Ice	10.110	6.120	0.522
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000	0.000	81.000	No Ice	8.010	4.230	0.108
			0.000			1/2" Ice	8.520	4.690	0.194
			0.000			1" Ice	9.040	5.160	0.292
						2" Ice	10.110	6.120	0.522
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000	0.000	81.000	No Ice	8.010	4.230	0.108
			0.000			1/2" Ice	8.520	4.690	0.194

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	9.040	5.160	0.292
						2" Ice	10.110	6.120	0.522
TA08025-B604	A	From Leg	4.000	0.000	81.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
TA08025-B604	B	From Leg	4.000	0.000	81.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
TA08025-B604	C	From Leg	4.000	0.000	81.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
						2" Ice	2.705	1.548	0.148
TA08025-B605	A	From Leg	4.000	0.000	81.000	No Ice	1.964	1.129	0.075
			0.000			1/2" Ice	2.138	1.267	0.093
			0.000			1" Ice	2.320	1.411	0.114
						2" Ice	2.705	1.723	0.164
TA08025-B605	B	From Leg	4.000	0.000	81.000	No Ice	1.964	1.129	0.075
			0.000			1/2" Ice	2.138	1.267	0.093
			0.000			1" Ice	2.320	1.411	0.114
						2" Ice	2.705	1.723	0.164
TA08025-B605	C	From Leg	4.000	0.000	81.000	No Ice	1.964	1.129	0.075
			0.000			1/2" Ice	2.138	1.267	0.093
			0.000			1" Ice	2.320	1.411	0.114
						2" Ice	2.705	1.723	0.164
RDIDC-9181-PF-48	A	From Leg	4.000	0.000	81.000	No Ice	2.012	1.168	0.022
			0.000			1/2" Ice	2.189	1.311	0.040
			0.000			1" Ice	2.373	1.461	0.060
						2" Ice	2.763	1.784	0.110
(2) 8' x 2" Mount Pipe	A	From Leg	4.000	0.000	81.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
(2) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	81.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	81.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
						2" Ice	4.396	4.396	0.119
Commscope MC-PK8-DSH	C	None		0.000	81.000	No Ice	34.240	34.240	1.749
						1/2" Ice	62.950	62.950	2.099
						1" Ice	91.660	91.660	2.450
						2" Ice	149.080	149.080	3.151
*									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft²	Weight K
Dragonwave A-ANT-18G-2-C	B	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 -2.000	90.000		90.000	2.175	No Ice 1/2" Ice 1" Ice 2" Ice	3.715 4.006 4.296 4.876	0.027 0.048 0.068 0.109
Dragonwave A-ANT-18G-2-C	C	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 -2.000	30.000		90.000	2.175	No Ice 1/2" Ice 1" Ice 2" Ice	3.715 4.006 4.296 4.876	0.027 0.048 0.068 0.109

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

Comb. No.	Description
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	125 - 120	Pole	Max Tension	8	0.000	0.000	-0.000
			Max. Compression	26	-9.861	-0.003	-0.033
			Max. Mx	8	-4.725	-8.076	-0.003
			Max. My	14	-4.721	-0.001	-8.090
			Max. Vy	8	3.965	-8.076	-0.003
			Max. Vx	14	3.969	-0.001	-8.090
			Max. Torque	21			-0.000
L2	120 - 115	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-10.737	-0.010	-0.063
			Max. Mx	8	-5.336	-28.625	-0.004
			Max. My	14	-5.332	-0.003	-28.669
			Max. Vy	8	4.255	-28.625	-0.004
			Max. Vx	14	4.260	-0.003	-28.669
			Max. Torque	24			0.000
L3	115 - 110	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-20.915	-0.619	0.254
			Max. Mx	8	-9.671	-63.947	0.015
			Max. My	2	-9.667	-0.092	63.967
			Max. Vy	8	9.665	-63.947	0.015
			Max. Vx	14	9.701	-0.228	-63.848
			Max. Torque	12			0.392
L4	110 - 105	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-21.804	-0.633	0.227
			Max. Mx	8	-10.308	-112.955	-0.098
			Max. My	2	-10.304	0.017	113.121
			Max. Vy	8	9.939	-112.955	-0.098
			Max. Vx	14	9.976	-0.348	-113.044
			Max. Torque	12			0.392
L5	105 - 100	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-22.692	-0.647	0.200
			Max. Mx	8	-10.953	-163.302	-0.210
			Max. My	2	-10.948	0.126	163.614
			Max. Vy	8	10.202	-163.302	-0.210
			Max. Vx	14	10.239	-0.468	-163.580
			Max. Torque	12			0.392
L6	100 - 95	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-31.377	-1.195	2.310
			Max. Mx	8	-14.847	-233.980	0.335
			Max. My	2	-14.833	-0.004	236.074
			Max. Vy	8	14.268	-233.980	0.335
			Max. Vx	14	14.538	-0.693	-234.791
			Max. Torque	20			-1.898
L7	95 - 90	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-32.539	-1.213	2.275
			Max. Mx	8	-15.724	-306.100	0.288
			Max. My	2	-15.710	0.036	309.489

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	8	14.583	-306.100	0.288
			Max. Vx	14	14.854	-0.747	-308.267
			Max. Torque	20			-1.897
L8	90 - 85	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-42.382	-2.745	1.306
			Max. Mx	8	-20.626	-397.884	0.215
			Max. My	2	-20.614	-0.701	401.327
			Max. Vy	8	18.521	-397.884	0.215
			Max. Vx	2	-18.716	-0.701	401.327
			Max. Torque	22			-2.048
L9	85 - 80	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-49.536	-2.745	1.572
			Max. Mx	8	-24.710	-493.874	0.690
			Max. My	2	-24.698	-0.832	498.407
			Max. Vy	8	21.526	-493.874	0.690
			Max. Vx	14	22.029	-1.094	-498.265
			Max. Torque	24			-2.002
L10	80 - 75.7083	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-50.857	-2.745	1.394
			Max. Mx	8	-25.641	-586.840	0.976
			Max. My	14	-25.607	-0.898	-593.441
			Max. Vy	8	21.811	-586.840	0.976
			Max. Vx	14	22.314	-0.898	-593.441
			Max. Torque	24			-2.002
L11	75.7083 - 75.4583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-50.950	-2.745	1.384
			Max. Mx	8	-25.717	-592.294	0.994
			Max. My	14	-25.684	-0.886	-599.023
			Max. Vy	8	21.827	-592.294	0.994
			Max. Vx	14	22.327	-0.886	-599.023
			Max. Torque	24			-2.002
L12	75.4583 - 70.4583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.931	-2.745	1.179
			Max. Mx	8	-27.158	-702.266	1.327
			Max. My	14	-27.115	-0.658	-712.452
			Max. Vy	8	22.170	-702.266	1.327
			Max. Vx	14	23.026	-0.658	-712.452
			Max. Torque	24			-2.002
L13	70.4583 - 65.4583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-54.908	-2.745	0.975
			Max. Mx	8	-28.608	-813.905	1.660
			Max. My	14	-28.559	-0.428	-829.290
			Max. Vy	8	22.494	-813.905	1.660
			Max. Vx	14	23.695	-0.428	-829.290
			Max. Torque	24			-2.002
L14	65.4583 - 60.4583	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.030	-2.745	0.772
			Max. Mx	8	-30.058	-928.002	1.993
			Max. My	14	-30.011	-0.198	-949.509
			Max. Vy	8	23.155	-928.002	1.993
			Max. Vx	14	24.380	-0.198	-949.509
			Max. Torque	24			-2.002
L15	60.4583 - 60	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.210	-2.745	0.754
			Max. Mx	8	-30.195	-938.617	2.024
			Max. My	14	-30.148	-0.176	-960.698
			Max. Vy	8	23.179	-938.617	2.024

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	14	24.433	-0.176	-960.698
			Max. Torque	24			-2.002
L16	60 - 59.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-57.318	-2.745	0.742
			Max. Mx	8	-30.276	-944.414	2.040
			Max. My	14	-30.230	-0.165	-966.811
			Max. Vy	8	23.199	-944.414	2.040
			Max. Vx	14	24.449	-0.165	-966.811
			Max. Torque	24			-2.002
L17	59.75 - 54.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-59.477	-2.745	0.510
			Max. Mx	8	-31.866	-1061.280	2.363
			Max. My	14	-31.822	0.066	-1090.020
			Max. Vy	8	23.558	-1061.280	2.363
			Max. Vx	14	24.813	0.066	-1090.020
			Max. Torque	24			-2.002
L18	54.75 - 49.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-61.629	-2.745	0.280
			Max. Mx	8	-33.464	-1179.887	2.686
			Max. My	14	-33.424	0.297	-1214.968
			Max. Vy	8	23.896	-1179.887	2.686
			Max. Vx	14	25.150	0.297	-1214.968
			Max. Torque	24			-2.002
L19	49.75 - 44.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-63.830	-2.745	0.052
			Max. Mx	8	-35.069	-1300.121	3.008
			Max. My	14	-35.026	0.529	-1342.468
			Max. Vy	8	24.210	-1300.121	3.008
			Max. Vx	14	25.835	0.529	-1342.468
			Max. Torque	24			-2.002
L20	44.75 - 40	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-65.995	-2.745	-0.161
			Max. Mx	8	-36.594	-1416.559	3.314
			Max. My	14	-36.556	0.749	-1466.734
			Max. Vy	8	24.832	-1416.559	3.314
			Max. Vx	14	26.477	0.749	-1466.734
			Max. Torque	24			-2.001
L21	40 - 39.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-66.119	-2.745	-0.174
			Max. Mx	8	-36.694	-1422.767	3.330
			Max. My	14	-36.656	0.761	-1473.356
			Max. Vy	8	24.846	-1422.767	3.330
			Max. Vx	14	26.486	0.761	-1473.356
			Max. Torque	24			-2.001
L22	39.75 - 34.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-68.582	-2.745	-0.426
			Max. Mx	8	-38.561	-1547.839	3.641
			Max. My	14	-38.527	0.992	-1606.722
			Max. Vy	8	25.194	-1547.839	3.641
			Max. Vx	14	26.837	0.992	-1606.722
			Max. Torque	24			-2.001
L23	34.75 - 29.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-71.035	-2.745	-0.675
			Max. Mx	8	-40.436	-1674.581	3.953
			Max. My	14	-40.406	1.224	-1741.751
			Max. Vy	8	25.515	-1674.581	3.953
			Max. Vx	14	27.156	1.224	-1741.751
			Max. Torque	24			-2.001
L24	29.75 - 24.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-73.608	-2.745	-0.920
			Max. Mx	8	-42.312	-1803.808	4.263

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	14	-42.287	1.456	-1879.306
			Max. Vy	8	26.189	-1803.808	4.263
			Max. Vx	14	27.849	1.456	-1879.306
			Max. Torque	24			-2.001
L25	24.75 - 20	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.064	-2.745	-1.148
			Max. Mx	8	-44.099	-1929.675	4.557
			Max. My	14	-44.079	1.677	-2013.173
			Max. Vy	8	26.825	-1929.675	4.557
			Max. Vx	14	28.504	1.677	-2013.173
			Max. Torque	24			-2.001
L26	20 - 19.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.204	-2.745	-1.161
			Max. Mx	8	-44.213	-1936.381	4.573
			Max. My	14	-44.194	1.689	-2020.303
			Max. Vy	8	26.837	-1936.381	4.573
			Max. Vx	14	28.512	1.689	-2020.303
			Max. Torque	24			-2.001
L27	19.75 - 14.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-78.984	-2.745	-1.424
			Max. Mx	8	-46.379	-2071.428	4.872
			Max. My	14	-46.364	1.920	-2163.821
			Max. Vy	8	27.192	-2071.428	4.872
			Max. Vx	14	28.868	1.920	-2163.821
			Max. Torque	24			-2.001
L28	14.75 - 9.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-81.739	-2.745	-1.678
			Max. Mx	8	-48.552	-2208.215	5.172
			Max. My	14	-48.541	2.152	-2309.066
			Max. Vy	8	27.535	-2208.215	5.172
			Max. Vx	14	29.209	2.152	-2309.066
			Max. Torque	24			-2.001
L29	9.75 - 4.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.460	-2.745	-1.920
			Max. Mx	8	-50.728	-2346.686	5.470
			Max. My	14	-50.722	2.384	-2455.980
			Max. Vy	8	27.867	-2346.686	5.470
			Max. Vx	14	29.537	2.384	-2455.980
			Max. Torque	24			-2.001
L30	4.75 - 4.38542	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.656	-2.745	-1.937
			Max. Mx	8	-50.890	-2356.847	5.492
			Max. My	14	-50.885	2.401	-2466.756
			Max. Vy	8	27.886	-2356.847	5.492
			Max. Vx	14	29.555	2.401	-2466.756
			Max. Torque	24			-2.001
L31	4.38542 - 4.13542	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.783	-2.745	-1.948
			Max. Mx	8	-50.992	-2363.820	5.506
			Max. My	14	-50.987	2.412	-2474.150
			Max. Vy	8	27.901	-2363.820	5.506
			Max. Vx	14	29.570	2.412	-2474.150
			Max. Torque	24			-2.001
L32	4.13542 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-86.844	-2.745	-2.128
			Max. Mx	8	-52.673	-2479.706	5.752
			Max. My	14	-52.672	2.604	-2597.001
			Max. Vy	8	28.158	-2479.706	5.752
			Max. Vx	14	29.823	2.604	-2597.001
			Max. Torque	24			-2.001

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	86.844	-0.000	0.000
	Max. H_x	21	39.509	28.100	-0.040
	Max. H_z	3	39.509	-0.024	28.374
	Max. M_x	2	2501.157	-0.024	28.374
	Max. M_z	8	2479.706	-28.146	0.076
	Max. Torsion	12	1.768	-14.082	-24.519
	Min. Vert	19	39.509	24.347	-14.173
	Min. H_x	8	52.679	-28.146	0.076
	Min. H_z	15	39.509	0.046	-29.811
	Min. M_x	14	-2597.001	0.046	-29.811
	Min. M_z	20	-2473.385	28.100	-0.040
	Min. Torsion	24	-2.001	14.019	24.555

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	43.899	0.000	0.000	0.559	-0.878	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	52.679	0.024	-28.374	-2501.157	-2.857	1.490
0.9 Dead+1.0 Wind 0 deg - No Ice	39.509	0.024	-28.374	-2486.522	-2.567	1.480
1.2 Dead+1.0 Wind 30 deg - No Ice	52.679	14.139	-24.538	-2163.196	-1245.959	1.025
0.9 Dead+1.0 Wind 30 deg - No Ice	39.509	14.139	-24.538	-2150.560	-1238.319	1.019
1.2 Dead+1.0 Wind 60 deg - No Ice	52.679	25.690	-14.948	-1300.951	-2235.026	0.087
0.9 Dead+1.0 Wind 60 deg - No Ice	39.509	25.690	-14.948	-1293.506	-2221.682	0.087
1.2 Dead+1.0 Wind 90 deg - No Ice	52.679	28.146	-0.076	-5.752	-2479.706	-0.716
0.9 Dead+1.0 Wind 90 deg - No Ice	39.509	28.146	-0.076	-5.887	-2464.764	-0.710
1.2 Dead+1.0 Wind 120 deg - No Ice	52.679	24.479	14.221	1254.563	-2155.878	-1.640
0.9 Dead+1.0 Wind 120 deg - No Ice	39.509	24.479	14.221	1246.979	-2142.859	-1.630
1.2 Dead+1.0 Wind 150 deg - No Ice	52.679	14.082	24.519	2163.249	-1241.551	-1.768
0.9 Dead+1.0 Wind 150 deg - No Ice	39.509	14.082	24.519	2150.283	-1233.930	-1.757
1.2 Dead+1.0 Wind 180 deg - No Ice	52.679	-0.046	29.811	2597.001	2.604	-1.339
0.9 Dead+1.0 Wind 180 deg - No Ice	39.509	-0.046	29.811	2581.644	2.871	-1.329

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 210 deg - No Ice	52.679	-14.085	24.517	2162.585	1238.888	-0.653
0.9 Dead+1.0 Wind 210 deg - No Ice	39.509	-14.085	24.517	2149.626	1231.842	-0.647
1.2 Dead+1.0 Wind 240 deg - No Ice	52.679	-24.347	14.173	1249.938	2142.154	0.174
0.9 Dead+1.0 Wind 240 deg - No Ice	39.509	-24.347	14.173	1242.382	2129.763	0.174
1.2 Dead+1.0 Wind 270 deg - No Ice	52.679	-28.100	0.040	3.844	2473.385	0.964
0.9 Dead+1.0 Wind 270 deg - No Ice	39.509	-28.100	0.040	3.663	2459.033	0.958
1.2 Dead+1.0 Wind 300 deg - No Ice	52.679	-25.680	-14.889	-1296.331	2232.234	1.573
0.9 Dead+1.0 Wind 300 deg - No Ice	39.509	-25.680	-14.889	-1288.907	2219.460	1.562
1.2 Dead+1.0 Wind 330 deg - No Ice	52.679	-14.019	-24.555	-2165.158	1233.733	2.001
0.9 Dead+1.0 Wind 330 deg - No Ice	39.509	-14.019	-24.555	-2152.508	1226.709	1.990
1.2 Dead+1.0 Ice+1.0 Temp	86.844	0.000	-0.000	2.128	-2.745	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	86.844	0.003	-7.124	-632.034	-3.051	0.299
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	86.844	3.557	-6.163	-546.483	-319.233	0.175
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	86.844	6.161	-3.572	-315.451	-550.252	-0.032
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	86.844	7.093	-0.012	1.137	-633.818	-0.203
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	86.844	6.145	3.560	319.106	-549.449	-0.375
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	86.844	3.549	6.161	550.712	-318.719	-0.383
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	86.844	-0.007	7.132	636.371	-2.389	-0.272
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	86.844	-3.547	6.159	550.419	312.539	-0.108
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	86.844	-6.136	3.558	318.787	542.793	0.079
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	86.844	-7.085	0.006	2.560	627.261	0.247
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	86.844	-6.154	-3.560	-314.523	543.867	0.362
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	86.844	-3.538	-6.167	-547.015	311.886	0.424
Dead+Wind 0 deg - Service	43.899	0.005	-5.697	-499.972	-1.263	0.305
Dead+Wind 30 deg - Service	43.899	2.839	-4.927	-432.357	-249.966	0.205
Dead+Wind 60 deg - Service	43.899	5.158	-3.001	-259.855	-447.852	0.011
Dead+Wind 90 deg - Service	43.899	5.651	-0.015	-0.728	-496.797	-0.155
Dead+Wind 120 deg - Service	43.899	4.915	2.855	251.416	-432.010	-0.342
Dead+Wind 150 deg - Service	43.899	2.827	4.923	433.213	-249.084	-0.366
Dead+Wind 180 deg - Service	43.899	-0.009	5.986	520.001	-0.170	-0.274
Dead+Wind 210 deg - Service	43.899	-2.828	4.923	433.081	247.170	-0.130
Dead+Wind 240 deg - Service	43.899	-4.889	2.846	250.492	427.883	0.042
Dead+Wind 270 deg - Service	43.899	-5.642	0.008	1.192	494.151	0.205
Dead+Wind 300 deg - Service	43.899	-5.156	-2.990	-258.931	445.911	0.328
Dead+Wind 330 deg - Service	43.899	-2.815	-4.930	-432.749	246.138	0.412

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.000	-43.899	0.000	0.000	43.899	0.000	0.000%
2	0.024	-52.679	-28.374	-0.024	52.679	28.374	0.000%
3	0.024	-39.509	-28.374	-0.024	39.509	28.374	0.000%
4	14.139	-52.679	-24.538	-14.139	52.679	24.538	0.000%
5	14.139	-39.509	-24.538	-14.139	39.509	24.538	0.000%
6	25.690	-52.679	-14.948	-25.690	52.679	14.948	0.000%
7	25.690	-39.509	-14.948	-25.690	39.509	14.948	0.000%
8	28.146	-52.679	-0.076	-28.146	52.679	0.076	0.000%
9	28.146	-39.509	-0.076	-28.146	39.509	0.076	0.000%
10	24.479	-52.679	14.221	-24.479	52.679	-14.221	0.000%
11	24.479	-39.509	14.221	-24.479	39.509	-14.221	0.000%
12	14.082	-52.679	24.519	-14.082	52.679	-24.519	0.000%
13	14.082	-39.509	24.519	-14.082	39.509	-24.519	0.000%
14	-0.046	-52.679	29.811	0.046	52.679	-29.811	0.000%
15	-0.046	-39.509	29.811	0.046	39.509	-29.811	0.000%
16	-14.085	-52.679	24.517	14.085	52.679	-24.517	0.000%
17	-14.085	-39.509	24.517	14.085	39.509	-24.517	0.000%
18	-24.347	-52.679	14.173	24.347	52.679	-14.173	0.000%
19	-24.347	-39.509	14.173	24.347	39.509	-14.173	0.000%
20	-28.100	-52.679	0.040	28.100	52.679	-0.040	0.000%
21	-28.100	-39.509	0.040	28.100	39.509	-0.040	0.000%
22	-25.680	-52.679	-14.889	25.680	52.679	14.889	0.000%
23	-25.680	-39.509	-14.889	25.680	39.509	14.889	0.000%
24	-14.019	-52.679	-24.555	14.019	52.679	24.555	0.000%
25	-14.019	-39.509	-24.555	14.019	39.509	24.555	0.000%
26	0.000	-86.844	0.000	-0.000	86.844	0.000	0.000%
27	0.003	-86.844	-7.124	-0.003	86.844	7.124	0.000%
28	3.557	-86.844	-6.163	-3.557	86.844	6.163	0.000%
29	6.161	-86.844	-3.572	-6.161	86.844	3.572	0.000%
30	7.093	-86.844	-0.012	-7.093	86.844	0.012	0.000%
31	6.145	-86.844	3.560	-6.145	86.844	-3.560	0.000%
32	3.549	-86.844	6.161	-3.549	86.844	-6.161	0.000%
33	-0.007	-86.844	7.132	0.007	86.844	-7.132	0.000%
34	-3.547	-86.844	6.159	3.547	86.844	-6.159	0.000%
35	-6.136	-86.844	3.558	6.136	86.844	-3.558	0.000%
36	-7.085	-86.844	0.006	7.085	86.844	-0.006	0.000%
37	-6.154	-86.844	-3.560	6.154	86.844	3.560	0.000%
38	-3.538	-86.844	-6.167	3.538	86.844	6.167	0.000%
39	0.005	-43.899	-5.697	-0.005	43.899	5.697	0.000%
40	2.839	-43.899	-4.927	-2.839	43.899	4.927	0.000%
41	5.158	-43.899	-3.001	-5.158	43.899	3.001	0.000%
42	5.651	-43.899	-0.015	-5.651	43.899	0.015	0.000%
43	4.915	-43.899	2.855	-4.915	43.899	-2.855	0.000%
44	2.827	-43.899	4.923	-2.827	43.899	-4.923	0.000%
45	-0.009	-43.899	5.986	0.009	43.899	-5.986	0.000%
46	-2.828	-43.899	4.923	2.828	43.899	-4.923	0.000%
47	-4.889	-43.899	2.846	4.889	43.899	-2.846	0.000%
48	-5.642	-43.899	0.008	5.642	43.899	-0.008	0.000%
49	-5.156	-43.899	-2.990	5.156	43.899	2.990	0.000%
50	-2.815	-43.899	-4.930	2.815	43.899	4.930	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	0.00004543
3	Yes	4	0.00000001	0.00092591
4	Yes	5	0.00000001	0.00032556
5	Yes	5	0.00000001	0.00015802
6	Yes	5	0.00000001	0.00032835
7	Yes	5	0.00000001	0.00015811
8	Yes	4	0.00000001	0.00094729
9	Yes	4	0.00000001	0.00056378
10	Yes	5	0.00000001	0.00029354
11	Yes	5	0.00000001	0.00014179
12	Yes	5	0.00000001	0.00033615
13	Yes	5	0.00000001	0.00016350
14	Yes	5	0.00000001	0.00004106
15	Yes	4	0.00000001	0.00082202
16	Yes	5	0.00000001	0.00030077
17	Yes	5	0.00000001	0.00014568
18	Yes	5	0.00000001	0.00030516
19	Yes	5	0.00000001	0.00014800
20	Yes	5	0.00000001	0.00003256
21	Yes	4	0.00000001	0.00063493
22	Yes	5	0.00000001	0.00034954
23	Yes	5	0.00000001	0.00016907
24	Yes	5	0.00000001	0.00028635
25	Yes	5	0.00000001	0.00013836
26	Yes	4	0.00000001	0.00005566
27	Yes	5	0.00000001	0.00059502
28	Yes	5	0.00000001	0.00061501
29	Yes	5	0.00000001	0.00061541
30	Yes	5	0.00000001	0.00059656
31	Yes	5	0.00000001	0.00061360
32	Yes	5	0.00000001	0.00061302
33	Yes	5	0.00000001	0.00059225
34	Yes	5	0.00000001	0.00060477
35	Yes	5	0.00000001	0.00060164
36	Yes	5	0.00000001	0.00058379
37	Yes	5	0.00000001	0.00060413
38	Yes	5	0.00000001	0.00060752
39	Yes	4	0.00000001	0.00012640
40	Yes	4	0.00000001	0.00019090
41	Yes	4	0.00000001	0.00018745
42	Yes	4	0.00000001	0.00011725
43	Yes	4	0.00000001	0.00017673
44	Yes	4	0.00000001	0.00020308
45	Yes	4	0.00000001	0.00012674
46	Yes	4	0.00000001	0.00017385
47	Yes	4	0.00000001	0.00017546
48	Yes	4	0.00000001	0.00011823
49	Yes	4	0.00000001	0.00020636
50	Yes	4	0.00000001	0.00017586

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	125 - 120	7.003	45	0.483	0.002
L2	120 - 115	6.498	45	0.483	0.002
L3	115 - 110	5.994	45	0.480	0.002
L4	110 - 105	5.495	45	0.474	0.002
L5	105 - 100	5.006	45	0.461	0.001

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L6	100 - 95	4.534	45	0.441	0.001
L7	95 - 90	4.080	45	0.426	0.001
L8	90 - 85	3.644	45	0.406	0.001
L9	85 - 80	3.233	45	0.380	0.001
L10	80 - 75.7083	2.852	45	0.346	0.001
L11	75.7083 - 75.4583	2.549	45	0.326	0.001
L12	75.4583 - 70.4583	2.532	45	0.326	0.001
L13	70.4583 - 65.4583	2.201	45	0.307	0.001
L14	65.4583 - 60.4583	1.891	45	0.284	0.001
L15	60.4583 - 60	1.606	45	0.259	0.000
L16	60 - 59.75	1.582	45	0.256	0.000
L17	59.75 - 54.75	1.568	45	0.255	0.000
L18	54.75 - 49.75	1.311	45	0.236	0.000
L19	49.75 - 44.75	1.076	45	0.213	0.000
L20	44.75 - 40	0.865	45	0.189	0.000
L21	40 - 39.75	0.690	45	0.163	0.000
L22	39.75 - 34.75	0.682	45	0.162	0.000
L23	34.75 - 29.75	0.522	45	0.143	0.000
L24	29.75 - 24.75	0.382	45	0.123	0.000
L25	24.75 - 20	0.265	45	0.101	0.000
L26	20 - 19.75	0.176	45	0.078	0.000
L27	19.75 - 14.75	0.172	45	0.077	0.000
L28	14.75 - 9.75	0.100	45	0.060	0.000
L29	9.75 - 4.75	0.046	45	0.042	0.000
L30	4.75 - 4.38542	0.012	45	0.023	0.000
L31	4.38542 - 4.13542	0.010	45	0.022	0.000
L32	4.13542 - 0	0.009	45	0.020	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
122.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	45	6.700	0.483	0.002	220917
112.000	HBXX-6517DS-A2M w/ Mount Pipe	45	5.694	0.477	0.002	40970
100.000	7770.00 w/ Mount Pipe	45	4.534	0.441	0.001	16124
90.000	APXVTM14-ALU-I20 w/ Mount Pipe	45	3.644	0.406	0.001	12301
88.000	Dragonwave A-ANT-18G-2-C	45	3.476	0.396	0.001	10866
81.000	MX08FRO665-21 w/ Mount Pipe	45	2.926	0.353	0.001	9643

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	125 - 120	35.069	14	2.419	0.008
L2	120 - 115	32.537	14	2.417	0.008
L3	115 - 110	30.012	14	2.404	0.008
L4	110 - 105	27.509	14	2.373	0.007
L5	105 - 100	25.056	14	2.308	0.007
L6	100 - 95	22.689	14	2.207	0.007

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L7	95 - 90	20.415	14	2.133	0.006
L8	90 - 85	18.232	14	2.032	0.006
L9	85 - 80	16.171	14	1.901	0.005
L10	80 - 75.7083	14.265	14	1.734	0.004
L11	75.7083 - 75.4583	12.750	14	1.634	0.003
L12	75.4583 - 70.4583	12.664	14	1.630	0.003
L13	70.4583 - 65.4583	11.006	14	1.535	0.003
L14	65.4583 - 60.4583	9.456	14	1.423	0.002
L15	60.4583 - 60	8.031	14	1.295	0.002
L16	60 - 59.75	7.907	14	1.282	0.002
L17	59.75 - 54.75	7.840	14	1.278	0.002
L18	54.75 - 49.75	6.554	14	1.178	0.002
L19	49.75 - 44.75	5.377	14	1.067	0.002
L20	44.75 - 40	4.324	14	0.943	0.001
L21	40 - 39.75	3.449	14	0.814	0.001
L22	39.75 - 34.75	3.407	14	0.810	0.001
L23	34.75 - 29.75	2.607	14	0.716	0.001
L24	29.75 - 24.75	1.911	14	0.614	0.001
L25	24.75 - 20	1.325	14	0.503	0.001
L26	20 - 19.75	0.880	14	0.391	0.000
L27	19.75 - 14.75	0.860	14	0.386	0.000
L28	14.75 - 9.75	0.499	14	0.302	0.000
L29	9.75 - 4.75	0.230	14	0.211	0.000
L30	4.75 - 4.38542	0.058	14	0.115	0.000
L31	4.38542 - 4.13542	0.050	14	0.108	0.000
L32	4.13542 - 0	0.044	14	0.102	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
122.000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	14	33.550	2.419	0.008	44172
112.000	HBXX-6517DS-A2M w/ Mount Pipe	14	28.506	2.388	0.008	8241
100.000	7770.00 w/ Mount Pipe	14	22.689	2.207	0.007	3241
90.000	APXVTM14-ALU-I20 w/ Mount Pipe	14	18.232	2.032	0.006	2475
88.000	Dragonwave A-ANT-18G-2-C	14	17.391	1.984	0.005	2185
81.000	MX08FRO665-21 w/ Mount Pipe	14	14.633	1.766	0.004	1935

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	125 - 120 (1)	P24x0.375	5.000	0.000	0.0	27.833	-4.721	1052.070	0.004

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L2	120 - 115 (2)	P24x0.375	5.000	0.000	0.0	27.833	-5.332	1052.070	0.005
L3	115 - 110 (3)	P24x0.375	5.000	0.000	0.0	27.833	-9.668	1052.070	0.009
L4	110 - 105 (4)	P24x0.375	5.000	0.000	0.0	27.833	-10.304	1052.070	0.010
L5	105 - 100 (5)	P24x0.375	5.000	0.000	0.0	27.833	-10.949	1052.070	0.010
L6	100 - 95 (6)	P30x0.375	5.000	0.000	0.0	34.901	-14.833	1311.060	0.011
L7	95 - 90 (7)	P30x0.375	5.000	0.000	0.0	34.901	-15.710	1311.060	0.012
L8	90 - 85 (8)	P30x0.375	5.000	0.000	0.0	34.901	-20.615	1311.060	0.016
L9	85 - 80 (9)	P30x0.375	5.000	0.000	0.0	34.901	-24.698	1311.060	0.019
L10	80 - 75.7083 (10)	P36x0.375	4.292	0.000	0.0	41.970	-25.607	1490.100	0.017
L11	75.7083 - 75.4583 (11)	P36x0.5625	0.250	0.000	0.0	62.623	-25.684	2367.160	0.011
L12	75.4583 - 70.4583 (12)	P36x0.5625	5.000	0.000	0.0	62.623	-27.115	2367.160	0.011
L13	70.4583 - 65.4583 (13)	P36x0.5625	5.000	0.000	0.0	62.623	-28.559	2367.160	0.012
L14	65.4583 - 60.4583 (14)	P36x0.5625	5.000	0.000	0.0	62.623	-30.011	2367.160	0.013
L15	60.4583 - 60 (15)	P36x0.5625	0.458	0.000	0.0	62.623	-30.148	2367.160	0.013
L16	60 - 59.75 (16)	P42x0.525	0.250	0.000	0.0	68.406	-30.230	2569.670	0.012
L17	59.75 - 54.75 (17)	P42x0.525	5.000	0.000	0.0	68.406	-31.822	2569.670	0.012
L18	54.75 - 49.75 (18)	P42x0.525	5.000	0.000	0.0	68.406	-33.424	2569.670	0.013
L19	49.75 - 44.75 (19)	P42x0.525	5.000	0.000	0.0	68.406	-35.026	2569.670	0.014
L20	44.75 - 40 (20)	P42x0.525	4.750	0.000	0.0	68.406	-36.556	2569.670	0.014
L21	40 - 39.75 (21)	P48x0.55625	0.250	0.000	0.0	82.909	-36.656	3039.700	0.012
L22	39.75 - 34.75 (22)	P48x0.55625	5.000	0.000	0.0	82.909	-38.527	3039.700	0.013
L23	34.75 - 29.75 (23)	P48x0.55625	5.000	0.000	0.0	82.909	-40.406	3039.700	0.013
L24	29.75 - 24.75 (24)	P48x0.55625	5.000	0.000	0.0	82.909	-42.287	3039.700	0.014
L25	24.75 - 20 (25)	P48x0.55625	4.750	0.000	0.0	82.909	-44.079	3039.700	0.015
L26	20 - 19.75 (26)	P54x0.5875	0.250	0.000	0.0	98.583	-44.194	3545.230	0.012
L27	19.75 - 14.75 (27)	P54x0.5875	5.000	0.000	0.0	98.583	-46.364	3545.230	0.013
L28	14.75 - 9.75 (28)	P54x0.5875	5.000	0.000	0.0	98.583	-48.541	3545.230	0.014
L29	9.75 - 4.75 (29)	P54x0.5875	5.000	0.000	0.0	98.583	-50.722	3545.230	0.014
L30	4.75 - 4.38542 (30)	P54x0.5875	0.365	0.000	0.0	98.583	-50.885	3545.230	0.014
L31	4.38542 - 4.13542 (31)	P54x0.4875	0.250	0.000	0.0	81.956	-50.987	2797.170	0.018
L32	4.13542 - 0 (32)	P54x0.4875	4.135	0.000	0.0	81.956	-52.672	2797.170	0.019

Pole Bending Design Data

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 $\frac{M_{uy}}{\phi M_{ny}}$
L1	125 - 120 (1)	P24x0.375	8.090	623.717	0.013	0.000	623.717	0.000
L2	120 - 115 (2)	P24x0.375	28.669	623.717	0.046	0.000	623.717	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 $\frac{M_{uy}}{\phi M_{ny}}$
L3	115 - 110 (3)	P24x0.375	63.975	623.717	0.103	0.000	623.717	0.000
L4	110 - 105 (4)	P24x0.375	113.151	623.717	0.181	0.000	623.717	0.000
L5	105 - 100 (5)	P24x0.375	163.713	623.717	0.262	0.000	623.717	0.000
L6	100 - 95 (6)	P30x0.375	236.074	947.858	0.249	0.000	947.858	0.000
L7	95 - 90 (7)	P30x0.375	309.488	947.858	0.327	0.000	947.858	0.000
L8	90 - 85 (8)	P30x0.375	401.327	947.858	0.423	0.000	947.858	0.000
L9	85 - 80 (9)	P30x0.375	498.408	947.858	0.526	0.000	947.858	0.000
L10	80 - 75.7083 (10)	P36x0.375	593.442	1338.808	0.443	0.000	1338.808	0.000
L11	75.7083 - 75.4583 (11)	P36x0.5625	599.023	2105.042	0.285	0.000	2105.042	0.000
L12	75.4583 - 70.4583 (12)	P36x0.5625	712.452	2105.042	0.338	0.000	2105.042	0.000
L13	70.4583 - 65.4583 (13)	P36x0.5625	829.291	2105.042	0.394	0.000	2105.042	0.000
L14	65.4583 - 60.4583 (14)	P36x0.5625	949.508	2105.042	0.451	0.000	2105.042	0.000
L15	60.4583 - 60 (15)	P36x0.5625	960.700	2105.042	0.456	0.000	2105.042	0.000
L16	60 - 59.75 (16)	P42x0.525	966.808	2600.925	0.372	0.000	2600.925	0.000
L17	59.75 - 54.75 (17)	P42x0.525	1090.017	2600.925	0.419	0.000	2600.925	0.000
L18	54.75 - 49.75 (18)	P42x0.525	1214.967	2600.925	0.467	0.000	2600.925	0.000
L19	49.75 - 44.75 (19)	P42x0.525	1342.467	2600.925	0.516	0.000	2600.925	0.000
L20	44.75 - 40 (20)	P42x0.525	1466.733	2600.925	0.564	0.000	2600.925	0.000
L21	40 - 39.75 (21)	P48x0.55625	1473.358	3569.342	0.413	0.000	3569.342	0.000
L22	39.75 - 34.75 (22)	P48x0.55625	1606.725	3569.342	0.450	0.000	3569.342	0.000
L23	34.75 - 29.75 (23)	P48x0.55625	1741.750	3569.342	0.488	0.000	3569.342	0.000
L24	29.75 - 24.75 (24)	P48x0.55625	1879.308	3569.342	0.527	0.000	3569.342	0.000
L25	24.75 - 20 (25)	P48x0.55625	2013.175	3569.342	0.564	0.000	3569.342	0.000
L26	20 - 19.75 (26)	P54x0.5875	2020.300	4739.867	0.426	0.000	4739.867	0.000
L27	19.75 - 14.75 (27)	P54x0.5875	2163.825	4739.867	0.457	0.000	4739.867	0.000
L28	14.75 - 9.75 (28)	P54x0.5875	2309.067	4739.867	0.487	0.000	4739.867	0.000
L29	9.75 - 4.75 (29)	P54x0.5875	2455.983	4739.867	0.518	0.000	4739.867	0.000
L30	4.75 - 4.38542 (30)	P54x0.5875	2466.758	4739.867	0.520	0.000	4739.867	0.000
L31	4.38542 - 4.13542 (31)	P54x0.4875	2474.150	3864.467	0.640	0.000	3864.467	0.000
L32	4.13542 - 0 (32)	P54x0.4875	2597.000	3864.467	0.672	0.000	3864.467	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	125 - 120 (1)	P24x0.375	3.969	315.621	0.013	0.000	655.568	0.000
L2	120 - 115 (2)	P24x0.375	4.260	315.621	0.013	0.000	655.568	0.000
L3	115 - 110 (3)	P24x0.375	9.694	315.621	0.031	0.339	655.568	0.001

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 $\frac{T_u}{\phi T_n}$
L4	110 - 105 (4)	P24x0.375	9.982	315.621	0.032	0.392	655.568	0.001
L5	105 - 100 (5)	P24x0.375	10.244	315.621	0.032	0.392	655.568	0.001
L6	100 - 95 (6)	P30x0.375	14.528	395.779	0.037	0.258	994.725	0.000
L7	95 - 90 (7)	P30x0.375	14.843	395.779	0.038	0.258	994.725	0.000
L8	90 - 85 (8)	P30x0.375	18.716	395.779	0.047	1.491	994.725	0.001
L9	85 - 80 (9)	P30x0.375	21.748	395.779	0.055	1.491	994.725	0.001
L10	80 - 75.7083 (10)	P36x0.375	22.314	454.187	0.049	1.340	1094.275	0.001
L11	75.7083 - 75.4583 (11)	P36x0.5625	22.327	710.147	0.031	1.340	2212.542	0.001
L12	75.4583 - 70.4583 (12)	P36x0.5625	23.026	710.147	0.032	1.340	2212.542	0.001
L13	70.4583 - 65.4583 (13)	P36x0.5625	23.695	710.147	0.033	1.340	2212.542	0.001
L14	65.4583 - 60.4583 (14)	P36x0.5625	24.380	710.147	0.034	1.340	2212.542	0.001
L15	60.4583 - 60 (15)	P36x0.5625	24.433	710.147	0.034	1.340	2212.542	0.001
L16	60 - 59.75 (16)	P42x0.525	24.449	775.727	0.032	1.340	2800.233	0.000
L17	59.75 - 54.75 (17)	P42x0.525	24.813	775.727	0.032	1.340	2800.233	0.000
L18	54.75 - 49.75 (18)	P42x0.525	25.150	775.727	0.032	1.340	2800.233	0.000
L19	49.75 - 44.75 (19)	P42x0.525	25.835	775.727	0.033	1.340	2800.233	0.000
L20	44.75 - 40 (20)	P42x0.525	26.477	775.727	0.034	1.339	2800.233	0.000
L21	40 - 39.75 (21)	P48x0.55625	26.486	940.182	0.028	1.339	3775.583	0.000
L22	39.75 - 34.75 (22)	P48x0.55625	26.837	940.182	0.029	1.339	3775.583	0.000
L23	34.75 - 29.75 (23)	P48x0.55625	27.157	940.182	0.029	1.339	3775.583	0.000
L24	29.75 - 24.75 (24)	P48x0.55625	27.849	940.182	0.030	1.339	3775.583	0.000
L25	24.75 - 20 (25)	P48x0.55625	28.504	940.182	0.030	1.339	3775.583	0.000
L26	20 - 19.75 (26)	P54x0.5875	28.512	1117.930	0.026	1.339	4954.017	0.000
L27	19.75 - 14.75 (27)	P54x0.5875	28.868	1117.930	0.026	1.339	4954.017	0.000
L28	14.75 - 9.75 (28)	P54x0.5875	29.209	1117.930	0.026	1.339	4954.017	0.000
L29	9.75 - 4.75 (29)	P54x0.5875	29.537	1117.930	0.026	1.339	4954.017	0.000
L30	4.75 - 4.38542 (30)	P54x0.5875	29.555	1117.930	0.026	1.339	4954.017	0.000
L31	4.38542 - 4.13542 (31)	P54x0.4875	29.570	903.520	0.033	1.339	3267.817	0.000
L32	4.13542 - 0 (32)	P54x0.4875	29.823	903.520	0.033	1.339	3267.817	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	125 - 120 (1)	0.004	0.013	0.000	0.013	0.000	0.018 ✔	1.050	4.8.2 ✔
L2	120 - 115 (2)	0.005	0.046	0.000	0.013	0.000	0.051 ✔	1.050	4.8.2 ✔

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
L3	115 - 110 (3)	0.009	0.103	0.000	0.031	0.001	0.113 ✔	1.050	4.8.2 ✔
L4	110 - 105 (4)	0.010	0.181	0.000	0.032	0.001	0.192 ✔	1.050	4.8.2 ✔
L5	105 - 100 (5)	0.010	0.262	0.000	0.032	0.001	0.274 ✔	1.050	4.8.2 ✔
L6	100 - 95 (6)	0.011	0.249	0.000	0.037	0.000	0.262 ✔	1.050	4.8.2 ✔
L7	95 - 90 (7)	0.012	0.327	0.000	0.038	0.000	0.340 ✔	1.050	4.8.2 ✔
L8	90 - 85 (8)	0.016	0.423	0.000	0.047	0.001	0.442 ✔	1.050	4.8.2 ✔
L9	85 - 80 (9)	0.019	0.526	0.000	0.055	0.001	0.548 ✔	1.050	4.8.2 ✔
L10	80 - 75.7083 (10)	0.017	0.443	0.000	0.049	0.001	0.463 ✔	1.050	4.8.2 ✔
L11	75.7083 - 75.4583 (11)	0.011	0.285	0.000	0.031	0.001	0.296 ✔	1.050	4.8.2 ✔
L12	75.4583 - 70.4583 (12)	0.011	0.338	0.000	0.032	0.001	0.351 ✔	1.050	4.8.2 ✔
L13	70.4583 - 65.4583 (13)	0.012	0.394	0.000	0.033	0.001	0.407 ✔	1.050	4.8.2 ✔
L14	65.4583 - 60.4583 (14)	0.013	0.451	0.000	0.034	0.001	0.465 ✔	1.050	4.8.2 ✔
L15	60.4583 - 60 (15)	0.013	0.456	0.000	0.034	0.001	0.470 ✔	1.050	4.8.2 ✔
L16	60 - 59.75 (16)	0.012	0.372	0.000	0.032	0.000	0.385 ✔	1.050	4.8.2 ✔
L17	59.75 - 54.75 (17)	0.012	0.419	0.000	0.032	0.000	0.433 ✔	1.050	4.8.2 ✔
L18	54.75 - 49.75 (18)	0.013	0.467	0.000	0.032	0.000	0.481 ✔	1.050	4.8.2 ✔
L19	49.75 - 44.75 (19)	0.014	0.516	0.000	0.033	0.000	0.531 ✔	1.050	4.8.2 ✔
L20	44.75 - 40 (20)	0.014	0.564	0.000	0.034	0.000	0.579 ✔	1.050	4.8.2 ✔
L21	40 - 39.75 (21)	0.012	0.413	0.000	0.028	0.000	0.426 ✔	1.050	4.8.2 ✔
L22	39.75 - 34.75 (22)	0.013	0.450	0.000	0.029	0.000	0.464 ✔	1.050	4.8.2 ✔
L23	34.75 - 29.75 (23)	0.013	0.488	0.000	0.029	0.000	0.502 ✔	1.050	4.8.2 ✔
L24	29.75 - 24.75 (24)	0.014	0.527	0.000	0.030	0.000	0.541 ✔	1.050	4.8.2 ✔
L25	24.75 - 20 (25)	0.015	0.564	0.000	0.030	0.000	0.579 ✔	1.050	4.8.2 ✔
L26	20 - 19.75 (26)	0.012	0.426	0.000	0.026	0.000	0.439 ✔	1.050	4.8.2 ✔
L27	19.75 - 14.75 (27)	0.013	0.457	0.000	0.026	0.000	0.470 ✔	1.050	4.8.2 ✔
L28	14.75 - 9.75 (28)	0.014	0.487	0.000	0.026	0.000	0.502 ✔	1.050	4.8.2 ✔

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
L29	9.75 - 4.75 (29)	0.014	0.518	0.000	0.026	0.000	0.533 ✔	1.050	4.8.2 ✔
L30	4.75 - 4.38542 (30)	0.014	0.520	0.000	0.026	0.000	0.535 ✔	1.050	4.8.2 ✔
L31	4.38542 - 4.13542 (31)	0.018	0.640	0.000	0.033	0.000	0.660 ✔	1.050	4.8.2 ✔
L32	4.13542 - 0 (32)	0.019	0.672	0.000	0.033	0.000	0.692 ✔	1.050	4.8.2 ✔

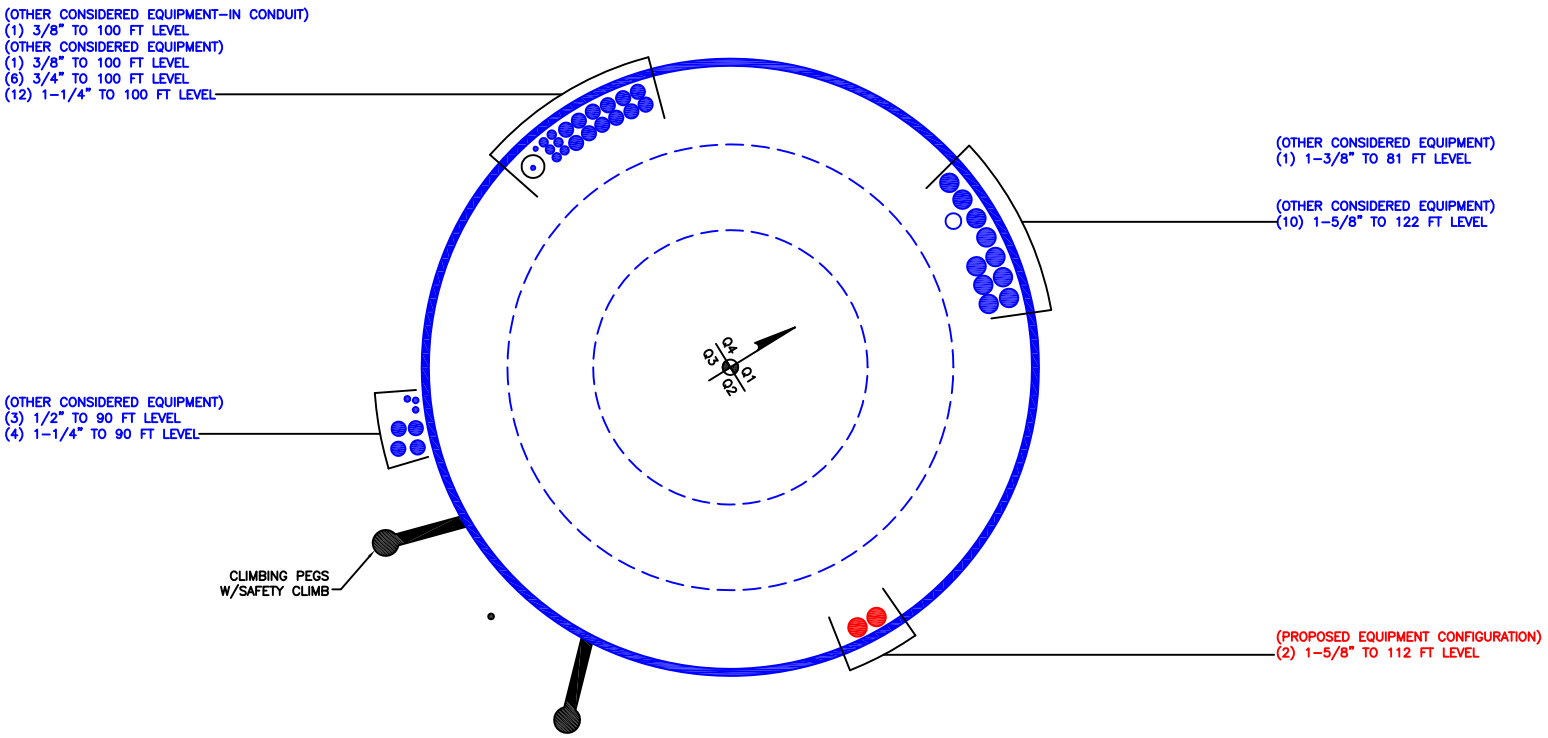
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	125 - 120	Pole	P24x0.375	1	-4.721	1104.673	1.7	Pass
L2	120 - 115	Pole	P24x0.375	2	-5.332	1104.673	4.9	Pass
L3	115 - 110	Pole	P24x0.375	3	-9.668	1104.673	10.7	Pass
L4	110 - 105	Pole	P24x0.375	4	-10.304	1104.673	18.3	Pass
L5	105 - 100	Pole	P24x0.375	5	-10.949	1104.673	26.1	Pass
L6	100 - 95	Pole	P30x0.375	6	-14.833	1376.613	24.9	Pass
L7	95 - 90	Pole	P30x0.375	7	-15.710	1376.613	32.4	Pass
L8	90 - 85	Pole	P30x0.375	8	-20.615	1376.613	42.0	Pass
L9	85 - 80	Pole	P30x0.375	9	-24.698	1376.613	52.2	Pass
L10	80 - 75.7083	Pole	P36x0.375	10	-25.607	1564.605	44.1	Pass
L11	75.7083 - 75.4583	Pole	P36x0.5625	11	-25.684	2485.518	28.2	Pass
L12	75.4583 - 70.4583	Pole	P36x0.5625	12	-27.115	2485.518	33.4	Pass
L13	70.4583 - 65.4583	Pole	P36x0.5625	13	-28.559	2485.518	38.8	Pass
L14	65.4583 - 60.4583	Pole	P36x0.5625	14	-30.011	2485.518	44.3	Pass
L15	60.4583 - 60	Pole	P36x0.5625	15	-30.148	2485.518	44.8	Pass
L16	60 - 59.75	Pole	P42x0.525	16	-30.230	2698.153	36.6	Pass
L17	59.75 - 54.75	Pole	P42x0.525	17	-31.822	2698.153	41.2	Pass
L18	54.75 - 49.75	Pole	P42x0.525	18	-33.424	2698.153	45.8	Pass
L19	49.75 - 44.75	Pole	P42x0.525	19	-35.026	2698.153	50.6	Pass
L20	44.75 - 40	Pole	P42x0.525	20	-36.556	2698.153	55.2	Pass
L21	40 - 39.75	Pole	P48x0.55625	21	-36.656	3191.685	40.5	Pass
L22	39.75 - 34.75	Pole	P48x0.55625	22	-38.527	3191.685	44.2	Pass
L23	34.75 - 29.75	Pole	P48x0.55625	23	-40.406	3191.685	47.8	Pass
L24	29.75 - 24.75	Pole	P48x0.55625	24	-42.287	3191.685	51.6	Pass
L25	24.75 - 20	Pole	P48x0.55625	25	-44.079	3191.685	55.2	Pass
L26	20 - 19.75	Pole	P54x0.5875	26	-44.194	3722.491	41.8	Pass
L27	19.75 - 14.75	Pole	P54x0.5875	27	-46.364	3722.491	44.8	Pass
L28	14.75 - 9.75	Pole	P54x0.5875	28	-48.541	3722.491	47.8	Pass
L29	9.75 - 4.75	Pole	P54x0.5875	29	-50.722	3722.491	50.8	Pass
L30	4.75 - 4.38542	Pole	P54x0.5875	30	-50.885	3722.491	51.0	Pass
L31	4.38542 - 4.13542	Pole	P54x0.4875	31	-50.987	2937.028	62.8	Pass
L32	4.13542 - 0	Pole	P54x0.4875	32	-52.672	2937.028	65.9	Pass
							Summary	
						Pole (L32)	65.9	Pass
						RATING =	**65.9**	**Pass**

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

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 822765

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 822765

Work Order: 2006803

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	125	25		0	24	24	0.375		A53-B-42
2	100	20		0	30.00	30	0.375		A53-B-42
3	80	20		0	36.00	36	0.375		A53-B-42
4	60	20		0	42.00	42	0.375		A53-B-42
5	40	20		0	48.00	48	0.375		A53-B-42
6	20	20		0	54.00	54	0.375		A53-B-42

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	4.385416667	20	plate	CCI-CFP-085125	3	0					120						240						
2	20	40	plate	CCI-CFP-065125	3	0					120						240						
3	40	60	plate	CCI-CFP-060100	3	0					120						240						
4	60	75.70833333	plate	CCI-CFP-060100-15	3	0					120						240						
5	0	4.385416667	plate	TS-6.5x1.25	3							139				221							349
6																							
7																							
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 (in2)	Bolt Hole Size (in)	Reinforcement Material
1	8.5	1.25	10.625	0.625	PC 8.8 - M20 (100)	45	PC 8.8 - M20 (100)	90.000	24.000	9.063	1.1875	A572-65
2	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	90	PC 8.8 - M20 (100)	66.000	16.000	6.563	1.1875	A572-65
3	6	1	6	0.5	PC 8.8 - M20 (100)	66	PC 8.8 - M20 (100)	48.000	16.000	4.750	1.1875	A572-65
4	6	1	6	0.5	PC 8.8 - M20 (100)	48	PC 8.8 - M20 (100)	24.000	24.000	4.750	1.1875	A572-65
5	1.25	6.5	8.125	4	Welded	n/a	Welded	n/a	0.750	8.125	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)
CCI-CFP-085125	Top	30	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	15	N	3	3	-	-	-	-	-	-	-	-	-
CCI-CFP-065125	Top	22	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	30	N	3	3	-	-	-	-	-	-	-	-	-
CCI-CFP-060100	Top	16	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	22	N	3	3	-	-	-	-	-	-	-	-	-
CCI-CFP-060100-15	Top	8	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	16	N	3	3	-	-	-	-	-	-	-	-	-
TS-6.5x1.25	Top	-	-	-	-	80	None	-	-	-	-	61.25	0.375	-
	Bottom	-	-	-	-	80	CJP Groove	11.5	0.5	45	0.5	-	-	-

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	125 - 120	5		0	24.000	24.000	0.375	A53-B-42	1.000
2	120 - 115	5		0	24.000	24.000	0.375	A53-B-42	1.000
3	115 - 110	5		0	24.000	24.000	0.375	A53-B-42	1.000
4	110 - 105	5		0	24.000	24.000	0.375	A53-B-42	1.000
5	105 - 100	5	0	0	24.000	24.000	0.375	A53-B-42	1.000
6	100 - 95	5		0	30.000	30.000	0.375	A53-B-42	1.000
7	95 - 90	5		0	30.000	30.000	0.375	A53-B-42	1.000
8	90 - 85	5		0	30.000	30.000	0.375	A53-B-42	1.000
9	85 - 80	5	0	0	30.000	30.000	0.375	A53-B-42	1.000
10	80 - 75.7083	4.291666667		0	36.000	36.000	0.375	A53-B-42	1.000
11	75.7083 - 75.4583	0.25		0	36.000	36.000	0.5625	A53-B-42	0.958
12	75.4583 - 70.4583	5		0	36.000	36.000	0.5625	A53-B-42	0.958
13	70.4583 - 65.4583	5		0	36.000	36.000	0.5625	A53-B-42	0.958
14	65.4583 - 60.4583	5		0	36.000	36.000	0.5625	A53-B-42	0.958
15	60.4583 - 60	0.458333333	0	0	36.000	36.000	0.5625	A53-B-42	0.958
16	60 - 59.75	0.25		0	42.000	42.000	0.525	A53-B-42	0.980
17	59.75 - 54.75	5		0	42.000	42.000	0.525	A53-B-42	0.980
18	54.75 - 49.75	5		0	42.000	42.000	0.525	A53-B-42	0.980
19	49.75 - 44.75	5		0	42.000	42.000	0.525	A53-B-42	0.980
20	44.75 - 40	4.75	0	0	42.000	42.000	0.525	A53-B-42	0.980
21	40 - 39.75	0.25		0	48.000	48.000	0.55625	A53-B-42	0.971
22	39.75 - 34.75	5		0	48.000	48.000	0.55625	A53-B-42	0.971
23	34.75 - 29.75	5		0	48.000	48.000	0.55625	A53-B-42	0.971
24	29.75 - 24.75	5		0	48.000	48.000	0.55625	A53-B-42	0.971
25	24.75 - 20	4.75	0	0	48.000	48.000	0.55625	A53-B-42	0.971
26	20 - 19.75	0.25		0	54.000	54.000	0.5875	A53-B-42	0.964
27	19.75 - 14.75	5		0	54.000	54.000	0.5875	A53-B-42	0.964
28	14.75 - 9.75	5		0	54.000	54.000	0.5875	A53-B-42	0.964
29	9.75 - 4.75	5		0	54.000	54.000	0.5875	A53-B-42	0.964
30	4.75 - 4.38542	0.364583333		0	54.000	54.000	0.5875	A53-B-42	0.964
31	4.38542 - 4.13542	0.25		0	54.000	54.000	0.4875	A53-B-42	1.068
32	4.13542 - 0	4.135416667		0	54.000	54.000	0.4875	A53-B-42	1.068

TNX Section Forces

Increment (ft):	5	TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	125 - 120	4.72	8.09	3.97
2	120 - 115	5.33	28.67	4.26
3	115 - 110	9.66	63.98	9.66
4	110 - 105	10.30	113.15	9.98
5	105 - 100	10.95	163.71	10.24
6	100 - 95	14.83	236.07	14.53
7	95 - 90	15.71	309.49	14.84
8	90 - 85	20.61	401.33	18.72
9	85 - 80	24.70	498.41	21.75
10	80 - 75.70833	25.61	593.44	22.31
11	75.70833 - 75.45833	25.68	599.02	22.33
12	75.45833 - 70.45833	27.12	712.45	23.03
13	70.45833 - 65.45833	28.56	829.29	23.70
14	65.45833 - 60.45833	30.01	949.51	24.38
15	60.45833 - 60	30.15	960.70	24.43
16	60 - 59.75	30.23	966.81	24.45
17	59.75 - 54.75	31.82	1090.02	24.81
18	54.75 - 49.75	33.42	1214.97	25.15
19	49.75 - 44.75	35.03	1342.47	25.84
20	44.75 - 40	36.56	1466.73	26.48
21	40 - 39.75	36.66	1473.36	26.49
22	39.75 - 34.75	38.53	1606.72	26.84
23	34.75 - 29.75	40.41	1741.75	27.16
24	29.75 - 24.75	42.29	1879.31	27.85
25	24.75 - 20	44.08	2013.17	28.50
26	20 - 19.75	44.19	2020.30	28.51
27	19.75 - 14.75	46.36	2163.82	28.87
28	14.75 - 9.75	48.54	2309.07	29.21
29	9.75 - 4.75	50.72	2455.98	29.54
30	4.75 - 4.385417	50.88	2466.76	29.56
31	4.385417 - 4.135417	50.99	2474.15	29.57
32	4.135417 - 0	52.67	2597.00	29.82

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
125 - 120	Pole	TP24x24x0.375	Pole	1.7%	Pass
120 - 115	Pole	TP24x24x0.375	Pole	4.9%	Pass
115 - 110	Pole	TP24x24x0.375	Pole	10.7%	Pass
110 - 105	Pole	TP24x24x0.375	Pole	18.3%	Pass
105 - 100	Pole	TP24x24x0.375	Pole	26.1%	Pass
100 - 95	Pole	TP30x30x0.375	Pole	24.9%	Pass
95 - 90	Pole	TP30x30x0.375	Pole	32.4%	Pass
90 - 85	Pole	TP30x30x0.375	Pole	42.0%	Pass
85 - 80	Pole	TP30x30x0.375	Pole	52.2%	Pass
80 - 75.71	Pole	TP36x36x0.375	Pole	44.1%	Pass
75.71 - 75.46	Pole + Reinf.	TP36x36x0.5625	Reinf. 4 Compression	34.9%	Pass
75.46 - 70.46	Pole + Reinf.	TP36x36x0.5625	Reinf. 4 Compression	41.4%	Pass
70.46 - 65.46	Pole + Reinf.	TP36x36x0.5625	Reinf. 4 Compression	48.0%	Pass
65.46 - 60.46	Pole + Reinf.	TP36x36x0.5625	Reinf. 4 Compression	54.9%	Pass
60.46 - 60	Pole + Reinf.	TP36x36x0.5625	Reinf. 4 Compression	55.5%	Pass
60 - 59.75	Pole + Reinf.	TP42x42x0.525	Pole	37.9%	Pass
59.75 - 54.75	Pole + Reinf.	TP42x42x0.525	Pole	42.7%	Pass
54.75 - 49.75	Pole + Reinf.	TP42x42x0.525	Pole	47.5%	Pass
49.75 - 44.75	Pole + Reinf.	TP42x42x0.525	Pole	52.4%	Pass
44.75 - 40	Pole + Reinf.	TP42x42x0.525	Pole	57.2%	Pass
40 - 39.75	Pole + Reinf.	TP48x48x0.5563	Pole	42.4%	Pass
39.75 - 34.75	Pole + Reinf.	TP48x48x0.5563	Pole	46.1%	Pass
34.75 - 29.75	Pole + Reinf.	TP48x48x0.5563	Pole	50.0%	Pass
29.75 - 24.75	Pole + Reinf.	TP48x48x0.5563	Pole	53.9%	Pass
24.75 - 20	Pole + Reinf.	TP48x48x0.5563	Pole	57.7%	Pass
20 - 19.75	Pole + Reinf.	TP54x54x0.5875	Pole	44.2%	Pass
19.75 - 14.75	Pole + Reinf.	TP54x54x0.5875	Pole	47.3%	Pass
14.75 - 9.75	Pole + Reinf.	TP54x54x0.5875	Pole	50.4%	Pass
9.75 - 4.75	Pole + Reinf.	TP54x54x0.5875	Pole	53.6%	Pass
4.75 - 4.39	Pole + Reinf.	TP54x54x0.5875	Pole	53.8%	Pass
4.39 - 4.14	Pole + Reinf.	TP54x54x0.4875	Pole	65.7%	Pass
4.14 - 0	Pole + Reinf.	TP54x54x0.4875	Pole	69.0%	Pass
				Summary	
			Pole	69.0%	Pass
			Reinforcement	60.9%	Pass
			Overall	69.0%	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
125 - 120	1942	n/a	1942	27.83	n/a	27.83	1.7%					
120 - 115	1942	n/a	1942	27.83	n/a	27.83	4.9%					
115 - 110	1942	n/a	1942	27.83	n/a	27.83	10.7%					
110 - 105	1942	n/a	1942	27.83	n/a	27.83	18.3%					
105 - 100	1942	n/a	1942	27.83	n/a	27.83	26.1%					
100 - 95	3829	n/a	3829	34.90	n/a	34.90	24.9%					
95 - 90	3829	n/a	3829	34.90	n/a	34.90	32.4%					
90 - 85	3829	n/a	3829	34.90	n/a	34.90	42.0%					
85 - 80	3829	n/a	3829	34.90	n/a	34.90	52.2%					
80 - 75.71	6659	n/a	6659	41.97	n/a	41.97	44.1%					
75.71 - 75.46	6659	3108	9767	41.97	18.00	59.97	30.2%				34.9%	
75.46 - 70.46	6659	3108	9767	41.97	18.00	59.97	35.8%				41.4%	
70.46 - 65.46	6659	3108	9767	41.97	18.00	59.97	41.5%				48.0%	
65.46 - 60.46	6659	3108	9767	41.97	18.00	59.97	47.4%				54.9%	
60.46 - 60	6659	3108	9767	41.97	18.00	59.97	48.0%				55.5%	
60 - 59.75	10622	4188	14810	49.04	18.00	67.04	37.9%			35.0%		
59.75 - 54.75	10622	4188	14810	49.04	18.00	67.04	42.7%			39.3%		
54.75 - 49.75	10622	4188	14810	49.04	18.00	67.04	47.5%			43.7%		
49.75 - 44.75	10622	4188	14810	49.04	18.00	67.04	52.4%			48.3%		
44.75 - 40	10622	4188	14810	49.04	18.00	67.04	57.2%			52.7%		
40 - 39.75	15908	7435	23343	56.11	24.38	80.48	42.4%		37.8%			
39.75 - 34.75	15908	7435	23343	56.11	24.38	80.48	46.1%		41.2%			
34.75 - 29.75	15908	7435	23343	56.11	24.38	80.48	50.0%		44.6%			
29.75 - 24.75	15908	7435	23343	56.11	24.38	80.48	53.9%		48.1%			
24.75 - 20	15908	7435	23343	56.11	24.38	80.48	57.7%		51.5%			
20 - 19.75	22710	12261	34970	63.18	31.88	95.05	44.2%	42.1%				
19.75 - 14.75	22710	12261	34970	63.18	31.88	95.05	47.3%	45.0%				
14.75 - 9.75	22710	12261	34970	63.18	31.88	95.05	50.4%	48.0%				
9.75 - 4.75	22710	12261	34970	63.18	31.88	95.05	53.6%	51.0%				
4.75 - 4.39	22710	12261	34970	63.18	31.88	95.05	53.8%	51.3%				
4.39 - 4.14	22764	6804	29568	63.18	24.38	87.55	65.7%					45.8%
4.14 - 0	22764	6804	29568	63.18	24.38	87.55	69.0%					60.9%

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

Monopole Flange Plate Connection

Elevation = 100 ft.

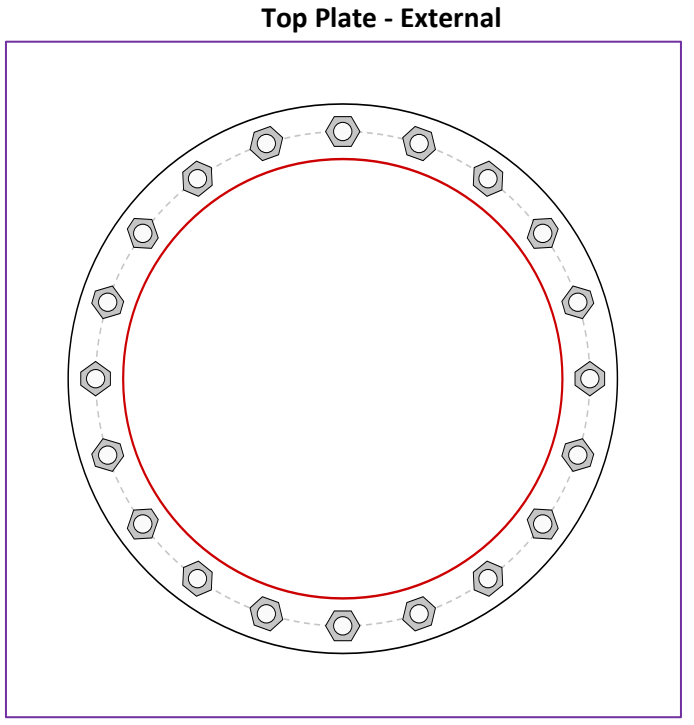
BU #	822765
Site Name	nford/ I-95/ X55/ Dtn1
Order #	582521 Rev. 0

TIA-222 Revision	H

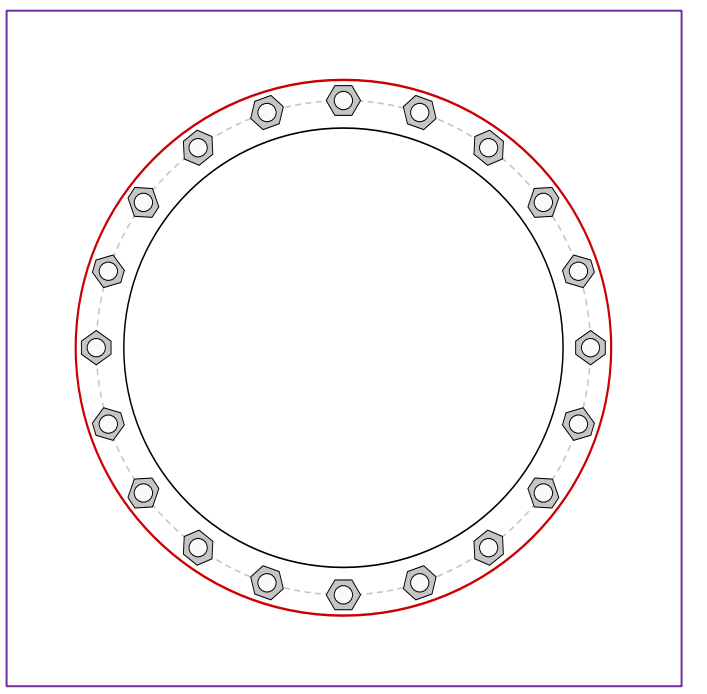
Applied Loads	
Moment (kip-ft)	163.71
Axial Force (kips)	10.95
Shear Force (kips)	10.24

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(20) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 27" BC

Top Plate Data

30" OD x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

24" ID x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

24" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Pole Data

30" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	14.00	
Allowable (kips)	54.53	
Stress Rating:	**24.4%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	**Pirod OK**
Tension Side Stress Rating:	**Pirod OK**

Bottom Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	**Pirod OK**
Tension Side Stress Rating:	**Pirod OK**

PROJECT	**101126.007.01 - Branford/ I-95/ X55/ Dtn1, CT**
SUBJECT	**Bolted Bridge Stiffeners at 80'**
DATE	**08-08-21**

v2.4.1

B+T GRP
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

General		
TIA-222 Rev.		H
Apply TIA-222-H Section 15.5?		Yes
Analysis/Design		Analysis
Modification Qty		1
Loads	Moment	498.4 k-ft
	Axial	24.7 k
	Shear	21.7 k

Pole Properties		
Upper Diameter		30.0 in
Upper Thickness		0.375 in
Lower Diameter		36.0 in
Lower Thickness		0.375 in
Grade		Custom
Fy	42	42 ksi
Fu	63	63 ksi

Flange Bolt Properties	
Qty	24
Diameter	1 in
Circle	33.0 in

Bridge Stiffener Properties			
Mod ID #	Mod 1	N/A	N/A
Type	Plate		
Qty	3		
Configuration	Symmetric		
Thickness	1.00 in		
Width	4.50 in		
Channel Part Number			
Diameter to Mod Centroid	37.0 in		
Unbraced Length	16.0 in		
Plate Grade	A572-65		
Fy	65 ksi		
Fu	80 ksi		
Eccentric Bolt Qty	10		
Shear-Only Bolt Qty	8		
Bolt Spacing	3.00 in		
Eccentricity	3.50 in		
Bolt Diameter	20 mm		
Shim Plate Length	35.0 in		
Shim Thickness	2 in		
Shim Weld Electrode	E80XX		
Shim Fillet Weld Size	1/4 in		

Results Summary

Checks		Capacity	Demand	Rating	Result
Mod 1	Plate Compression	196.6	101.9	49.3%	Pass
	Plate Tension	195.0	101.9	49.7%	Pass
Blind Bolts	Shear Only	37.0	12.7	32.8%	Pass
	Eccentric Shear	37.0	10.2	26.2%	Pass
	Tension	32.9	4.8	13.8%	Pass
	Combined Shear & Tens.	--	--	9.2%	Pass
	Bearing in Pole	47.6	10.2	20.4%	Pass
	Pull Out	49.1	4.8	9.2%	Pass
Shim Weld Strength		401.2	101.9	24.2%	Pass

Considered Loads at 80 ft				
Load Type	Flange*	Bridge Stiffeners		
		Mod 1		
Moment	261.6 k-ft	236.8 k-ft		
Axial	24.7 k	0.0 k		
Shear	21.7 k	0.0 k		

*See flange tool for flange bolt and plate capacities

Monopole Flange Plate Connection

Elevation = 80 ft.

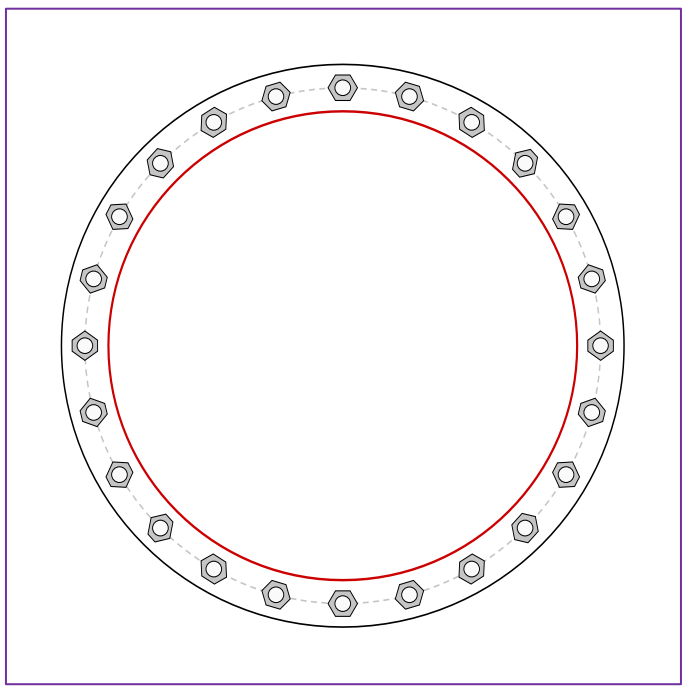
BU #	822765
Site Name	nford/ I-95/ X55/ Dtn1
Order #	582521 Rev. 0

TIA-222 Revision	H

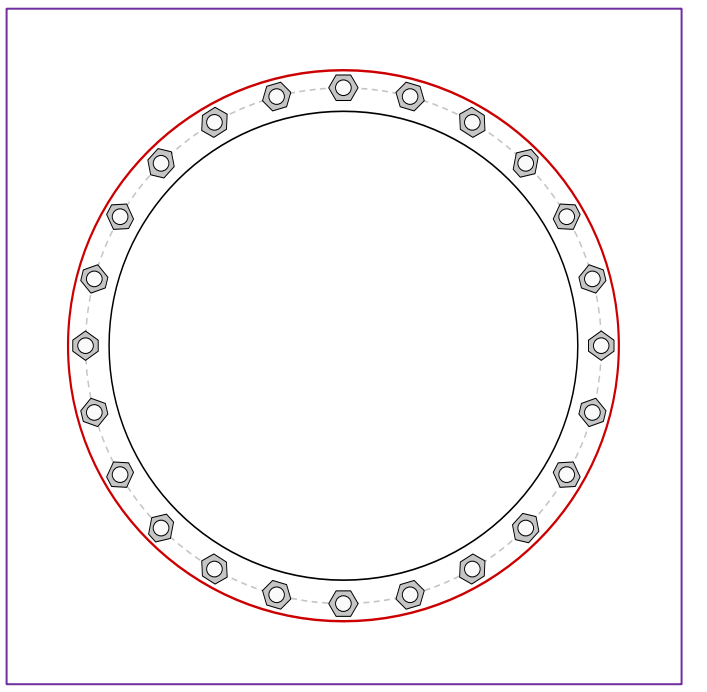
Applied Loads	
Moment (kip-ft)	261.60
Axial Force (kips)	24.70
Shear Force (kips)	21.75

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(24) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 33" BC

Top Plate Data

36" OD x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

30" ID x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

30" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Pole Data

36" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	14.82	
Allowable (kips)	54.52	
Stress Rating:	**25.9%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	16.28	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**47.9%**	**Pass**
Tension Side Stress Rating:	**15.9%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	16.46	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**48.4%**	**Pass**
Tension Side Stress Rating:	**N/A**	

PROJECT	**101126.007.01 - Branford/ I-95/ X55/ Dtn1, CT**
SUBJECT	**Bolted Bridge Stiffeners at 60'**
DATE	**08-08-21**

v2.4.1

B+T GRP
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

General		
TIA-222 Rev.		H
Apply TIA-222-H Section 15.5?		Yes
Analysis/Design		Analysis
Modification Qty		1
Loads	Moment	960.7 k-ft
	Axial	30.1 k
	Shear	24.4 k

Pole Properties		
Upper Diameter		36.0 in
Upper Thickness		0.375 in
Lower Diameter		42.0 in
Lower Thickness		0.375 in
Grade		Custom
Fy	42	42 ksi
Fu	63	63 ksi

Flange Bolt Properties	
Qty	28
Diameter	1 in
Circle	39.0 in

Bridge Stiffener Properties			
Mod ID #	Mod 1	N/A	N/A
Type	Plate		
Qty	3		
Configuration	Symmetric		
Thickness	1.00 in		
Width	6.00 in		
Channel Part Number			
Diameter to Mod Centroid	43.0 in		
Unbraced Length	16.0 in		
Plate Grade	A572-65		
Fy	65 ksi		
Fu	80 ksi		
Eccentric Bolt Qty	16		
Shear-Only Bolt Qty	0		
Bolt Spacing	3.00 in		
Eccentricity	3.50 in		
Bolt Diameter	20 mm		
Shim Plate Length	53.0 in		
Shim Thickness	2 in		
Shim Weld Electrode	E80XX		
Shim Fillet Weld Size	1/4 in		

Results Summary

Checks		Capacity	Demand	Rating	Result
Mod 1	Plate Compression	262.1	177.7	64.6%	Pass
	Plate Tension	285.0	177.7	59.4%	Pass
Blind Bolts	Eccentric Shear	30.8	11.1	34.3%	Pass
	Tension	32.9	3.2	9.4%	Pass
	Combined Shear & Tens.	--	--	13.3%	Pass
	Bearing in Pole	47.6	11.1	22.2%	Pass
	Pull Out	49.1	3.2	6.3%	Pass
Shim Weld Strength		607.6	177.7	27.9%	Pass

Considered Loads at 60 ft

Load Type	Flange*	Bridge Stiffeners		
		Mod 1		
Moment	480.0 k-ft	480.7 k-ft		
Axial	30.1 k	0.0 k		
Shear	24.4 k	0.0 k		

*See flange tool for flange bolt and plate capacities

Monopole Flange Plate Connection

Elevation = 60 ft.

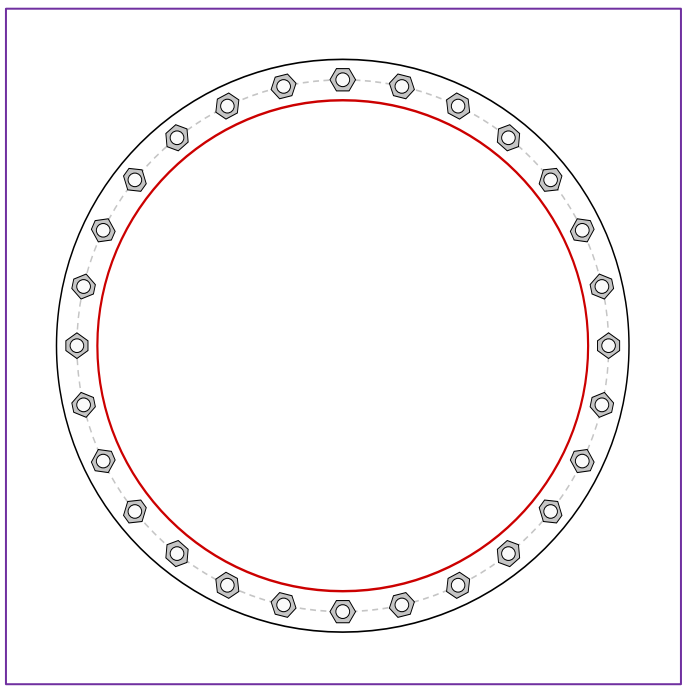
BU #	822765
Site Name	nford/ I-95/ X55/ Dtn1
Order #	582521 Rev. 0

TIA-222 Revision	H

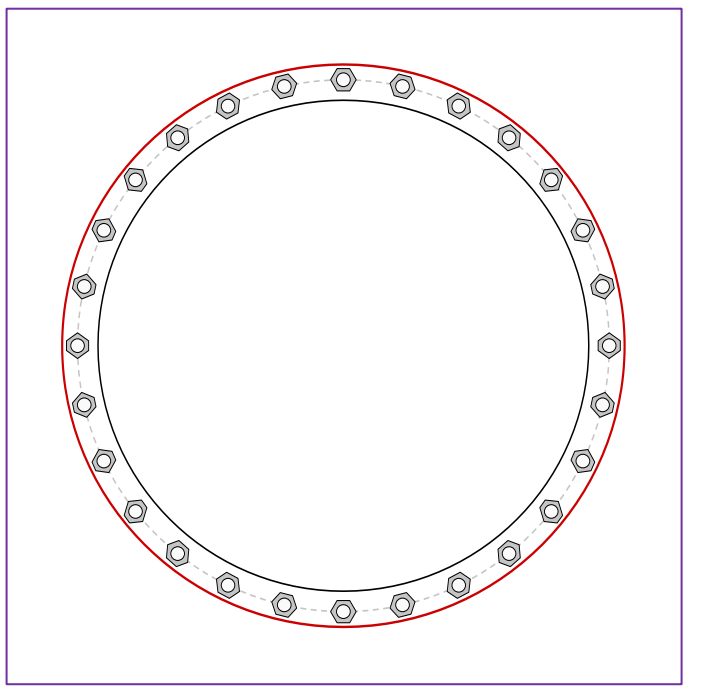
Applied Loads	
Moment (kip-ft)	480.00
Axial Force (kips)	30.15
Shear Force (kips)	24.43

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(28) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 39" BC

Top Plate Data

42" OD x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Top Pole Data

36" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Plate Data

36" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

42" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	20.02	
Allowable (kips)	54.52	
Stress Rating:	**35.0%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	20.73	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**60.9%**	**Pass**
Tension Side Stress Rating:	**20.8%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	13.80	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**40.6%**	**Pass**
Tension Side Stress Rating:	**N/A**	

PROJECT	**101126.007.01 - Branford/ I-95/ X55/ Dtn1, CT**
SUBJECT	**Bolted Bridge Stiffeners at 40'**
DATE	**08-08-21**

v2.4.1

B+T GRP
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

General		
TIA-222 Rev.		H
Apply TIA-222-H Section 15.5?		Yes
Analysis/Design		Analysis
Modification Qty		1
Loads	Moment	1466.7 k-ft
	Axial	36.6 k
	Shear	26.5 k

Pole Properties		
Upper Diameter		42.0 in
Upper Thickness		0.375 in
Lower Diameter		48.0 in
Lower Thickness		0.375 in
Grade		Custom
Fy	42	42 ksi
Fu	63	63 ksi

Flange Bolt Properties	
Qty	32
Diameter	1 in
Circle	45.0 in

Bridge Stiffener Properties			
Mod ID #	Mod 1	N/A	N/A
Type	Plate		
Qty	3		
Configuration	Symmetric		
Thickness	1.25 in		
Width	6.50 in		
Channel Part Number			
Diameter to Mod Centroid	49.3 in		
Unbraced Length	16.0 in		
Plate Grade	A572-65		
Fy	65 ksi		
Fu	80 ksi		
Eccentric Bolt Qty	22		
Shear-Only Bolt Qty	0		
Bolt Spacing	3.00 in		
Eccentricity	3.63 in		
Bolt Diameter	20 mm		
Shim Plate Length	71.0 in		
Shim Thickness	2 in		
Shim Weld Electrode	E80XX		
Shim Fillet Weld Size	1/4 in		

Results Summary

Checks		Capacity	Demand	Rating	Result
Mod 1	Plate Compression	394.3	255.2	61.7%	Pass
	Plate Tension	393.8	255.2	61.7%	Pass
Blind Bolts	Eccentric Shear	30.8	11.6	35.9%	Pass
	Tension	32.9	2.5	7.4%	Pass
	Combined Shear & Tens.	--	--	14.1%	Pass
	Bearing in Pole	47.6	11.6	23.2%	Pass
	Pull Out	49.1	2.5	4.9%	Pass
Shim Weld Strength		813.9	255.2	29.9%	Pass

Considered Loads at 40 ft

Load Type	Flange*	Bridge Stiffeners		
		Mod 1		
Moment	676.3 k-ft	790.4 k-ft		
Axial	36.6 k	0.0 k		
Shear	26.5 k	0.0 k		

*See flange tool for flange bolt and plate capacities

Monopole Flange Plate Connection

Elevation = 40 ft.

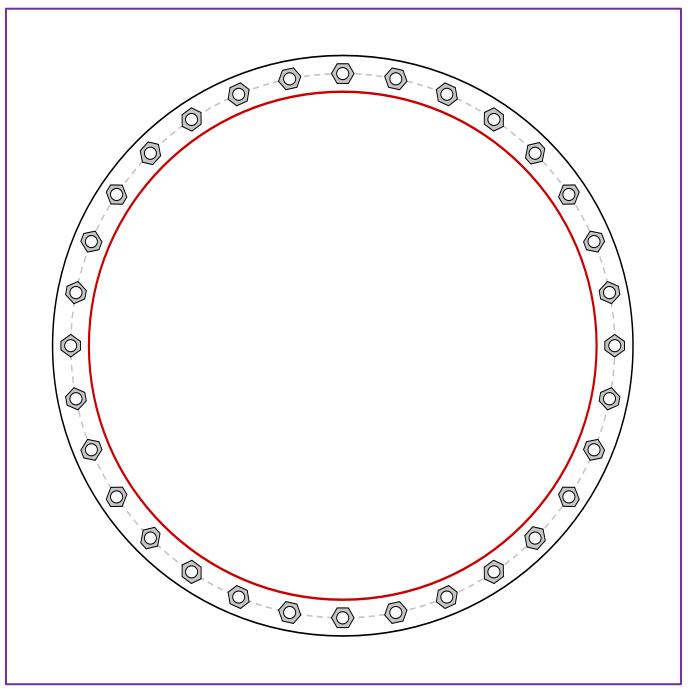
BU #	822765
Site Name	nford/ I-95/ X55/ Dtn1
Order #	582521 Rev. 0

TIA-222 Revision	H

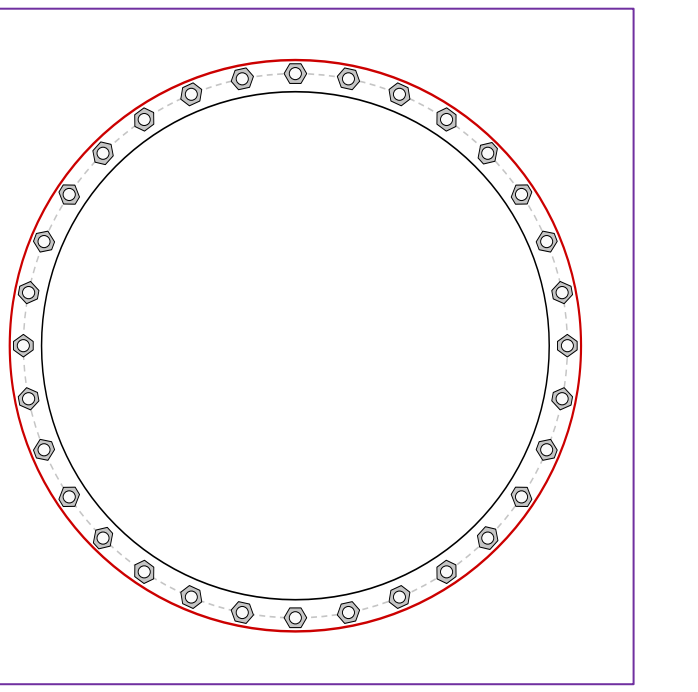
Applied Loads	
Moment (kip-ft)	676.30
Axial Force (kips)	36.56
Shear Force (kips)	26.48

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(32) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 45" BC

Top Plate Data

48" OD x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

42" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

42" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Pole Data

48" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	21.40	
Allowable (kips)	54.53	
Stress Rating:	**37.4%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	22.22	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**65.3%**	**Pass**
Tension Side Stress Rating:	**21.7%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	14.70	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**43.2%**	**Pass**
Tension Side Stress Rating:	**N/A**	

PROJECT	**101126.007.01 - Branford/ I-95/ X55/ Dtn1, CT**
SUBJECT	**Bolted Bridge Stiffeners at 20'**
DATE	**08-08-21**

v2.4.1

B+T GRP
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

General		
TIA-222 Rev.		H
Apply TIA-222-H Section 15.5?		Yes
Analysis/Design		Analysis
Modification Qty		1
Loads	Moment	2013.2 k-ft
	Axial	44.1 k
	Shear	28.5 k

Pole Properties		
Upper Diameter		48.0 in
Upper Thickness		0.375 in
Lower Diameter		54.0 in
Lower Thickness		0.375 in
Grade		Custom
Fy	42	42 ksi
Fu	63	63 ksi

Flange Bolt Properties	
Qty	36
Diameter	1 in
Circle	51.0 in

Bridge Stiffener Properties			
Mod ID #	Mod 1	N/A	N/A
Type	Plate		
Qty	3		
Configuration	Symmetric		
Thickness	1.25 in		
Width	8.50 in		
Channel Part Number			
Diameter to Mod Centroid	55.3 in		
Unbraced Length	16.0 in		
Plate Grade	A572-65		
Fy	65 ksi		
Fu	80 ksi		
Eccentric Bolt Qty	30		
Shear-Only Bolt Qty	0		
Bolt Spacing	3.00 in		
Eccentricity	3.63 in		
Bolt Diameter	20 mm		
Shim Plate Length	95.0 in		
Shim Thickness	1 3/4 in		
Shim Weld Electrode	E80XX		
Shim Fillet Weld Size	1/4 in		

Results Summary

Checks		Capacity	Demand	Rating	Result
Mod 1	Plate Compression	515.6	330.5	61.0%	Pass
	Plate Tension	543.8	330.5	57.9%	Pass
Blind Bolts	Eccentric Shear	30.8	11.0	34.0%	Pass
	Tension	32.9	1.8	5.1%	Pass
	Combined Shear & Tens.	--	--	12.4%	Pass
	Bearing in Pole	47.6	11.0	22.1%	Pass
	Pull Out	49.1	1.8	3.4%	Pass
Shim Weld Strength		1089.1	330.5	28.9%	Pass

Considered Loads at 20 ft

Load Type	Flange*	Bridge Stiffeners		
		Mod 1		
Moment	862.6 k-ft	1150.5 k-ft		
Axial	44.1 k	0.0 k		
Shear	28.5 k	0.0 k		

*See flange tool for flange bolt and plate capacities

Monopole Flange Plate Connection

Elevation = 20 ft.

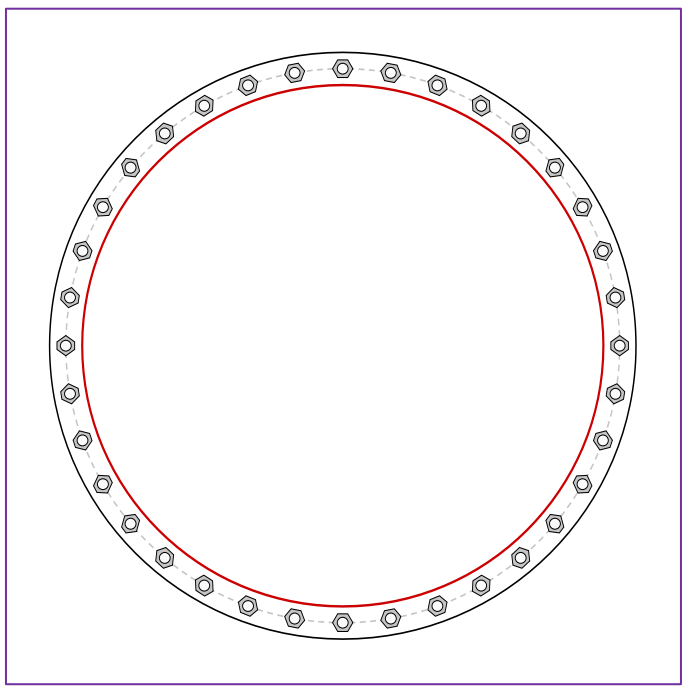
BU #	822765
Site Name	nford/ I-95/ X55/ Dtn1
Order #	582521 Rev. 0

TIA-222 Revision	H

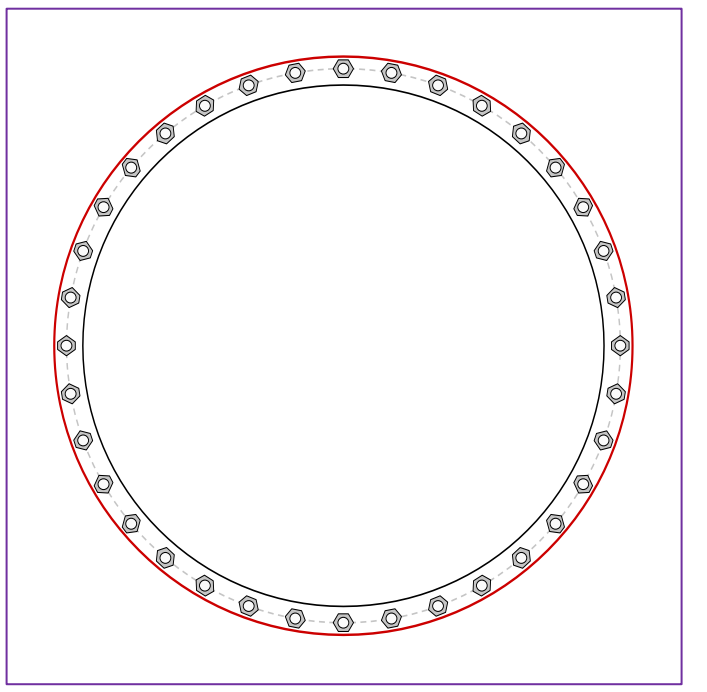
Applied Loads	
Moment (kip-ft)	862.60
Axial Force (kips)	44.08
Shear Force (kips)	28.50

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(36) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 51" BC

Top Plate Data

54" OD x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

48" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

48" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Pole Data

54" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	21.32	
Allowable (kips)	54.53	
Stress Rating:	**37.2%**	**Pass**

Top Plate Capacity

Max Stress (ksi):	22.17	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**65.2%**	**Pass**
Tension Side Stress Rating:	**21.3%**	**Pass**

Bottom Plate Capacity

Max Stress (ksi):	14.73	(Flexural)
Allowable Stress (ksi):	32.40	
Stress Rating:	**43.3%**	**Pass**
Tension Side Stress Rating:	**N/A**	

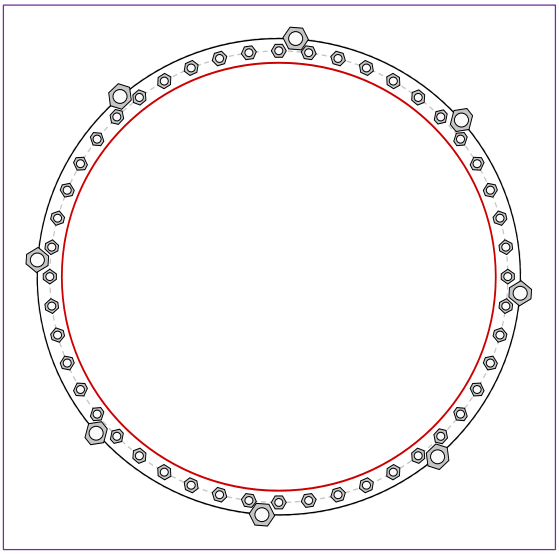
Monopole Base Plate Connection

Site Info	
BU #	822765
Site Name	nford/ I-95/ X55/ Dtn1
Order #	582521 Rev. 0

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

Applied Loads	
Moment (kip-ft)	2597.00
Axial Force (kips)	52.67
Shear Force (kips)	29.82

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (48) 1" ø bolts (A687 N; Fy=105 ksi, Fu=125 ksi) on 57" BC
GROUP 2: (8) 1-3/4" ø bolts (A193 Gr. B7 N; Fy=105 ksi, Fu=125 ksi) on 60.25" BC

Base Plate Data

60.125" OD x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Stiffener Data

N/A

Pole Data

54" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

GROUP 1:

Pu_t = 27.66	ϕPn_t = 56.81	**Stress Rating**
Vu = 0.62	ϕVn = 36.82	**46.4%**
Mu = n/a	ϕMn = n/a	**Pass**

GROUP 2:

Pu_t = 95.3	ϕPn_t = 178.13	**Stress Rating**
Vu = 0	ϕVn = 112.75	**51.0%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	32.82	(Flexural)
Allowable Stress (ksi):	32.4	
Stress Rating:	**96.5%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

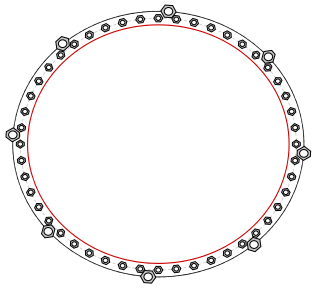
note: Bending interaction not considered when Grout Considered = "Yes"

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	Yes	No	

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	l_{se} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	1	A687	57	0.5	0	N-Included		No
2	1	7.5	1	A687	57	0.5	0	N-Included		No
3	1	15	1	A687	57	0.5	0	N-Included		No
4	1	22.5	1	A687	57	0.5	0	N-Included		No
5	1	30	1	A687	57	0.5	0	N-Included		No
6	1	37.5	1	A687	57	0.5	0	N-Included		No
7	1	45	1	A687	57	0.5	0	N-Included		No
8	1	52.5	1	A687	57	0.5	0	N-Included		No
9	1	60	1	A687	57	0.5	0	N-Included		No
10	1	67.5	1	A687	57	0.5	0	N-Included		No
11	1	75	1	A687	57	0.5	0	N-Included		No
12	1	82.5	1	A687	57	0.5	0	N-Included		No
13	1	90	1	A687	57	0.5	0	N-Included		No
14	1	97.5	1	A687	57	0.5	0	N-Included		No
15	1	105	1	A687	57	0.5	0	N-Included		No
16	1	112.5	1	A687	57	0.5	0	N-Included		No
17	1	120	1	A687	57	0.5	0	N-Included		No
18	1	127.5	1	A687	57	0.5	0	N-Included		No
19	1	135	1	A687	57	0.5	0	N-Included		No
20	1	142.5	1	A687	57	0.5	0	N-Included		No
21	1	150	1	A687	57	0.5	0	N-Included		No
22	1	157.5	1	A687	57	0.5	0	N-Included		No
23	1	165	1	A687	57	0.5	0	N-Included		No
24	1	172.5	1	A687	57	0.5	0	N-Included		No
25	1	180	1	A687	57	0.5	0	N-Included		No
26	1	187.5	1	A687	57	0.5	0	N-Included		No
27	1	195	1	A687	57	0.5	0	N-Included		No
28	1	202.5	1	A687	57	0.5	0	N-Included		No
29	1	210	1	A687	57	0.5	0	N-Included		No
30	1	217.5	1	A687	57	0.5	0	N-Included		No
31	1	225	1	A687	57	0.5	0	N-Included		No
32	1	232.5	1	A687	57	0.5	0	N-Included		No
33	1	240	1	A687	57	0.5	0	N-Included		No
34	1	247.5	1	A687	57	0.5	0	N-Included		No
35	1	255	1	A687	57	0.5	0	N-Included		No
36	1	262.5	1	A687	57	0.5	0	N-Included		No
37	1	270	1	A687	57	0.5	0	N-Included		No
38	1	277.5	1	A687	57	0.5	0	N-Included		No
39	1	285	1	A687	57	0.5	0	N-Included		No
40	1	292.5	1	A687	57	0.5	0	N-Included		No
41	1	300	1	A687	57	0.5	0	N-Included		No
42	1	307.5	1	A687	57	0.5	0	N-Included		No
43	1	315	1	A687	57	0.5	0	N-Included		No
44	1	322.5	1	A687	57	0.5	0	N-Included		No
45	1	330	1	A687	57	0.5	0	N-Included		No
46	1	337.5	1	A687	57	0.5	0	N-Included		No
47	1	345	1	A687	57	0.5	0	N-Included		No
48	1	352.5	1	A687	57	0.5	0	N-Included		No
49	2	41	1.75	A193 Gr. B7	60.25	0.5	0	N-Included		No
50	2	86	1.75	A193 Gr. B7	60.25	0.5	0	N-Included		No
51	2	131	1.75	A193 Gr. B7	60.25	0.5	0	N-Included		No
52	2	176	1.75	A193 Gr. B7	60.25	0.5	0	N-Included		No
53	2	221	1.75	A193 Gr. B7	60.25	0.5	0	N-Included		No
54	2	266	1.75	A193 Gr. B7	60.25	0.5	0	N-Included		No
55	2	311	1.75	A193 Gr. B7	60.25	0.5	0	N-Included		No
56	2	356	1.75	A193 Gr. B7	60.25	0.5	0	N-Included		No

Plot Graphic



PROJECT	**101126.007.01 - Branford/ I-95/ X55/ Dtn1, CT**
SUBJECT	**Anchor Rod Bracket Analysis**
DATE	**08-08-21**
v4.6.1	

TIA-222 Rev. **H**
Apply TIA-222-H Section 15.5? Yes

B+T GRP
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Analysis Criteria		
Design/Analysis	Analysis	
Load Type	Current Load	
Current load	95.3	kips
AR Capacity	227.3	kips

Tower Type	Monopole

Manufacturers Tower Prop.			
Pole Thickness		0.375	in
Pole Grade		Custom	
Fy	42	42	ksi
Fu	63	63	ksi
Base Plate Gr.		A36	
Fy		36	ksi
Fu		58	ksi

Post-Installed Adhesive AR Mod.		
ARB Type	Welded	
Size	1.75	in
Grade	A193 Gr B7	
Fy	105	ksi
Fu	125	ksi

Anchor Rod Bracket Analysis Checks		
Tube Bearing	33.4%	-
Tube Compression	50.1%	-
Gusset Shear	4.0%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	8.6%	-
Welds: Gusset to Tube	7.0%	-
Welds: Geometry	N/A	
Tower Punching	2.5%	-
Tube Punching	0.9%	-
Utilization	**50.1%**	

Bracket Properties

Gusset			Pipe/Tube			Weld - Gusset to Pipe/Tube		
Thickness	1.25	in	Size	2.5 XXS Pipe		FEXX	80	ksi
Width at Tube	1.6875	in	Total Length	21	in	Weld Type	PJP - Double Bevel	
Height at Pole	60	in	Length above Gusset	-30	in	Fillet Size	3/8	in
Height at Tube	51	in	Length below Gusset	0	in	Bevel Depth	3/8	in
Grade	A572-65		Grade	Custom				
Fy	65	ksi	Fy	50	ksi			
Fu	80	ksi	Fu	65	ksi			

Weld - Gusset to Tower			Weld - Gusset to Base Plate		
FEXX	80	ksi	FEXX	80	ksi
Weld Type	Double Fillet		Weld Type	CJP - Double Bevel	
Fillet Size	3/8	in	Fillet Size	9/16	in
			Bevel Depth	9/16	in
			Gap	0	in
			Notch (horiz)	0.75	in
			Notch (vert)	0.75	in
			Pipe/Tube Welded to Base/Footpad?	Yes	
			Fillet Size	1/2	in

Drilled Pier Foundation

BU # :	822765
Site Name:	Branford/ I-95/ X55/ Dtn1, C
Order Number:	582521 Rev. 0
TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	2597	
Axial Force (kips)	53	
Shear Force (kips)	30	

Material Properties			Rebar 2, Fy Override (ksi)
Concrete Strength, f'c:	4	ksi	
Rebar Strength, Fy:	60	ksi	105
Tie Yield Strength, Fyt:	60	ksi	

Pier Design Data		
Depth	21	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
From 0.5' above grade to 12.1' below grade		
Pier Diameter	6	ft
Rebar Quantity	24	
Rebar Size	9	
Clear Cover to Ties	3	in
Tie Size	5	
Tie Spacing	18	in
Rebar Quantity	2	
Rebar Size	14	
Rebar Cage Diameter	60.25	in
Pier Section 2		
From 12.1' below grade to 21' below grade		
Pier Diameter	6	ft
Rebar Quantity	24	
Rebar Size	9	
Clear Cover to Ties	3	in
Tie Size	5	
Tie Spacing	18	in

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
Soil Lateral Check	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	5.68	-
Soil Safety Factor	2.00	-
Max Moment (kip-ft)	2795.52	-
Rating*	*63.4%*	-
Soil Vertical Check	*Compression*	*Uplift*
Skin Friction (kips)	366.71	-
End Bearing (kips)	254.47	-
Weight of Concrete (kips)	109.42	-
Total Capacity (kips)	621.18	-
Axial (kips)	162.42	-
Rating*	*24.9%*	-
Reinforced Concrete Flexure	*Compression*	*Uplift*
Critical Depth (ft from TOC)	5.67	-
Critical Moment (kip-ft)	2795.52	-
Critical Moment Capacity	4099.71	-
Rating*	*64.9%*	-
Reinforced Concrete Shear	*Compression*	*Uplift*
Critical Depth (ft from TOC)	15.73	-
Critical Shear (kip)	383.43	-
Critical Shear Capacity	484.40	-
Rating*	*75.4%*	-

Structural Foundation Rating*	**75.4%**
Soil Interaction Rating*	**63.4%**

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	☑
N/A	☐
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	☑
Shear Design Options	
Check Shear along Depth of Pier:	☑
Utilize Shear-Friction Methodology:	☐
Override Critical Depth:	☐

Go to Soil Calculations

Soil Profile

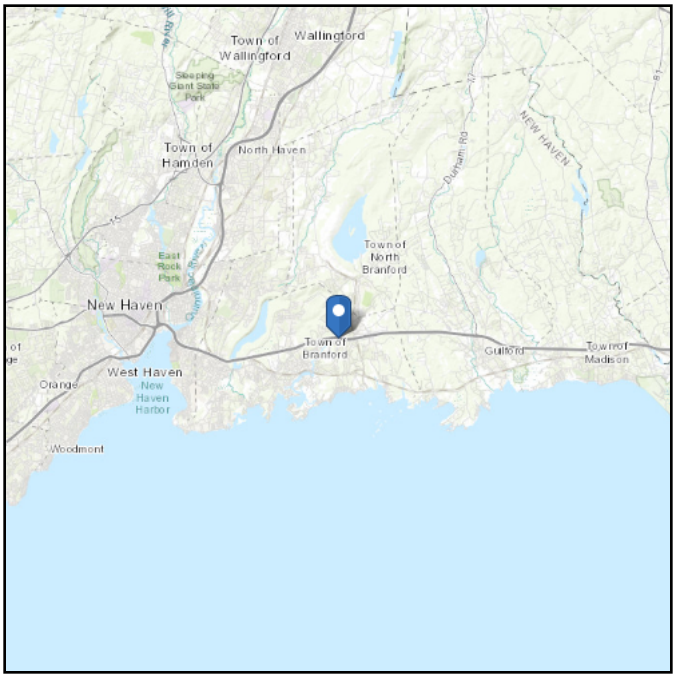
Groundwater Depth	N/A	# of Layers	3

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3.333	3.333	120	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3.333	11	7.667	120	150	0	34	0.979	0.979				65	Cohesionless
3	11	21	10	120	150	0	33	1.843	1.843			12	100	Cohesionless

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-10	**Elevation:**	56.16 ft (NAVD 88)
Risk Category:	II	**Latitude:**	41.293933
Soil Class:	D - Stiff Soil	**Longitude:**	-72.785706



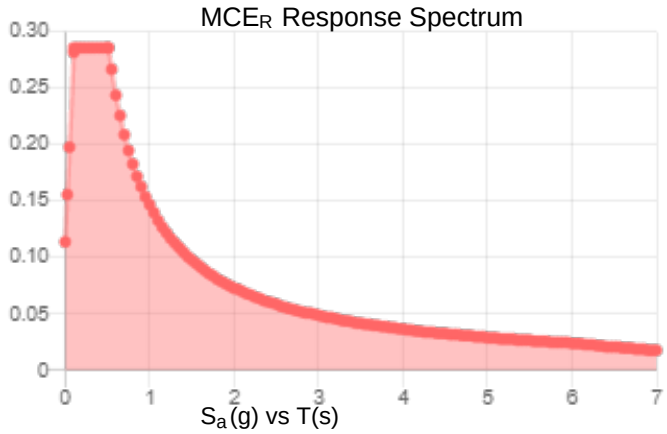
Seismic

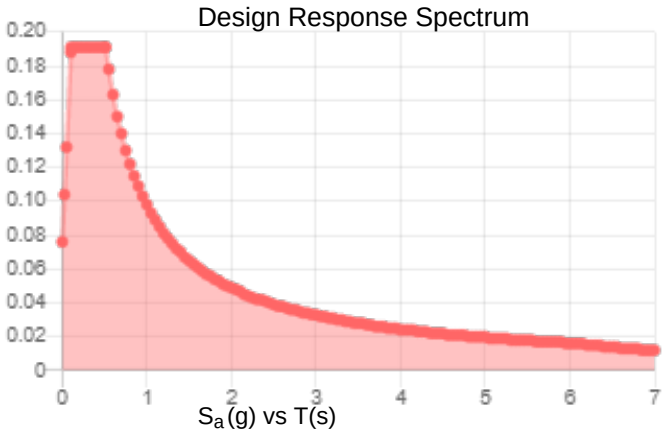
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.179	S_{DS} :	0.191
S_1 :	0.061	S_{D1} :	0.098
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.092
S_{MS} :	0.286	PGA_M :	0.147
S_{M1} :	0.147	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Fri Aug 06 2021

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	0.75 in.
Concurrent Temperature:	15 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Fri Aug 06 2021

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 50-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.

Exhibit E

Mount Analysis

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10091623
Maser Consulting Connecticut Project #: 21781008A

August 9, 2021

Site Information	*Site ID:*	*467600-VZW / BRANFORD_4_CT - A*
	Site Name:	*BRANFORD_4_CT - A*
	Carrier Name:	*Verizon Wireless*
	Address:	*10 Silvia St* *Branford, Connecticut 06405* *New Haven County*
	Latitude:	*41.2939261°*
	Longitude:	*-72.7857085°*
Structure Information	*Tower Type:*	*125-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*

FUZE ID # 16244652

Analysis Results

Platform: **49.0% Pass**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Frank Centone

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:5002274, dated July 15, 2021*
Mount Mapping Report	*Hudson Design Group, LLC, Site ID: 467600, dated June 16, 2021*
Previous Mount Analysis Report	*Maser Consulting Connecticut, Project #: 21781008A, dated July 28, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut, Project #: 21781008A, dated August 8, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	122 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.998
Seismic Parameters:	S_S:	0.202
	S_1:	0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	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
110.00	112.00	3	Commscope	HBXX-6517DS-A2M	Retained
		2	-	OVP6*	
		6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6407-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	

Equipment to be flush mounted directly to the Monopole. They are not mounted on the platform mount and are not included in this mount analysis.

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

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

Standard Conditions:

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

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

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

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

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

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

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

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

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - 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 Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	16.5 %	Pass
Standoff Horizontal	35.5 %	Pass
Platform Crossmember	16.7 %	Pass
Mount Pipe	45.2 %	Pass
Replacement Pipe	24.5 %	Pass
Corner Plate	23.4 %	Pass
Grating Support	15.2 %	Pass
Cross Arm Plate	33.1 %	Pass
Support Rail	23.9 %	Pass
Support Rail Corner	43.4 %	Pass
Mount Connection	49.0%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**49.0%**

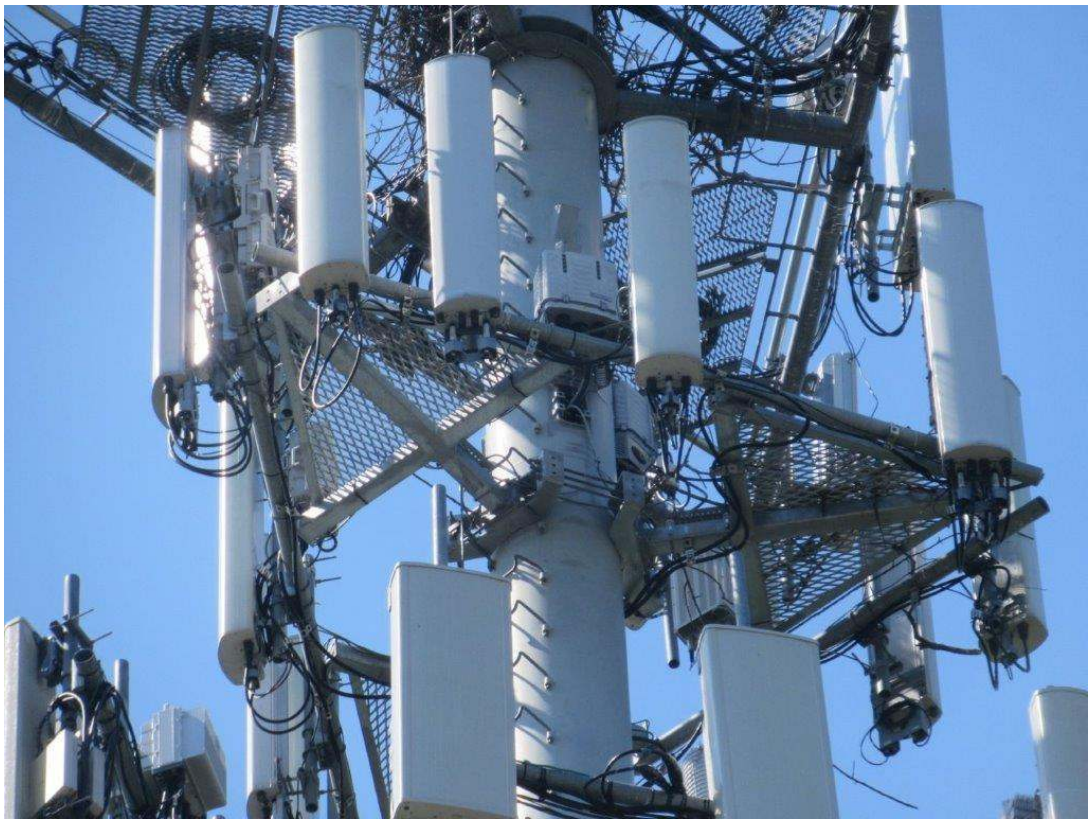
Recommendation:

The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications 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. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



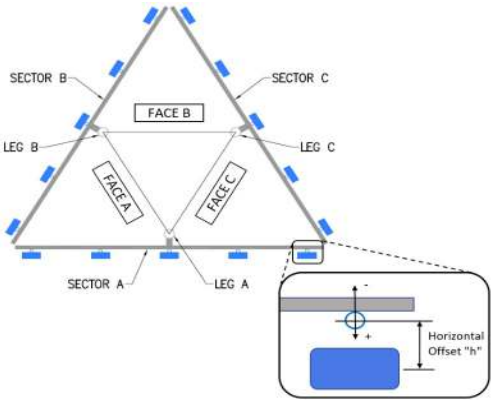
V4.0 Updated on 3-31-2021

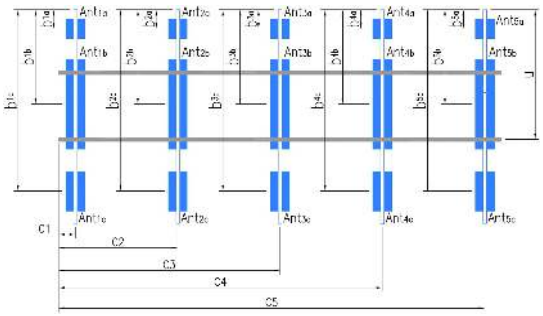
Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	OTHER	**Mapping Date:**	6/15/2021
Site Name:	BRANFORD 4 CT	**Tower Type:**	Monopole
Site Number or ID:	467600	**Tower Height (Ft.):**	
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	111.75

Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.





Antenna Layout (Looking Out From Tower)

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				C1			
A2				C2			
A3				C3			
A4				C4			
A5				C5			
A6				C6			
B1				D1			
B2				D2			
B3				D3			
B4				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.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	
Please enter additional infomation or comments below.	
TOWER WAS MAPPED FROM GROUND ONLY	

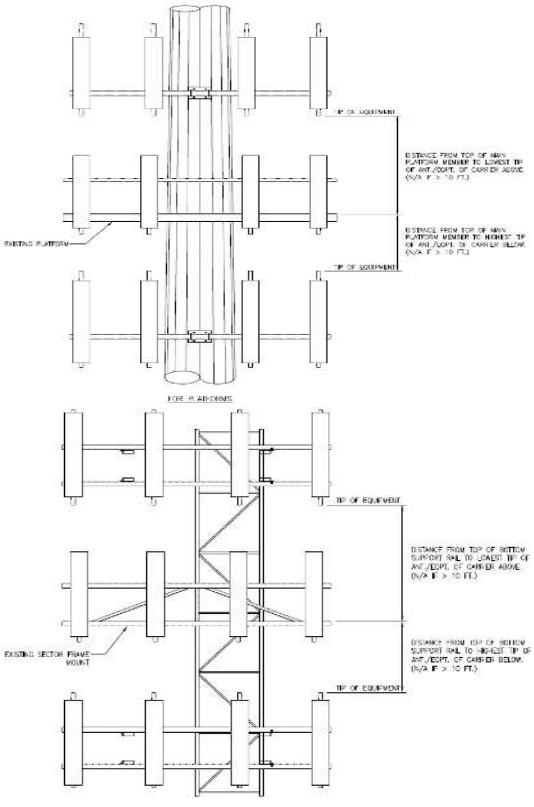
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.			

	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant_{1a}	UNKNOWN					111.75				6
Ant_{1b}	UNKNOWN					111.75			5.00	6
Ant_{1c}										
Ant_{2a}	UNKNOWN					111.75				7
Ant_{2b}	UNKNOWN					111.75			5.00	7
Ant_{2c}										
Ant_{3a}	UNKNOWN					111.75				
Ant_{3b}									5.00	9
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN					111.75			5.00	9
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

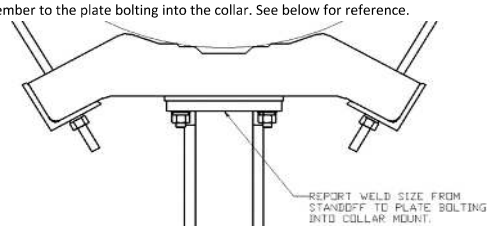
Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	5.00	Deg	Leg A:		Deg
Sector B:	125.00	Deg	Leg B:		Deg
Sector C:	245.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	190.00	Deg	N/A
Climbing Facility	Corrosion Type:		Good condition.
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.

Please insert a photo of the mount centerline measurement here.



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



Sector B										
Ant_{1a}	UNKNOWN					111.75				20
Ant_{1b}	UNKNOWN					111.75			169.00	14
Ant_{1c}										
Ant_{2a}	UNKNOWN					111.75				20
Ant_{2b}	UNKNOWN					111.75			169.00	15
Ant_{2c}										
Ant_{3a}	UNKNOWN					111.75				
Ant_{3b}									169.00	16
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN					111.75			169.00	16
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	UNKNOWN					111.75				16
Ant_{1b}	UNKNOWN					111.75			266.00	21
Ant_{1c}										
Ant_{2a}	UNKNOWN					111.75				13
Ant_{2b}	UNKNOWN					111.75			266.00	22
Ant_{2c}										
Ant_{3a}	UNKNOWN					111.75				
Ant_{3b}									266.00	23
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN					111.75			266.00	23
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	This was a ground audit and we added a possible mount dwg that is a possible match for reference only	
2		
3		
4		
5		
6		
7		
8		

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

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

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

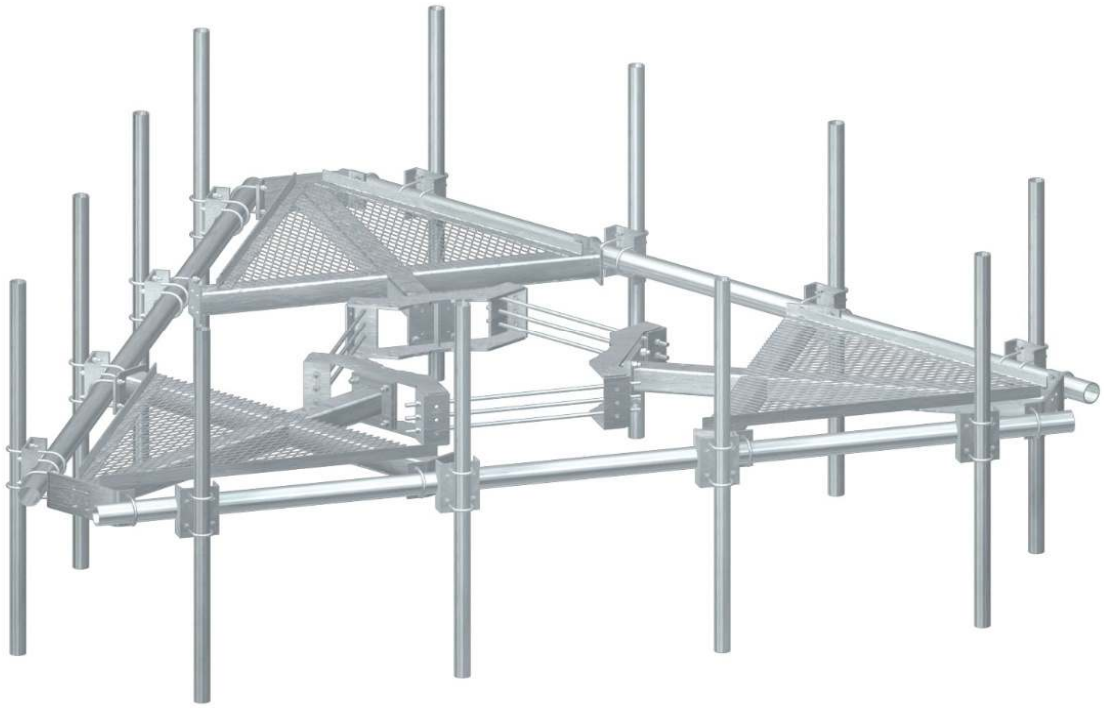
V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

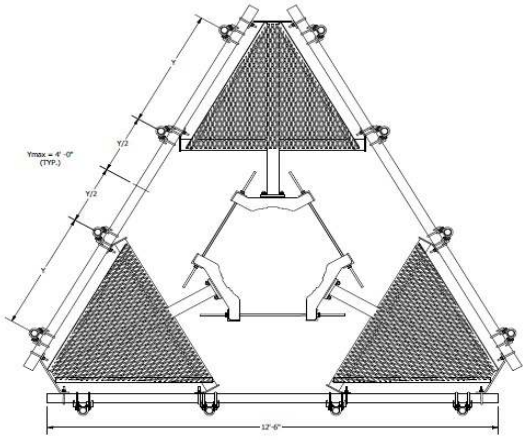
FCC #

Tower Owner:	OTHER	**Mapping Date:**	6/15/2021
Site Name:	BRANFORD 4 CT	**Tower Type:**	Monopole
Site Number or ID:	467600	**Tower Height (Ft.):**	
Mapping Contractor:	HUDSON DESIGN GROUP, LLC.	**Mount Elevation (Ft.):**	111.75

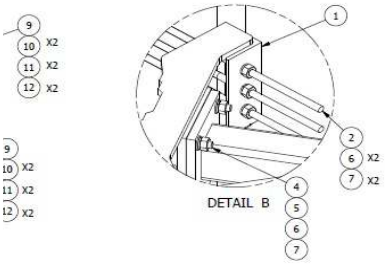
Please Insert Sketches of the Antenna Mount



Please Insert Sketches of the Antenna Mount, cont'd



PARTS LIST			
PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
ING MOUNT WELDMENT		68.81	206.42
x 48" THREADED ROD (HDG.)		0.40	3.59
x 24" THREADED ROD (HDG.)		0.40	3.59
PROFILE PLATFORM CORNER		212.10	636.31
x 2-3/4" HDG A325 HEX BOLT	2.75	0.36	4.27
3" HDG A325 FLATWASHER		0.03	0.41
5/8" HDG LOCKWASHER		0.03	0.78
5/8" HDG A325 HEX NUT		0.13	3.90
.150" SCH 40 GALVANIZED PIPE	150.000 in	94.80	284.40
3-5/8" X 6" X 3" U-BOLT (HDG.)		0.26	9.25
2" HDG USS FLATWASHER		0.03	4.09
1/2" HDG LOCKWASHER		0.01	1.67
" HDG HEAVY 2H HEX NUT		0.07	8.60
LL SUPPORT CROSS PLATE	8.250 in	8.61	103.33
1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	6.17
NTENNA MOUNTING PIPE	C	D	E



TOLERANCE NOTE
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE - ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

PROPRIETARY NOTE
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	ADDED 10' 6" ANTENNA MOUNTING PIPES		CEK	7/9/2015

REVISION HISTORY

DESCRIPTION: LOW PROFILE CO-LOCATION PLATFORM FOR 12 ANTENNAS WITH 12' 6" FACE WIDTH FOR 12" - 36" DIAMETER POLES

SITE PRO 1 — A valmont COMPANY — Engineering Support Team: 1-888-753-7446 — Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

DRAWN BY	CPD NO.	DRAWING USAGE	PART NO.
CEK 1/20/2012	semb	CUSTOMER	SEE ASSEMBLY NO. "A"
ENG. APPROVAL	CHECKED BY		DWG. NO.
	BMC 7/9/2015		RMQP-4XX

PAGE 1 OF 2

2-3/8" O.D. VERTICAL MOUNTING PIPES

ASSEMBLY NO. "A"	PART NO. "B"	LENGTH, "C"	UNIT WEIGHT, "D"	NET WEIGHT, "E"	TOTAL WEIGHT
RMQP-463	P263	63"	20.18	242.16	1591.11
RMQP-472	P272	72"	23.07	276.84	1625.79
RMQP-484	P284	84"	26.91	322.92	1671.87
RMQP-496	P296	96"	30.76	369.12	1718.07
RMQP-4126	P2126	126"	40.75	489.00	1837.95

TOLERANCE NOTE
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE - ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

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REVISION HISTORY

DESCRIPTION: LOW PROFILE CO-LOCATION PLATFORM FOR 12 ANTENNAS WITH 12' 6" FACE WIDTH FOR 12" - 36" DIAMETER POLES

SITE PRO 1 — A valmont COMPANY — Engineering Support Team: 1-888-753-7446 — Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

DRAWN BY	CPD NO.	DRAWING USAGE	PART NO.
CEK 1/20/2012	semb	CUSTOMER	SEE ASSEMBLY NO. "A"
ENG. APPROVAL	CHECKED BY		DWG. NO.
	BMC 7/9/2015		RMQP-4XX

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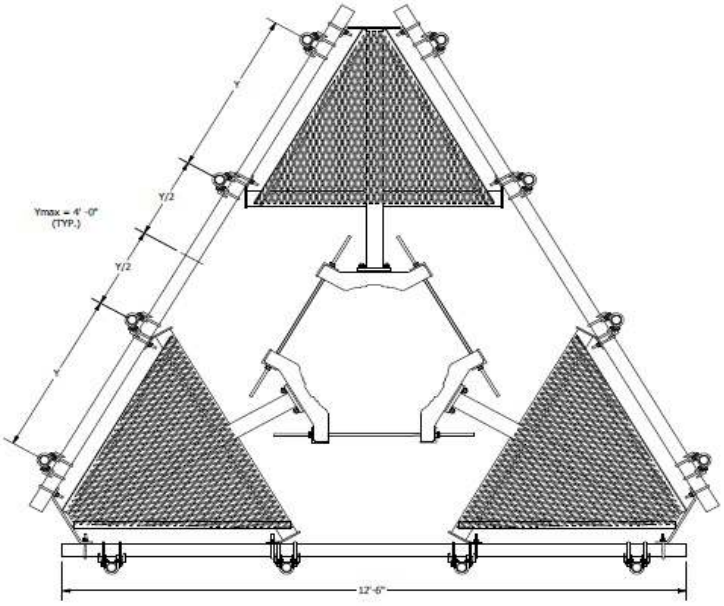

TOLERANCE NOTE
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE - ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

PROPRIETARY NOTE
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	ADDED 10' 6" ANTENNA MOUNTING PIPES		CEK	7/9/2015

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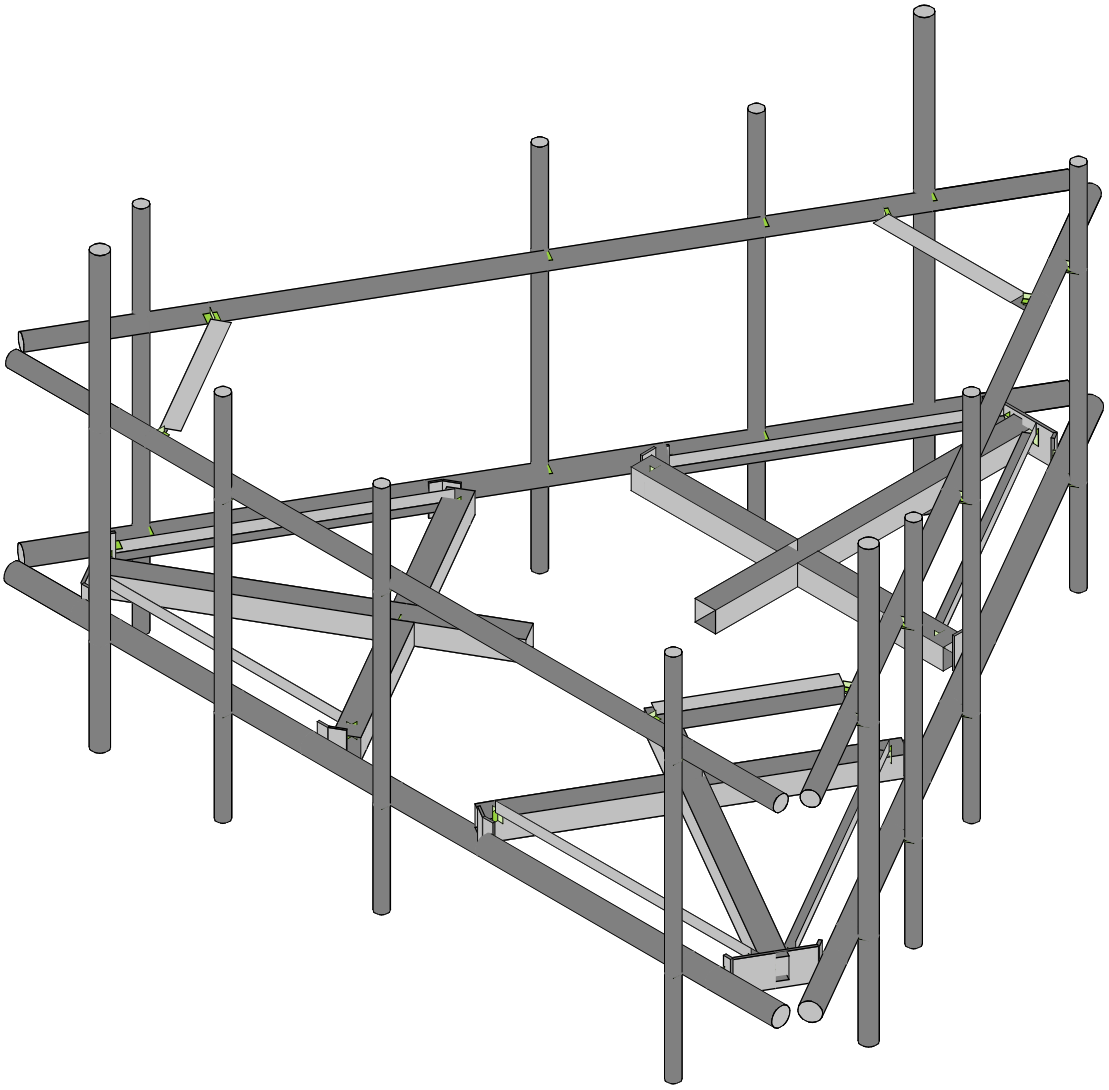
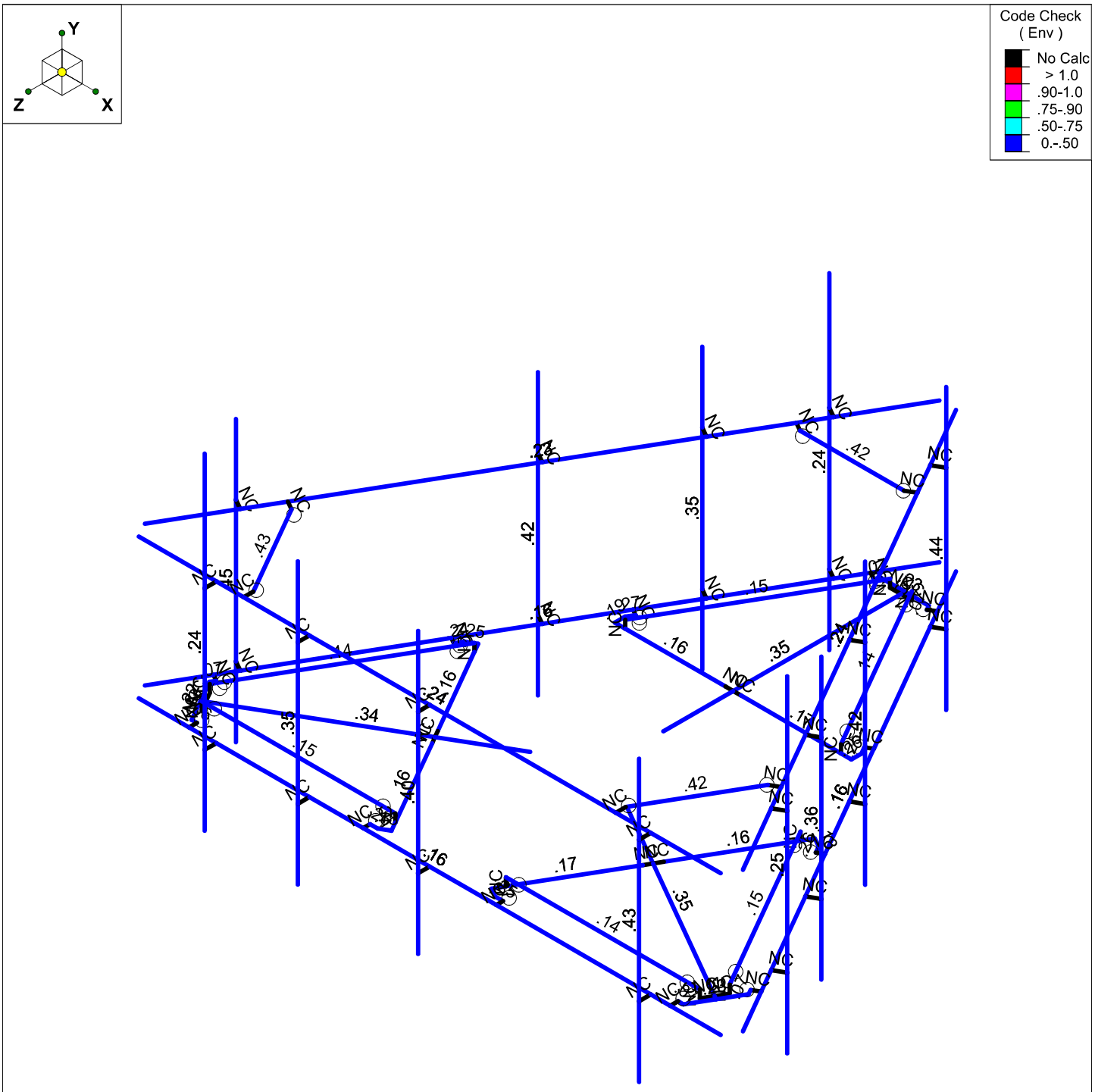
PAGE 2 OF 2

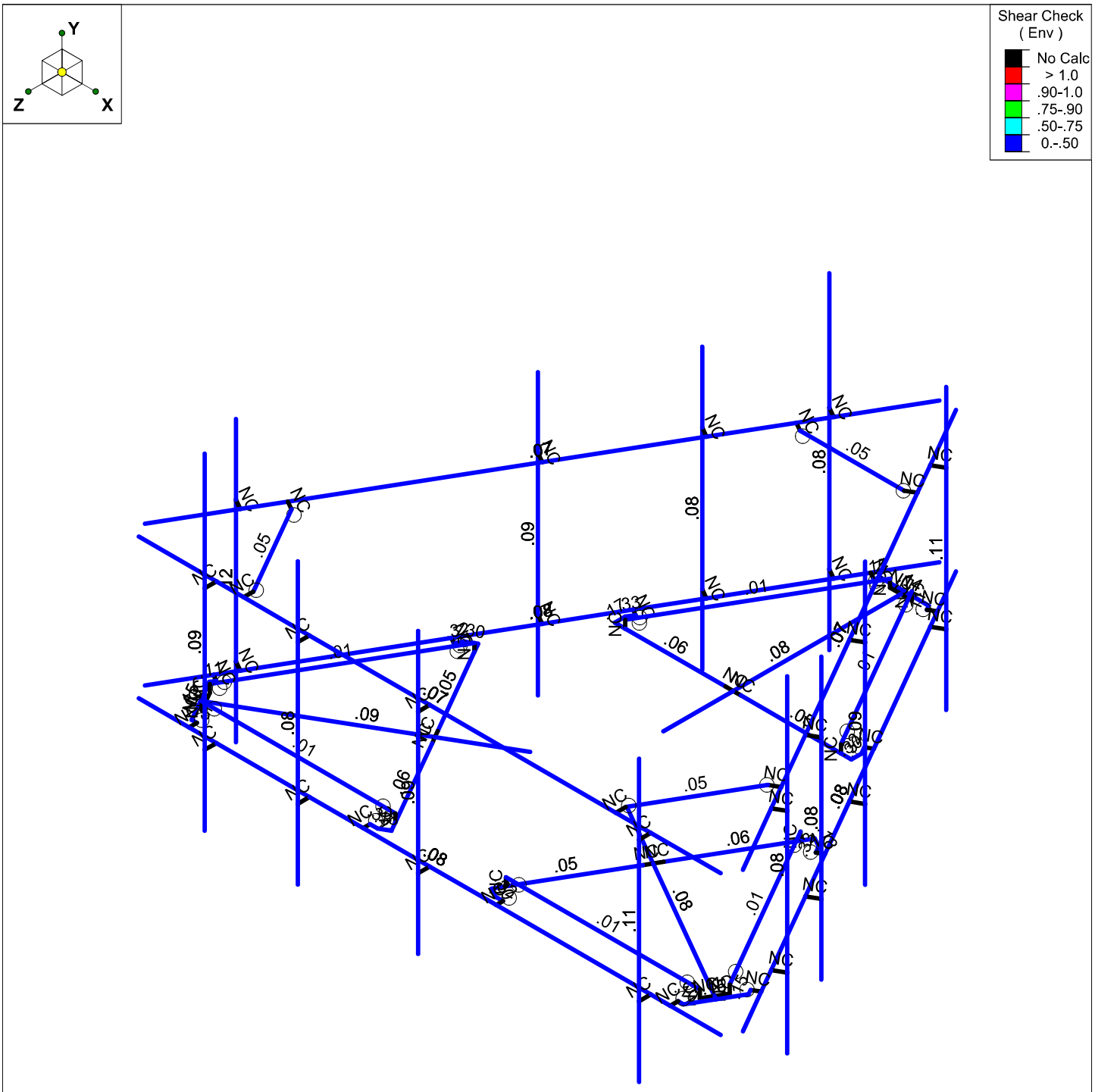


Maser Consulting	Mount Analysis	SK - 1
		Aug 9, 2021 at 10:52 AM
		MOD_467600-VZW_MT_LO_H.r3d



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

Maser Consulting	Mount Analysis	SK - 2
		Aug 9, 2021 at 10:52 AM
		MOD_467600-VZW_MT_LO_H.r3d



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

Maser Consulting	Mount Analysis	SK - 3
		Aug 9, 2021 at 10:52 AM
		MOD_467600-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					90			
2	Antenna Di	None					90			
3	Antenna Wo (0 Deg)	None					90			
4	Antenna Wo (30 Deg)	None					90			
5	Antenna Wo (60 Deg)	None					90			
6	Antenna Wo (90 Deg)	None					90			
7	Antenna Wo (120 Deg)	None					90			
8	Antenna Wo (150 Deg)	None					90			
9	Antenna Wo (180 Deg)	None					90			
10	Antenna Wo (210 Deg)	None					90			
11	Antenna Wo (240 Deg)	None					90			
12	Antenna Wo (270 Deg)	None					90			
13	Antenna Wo (300 Deg)	None					90			
14	Antenna Wo (330 Deg)	None					90			
15	Antenna Wi (0 Deg)	None					90			
16	Antenna Wi (30 Deg)	None					90			
17	Antenna Wi (60 Deg)	None					90			
18	Antenna Wi (90 Deg)	None					90			
19	Antenna Wi (120 Deg)	None					90			
20	Antenna Wi (150 Deg)	None					90			
21	Antenna Wi (180 Deg)	None					90			
22	Antenna Wi (210 Deg)	None					90			
23	Antenna Wi (240 Deg)	None					90			
24	Antenna Wi (270 Deg)	None					90			
25	Antenna Wi (300 Deg)	None					90			
26	Antenna Wi (330 Deg)	None					90			
27	Antenna Wm (0 Deg)	None					90			
28	Antenna Wm (30 Deg)	None					90			
29	Antenna Wm (60 Deg)	None					90			
30	Antenna Wm (90 Deg)	None					90			
31	Antenna Wm (120 Deg)	None					90			
32	Antenna Wm (150 Deg)	None					90			
33	Antenna Wm (180 Deg)	None					90			
34	Antenna Wm (210 Deg)	None					90			
35	Antenna Wm (240 Deg)	None					90			
36	Antenna Wm (270 Deg)	None					90			
37	Antenna Wm (300 Deg)	None					90			
38	Antenna Wm (330 Deg)	None					90			
39	Structure D	None		-1					3	
40	Structure Di	None						57	3	
41	Structure Wo (0 Deg)	None						114		
42	Structure Wo (30 Deg)	None						114		
43	Structure Wo (60 Deg)	None						114		
44	Structure Wo (90 Deg)	None						114		
45	Structure Wo (120 D...	None						114		
46	Structure Wo (150 D...	None						114		
47	Structure Wo (180 D...	None						114		
48	Structure Wo (210 D...	None						114		
49	Structure Wo (240 D...	None						114		
50	Structure Wo (270 D...	None						114		
51	Structure Wo (300 D...	None						114		
52	Structure Wo (330 D...	None						114		
53	Structure Wi (0 Deg)	None						114		
54	Structure Wi (30 Deg)	None						114		
55	Structure Wi (60 Deg)	None						114		
56	Structure Wi (90 Deg)	None						114		

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						114		
58	Structure Wi (150 De...	None						114		
59	Structure Wi (180 De...	None						114		
60	Structure Wi (210 De...	None						114		
61	Structure Wi (240 De...	None						114		
62	Structure Wi (270 De...	None						114		
63	Structure Wi (300 De...	None						114		
64	Structure Wi (330 De...	None						114		
65	Structure Wm (0 Deg)	None						114		
66	Structure Wm (30 De...	None						114		
67	Structure Wm (60 De...	None						114		
68	Structure Wm (90 De...	None						114		
69	Structure Wm (120 D...	None						114		
70	Structure Wm (150 D...	None						114		
71	Structure Wm (180 D...	None						114		
72	Structure Wm (210 D...	None						114		
73	Structure Wm (240 D...	None						114		
74	Structure Wm (270 D...	None						114		
75	Structure Wm (300 D...	None						114		
76	Structure Wm (330 D...	None						114		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						30		
82	BLC 40 Transient Are...	None						30		

Load Combinations

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.2D+1.0Wo (0 ...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (12...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (15...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (18...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (21...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (24...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (27...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (33...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										

Load Combinations (Continued)

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
27	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 +...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	Seismic Mass		Y		1	1	39	1																
53	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1										
54	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866										
55	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5										
56	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ											
57	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5										
58	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866										
59	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1										
60	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866										
61	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5										
62	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ											
63	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5										
64	1.2D + 1.0Ev + 1...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866										

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	6.25	0	3.810523	0	
2	N2	-6.25	0	3.810523	0	
3	N3	0	0	-1.208333	0	
4	N5	-2.541667	0	-2.708333	0	
5	N6	2.315104	0.166667	-2.708333	0	
6	N7	-2.315104	0.166667	-2.708333	0	
7	N8	4.75	0	3.810523	0	
8	N9	4.75	0	4.060523	0	
9	N10	-4.583333	0	3.810523	0	
10	N11	-4.583333	0	4.060523	0	
11	N12	-0.	0	3.810523	0	
12	N13	-0.	0	4.060523	0	
13	N14	-2.583333	0	3.810523	0	
14	N15	-2.583333	0	4.060523	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N16	-2.583333	-1.5	4.060523	0	
16	N17	-2.583333	4.5	4.060523	0	
17	N18	-4.583333	-1.5	4.060523	0	
18	N19	-4.583333	5.5	4.060523	0	
19	N20	-0.	-1.5	4.060523	0	
20	N21	-0.	4.5	4.060523	0	
21	N22	4.75	-1.5	4.060523	0	
22	N23	4.75	4.5	4.060523	0	
23	N24	0	0	-2.708333	0	
24	N27	0	0	-6.395833	0	
25	CP	0	0	0	0	
26	N29	2.315104	0	-2.708333	0	
27	N30	-2.315104	0	-2.708333	0	
28	N101	2.541667	0	-2.708333	0	
29	N102	-0.166667	0	-2.708333	0	
30	N103A	0.166667	0	-2.708333	0	
31	N104A	-2.541667	0	-2.927083	0	
32	N105	2.541667	0	-2.927083	0	
33	N131	2.458333	0	-3.071421	0	
34	N135	0.571615	0	-6.298857	0	
35	N144	-2.458333	0	-3.071421	0	
36	N148	-0.571615	0	-6.298857	0	
37	N86A	2.584629	0	-3.144338	0	
38	N86B	-2.584629	0	-3.144338	0	
39	N86C	-0.515625	0	-6.395833	0	
40	N87A	0.515625	0	-6.395833	0	
41	N86D	0.715429	0	-6.381888	0	
42	N86E	-0.715429	0	-6.381888	0	
43	N88A	0	0	-6.3125	0	
44	N87C	0.234238	0.166667	-6.3125	0	
45	N86G	0.234238	0	-6.3125	0	
46	N87B	-0.234238	0.166667	-6.3125	0	
47	N88C	-0.234238	0	-6.3125	0	
48	N87D	-1.046447	0	0.604167	0	
49	N88B	-1.074652	0	3.555315	0	
50	N89	-3.503038	0.166667	-0.650772	0	
51	N90	-1.187933	0.166667	3.359106	0	
52	N91	-2.345485	0	1.354167	0	
53	N92	-5.538954	0	3.197917	0	
54	N93	-3.503038	0	-0.650772	0	
55	N94	-1.187933	0	3.359106	0	
56	N95	-3.616319	0	-0.846981	0	
57	N96	-2.262152	0	1.498504	0	
58	N97	-2.428819	0	1.209829	0	
59	N98	-1.264095	0	3.66469	0	
60	N99	-3.805762	0	-0.737606	0	
61	N100	-3.889095	0	-0.593269	0	
62	N101A	-5.740777	0	2.654396	0	
63	N102A	-1.430762	0	3.66469	0	
64	N103	-5.169162	0	3.644461	0	
65	N104	-4.015391	0	-0.666185	0	
66	N105A	-1.430762	0	3.810523	0	
67	N106	-5.281142	0	3.644461	0	
68	N107	-5.796767	0	2.751372	0	
69	N108	-5.884591	0	2.571364	0	
70	N109	-5.169162	0	3.810523	0	
71	N110	-5.466785	0	3.15625	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N111	-5.583904	0.166667	2.953394	0	
73	N112	-5.583904	0	2.953394	0	
74	N113	-5.349667	0.166667	3.359106	0	
75	N114	-5.349667	0	3.359106	0	
76	N115	1.046447	0	0.604167	0	
77	N116	3.616319	0	-0.846981	0	
78	N117	1.187933	0.166667	3.359106	0	
79	N118	3.503038	0.166667	-0.650772	0	
80	N119	2.345485	0	1.354167	0	
81	N120	5.538954	0	3.197917	0	
82	N121	1.187933	0	3.359106	0	
83	N122	3.503038	0	-0.650772	0	
84	N123	1.074652	0	3.555315	0	
85	N124	2.428819	0	1.209829	0	
86	N125	2.262152	0	1.498504	0	
87	N126	3.805762	0	-0.737606	0	
88	N127	1.264095	0	3.66469	0	
89	N128	1.430762	0	3.66469	0	
90	N129	5.169162	0	3.644461	0	
91	N130	3.889095	0	-0.593269	0	
92	N131A	5.740777	0	2.654396	0	
93	N132	1.430762	0	3.810523	0	
94	N133	4.015391	0	-0.666186	0	
95	N134	5.796767	0	2.751372	0	
96	N135A	5.281142	0	3.644461	0	
97	N136	5.169162	0	3.810523	0	
98	N137	5.884591	0	2.571364	0	
99	N138	5.466785	0	3.15625	0	
100	N139	5.349667	0.166667	3.359106	0	
101	N140	5.349667	0	3.359106	0	
102	N141	5.583904	0.166667	2.953394	0	
103	N142	5.583904	0	2.953394	0	
104	N104B	0.17501	0	-7.31792	0	
105	N105B	6.42501	0	3.507397	0	
106	N124A	-6.42501	0	3.507397	0	
107	N125A	-0.17501	0	-7.31792	0	
108	N108A	0.92501	0	-6.018882	0	
109	N109A	1.141516	0	-6.143882	0	
110	N110A	5.591677	0	2.064021	0	
111	N111A	5.808183	0	1.939021	0	
112	N112A	3.30001	0	-1.905262	0	
113	N113A	3.516516	0	-2.030262	0	
114	N114A	4.591677	0	0.331971	0	
115	N115A	4.808183	0	0.206971	0	
116	N116A	4.808183	-1.5	0.206971	0	
117	N117A	4.808183	4.5	0.206971	0	
118	N118A	5.808183	-1.5	1.939021	0	
119	N119A	5.808183	5.5	1.939021	0	
120	N120A	3.516516	-1.5	-2.030262	0	
121	N121A	3.516516	4.5	-2.030262	0	
122	N122A	1.141516	-1.5	-6.143882	0	
123	N123A	1.141516	4.5	-6.143882	0	
124	N124B	-5.67501	0	2.208359	0	
125	N125B	-5.891516	0	2.083359	0	
126	N126A	-1.008343	0	-5.874545	0	
127	N127A	-1.22485	0	-5.999545	0	
128	N128A	-3.30001	0	-1.905262	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129A	-3.516516	0	-2.030262	0	
130	N130A	-2.008343	0	-4.142494	0	
131	N131B	-2.22485	0	-4.267494	0	
132	N132A	-2.22485	-1.5	-4.267494	0	
133	N133A	-2.22485	4.5	-4.267494	0	
134	N134A	-1.22485	-1.5	-5.999545	0	
135	N135B	-1.22485	5.5	-5.999545	0	
136	N136A	-3.516516	-1.5	-2.030262	0	
137	N137A	-3.516516	4.5	-2.030262	0	
138	N138A	-5.891516	-1.5	2.083359	0	
139	N139A	-5.891516	4.5	2.083359	0	
140	N140A	6.25	3	3.810523	0	
141	N141A	-6.25	3	3.810523	0	
142	N142A	4.75	3	3.810523	0	
143	N143	4.75	3	4.060523	0	
144	N144A	-4.583333	3	3.810523	0	
145	N145	-4.583333	3	4.060523	0	
146	N146	-0.	3	3.810523	0	
147	N147	-0.	3	4.060523	0	
148	N148A	-2.583333	3	3.810523	0	
149	N149	-2.583333	3	4.060523	0	
150	N150	0.17501	3	-7.31792	0	
151	N151	6.42501	3	3.507397	0	
152	N152	-6.42501	3	3.507397	0	
153	N153	-0.17501	3	-7.31792	0	
154	N154	0.92501	3	-6.018882	0	
155	N155	1.141516	3	-6.143882	0	
156	N156	5.591677	3	2.064021	0	
157	N157	5.808183	3	1.939021	0	
158	N158	3.30001	3	-1.905262	0	
159	N159	3.516516	3	-2.030262	0	
160	N160	4.591677	3	0.331971	0	
161	N161	4.808183	3	0.206971	0	
162	N162	-5.67501	3	2.208359	0	
163	N163	-5.891516	3	2.083359	0	
164	N164	-1.008343	3	-5.874545	0	
165	N165	-1.22485	3	-5.999545	0	
166	N166	-3.30001	3	-1.905262	0	
167	N167	-3.516516	3	-2.030262	0	
168	N168	-2.008343	3	-4.142494	0	
169	N169	-2.22485	3	-4.267494	0	
170	N170	-4	3	3.810523	0	
171	N171	-4	3	3.6	0	
172	N172	4	3	3.810523	0	
173	N173	4	3	3.6	0	
174	N174	5.30001	3	1.55884	0	
175	N175	5.117691	3	1.664102	0	
176	N176	1.30001	3	-5.369363	0	
177	N177	1.117691	3	-5.264102	0	
178	N178	-1.30001	3	-5.369363	0	
179	N179	-1.117691	3	-5.264102	0	
180	N180	-5.30001	3	1.55884	0	
181	N181	-5.117691	3	1.664102	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossmember	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Support Rail Corner	L3X3X4	Column	RECT	A36 Gr.36	Typical	1.44	1.23	1.23	.031
10	Replacement Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

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	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
4	M19	N8	N9			RIGID	None	None	RIGID	Typical
5	M20	N10	N11			RIGID	None	None	RIGID	Typical
6	M21	N12	N13			RIGID	None	None	RIGID	Typical
7	M22	N14	N15			RIGID	None	None	RIGID	Typical
8	MP3A	N17	N16			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP4A	N19	N18			Replacement ...	Column	Pipe	A53 Gr.B	Typical
10	MP2A	N21	N20			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
11	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	M43	N102	N5			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
13	M46	N86C	N87A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
14	M35A	N7	N30			RIGID	None	None	RIGID	Typical
15	M36A	N6	N29			RIGID	None	None	RIGID	Typical
16	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
17	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
18	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
19	M58	N102	N24			RIGID	None	None	RIGID	Typical
20	M59	N24	N103A			RIGID	None	None	RIGID	Typical
21	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M77	N105	N131			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
23	M79	N131	N86A			RIGID	None	None	RIGID	Typical
24	M80	N87A	N135			Corner Plate	Beam	BAR	A36 Gr.36	Typical
25	M83	N135	N86D			RIGID	None	None	RIGID	Typical
26	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
27	M85	N104A	N144			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
28	M88	N144	N86B			RIGID	None	None	RIGID	Typical
29	M91	N86C	N148			Corner Plate	Beam	BAR	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
30	M92	N148	N86E			RIGID	None	None	RIGID	Typical
31	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
32	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
33	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
34	M52A	N87D	N92			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
35	M53	N95	N97			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
36	M54	N96	N88B			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
37	M55	N106	N107			Corner Plate	Beam	BAR	A36 Gr.36	Typical
38	M56	N90	N94			RIGID	None	None	RIGID	Typical
39	M57	N89	N93			RIGID	None	None	RIGID	Typical
40	M58A	N111	N89			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
41	M59A	N90	N113			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
42	M60	N113	N114			RIGID	None	None	RIGID	Typical
43	M61	N96	N91			RIGID	None	None	RIGID	Typical
44	M62	N91	N97			RIGID	None	None	RIGID	Typical
45	M63	N95	N99			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
46	M64	N99	N100			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
47	M65	N100	N104			RIGID	None	None	RIGID	Typical
48	M66	N107	N101A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
49	M67	N101A	N108			RIGID	None	None	RIGID	Typical
50	M68	N88B	N98			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
51	M69	N98	N102A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
52	M70	N102A	N105A			RIGID	None	None	RIGID	Typical
53	M71	N106	N103			Corner Plate	Beam	BAR	A36 Gr.36	Typical
54	M72	N103	N109			RIGID	None	None	RIGID	Typical
55	M73	N114	N110			RIGID	None	None	RIGID	Typical
56	M74	N110	N112			RIGID	None	None	RIGID	Typical
57	M75	N111	N112			RIGID	None	None	RIGID	Typical
58	M76A	N115	N120			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
59	M77A	N123	N125			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
60	M78	N124	N116			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
61	M79A	N134	N135A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
62	M80A	N118	N122			RIGID	None	None	RIGID	Typical
63	M81	N117	N121			RIGID	None	None	RIGID	Typical
64	M82	N139	N117			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
65	M83A	N118	N141			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
66	M84A	N141	N142			RIGID	None	None	RIGID	Typical
67	M85A	N124	N119			RIGID	None	None	RIGID	Typical
68	M86	N119	N125			RIGID	None	None	RIGID	Typical
69	M87	N123	N127			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
70	M88A	N127	N128			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
71	M89	N128	N132			RIGID	None	None	RIGID	Typical
72	M90	N135A	N129			Corner Plate	Beam	BAR	A36 Gr.36	Typical
73	M91A	N129	N136			RIGID	None	None	RIGID	Typical
74	M92A	N116	N126			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
75	M93	N126	N130			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
76	M94	N130	N133			RIGID	None	None	RIGID	Typical
77	M95	N134	N131A			Corner Plate	Beam	BAR	A36 Gr.36	Typical
78	M96	N131A	N137			RIGID	None	None	RIGID	Typical
79	M97	N142	N138			RIGID	None	None	RIGID	Typical
80	M98	N138	N140			RIGID	None	None	RIGID	Typical
81	M99	N139	N140			RIGID	None	None	RIGID	Typical
82	M82A	N104B	N105B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
83	M91B	N124A	N125A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
84	M84B	N108A	N109A			RIGID	None	None	RIGID	Typical
85	M85B	N110A	N111A			RIGID	None	None	RIGID	Typical
86	M86A	N112A	N113A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
87	M87A	N114A	N115A			RIGID	None	None	RIGID	Typical
88	MP3C	N117A	N116A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
89	MP4C	N119A	N118A			Replacement ...	Column	Pipe	A53 Gr.B	Typical
90	MP2C	N121A	N120A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	MP1C	N123A	N122A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
92	M92B	N124B	N125B			RIGID	None	None	RIGID	Typical
93	M93A	N126A	N127A			RIGID	None	None	RIGID	Typical
94	M94A	N128A	N129A			RIGID	None	None	RIGID	Typical
95	M95A	N130A	N131B			RIGID	None	None	RIGID	Typical
96	MP3B	N133A	N132A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
97	MP4B	N135B	N134A			Replacement ...	Column	Pipe	A53 Gr.B	Typical
98	MP2B	N137A	N136A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
99	MP1B	N139A	N138A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
100	M100	N140A	N141A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
101	M101	N142A	N143			RIGID	None	None	RIGID	Typical
102	M102	N144A	N145			RIGID	None	None	RIGID	Typical
103	M103	N146	N147			RIGID	None	None	RIGID	Typical
104	M104	N148A	N149			RIGID	None	None	RIGID	Typical
105	M105	N150	N151			Support Rail	Beam	Pipe	A53 Gr.B	Typical
106	M106	N152	N153			Support Rail	Beam	Pipe	A53 Gr.B	Typical
107	M107	N154	N155			RIGID	None	None	RIGID	Typical
108	M108	N156	N157			RIGID	None	None	RIGID	Typical
109	M109	N158	N159			RIGID	None	None	RIGID	Typical
110	M110	N160	N161			RIGID	None	None	RIGID	Typical
111	M111	N162	N163			RIGID	None	None	RIGID	Typical
112	M112	N164	N165			RIGID	None	None	RIGID	Typical
113	M113	N166	N167			RIGID	None	None	RIGID	Typical
114	M114	N168	N169			RIGID	None	None	RIGID	Typical
115	M115	N170	N171			RIGID	None	None	RIGID	Typical
116	M116	N172	N173			RIGID	None	None	RIGID	Typical
117	M117	N174	N175			RIGID	None	None	RIGID	Typical
118	M118	N176	N177			RIGID	None	None	RIGID	Typical
119	M119	N178	N179			RIGID	None	None	RIGID	Typical
120	M120	N180	N181			RIGID	None	None	RIGID	Typical
121	M121	N171	N181		90	Support Rail C...	Column	RECT	A36 Gr.36	Typical
122	M122	N179	N177		90	Support Rail C...	Column	RECT	A36 Gr.36	Typical
123	M123	N175	N173		90	Support Rail C...	Column	RECT	A36 Gr.36	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	Face Horizo...	12.5			Lbyy						Lateral
2	M4	Standoff Ho...	5.188			Lbyy						Lateral
3	M10	Platform Cr...	2.375			Lbyy						Lateral
4	MP3A	Mount Pipe	6			Lbyy						Lateral
5	MP4A	Replaceme...	7			Lbyy						Lateral
6	MP2A	Mount Pipe	6			Lbyy						Lateral
7	MP1A	Mount Pipe	6			Lbyy						Lateral
8	M43	Platform Cr...	2.375			Lbyy						Lateral
9	M46	Corner Plate	1.031			Lbyy						Lateral
10	M51B	Grating Sup...	4.162			Lbyy						Lateral
11	M52B	Grating Sup...	4.162			Lbyy						Lateral
12	M76	Cross Arm ...	.219									Lateral
13	M77	Cross Arm ...	.167									Lateral
14	M80	Corner Plate	.112			Lbyy						Lateral
15	M84	Cross Arm ...	.219									Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
16	M85	Cross Arm ...	.167									Lateral
17	M91	Corner Plate	.112			Lbyy						Lateral
18	M52A	Standoff Ho...	5.188			Lbyy						Lateral
19	M53	Platform Cr...	2.375			Lbyy						Lateral
20	M54	Platform Cr...	2.375			Lbyy						Lateral
21	M55	Corner Plate	1.031			Lbyy						Lateral
22	M58A	Grating Sup...	4.162			Lbyy						Lateral
23	M59A	Grating Sup...	4.162			Lbyy						Lateral
24	M63	Cross Arm ...	.219									Lateral
25	M64	Cross Arm ...	.167									Lateral
26	M66	Corner Plate	.112			Lbyy						Lateral
27	M68	Cross Arm ...	.219									Lateral
28	M69	Cross Arm ...	.167									Lateral
29	M71	Corner Plate	.112			Lbyy						Lateral
30	M76A	Standoff Ho...	5.188			Lbyy						Lateral
31	M77A	Platform Cr...	2.375			Lbyy						Lateral
32	M78	Platform Cr...	2.375			Lbyy						Lateral
33	M79A	Corner Plate	1.031			Lbyy						Lateral
34	M82	Grating Sup...	4.162			Lbyy						Lateral
35	M83A	Grating Sup...	4.162			Lbyy						Lateral
36	M87	Cross Arm ...	.219									Lateral
37	M88A	Cross Arm ...	.167									Lateral
38	M90	Corner Plate	.112			Lbyy						Lateral
39	M92A	Cross Arm ...	.219									Lateral
40	M93	Cross Arm ...	.167									Lateral
41	M95	Corner Plate	.112			Lbyy						Lateral
42	M82A	Face Horizo...	12.5			Lbyy						Lateral
43	M91B	Face Horizo...	12.5			Lbyy						Lateral
44	MP3C	Mount Pipe	6			Lbyy						Lateral
45	MP4C	Replaceme...	7			Lbyy						Lateral
46	MP2C	Mount Pipe	6			Lbyy						Lateral
47	MP1C	Mount Pipe	6			Lbyy						Lateral
48	MP3B	Mount Pipe	6			Lbyy						Lateral
49	MP4B	Replaceme...	7			Lbyy						Lateral
50	MP2B	Mount Pipe	6			Lbyy						Lateral
51	MP1B	Mount Pipe	6			Lbyy						Lateral
52	M100	Support Rail	12.5			Lbyy						Lateral
53	M105	Support Rail	12.5			Lbyy						Lateral
54	M106	Support Rail	12.5			Lbyy						Lateral
55	M121	Support Rail...	2.235									Lateral
56	M122	Support Rail...	2.235									Lateral
57	M123	Support Rail...	2.235									Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-20.4	.75
2	MP1A	My	-.01	.75
3	MP1A	Mz	0	.75
4	MP1A	Y	-20.4	5
5	MP1A	My	-.01	5
6	MP1A	Mz	0	5
7	MP1B	Y	-20.4	.75
8	MP1B	My	.008	.75
9	MP1B	Mz	-.006	.75
10	MP1B	Y	-20.4	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	My	.008	5
12	MP1B	Mz	-.006	5
13	MP1C	Y	-20.4	.75
14	MP1C	My	.003	.75
15	MP1C	Mz	.01	.75
16	MP1C	Y	-20.4	5
17	MP1C	My	.003	5
18	MP1C	Mz	.01	5
19	MP4A	Y	-23	1.38
20	MP4A	My	-.011	1.38
21	MP4A	Mz	.015	1.38
22	MP4A	Y	-23	6.38
23	MP4A	My	-.011	6.38
24	MP4A	Mz	.015	6.38
25	MP4B	Y	-23	1.38
26	MP4B	My	.000625	1.38
27	MP4B	Mz	-.019	1.38
28	MP4B	Y	-23	6.38
29	MP4B	My	.000625	6.38
30	MP4B	Mz	-.019	6.38
31	MP4C	Y	-23	1.38
32	MP4C	My	.018	1.38
33	MP4C	Mz	.006	1.38
34	MP4C	Y	-23	6.38
35	MP4C	My	.018	6.38
36	MP4C	Mz	.006	6.38
37	MP4A	Y	-23	1.38
38	MP4A	My	-.011	1.38
39	MP4A	Mz	-.015	1.38
40	MP4A	Y	-23	6.38
41	MP4A	My	-.011	6.38
42	MP4A	Mz	-.015	6.38
43	MP4B	Y	-23	1.38
44	MP4B	My	.018	1.38
45	MP4B	Mz	.006	1.38
46	MP4B	Y	-23	6.38
47	MP4B	My	.018	6.38
48	MP4B	Mz	.006	6.38
49	MP4C	Y	-23	1.38
50	MP4C	My	-.01	1.38
51	MP4C	Mz	.016	1.38
52	MP4C	Y	-23	6.38
53	MP4C	My	-.01	6.38
54	MP4C	Mz	.016	6.38
55	MP2A	Y	-43.55	1.88
56	MP2A	My	-.022	1.88
57	MP2A	Mz	0	1.88
58	MP2A	Y	-43.55	3.88
59	MP2A	My	-.022	3.88
60	MP2A	Mz	0	3.88
61	MP2B	Y	-43.55	1.88
62	MP2B	My	.018	1.88
63	MP2B	Mz	-.012	1.88
64	MP2B	Y	-43.55	3.88
65	MP2B	My	.018	3.88
66	MP2B	Mz	-.012	3.88
67	MP2C	Y	-43.55	1.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2C	My	.007	1.88
69	MP2C	Mz	.02	1.88
70	MP2C	Y	-43.55	3.88
71	MP2C	My	.007	3.88
72	MP2C	Mz	.02	3.88
73	MP3A	Y	-74.7	2
74	MP3A	My	.025	2
75	MP3A	Mz	0	2
76	MP3B	Y	-74.7	2
77	MP3B	My	-.012	2
78	MP3B	Mz	.022	2
79	MP3C	Y	-74.7	2
80	MP3C	My	-.012	2
81	MP3C	Mz	-.022	2
82	MP4A	Y	-70.3	2
83	MP4A	My	.023	2
84	MP4A	Mz	0	2
85	MP4B	Y	-70.3	2
86	MP4B	My	-.012	2
87	MP4B	Mz	.02	2
88	MP4C	Y	-70.3	2
89	MP4C	My	-.012	2
90	MP4C	Mz	-.02	2

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-59.648	.75
2	MP1A	My	-.03	.75
3	MP1A	Mz	0	.75
4	MP1A	Y	-59.648	5
5	MP1A	My	-.03	5
6	MP1A	Mz	0	5
7	MP1B	Y	-59.648	.75
8	MP1B	My	.024	.75
9	MP1B	Mz	-.017	.75
10	MP1B	Y	-59.648	5
11	MP1B	My	.024	5
12	MP1B	Mz	-.017	5
13	MP1C	Y	-59.648	.75
14	MP1C	My	.01	.75
15	MP1C	Mz	.028	.75
16	MP1C	Y	-59.648	5
17	MP1C	My	.01	5
18	MP1C	Mz	.028	5
19	MP4A	Y	-80.453	1.38
20	MP4A	My	-.04	1.38
21	MP4A	Mz	.054	1.38
22	MP4A	Y	-80.453	6.38
23	MP4A	My	-.04	6.38
24	MP4A	Mz	.054	6.38
25	MP4B	Y	-80.453	1.38
26	MP4B	My	.002	1.38
27	MP4B	Mz	-.067	1.38
28	MP4B	Y	-80.453	6.38
29	MP4B	My	.002	6.38
30	MP4B	Mz	-.067	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP4C	Y	-80.453	1.38
32	MP4C	My	.064	1.38
33	MP4C	Mz	.019	1.38
34	MP4C	Y	-80.453	6.38
35	MP4C	My	.064	6.38
36	MP4C	Mz	.019	6.38
37	MP4A	Y	-80.453	1.38
38	MP4A	My	-.04	1.38
39	MP4A	Mz	-.054	1.38
40	MP4A	Y	-80.453	6.38
41	MP4A	My	-.04	6.38
42	MP4A	Mz	-.054	6.38
43	MP4B	Y	-80.453	1.38
44	MP4B	My	.064	1.38
45	MP4B	Mz	.021	1.38
46	MP4B	Y	-80.453	6.38
47	MP4B	My	.064	6.38
48	MP4B	Mz	.021	6.38
49	MP4C	Y	-80.453	1.38
50	MP4C	My	-.037	1.38
51	MP4C	Mz	.056	1.38
52	MP4C	Y	-80.453	6.38
53	MP4C	My	-.037	6.38
54	MP4C	Mz	.056	6.38
55	MP2A	Y	-34.72	1.88
56	MP2A	My	-.017	1.88
57	MP2A	Mz	0	1.88
58	MP2A	Y	-34.72	3.88
59	MP2A	My	-.017	3.88
60	MP2A	Mz	0	3.88
61	MP2B	Y	-34.72	1.88
62	MP2B	My	.014	1.88
63	MP2B	Mz	-.01	1.88
64	MP2B	Y	-34.72	3.88
65	MP2B	My	.014	3.88
66	MP2B	Mz	-.01	3.88
67	MP2C	Y	-34.72	1.88
68	MP2C	My	.006	1.88
69	MP2C	Mz	.016	1.88
70	MP2C	Y	-34.72	3.88
71	MP2C	My	.006	3.88
72	MP2C	Mz	.016	3.88
73	MP3A	Y	-43.757	2
74	MP3A	My	.015	2
75	MP3A	Mz	0	2
76	MP3B	Y	-43.757	2
77	MP3B	My	-.007	2
78	MP3B	Mz	.013	2
79	MP3C	Y	-43.757	2
80	MP3C	My	-.007	2
81	MP3C	Mz	-.013	2
82	MP4A	Y	-41.667	2
83	MP4A	My	.014	2
84	MP4A	Mz	0	2
85	MP4B	Y	-41.667	2
86	MP4B	My	-.007	2
87	MP4B	Mz	.012	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP4C	Y	-41.667	2
89	MP4C	My	-.007	2
90	MP4C	Mz	-.012	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.75
2	MP1A	Z	-141.145	.75
3	MP1A	Mx	0	.75
4	MP1A	X	0	5
5	MP1A	Z	-141.145	5
6	MP1A	Mx	0	5
7	MP1B	X	0	.75
8	MP1B	Z	-123.184	.75
9	MP1B	Mx	.035	.75
10	MP1B	X	0	5
11	MP1B	Z	-123.184	5
12	MP1B	Mx	.035	5
13	MP1C	X	0	.75
14	MP1C	Z	-92.938	.75
15	MP1C	Mx	-.044	.75
16	MP1C	X	0	5
17	MP1C	Z	-92.938	5
18	MP1C	Mx	-.044	5
19	MP4A	X	0	1.38
20	MP4A	Z	-162.935	1.38
21	MP4A	Mx	-.109	1.38
22	MP4A	X	0	6.38
23	MP4A	Z	-162.935	6.38
24	MP4A	Mx	-.109	6.38
25	MP4B	X	0	1.38
26	MP4B	Z	-149.184	1.38
27	MP4B	Mx	.124	1.38
28	MP4B	X	0	6.38
29	MP4B	Z	-149.184	6.38
30	MP4B	Mx	.124	6.38
31	MP4C	X	0	1.38
32	MP4C	Z	-126.026	1.38
33	MP4C	Mx	-.03	1.38
34	MP4C	X	0	6.38
35	MP4C	Z	-126.026	6.38
36	MP4C	Mx	-.03	6.38
37	MP4A	X	0	1.38
38	MP4A	Z	-162.935	1.38
39	MP4A	Mx	.109	1.38
40	MP4A	X	0	6.38
41	MP4A	Z	-162.935	6.38
42	MP4A	Mx	.109	6.38
43	MP4B	X	0	1.38
44	MP4B	Z	-149.184	1.38
45	MP4B	Mx	-.039	1.38
46	MP4B	X	0	6.38
47	MP4B	Z	-149.184	6.38
48	MP4B	Mx	-.039	6.38
49	MP4C	X	0	1.38
50	MP4C	Z	-126.026	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP4C	Mx	-.088	1.38
52	MP4C	X	0	6.38
53	MP4C	Z	-126.026	6.38
54	MP4C	Mx	-.088	6.38
55	MP2A	X	0	1.88
56	MP2A	Z	-77.588	1.88
57	MP2A	Mx	0	1.88
58	MP2A	X	0	3.88
59	MP2A	Z	-77.588	3.88
60	MP2A	Mx	0	3.88
61	MP2B	X	0	1.88
62	MP2B	Z	-62.056	1.88
63	MP2B	Mx	.018	1.88
64	MP2B	X	0	3.88
65	MP2B	Z	-62.056	3.88
66	MP2B	Mx	.018	3.88
67	MP2C	X	0	1.88
68	MP2C	Z	-35.898	1.88
69	MP2C	Mx	-.017	1.88
70	MP2C	X	0	3.88
71	MP2C	Z	-35.898	3.88
72	MP2C	Mx	-.017	3.88
73	MP3A	X	0	2
74	MP3A	Z	-61.74	2
75	MP3A	Mx	0	2
76	MP3B	X	0	2
77	MP3B	Z	-46.388	2
78	MP3B	Mx	-.013	2
79	MP3C	X	0	2
80	MP3C	Z	-46.388	2
81	MP3C	Mx	.013	2
82	MP4A	X	0	2
83	MP4A	Z	-61.74	2
84	MP4A	Mx	0	2
85	MP4B	X	0	2
86	MP4B	Z	-43.602	2
87	MP4B	Mx	-.013	2
88	MP4C	X	0	2
89	MP4C	Z	-43.602	2
90	MP4C	Mx	.013	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	63.748	.75
2	MP1A	Z	-110.415	.75
3	MP1A	Mx	-.032	.75
4	MP1A	X	63.748	5
5	MP1A	Z	-110.415	5
6	MP1A	Mx	-.032	5
7	MP1B	X	48.151	.75
8	MP1B	Z	-83.401	.75
9	MP1B	Mx	.044	.75
10	MP1B	X	48.151	5
11	MP1B	Z	-83.401	5
12	MP1B	Mx	.044	5
13	MP1C	X	59.294	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP1C	Z	-102.7	.75
15	MP1C	Mx	-.038	.75
16	MP1C	X	59.294	5
17	MP1C	Z	-102.7	5
18	MP1C	Mx	-.038	5
19	MP4A	X	76.243	1.38
20	MP4A	Z	-132.056	1.38
21	MP4A	Mx	-.126	1.38
22	MP4A	X	76.243	6.38
23	MP4A	Z	-132.056	6.38
24	MP4A	Mx	-.126	6.38
25	MP4B	X	64.301	1.38
26	MP4B	Z	-111.372	1.38
27	MP4B	Mx	.095	1.38
28	MP4B	X	64.301	6.38
29	MP4B	Z	-111.372	6.38
30	MP4B	Mx	.095	6.38
31	MP4C	X	72.832	1.38
32	MP4C	Z	-126.149	1.38
33	MP4C	Mx	.028	1.38
34	MP4C	X	72.832	6.38
35	MP4C	Z	-126.149	6.38
36	MP4C	Mx	.028	6.38
37	MP4A	X	76.243	1.38
38	MP4A	Z	-132.056	1.38
39	MP4A	Mx	.05	1.38
40	MP4A	X	76.243	6.38
41	MP4A	Z	-132.056	6.38
42	MP4A	Mx	.05	6.38
43	MP4B	X	64.301	1.38
44	MP4B	Z	-111.372	1.38
45	MP4B	Mx	.022	1.38
46	MP4B	X	64.301	6.38
47	MP4B	Z	-111.372	6.38
48	MP4B	Mx	.022	6.38
49	MP4C	X	72.832	1.38
50	MP4C	Z	-126.149	1.38
51	MP4C	Mx	-.121	1.38
52	MP4C	X	72.832	6.38
53	MP4C	Z	-126.149	6.38
54	MP4C	Mx	-.121	6.38
55	MP2A	X	32.893	1.88
56	MP2A	Z	-56.972	1.88
57	MP2A	Mx	-.016	1.88
58	MP2A	X	32.893	3.88
59	MP2A	Z	-56.972	3.88
60	MP2A	Mx	-.016	3.88
61	MP2B	X	19.404	1.88
62	MP2B	Z	-33.609	1.88
63	MP2B	Mx	.018	1.88
64	MP2B	X	19.404	3.88
65	MP2B	Z	-33.609	3.88
66	MP2B	Mx	.018	3.88
67	MP2C	X	29.041	1.88
68	MP2C	Z	-50.3	1.88
69	MP2C	Mx	-.019	1.88
70	MP2C	X	29.041	3.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP2C	Z	-50.3	3.88
72	MP2C	Mx	-.019	3.88
73	MP3A	X	28.311	2
74	MP3A	Z	-49.037	2
75	MP3A	Mx	.009	2
76	MP3B	X	20.635	2
77	MP3B	Z	-35.741	2
78	MP3B	Mx	-.014	2
79	MP3C	X	28.311	2
80	MP3C	Z	-49.037	2
81	MP3C	Mx	.009	2
82	MP4A	X	27.847	2
83	MP4A	Z	-48.233	2
84	MP4A	Mx	.009	2
85	MP4B	X	18.778	2
86	MP4B	Z	-32.524	2
87	MP4B	Mx	-.013	2
88	MP4C	X	27.847	2
89	MP4C	Z	-48.233	2
90	MP4C	Mx	.009	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	86.776	.75
2	MP1A	Z	-50.1	.75
3	MP1A	Mx	-.043	.75
4	MP1A	X	86.776	5
5	MP1A	Z	-50.1	5
6	MP1A	Mx	-.043	5
7	MP1B	X	75.315	.75
8	MP1B	Z	-43.483	.75
9	MP1B	Mx	.043	.75
10	MP1B	X	75.315	5
11	MP1B	Z	-43.483	5
12	MP1B	Mx	.043	5
13	MP1C	X	120.809	.75
14	MP1C	Z	-69.749	.75
15	MP1C	Mx	-.012	.75
16	MP1C	X	120.809	5
17	MP1C	Z	-69.749	5
18	MP1C	Mx	-.012	5
19	MP4A	X	113.957	1.38
20	MP4A	Z	-65.793	1.38
21	MP4A	Mx	-.101	1.38
22	MP4A	X	113.957	6.38
23	MP4A	Z	-65.793	6.38
24	MP4A	Mx	-.101	6.38
25	MP4B	X	105.182	1.38
26	MP4B	Z	-60.727	1.38
27	MP4B	Mx	.053	1.38
28	MP4B	X	105.182	6.38
29	MP4B	Z	-60.727	6.38
30	MP4B	Mx	.053	6.38
31	MP4C	X	140.015	1.38
32	MP4C	Z	-80.837	1.38
33	MP4C	Mx	.092	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP4C	X	140.015	6.38
35	MP4C	Z	-80.837	6.38
36	MP4C	Mx	.092	6.38
37	MP4A	X	113.957	1.38
38	MP4A	Z	-65.793	1.38
39	MP4A	Mx	-.013	1.38
40	MP4A	X	113.957	6.38
41	MP4A	Z	-65.793	6.38
42	MP4A	Mx	-.013	6.38
43	MP4B	X	105.182	1.38
44	MP4B	Z	-60.727	1.38
45	MP4B	Mx	.068	1.38
46	MP4B	X	105.182	6.38
47	MP4B	Z	-60.727	6.38
48	MP4B	Mx	.068	6.38
49	MP4C	X	140.015	1.38
50	MP4C	Z	-80.837	1.38
51	MP4C	Mx	-.12	1.38
52	MP4C	X	140.015	6.38
53	MP4C	Z	-80.837	6.38
54	MP4C	Mx	-.12	6.38
55	MP2A	X	36.528	1.88
56	MP2A	Z	-21.089	1.88
57	MP2A	Mx	-.018	1.88
58	MP2A	X	36.528	3.88
59	MP2A	Z	-21.089	3.88
60	MP2A	Mx	-.018	3.88
61	MP2B	X	26.617	1.88
62	MP2B	Z	-15.367	1.88
63	MP2B	Mx	.015	1.88
64	MP2B	X	26.617	3.88
65	MP2B	Z	-15.367	3.88
66	MP2B	Mx	.015	3.88
67	MP2C	X	65.96	1.88
68	MP2C	Z	-38.082	1.88
69	MP2C	Mx	-.007	1.88
70	MP2C	X	65.96	3.88
71	MP2C	Z	-38.082	3.88
72	MP2C	Mx	-.007	3.88
73	MP3A	X	40.173	2
74	MP3A	Z	-23.194	2
75	MP3A	Mx	.013	2
76	MP3B	X	40.173	2
77	MP3B	Z	-23.194	2
78	MP3B	Mx	-.013	2
79	MP3C	X	53.469	2
80	MP3C	Z	-30.87	2
81	MP3C	Mx	0	2
82	MP4A	X	37.761	2
83	MP4A	Z	-21.801	2
84	MP4A	Mx	.013	2
85	MP4B	X	37.761	2
86	MP4B	Z	-21.801	2
87	MP4B	Mx	-.013	2
88	MP4C	X	53.469	2
89	MP4C	Z	-30.87	2
90	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	86.552	.75
2	MP1A	Z	0	.75
3	MP1A	Mx	-.043	.75
4	MP1A	X	86.552	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.043	5
7	MP1B	X	104.512	.75
8	MP1B	Z	0	.75
9	MP1B	Mx	.043	.75
10	MP1B	X	104.512	5
11	MP1B	Z	0	5
12	MP1B	Mx	.043	5
13	MP1C	X	134.758	.75
14	MP1C	Z	0	.75
15	MP1C	Mx	.023	.75
16	MP1C	X	134.758	5
17	MP1C	Z	0	5
18	MP1C	Mx	.023	5
19	MP4A	X	121.136	1.38
20	MP4A	Z	0	1.38
21	MP4A	Mx	-.061	1.38
22	MP4A	X	121.136	6.38
23	MP4A	Z	0	6.38
24	MP4A	Mx	-.061	6.38
25	MP4B	X	134.888	1.38
26	MP4B	Z	0	1.38
27	MP4B	Mx	.004	1.38
28	MP4B	X	134.888	6.38
29	MP4B	Z	0	6.38
30	MP4B	Mx	.004	6.38
31	MP4C	X	158.046	1.38
32	MP4C	Z	0	1.38
33	MP4C	Mx	.126	1.38
34	MP4C	X	158.046	6.38
35	MP4C	Z	0	6.38
36	MP4C	Mx	.126	6.38
37	MP4A	X	121.136	1.38
38	MP4A	Z	0	1.38
39	MP4A	Mx	-.061	1.38
40	MP4A	X	121.136	6.38
41	MP4A	Z	0	6.38
42	MP4A	Mx	-.061	6.38
43	MP4B	X	134.888	1.38
44	MP4B	Z	0	1.38
45	MP4B	Mx	.107	1.38
46	MP4B	X	134.888	6.38
47	MP4B	Z	0	6.38
48	MP4B	Mx	.107	6.38
49	MP4C	X	158.046	1.38
50	MP4C	Z	0	1.38
51	MP4C	Mx	-.072	1.38
52	MP4C	X	158.046	6.38
53	MP4C	Z	0	6.38
54	MP4C	Mx	-.072	6.38
55	MP2A	X	30.376	1.88
56	MP2A	Z	0	1.88
57	MP2A	Mx	-.015	1.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	30.376	3.88
59	MP2A	Z	0	3.88
60	MP2A	Mx	-.015	3.88
61	MP2B	X	45.908	1.88
62	MP2B	Z	0	1.88
63	MP2B	Mx	.019	1.88
64	MP2B	X	45.908	3.88
65	MP2B	Z	0	3.88
66	MP2B	Mx	.019	3.88
67	MP2C	X	72.065	1.88
68	MP2C	Z	0	1.88
69	MP2C	Mx	.012	1.88
70	MP2C	X	72.065	3.88
71	MP2C	Z	0	3.88
72	MP2C	Mx	.012	3.88
73	MP3A	X	41.27	2
74	MP3A	Z	0	2
75	MP3A	Mx	.014	2
76	MP3B	X	56.623	2
77	MP3B	Z	0	2
78	MP3B	Mx	-.009	2
79	MP3C	X	56.623	2
80	MP3C	Z	0	2
81	MP3C	Mx	-.009	2
82	MP4A	X	37.556	2
83	MP4A	Z	0	2
84	MP4A	Mx	.013	2
85	MP4B	X	55.694	2
86	MP4B	Z	0	2
87	MP4B	Mx	-.009	2
88	MP4C	X	55.694	2
89	MP4C	Z	0	2
90	MP4C	Mx	-.009	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	86.776	.75
2	MP1A	Z	50.1	.75
3	MP1A	Mx	-.043	.75
4	MP1A	X	86.776	5
5	MP1A	Z	50.1	5
6	MP1A	Mx	-.043	5
7	MP1B	X	113.791	.75
8	MP1B	Z	65.697	.75
9	MP1B	Mx	.028	.75
10	MP1B	X	113.791	5
11	MP1B	Z	65.697	5
12	MP1B	Mx	.028	5
13	MP1C	X	94.491	.75
14	MP1C	Z	54.554	.75
15	MP1C	Mx	.042	.75
16	MP1C	X	94.491	5
17	MP1C	Z	54.554	5
18	MP1C	Mx	.042	5
19	MP4A	X	113.957	1.38
20	MP4A	Z	65.793	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP4A	Mx	-.013	1.38
22	MP4A	X	113.957	6.38
23	MP4A	Z	65.793	6.38
24	MP4A	Mx	-.013	6.38
25	MP4B	X	134.641	1.38
26	MP4B	Z	77.735	1.38
27	MP4B	Mx	-.061	1.38
28	MP4B	X	134.641	6.38
29	MP4B	Z	77.735	6.38
30	MP4B	Mx	-.061	6.38
31	MP4C	X	119.863	1.38
32	MP4C	Z	69.203	1.38
33	MP4C	Mx	.112	1.38
34	MP4C	X	119.863	6.38
35	MP4C	Z	69.203	6.38
36	MP4C	Mx	.112	6.38
37	MP4A	X	113.957	1.38
38	MP4A	Z	65.793	1.38
39	MP4A	Mx	-.101	1.38
40	MP4A	X	113.957	6.38
41	MP4A	Z	65.793	6.38
42	MP4A	Mx	-.101	6.38
43	MP4B	X	134.641	1.38
44	MP4B	Z	77.735	1.38
45	MP4B	Mx	.127	1.38
46	MP4B	X	134.641	6.38
47	MP4B	Z	77.735	6.38
48	MP4B	Mx	.127	6.38
49	MP4C	X	119.863	1.38
50	MP4C	Z	69.203	1.38
51	MP4C	Mx	-.006	1.38
52	MP4C	X	119.863	6.38
53	MP4C	Z	69.203	6.38
54	MP4C	Mx	-.006	6.38
55	MP2A	X	36.528	1.88
56	MP2A	Z	21.089	1.88
57	MP2A	Mx	-.018	1.88
58	MP2A	X	36.528	3.88
59	MP2A	Z	21.089	3.88
60	MP2A	Mx	-.018	3.88
61	MP2B	X	59.891	1.88
62	MP2B	Z	34.578	1.88
63	MP2B	Mx	.015	1.88
64	MP2B	X	59.891	3.88
65	MP2B	Z	34.578	3.88
66	MP2B	Mx	.015	3.88
67	MP2C	X	43.2	1.88
68	MP2C	Z	24.941	1.88
69	MP2C	Mx	.019	1.88
70	MP2C	X	43.2	3.88
71	MP2C	Z	24.941	3.88
72	MP2C	Mx	.019	3.88
73	MP3A	X	40.173	2
74	MP3A	Z	23.194	2
75	MP3A	Mx	.013	2
76	MP3B	X	53.469	2
77	MP3B	Z	30.87	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3B	Mx	0	2
79	MP3C	X	40.173	2
80	MP3C	Z	23.194	2
81	MP3C	Mx	-.013	2
82	MP4A	X	37.761	2
83	MP4A	Z	21.801	2
84	MP4A	Mx	.013	2
85	MP4B	X	53.469	2
86	MP4B	Z	30.87	2
87	MP4B	Mx	0	2
88	MP4C	X	37.761	2
89	MP4C	Z	21.801	2
90	MP4C	Mx	-.013	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	63.748	.75
2	MP1A	Z	110.415	.75
3	MP1A	Mx	-.032	.75
4	MP1A	X	63.748	5
5	MP1A	Z	110.415	5
6	MP1A	Mx	-.032	5
7	MP1B	X	70.365	.75
8	MP1B	Z	121.876	.75
9	MP1B	Mx	-.006	.75
10	MP1B	X	70.365	5
11	MP1B	Z	121.876	5
12	MP1B	Mx	-.006	5
13	MP1C	X	44.099	.75
14	MP1C	Z	76.382	.75
15	MP1C	Mx	.043	.75
16	MP1C	X	44.099	5
17	MP1C	Z	76.382	5
18	MP1C	Mx	.043	5
19	MP4A	X	76.243	1.38
20	MP4A	Z	132.056	1.38
21	MP4A	Mx	.05	1.38
22	MP4A	X	76.243	6.38
23	MP4A	Z	132.056	6.38
24	MP4A	Mx	.05	6.38
25	MP4B	X	81.309	1.38
26	MP4B	Z	140.831	1.38
27	MP4B	Mx	-.115	1.38
28	MP4B	X	81.309	6.38
29	MP4B	Z	140.831	6.38
30	MP4B	Mx	-.115	6.38
31	MP4C	X	61.198	1.38
32	MP4C	Z	105.998	1.38
33	MP4C	Mx	.074	1.38
34	MP4C	X	61.198	6.38
35	MP4C	Z	105.998	6.38
36	MP4C	Mx	.074	6.38
37	MP4A	X	76.243	1.38
38	MP4A	Z	132.056	1.38
39	MP4A	Mx	-.126	1.38
40	MP4A	X	76.243	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP4A	Z	132.056	6.38
42	MP4A	Mx	-.126	6.38
43	MP4B	X	81.309	1.38
44	MP4B	Z	140.831	1.38
45	MP4B	Mx	.101	1.38
46	MP4B	X	81.309	6.38
47	MP4B	Z	140.831	6.38
48	MP4B	Mx	.101	6.38
49	MP4C	X	61.198	1.38
50	MP4C	Z	105.998	1.38
51	MP4C	Mx	.046	1.38
52	MP4C	X	61.198	6.38
53	MP4C	Z	105.998	6.38
54	MP4C	Mx	.046	6.38
55	MP2A	X	32.893	1.88
56	MP2A	Z	56.972	1.88
57	MP2A	Mx	-.016	1.88
58	MP2A	X	32.893	3.88
59	MP2A	Z	56.972	3.88
60	MP2A	Mx	-.016	3.88
61	MP2B	X	38.615	1.88
62	MP2B	Z	66.883	1.88
63	MP2B	Mx	-.003	1.88
64	MP2B	X	38.615	3.88
65	MP2B	Z	66.883	3.88
66	MP2B	Mx	-.003	3.88
67	MP2C	X	15.9	1.88
68	MP2C	Z	27.539	1.88
69	MP2C	Mx	.016	1.88
70	MP2C	X	15.9	3.88
71	MP2C	Z	27.539	3.88
72	MP2C	Mx	.016	3.88
73	MP3A	X	28.311	2
74	MP3A	Z	49.037	2
75	MP3A	Mx	.009	2
76	MP3B	X	28.311	2
77	MP3B	Z	49.037	2
78	MP3B	Mx	.009	2
79	MP3C	X	20.635	2
80	MP3C	Z	35.741	2
81	MP3C	Mx	-.014	2
82	MP4A	X	27.847	2
83	MP4A	Z	48.233	2
84	MP4A	Mx	.009	2
85	MP4B	X	27.847	2
86	MP4B	Z	48.233	2
87	MP4B	Mx	.009	2
88	MP4C	X	18.778	2
89	MP4C	Z	32.524	2
90	MP4C	Mx	-.013	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.75
2	MP1A	Z	141.145	.75
3	MP1A	Mx	0	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP1A	X	0	5
5	MP1A	Z	141.145	5
6	MP1A	Mx	0	5
7	MP1B	X	0	.75
8	MP1B	Z	123.184	.75
9	MP1B	Mx	-.035	.75
10	MP1B	X	0	5
11	MP1B	Z	123.184	5
12	MP1B	Mx	-.035	5
13	MP1C	X	0	.75
14	MP1C	Z	92.938	.75
15	MP1C	Mx	.044	.75
16	MP1C	X	0	5
17	MP1C	Z	92.938	5
18	MP1C	Mx	.044	5
19	MP4A	X	0	1.38
20	MP4A	Z	162.935	1.38
21	MP4A	Mx	.109	1.38
22	MP4A	X	0	6.38
23	MP4A	Z	162.935	6.38
24	MP4A	Mx	.109	6.38
25	MP4B	X	0	1.38
26	MP4B	Z	149.184	1.38
27	MP4B	Mx	-.124	1.38
28	MP4B	X	0	6.38
29	MP4B	Z	149.184	6.38
30	MP4B	Mx	-.124	6.38
31	MP4C	X	0	1.38
32	MP4C	Z	126.026	1.38
33	MP4C	Mx	.03	1.38
34	MP4C	X	0	6.38
35	MP4C	Z	126.026	6.38
36	MP4C	Mx	.03	6.38
37	MP4A	X	0	1.38
38	MP4A	Z	162.935	1.38
39	MP4A	Mx	-.109	1.38
40	MP4A	X	0	6.38
41	MP4A	Z	162.935	6.38
42	MP4A	Mx	-.109	6.38
43	MP4B	X	0	1.38
44	MP4B	Z	149.184	1.38
45	MP4B	Mx	.039	1.38
46	MP4B	X	0	6.38
47	MP4B	Z	149.184	6.38
48	MP4B	Mx	.039	6.38
49	MP4C	X	0	1.38
50	MP4C	Z	126.026	1.38
51	MP4C	Mx	.088	1.38
52	MP4C	X	0	6.38
53	MP4C	Z	126.026	6.38
54	MP4C	Mx	.088	6.38
55	MP2A	X	0	1.88
56	MP2A	Z	77.588	1.88
57	MP2A	Mx	0	1.88
58	MP2A	X	0	3.88
59	MP2A	Z	77.588	3.88
60	MP2A	Mx	0	3.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2B	X	0	1.88
62	MP2B	Z	62.056	1.88
63	MP2B	Mx	-.018	1.88
64	MP2B	X	0	3.88
65	MP2B	Z	62.056	3.88
66	MP2B	Mx	-.018	3.88
67	MP2C	X	0	1.88
68	MP2C	Z	35.898	1.88
69	MP2C	Mx	.017	1.88
70	MP2C	X	0	3.88
71	MP2C	Z	35.898	3.88
72	MP2C	Mx	.017	3.88
73	MP3A	X	0	2
74	MP3A	Z	61.74	2
75	MP3A	Mx	0	2
76	MP3B	X	0	2
77	MP3B	Z	46.388	2
78	MP3B	Mx	.013	2
79	MP3C	X	0	2
80	MP3C	Z	46.388	2
81	MP3C	Mx	-.013	2
82	MP4A	X	0	2
83	MP4A	Z	61.74	2
84	MP4A	Mx	0	2
85	MP4B	X	0	2
86	MP4B	Z	43.602	2
87	MP4B	Mx	.013	2
88	MP4C	X	0	2
89	MP4C	Z	43.602	2
90	MP4C	Mx	-.013	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-63.748	.75
2	MP1A	Z	110.415	.75
3	MP1A	Mx	.032	.75
4	MP1A	X	-63.748	5
5	MP1A	Z	110.415	5
6	MP1A	Mx	.032	5
7	MP1B	X	-48.151	.75
8	MP1B	Z	83.401	.75
9	MP1B	Mx	-.044	.75
10	MP1B	X	-48.151	5
11	MP1B	Z	83.401	5
12	MP1B	Mx	-.044	5
13	MP1C	X	-59.294	.75
14	MP1C	Z	102.7	.75
15	MP1C	Mx	.038	.75
16	MP1C	X	-59.294	5
17	MP1C	Z	102.7	5
18	MP1C	Mx	.038	5
19	MP4A	X	-76.243	1.38
20	MP4A	Z	132.056	1.38
21	MP4A	Mx	.126	1.38
22	MP4A	X	-76.243	6.38
23	MP4A	Z	132.056	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP4A	Mx	.126	6.38
25	MP4B	X	-64.301	1.38
26	MP4B	Z	111.372	1.38
27	MP4B	Mx	-.095	1.38
28	MP4B	X	-64.301	6.38
29	MP4B	Z	111.372	6.38
30	MP4B	Mx	-.095	6.38
31	MP4C	X	-72.832	1.38
32	MP4C	Z	126.149	1.38
33	MP4C	Mx	-.028	1.38
34	MP4C	X	-72.832	6.38
35	MP4C	Z	126.149	6.38
36	MP4C	Mx	-.028	6.38
37	MP4A	X	-76.243	1.38
38	MP4A	Z	132.056	1.38
39	MP4A	Mx	-.05	1.38
40	MP4A	X	-76.243	6.38
41	MP4A	Z	132.056	6.38
42	MP4A	Mx	-.05	6.38
43	MP4B	X	-64.301	1.38
44	MP4B	Z	111.372	1.38
45	MP4B	Mx	-.022	1.38
46	MP4B	X	-64.301	6.38
47	MP4B	Z	111.372	6.38
48	MP4B	Mx	-.022	6.38
49	MP4C	X	-72.832	1.38
50	MP4C	Z	126.149	1.38
51	MP4C	Mx	.121	1.38
52	MP4C	X	-72.832	6.38
53	MP4C	Z	126.149	6.38
54	MP4C	Mx	.121	6.38
55	MP2A	X	-32.893	1.88
56	MP2A	Z	56.972	1.88
57	MP2A	Mx	.016	1.88
58	MP2A	X	-32.893	3.88
59	MP2A	Z	56.972	3.88
60	MP2A	Mx	.016	3.88
61	MP2B	X	-19.404	1.88
62	MP2B	Z	33.609	1.88
63	MP2B	Mx	-.018	1.88
64	MP2B	X	-19.404	3.88
65	MP2B	Z	33.609	3.88
66	MP2B	Mx	-.018	3.88
67	MP2C	X	-29.041	1.88
68	MP2C	Z	50.3	1.88
69	MP2C	Mx	.019	1.88
70	MP2C	X	-29.041	3.88
71	MP2C	Z	50.3	3.88
72	MP2C	Mx	.019	3.88
73	MP3A	X	-28.311	2
74	MP3A	Z	49.037	2
75	MP3A	Mx	-.009	2
76	MP3B	X	-20.635	2
77	MP3B	Z	35.741	2
78	MP3B	Mx	.014	2
79	MP3C	X	-28.311	2
80	MP3C	Z	49.037	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP3C	Mx	-.009	2
82	MP4A	X	-27.847	2
83	MP4A	Z	48.233	2
84	MP4A	Mx	-.009	2
85	MP4B	X	-18.778	2
86	MP4B	Z	32.524	2
87	MP4B	Mx	.013	2
88	MP4C	X	-27.847	2
89	MP4C	Z	48.233	2
90	MP4C	Mx	-.009	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-86.776	.75
2	MP1A	Z	50.1	.75
3	MP1A	Mx	.043	.75
4	MP1A	X	-86.776	5
5	MP1A	Z	50.1	5
6	MP1A	Mx	.043	5
7	MP1B	X	-75.315	.75
8	MP1B	Z	43.483	.75
9	MP1B	Mx	-.043	.75
10	MP1B	X	-75.315	5
11	MP1B	Z	43.483	5
12	MP1B	Mx	-.043	5
13	MP1C	X	-120.809	.75
14	MP1C	Z	69.749	.75
15	MP1C	Mx	.012	.75
16	MP1C	X	-120.809	5
17	MP1C	Z	69.749	5
18	MP1C	Mx	.012	5
19	MP4A	X	-113.957	1.38
20	MP4A	Z	65.793	1.38
21	MP4A	Mx	.101	1.38
22	MP4A	X	-113.957	6.38
23	MP4A	Z	65.793	6.38
24	MP4A	Mx	.101	6.38
25	MP4B	X	-105.182	1.38
26	MP4B	Z	60.727	1.38
27	MP4B	Mx	-.053	1.38
28	MP4B	X	-105.182	6.38
29	MP4B	Z	60.727	6.38
30	MP4B	Mx	-.053	6.38
31	MP4C	X	-140.015	1.38
32	MP4C	Z	80.837	1.38
33	MP4C	Mx	-.092	1.38
34	MP4C	X	-140.015	6.38
35	MP4C	Z	80.837	6.38
36	MP4C	Mx	-.092	6.38
37	MP4A	X	-113.957	1.38
38	MP4A	Z	65.793	1.38
39	MP4A	Mx	.013	1.38
40	MP4A	X	-113.957	6.38
41	MP4A	Z	65.793	6.38
42	MP4A	Mx	.013	6.38
43	MP4B	X	-105.182	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP4B	Z	60.727	1.38
45	MP4B	Mx	-.068	1.38
46	MP4B	X	-105.182	6.38
47	MP4B	Z	60.727	6.38
48	MP4B	Mx	-.068	6.38
49	MP4C	X	-140.015	1.38
50	MP4C	Z	80.837	1.38
51	MP4C	Mx	.12	1.38
52	MP4C	X	-140.015	6.38
53	MP4C	Z	80.837	6.38
54	MP4C	Mx	.12	6.38
55	MP2A	X	-36.528	1.88
56	MP2A	Z	21.089	1.88
57	MP2A	Mx	.018	1.88
58	MP2A	X	-36.528	3.88
59	MP2A	Z	21.089	3.88
60	MP2A	Mx	.018	3.88
61	MP2B	X	-26.617	1.88
62	MP2B	Z	15.367	1.88
63	MP2B	Mx	-.015	1.88
64	MP2B	X	-26.617	3.88
65	MP2B	Z	15.367	3.88
66	MP2B	Mx	-.015	3.88
67	MP2C	X	-65.96	1.88
68	MP2C	Z	38.082	1.88
69	MP2C	Mx	.007	1.88
70	MP2C	X	-65.96	3.88
71	MP2C	Z	38.082	3.88
72	MP2C	Mx	.007	3.88
73	MP3A	X	-40.173	2
74	MP3A	Z	23.194	2
75	MP3A	Mx	-.013	2
76	MP3B	X	-40.173	2
77	MP3B	Z	23.194	2
78	MP3B	Mx	.013	2
79	MP3C	X	-53.469	2
80	MP3C	Z	30.87	2
81	MP3C	Mx	0	2
82	MP4A	X	-37.761	2
83	MP4A	Z	21.801	2
84	MP4A	Mx	-.013	2
85	MP4B	X	-37.761	2
86	MP4B	Z	21.801	2
87	MP4B	Mx	.013	2
88	MP4C	X	-53.469	2
89	MP4C	Z	30.87	2
90	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-86.552	.75
2	MP1A	Z	0	.75
3	MP1A	Mx	.043	.75
4	MP1A	X	-86.552	5
5	MP1A	Z	0	5
6	MP1A	Mx	.043	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1B	X	-104.512	.75
8	MP1B	Z	0	.75
9	MP1B	Mx	-.043	.75
10	MP1B	X	-104.512	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.043	5
13	MP1C	X	-134.758	.75
14	MP1C	Z	0	.75
15	MP1C	Mx	-.023	.75
16	MP1C	X	-134.758	5
17	MP1C	Z	0	5
18	MP1C	Mx	-.023	5
19	MP4A	X	-121.136	1.38
20	MP4A	Z	0	1.38
21	MP4A	Mx	.061	1.38
22	MP4A	X	-121.136	6.38
23	MP4A	Z	0	6.38
24	MP4A	Mx	.061	6.38
25	MP4B	X	-134.888	1.38
26	MP4B	Z	0	1.38
27	MP4B	Mx	-.004	1.38
28	MP4B	X	-134.888	6.38
29	MP4B	Z	0	6.38
30	MP4B	Mx	-.004	6.38
31	MP4C	X	-158.046	1.38
32	MP4C	Z	0	1.38
33	MP4C	Mx	-.126	1.38
34	MP4C	X	-158.046	6.38
35	MP4C	Z	0	6.38
36	MP4C	Mx	-.126	6.38
37	MP4A	X	-121.136	1.38
38	MP4A	Z	0	1.38
39	MP4A	Mx	.061	1.38
40	MP4A	X	-121.136	6.38
41	MP4A	Z	0	6.38
42	MP4A	Mx	.061	6.38
43	MP4B	X	-134.888	1.38
44	MP4B	Z	0	1.38
45	MP4B	Mx	-.107	1.38
46	MP4B	X	-134.888	6.38
47	MP4B	Z	0	6.38
48	MP4B	Mx	-.107	6.38
49	MP4C	X	-158.046	1.38
50	MP4C	Z	0	1.38
51	MP4C	Mx	.072	1.38
52	MP4C	X	-158.046	6.38
53	MP4C	Z	0	6.38
54	MP4C	Mx	.072	6.38
55	MP2A	X	-30.376	1.88
56	MP2A	Z	0	1.88
57	MP2A	Mx	.015	1.88
58	MP2A	X	-30.376	3.88
59	MP2A	Z	0	3.88
60	MP2A	Mx	.015	3.88
61	MP2B	X	-45.908	1.88
62	MP2B	Z	0	1.88
63	MP2B	Mx	-.019	1.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP2B	X	-45.908	3.88
65	MP2B	Z	0	3.88
66	MP2B	Mx	-.019	3.88
67	MP2C	X	-72.065	1.88
68	MP2C	Z	0	1.88
69	MP2C	Mx	-.012	1.88
70	MP2C	X	-72.065	3.88
71	MP2C	Z	0	3.88
72	MP2C	Mx	-.012	3.88
73	MP3A	X	-41.27	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.014	2
76	MP3B	X	-56.623	2
77	MP3B	Z	0	2
78	MP3B	Mx	.009	2
79	MP3C	X	-56.623	2
80	MP3C	Z	0	2
81	MP3C	Mx	.009	2
82	MP4A	X	-37.556	2
83	MP4A	Z	0	2
84	MP4A	Mx	-.013	2
85	MP4B	X	-55.694	2
86	MP4B	Z	0	2
87	MP4B	Mx	.009	2
88	MP4C	X	-55.694	2
89	MP4C	Z	0	2
90	MP4C	Mx	.009	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-86.776	.75
2	MP1A	Z	-50.1	.75
3	MP1A	Mx	.043	.75
4	MP1A	X	-86.776	5
5	MP1A	Z	-50.1	5
6	MP1A	Mx	.043	5
7	MP1B	X	-113.791	.75
8	MP1B	Z	-65.697	.75
9	MP1B	Mx	-.028	.75
10	MP1B	X	-113.791	5
11	MP1B	Z	-65.697	5
12	MP1B	Mx	-.028	5
13	MP1C	X	-94.491	.75
14	MP1C	Z	-54.554	.75
15	MP1C	Mx	-.042	.75
16	MP1C	X	-94.491	5
17	MP1C	Z	-54.554	5
18	MP1C	Mx	-.042	5
19	MP4A	X	-113.957	1.38
20	MP4A	Z	-65.793	1.38
21	MP4A	Mx	.013	1.38
22	MP4A	X	-113.957	6.38
23	MP4A	Z	-65.793	6.38
24	MP4A	Mx	.013	6.38
25	MP4B	X	-134.641	1.38
26	MP4B	Z	-77.735	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP4B	Mx	.061	1.38
28	MP4B	X	-134.641	6.38
29	MP4B	Z	-77.735	6.38
30	MP4B	Mx	.061	6.38
31	MP4C	X	-119.863	1.38
32	MP4C	Z	-69.203	1.38
33	MP4C	Mx	-.112	1.38
34	MP4C	X	-119.863	6.38
35	MP4C	Z	-69.203	6.38
36	MP4C	Mx	-.112	6.38
37	MP4A	X	-113.957	1.38
38	MP4A	Z	-65.793	1.38
39	MP4A	Mx	.101	1.38
40	MP4A	X	-113.957	6.38
41	MP4A	Z	-65.793	6.38
42	MP4A	Mx	.101	6.38
43	MP4B	X	-134.641	1.38
44	MP4B	Z	-77.735	1.38
45	MP4B	Mx	-.127	1.38
46	MP4B	X	-134.641	6.38
47	MP4B	Z	-77.735	6.38
48	MP4B	Mx	-.127	6.38
49	MP4C	X	-119.863	1.38
50	MP4C	Z	-69.203	1.38
51	MP4C	Mx	.006	1.38
52	MP4C	X	-119.863	6.38
53	MP4C	Z	-69.203	6.38
54	MP4C	Mx	.006	6.38
55	MP2A	X	-36.528	1.88
56	MP2A	Z	-21.089	1.88
57	MP2A	Mx	.018	1.88
58	MP2A	X	-36.528	3.88
59	MP2A	Z	-21.089	3.88
60	MP2A	Mx	.018	3.88
61	MP2B	X	-59.891	1.88
62	MP2B	Z	-34.578	1.88
63	MP2B	Mx	-.015	1.88
64	MP2B	X	-59.891	3.88
65	MP2B	Z	-34.578	3.88
66	MP2B	Mx	-.015	3.88
67	MP2C	X	-43.2	1.88
68	MP2C	Z	-24.941	1.88
69	MP2C	Mx	-.019	1.88
70	MP2C	X	-43.2	3.88
71	MP2C	Z	-24.941	3.88
72	MP2C	Mx	-.019	3.88
73	MP3A	X	-40.173	2
74	MP3A	Z	-23.194	2
75	MP3A	Mx	-.013	2
76	MP3B	X	-53.469	2
77	MP3B	Z	-30.87	2
78	MP3B	Mx	0	2
79	MP3C	X	-40.173	2
80	MP3C	Z	-23.194	2
81	MP3C	Mx	.013	2
82	MP4A	X	-37.761	2
83	MP4A	Z	-21.801	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP4A	Mx	-.013	2
85	MP4B	X	-53.469	2
86	MP4B	Z	-30.87	2
87	MP4B	Mx	0	2
88	MP4C	X	-37.761	2
89	MP4C	Z	-21.801	2
90	MP4C	Mx	.013	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-63.748	.75
2	MP1A	Z	-110.415	.75
3	MP1A	Mx	.032	.75
4	MP1A	X	-63.748	5
5	MP1A	Z	-110.415	5
6	MP1A	Mx	.032	5
7	MP1B	X	-70.365	.75
8	MP1B	Z	-121.876	.75
9	MP1B	Mx	.006	.75
10	MP1B	X	-70.365	5
11	MP1B	Z	-121.876	5
12	MP1B	Mx	.006	5
13	MP1C	X	-44.099	.75
14	MP1C	Z	-76.382	.75
15	MP1C	Mx	-.043	.75
16	MP1C	X	-44.099	5
17	MP1C	Z	-76.382	5
18	MP1C	Mx	-.043	5
19	MP4A	X	-76.243	1.38
20	MP4A	Z	-132.056	1.38
21	MP4A	Mx	-.05	1.38
22	MP4A	X	-76.243	6.38
23	MP4A	Z	-132.056	6.38
24	MP4A	Mx	-.05	6.38
25	MP4B	X	-81.309	1.38
26	MP4B	Z	-140.831	1.38
27	MP4B	Mx	.115	1.38
28	MP4B	X	-81.309	6.38
29	MP4B	Z	-140.831	6.38
30	MP4B	Mx	.115	6.38
31	MP4C	X	-61.198	1.38
32	MP4C	Z	-105.998	1.38
33	MP4C	Mx	-.074	1.38
34	MP4C	X	-61.198	6.38
35	MP4C	Z	-105.998	6.38
36	MP4C	Mx	-.074	6.38
37	MP4A	X	-76.243	1.38
38	MP4A	Z	-132.056	1.38
39	MP4A	Mx	.126	1.38
40	MP4A	X	-76.243	6.38
41	MP4A	Z	-132.056	6.38
42	MP4A	Mx	.126	6.38
43	MP4B	X	-81.309	1.38
44	MP4B	Z	-140.831	1.38
45	MP4B	Mx	-.101	1.38
46	MP4B	X	-81.309	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP4B	Z	-140.831	6.38
48	MP4B	Mx	-.101	6.38
49	MP4C	X	-61.198	1.38
50	MP4C	Z	-105.998	1.38
51	MP4C	Mx	-.046	1.38
52	MP4C	X	-61.198	6.38
53	MP4C	Z	-105.998	6.38
54	MP4C	Mx	-.046	6.38
55	MP2A	X	-32.893	1.88
56	MP2A	Z	-56.972	1.88
57	MP2A	Mx	.016	1.88
58	MP2A	X	-32.893	3.88
59	MP2A	Z	-56.972	3.88
60	MP2A	Mx	.016	3.88
61	MP2B	X	-38.615	1.88
62	MP2B	Z	-66.883	1.88
63	MP2B	Mx	.003	1.88
64	MP2B	X	-38.615	3.88
65	MP2B	Z	-66.883	3.88
66	MP2B	Mx	.003	3.88
67	MP2C	X	-15.9	1.88
68	MP2C	Z	-27.539	1.88
69	MP2C	Mx	-.016	1.88
70	MP2C	X	-15.9	3.88
71	MP2C	Z	-27.539	3.88
72	MP2C	Mx	-.016	3.88
73	MP3A	X	-28.311	2
74	MP3A	Z	-49.037	2
75	MP3A	Mx	-.009	2
76	MP3B	X	-28.311	2
77	MP3B	Z	-49.037	2
78	MP3B	Mx	-.009	2
79	MP3C	X	-20.635	2
80	MP3C	Z	-35.741	2
81	MP3C	Mx	.014	2
82	MP4A	X	-27.847	2
83	MP4A	Z	-48.233	2
84	MP4A	Mx	-.009	2
85	MP4B	X	-27.847	2
86	MP4B	Z	-48.233	2
87	MP4B	Mx	-.009	2
88	MP4C	X	-18.778	2
89	MP4C	Z	-32.524	2
90	MP4C	Mx	.013	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.75
2	MP1A	Z	-25.97	.75
3	MP1A	Mx	0	.75
4	MP1A	X	0	5
5	MP1A	Z	-25.97	5
6	MP1A	Mx	0	5
7	MP1B	X	0	.75
8	MP1B	Z	-22.935	.75
9	MP1B	Mx	.007	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	X	0	5
11	MP1B	Z	-22.935	5
12	MP1B	Mx	.007	5
13	MP1C	X	0	.75
14	MP1C	Z	-17.823	.75
15	MP1C	Mx	-.008	.75
16	MP1C	X	0	5
17	MP1C	Z	-17.823	5
18	MP1C	Mx	-.008	5
19	MP4A	X	0	1.38
20	MP4A	Z	-29.785	1.38
21	MP4A	Mx	-.02	1.38
22	MP4A	X	0	6.38
23	MP4A	Z	-29.785	6.38
24	MP4A	Mx	-.02	6.38
25	MP4B	X	0	1.38
26	MP4B	Z	-27.396	1.38
27	MP4B	Mx	.023	1.38
28	MP4B	X	0	6.38
29	MP4B	Z	-27.396	6.38
30	MP4B	Mx	.023	6.38
31	MP4C	X	0	1.38
32	MP4C	Z	-23.373	1.38
33	MP4C	Mx	-.006	1.38
34	MP4C	X	0	6.38
35	MP4C	Z	-23.373	6.38
36	MP4C	Mx	-.006	6.38
37	MP4A	X	0	1.38
38	MP4A	Z	-29.785	1.38
39	MP4A	Mx	.02	1.38
40	MP4A	X	0	6.38
41	MP4A	Z	-29.785	6.38
42	MP4A	Mx	.02	6.38
43	MP4B	X	0	1.38
44	MP4B	Z	-27.396	1.38
45	MP4B	Mx	-.007	1.38
46	MP4B	X	0	6.38
47	MP4B	Z	-27.396	6.38
48	MP4B	Mx	-.007	6.38
49	MP4C	X	0	1.38
50	MP4C	Z	-23.373	1.38
51	MP4C	Mx	-.016	1.38
52	MP4C	X	0	6.38
53	MP4C	Z	-23.373	6.38
54	MP4C	Mx	-.016	6.38
55	MP2A	X	0	1.88
56	MP2A	Z	-14.683	1.88
57	MP2A	Mx	0	1.88
58	MP2A	X	0	3.88
59	MP2A	Z	-14.683	3.88
60	MP2A	Mx	0	3.88
61	MP2B	X	0	1.88
62	MP2B	Z	-11.906	1.88
63	MP2B	Mx	.003	1.88
64	MP2B	X	0	3.88
65	MP2B	Z	-11.906	3.88
66	MP2B	Mx	.003	3.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	X	0	1.88
68	MP2C	Z	-7.23	1.88
69	MP2C	Mx	-.003	1.88
70	MP2C	X	0	3.88
71	MP2C	Z	-7.23	3.88
72	MP2C	Mx	-.003	3.88
73	MP3A	X	0	2
74	MP3A	Z	-12.36	2
75	MP3A	Mx	0	2
76	MP3B	X	0	2
77	MP3B	Z	-9.532	2
78	MP3B	Mx	-.003	2
79	MP3C	X	0	2
80	MP3C	Z	-9.532	2
81	MP3C	Mx	.003	2
82	MP4A	X	0	2
83	MP4A	Z	-12.36	2
84	MP4A	Mx	0	2
85	MP4B	X	0	2
86	MP4B	Z	-9.023	2
87	MP4B	Mx	-.003	2
88	MP4C	X	0	2
89	MP4C	Z	-9.023	2
90	MP4C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	11.832	.75
2	MP1A	Z	-20.493	.75
3	MP1A	Mx	-.006	.75
4	MP1A	X	11.832	5
5	MP1A	Z	-20.493	5
6	MP1A	Mx	-.006	5
7	MP1B	X	9.196	.75
8	MP1B	Z	-15.928	.75
9	MP1B	Mx	.008	.75
10	MP1B	X	9.196	5
11	MP1B	Z	-15.928	5
12	MP1B	Mx	.008	5
13	MP1C	X	11.079	.75
14	MP1C	Z	-19.189	.75
15	MP1C	Mx	-.007	.75
16	MP1C	X	11.079	5
17	MP1C	Z	-19.189	5
18	MP1C	Mx	-.007	5
19	MP4A	X	13.985	1.38
20	MP4A	Z	-24.222	1.38
21	MP4A	Mx	-.023	1.38
22	MP4A	X	13.985	6.38
23	MP4A	Z	-24.222	6.38
24	MP4A	Mx	-.023	6.38
25	MP4B	X	11.91	1.38
26	MP4B	Z	-20.629	1.38
27	MP4B	Mx	.018	1.38
28	MP4B	X	11.91	6.38
29	MP4B	Z	-20.629	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP4B	Mx	.018	6.38
31	MP4C	X	13.392	1.38
32	MP4C	Z	-23.196	1.38
33	MP4C	Mx	.005	1.38
34	MP4C	X	13.392	6.38
35	MP4C	Z	-23.196	6.38
36	MP4C	Mx	.005	6.38
37	MP4A	X	13.985	1.38
38	MP4A	Z	-24.222	1.38
39	MP4A	Mx	.009	1.38
40	MP4A	X	13.985	6.38
41	MP4A	Z	-24.222	6.38
42	MP4A	Mx	.009	6.38
43	MP4B	X	11.91	1.38
44	MP4B	Z	-20.629	1.38
45	MP4B	Mx	.004	1.38
46	MP4B	X	11.91	6.38
47	MP4B	Z	-20.629	6.38
48	MP4B	Mx	.004	6.38
49	MP4C	X	13.392	1.38
50	MP4C	Z	-23.196	1.38
51	MP4C	Mx	-.022	1.38
52	MP4C	X	13.392	6.38
53	MP4C	Z	-23.196	6.38
54	MP4C	Mx	-.022	6.38
55	MP2A	X	6.287	1.88
56	MP2A	Z	-10.889	1.88
57	MP2A	Mx	-.003	1.88
58	MP2A	X	6.287	3.88
59	MP2A	Z	-10.889	3.88
60	MP2A	Mx	-.003	3.88
61	MP2B	X	3.875	1.88
62	MP2B	Z	-6.712	1.88
63	MP2B	Mx	.004	1.88
64	MP2B	X	3.875	3.88
65	MP2B	Z	-6.712	3.88
66	MP2B	Mx	.004	3.88
67	MP2C	X	5.598	1.88
68	MP2C	Z	-9.696	1.88
69	MP2C	Mx	-.004	1.88
70	MP2C	X	5.598	3.88
71	MP2C	Z	-9.696	3.88
72	MP2C	Mx	-.004	3.88
73	MP3A	X	5.709	2
74	MP3A	Z	-9.887	2
75	MP3A	Mx	.002	2
76	MP3B	X	4.295	2
77	MP3B	Z	-7.439	2
78	MP3B	Mx	-.003	2
79	MP3C	X	5.709	2
80	MP3C	Z	-9.887	2
81	MP3C	Mx	.002	2
82	MP4A	X	5.624	2
83	MP4A	Z	-9.741	2
84	MP4A	Mx	.002	2
85	MP4B	X	3.955	2
86	MP4B	Z	-6.851	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP4B	Mx	-.003	2
88	MP4C	X	5.624	2
89	MP4C	Z	-9.741	2
90	MP4C	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	16.498	.75
2	MP1A	Z	-9.525	.75
3	MP1A	Mx	-.008	.75
4	MP1A	X	16.498	5
5	MP1A	Z	-9.525	5
6	MP1A	Mx	-.008	5
7	MP1B	X	14.561	.75
8	MP1B	Z	-8.407	.75
9	MP1B	Mx	.008	.75
10	MP1B	X	14.561	5
11	MP1B	Z	-8.407	5
12	MP1B	Mx	.008	5
13	MP1C	X	22.25	.75
14	MP1C	Z	-12.846	.75
15	MP1C	Mx	-.002	.75
16	MP1C	X	22.25	5
17	MP1C	Z	-12.846	5
18	MP1C	Mx	-.002	5
19	MP4A	X	21.078	1.38
20	MP4A	Z	-12.169	1.38
21	MP4A	Mx	-.019	1.38
22	MP4A	X	21.078	6.38
23	MP4A	Z	-12.169	6.38
24	MP4A	Mx	-.019	6.38
25	MP4B	X	19.553	1.38
26	MP4B	Z	-11.289	1.38
27	MP4B	Mx	.01	1.38
28	MP4B	X	19.553	6.38
29	MP4B	Z	-11.289	6.38
30	MP4B	Mx	.01	6.38
31	MP4C	X	25.605	1.38
32	MP4C	Z	-14.783	1.38
33	MP4C	Mx	.017	1.38
34	MP4C	X	25.605	6.38
35	MP4C	Z	-14.783	6.38
36	MP4C	Mx	.017	6.38
37	MP4A	X	21.078	1.38
38	MP4A	Z	-12.169	1.38
39	MP4A	Mx	-.002	1.38
40	MP4A	X	21.078	6.38
41	MP4A	Z	-12.169	6.38
42	MP4A	Mx	-.002	6.38
43	MP4B	X	19.553	1.38
44	MP4B	Z	-11.289	1.38
45	MP4B	Mx	.013	1.38
46	MP4B	X	19.553	6.38
47	MP4B	Z	-11.289	6.38
48	MP4B	Mx	.013	6.38
49	MP4C	X	25.605	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP4C	Z	-14.783	1.38
51	MP4C	Mx	-.022	1.38
52	MP4C	X	25.605	6.38
53	MP4C	Z	-14.783	6.38
54	MP4C	Mx	-.022	6.38
55	MP2A	X	7.234	1.88
56	MP2A	Z	-4.176	1.88
57	MP2A	Mx	-.004	1.88
58	MP2A	X	7.234	3.88
59	MP2A	Z	-4.176	3.88
60	MP2A	Mx	-.004	3.88
61	MP2B	X	5.462	1.88
62	MP2B	Z	-3.153	1.88
63	MP2B	Mx	.003	1.88
64	MP2B	X	5.462	3.88
65	MP2B	Z	-3.153	3.88
66	MP2B	Mx	.003	3.88
67	MP2C	X	12.496	1.88
68	MP2C	Z	-7.214	1.88
69	MP2C	Mx	-.001	1.88
70	MP2C	X	12.496	3.88
71	MP2C	Z	-7.214	3.88
72	MP2C	Mx	-.001	3.88
73	MP3A	X	8.255	2
74	MP3A	Z	-4.766	2
75	MP3A	Mx	.003	2
76	MP3B	X	8.255	2
77	MP3B	Z	-4.766	2
78	MP3B	Mx	-.003	2
79	MP3C	X	10.704	2
80	MP3C	Z	-6.18	2
81	MP3C	Mx	0	2
82	MP4A	X	7.814	2
83	MP4A	Z	-4.512	2
84	MP4A	Mx	.003	2
85	MP4B	X	7.814	2
86	MP4B	Z	-4.512	2
87	MP4B	Mx	-.003	2
88	MP4C	X	10.704	2
89	MP4C	Z	-6.18	2
90	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	16.744	.75
2	MP1A	Z	0	.75
3	MP1A	Mx	-.008	.75
4	MP1A	X	16.744	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.008	5
7	MP1B	X	19.779	.75
8	MP1B	Z	0	.75
9	MP1B	Mx	.008	.75
10	MP1B	X	19.779	5
11	MP1B	Z	0	5
12	MP1B	Mx	.008	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1C	X	24.891	.75
14	MP1C	Z	0	.75
15	MP1C	Mx	.004	.75
16	MP1C	X	24.891	5
17	MP1C	Z	0	5
18	MP1C	Mx	.004	5
19	MP4A	X	22.523	1.38
20	MP4A	Z	0	1.38
21	MP4A	Mx	-.011	1.38
22	MP4A	X	22.523	6.38
23	MP4A	Z	0	6.38
24	MP4A	Mx	-.011	6.38
25	MP4B	X	24.912	1.38
26	MP4B	Z	0	1.38
27	MP4B	Mx	.000677	1.38
28	MP4B	X	24.912	6.38
29	MP4B	Z	0	6.38
30	MP4B	Mx	.000677	6.38
31	MP4C	X	28.936	1.38
32	MP4C	Z	0	1.38
33	MP4C	Mx	.023	1.38
34	MP4C	X	28.936	6.38
35	MP4C	Z	0	6.38
36	MP4C	Mx	.023	6.38
37	MP4A	X	22.523	1.38
38	MP4A	Z	0	1.38
39	MP4A	Mx	-.011	1.38
40	MP4A	X	22.523	6.38
41	MP4A	Z	0	6.38
42	MP4A	Mx	-.011	6.38
43	MP4B	X	24.912	1.38
44	MP4B	Z	0	1.38
45	MP4B	Mx	.02	1.38
46	MP4B	X	24.912	6.38
47	MP4B	Z	0	6.38
48	MP4B	Mx	.02	6.38
49	MP4C	X	28.936	1.38
50	MP4C	Z	0	1.38
51	MP4C	Mx	-.013	1.38
52	MP4C	X	28.936	6.38
53	MP4C	Z	0	6.38
54	MP4C	Mx	-.013	6.38
55	MP2A	X	6.242	1.88
56	MP2A	Z	0	1.88
57	MP2A	Mx	-.003	1.88
58	MP2A	X	6.242	3.88
59	MP2A	Z	0	3.88
60	MP2A	Mx	-.003	3.88
61	MP2B	X	9.019	1.88
62	MP2B	Z	0	1.88
63	MP2B	Mx	.004	1.88
64	MP2B	X	9.019	3.88
65	MP2B	Z	0	3.88
66	MP2B	Mx	.004	3.88
67	MP2C	X	13.696	1.88
68	MP2C	Z	0	1.88
69	MP2C	Mx	.002	1.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP2C	X	13.696	3.88
71	MP2C	Z	0	3.88
72	MP2C	Mx	.002	3.88
73	MP3A	X	8.59	2
74	MP3A	Z	0	2
75	MP3A	Mx	.003	2
76	MP3B	X	11.417	2
77	MP3B	Z	0	2
78	MP3B	Mx	-.002	2
79	MP3C	X	11.417	2
80	MP3C	Z	0	2
81	MP3C	Mx	-.002	2
82	MP4A	X	7.911	2
83	MP4A	Z	0	2
84	MP4A	Mx	.003	2
85	MP4B	X	11.247	2
86	MP4B	Z	0	2
87	MP4B	Mx	-.002	2
88	MP4C	X	11.247	2
89	MP4C	Z	0	2
90	MP4C	Mx	-.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	16.498	.75
2	MP1A	Z	9.525	.75
3	MP1A	Mx	-.008	.75
4	MP1A	X	16.498	5
5	MP1A	Z	9.525	5
6	MP1A	Mx	-.008	5
7	MP1B	X	21.064	.75
8	MP1B	Z	12.161	.75
9	MP1B	Mx	.005	.75
10	MP1B	X	21.064	5
11	MP1B	Z	12.161	5
12	MP1B	Mx	.005	5
13	MP1C	X	17.802	.75
14	MP1C	Z	10.278	.75
15	MP1C	Mx	.008	.75
16	MP1C	X	17.802	5
17	MP1C	Z	10.278	5
18	MP1C	Mx	.008	5
19	MP4A	X	21.078	1.38
20	MP4A	Z	12.169	1.38
21	MP4A	Mx	-.002	1.38
22	MP4A	X	21.078	6.38
23	MP4A	Z	12.169	6.38
24	MP4A	Mx	-.002	6.38
25	MP4B	X	24.671	1.38
26	MP4B	Z	14.244	1.38
27	MP4B	Mx	-.011	1.38
28	MP4B	X	24.671	6.38
29	MP4B	Z	14.244	6.38
30	MP4B	Mx	-.011	6.38
31	MP4C	X	22.104	1.38
32	MP4C	Z	12.762	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP4C	Mx	.021	1.38
34	MP4C	X	22.104	6.38
35	MP4C	Z	12.762	6.38
36	MP4C	Mx	.021	6.38
37	MP4A	X	21.078	1.38
38	MP4A	Z	12.169	1.38
39	MP4A	Mx	-.019	1.38
40	MP4A	X	21.078	6.38
41	MP4A	Z	12.169	6.38
42	MP4A	Mx	-.019	6.38
43	MP4B	X	24.671	1.38
44	MP4B	Z	14.244	1.38
45	MP4B	Mx	.023	1.38
46	MP4B	X	24.671	6.38
47	MP4B	Z	14.244	6.38
48	MP4B	Mx	.023	6.38
49	MP4C	X	22.104	1.38
50	MP4C	Z	12.762	1.38
51	MP4C	Mx	-.001	1.38
52	MP4C	X	22.104	6.38
53	MP4C	Z	12.762	6.38
54	MP4C	Mx	-.001	6.38
55	MP2A	X	7.234	1.88
56	MP2A	Z	4.176	1.88
57	MP2A	Mx	-.004	1.88
58	MP2A	X	7.234	3.88
59	MP2A	Z	4.176	3.88
60	MP2A	Mx	-.004	3.88
61	MP2B	X	11.41	1.88
62	MP2B	Z	6.588	1.88
63	MP2B	Mx	.003	1.88
64	MP2B	X	11.41	3.88
65	MP2B	Z	6.588	3.88
66	MP2B	Mx	.003	3.88
67	MP2C	X	8.426	1.88
68	MP2C	Z	4.865	1.88
69	MP2C	Mx	.004	1.88
70	MP2C	X	8.426	3.88
71	MP2C	Z	4.865	3.88
72	MP2C	Mx	.004	3.88
73	MP3A	X	8.255	2
74	MP3A	Z	4.766	2
75	MP3A	Mx	.003	2
76	MP3B	X	10.704	2
77	MP3B	Z	6.18	2
78	MP3B	Mx	0	2
79	MP3C	X	8.255	2
80	MP3C	Z	4.766	2
81	MP3C	Mx	-.003	2
82	MP4A	X	7.814	2
83	MP4A	Z	4.512	2
84	MP4A	Mx	.003	2
85	MP4B	X	10.704	2
86	MP4B	Z	6.18	2
87	MP4B	Mx	0	2
88	MP4C	X	7.814	2
89	MP4C	Z	4.512	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP4C	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	11.832	.75
2	MP1A	Z	20.493	.75
3	MP1A	Mx	-.006	.75
4	MP1A	X	11.832	5
5	MP1A	Z	20.493	5
6	MP1A	Mx	-.006	5
7	MP1B	X	12.95	.75
8	MP1B	Z	22.43	.75
9	MP1B	Mx	-.001	.75
10	MP1B	X	12.95	5
11	MP1B	Z	22.43	5
12	MP1B	Mx	-.001	5
13	MP1C	X	8.511	.75
14	MP1C	Z	14.742	.75
15	MP1C	Mx	.008	.75
16	MP1C	X	8.511	5
17	MP1C	Z	14.742	5
18	MP1C	Mx	.008	5
19	MP4A	X	13.985	1.38
20	MP4A	Z	24.222	1.38
21	MP4A	Mx	.009	1.38
22	MP4A	X	13.985	6.38
23	MP4A	Z	24.222	6.38
24	MP4A	Mx	.009	6.38
25	MP4B	X	14.865	1.38
26	MP4B	Z	25.747	1.38
27	MP4B	Mx	-.021	1.38
28	MP4B	X	14.865	6.38
29	MP4B	Z	25.747	6.38
30	MP4B	Mx	-.021	6.38
31	MP4C	X	11.371	1.38
32	MP4C	Z	19.695	1.38
33	MP4C	Mx	.014	1.38
34	MP4C	X	11.371	6.38
35	MP4C	Z	19.695	6.38
36	MP4C	Mx	.014	6.38
37	MP4A	X	13.985	1.38
38	MP4A	Z	24.222	1.38
39	MP4A	Mx	-.023	1.38
40	MP4A	X	13.985	6.38
41	MP4A	Z	24.222	6.38
42	MP4A	Mx	-.023	6.38
43	MP4B	X	14.865	1.38
44	MP4B	Z	25.747	1.38
45	MP4B	Mx	.018	1.38
46	MP4B	X	14.865	6.38
47	MP4B	Z	25.747	6.38
48	MP4B	Mx	.018	6.38
49	MP4C	X	11.371	1.38
50	MP4C	Z	19.695	1.38
51	MP4C	Mx	.009	1.38
52	MP4C	X	11.371	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4C	Z	19.695	6.38
54	MP4C	Mx	.009	6.38
55	MP2A	X	6.287	1.88
56	MP2A	Z	10.889	1.88
57	MP2A	Mx	-.003	1.88
58	MP2A	X	6.287	3.88
59	MP2A	Z	10.889	3.88
60	MP2A	Mx	-.003	3.88
61	MP2B	X	7.31	1.88
62	MP2B	Z	12.661	1.88
63	MP2B	Mx	-.000637	1.88
64	MP2B	X	7.31	3.88
65	MP2B	Z	12.661	3.88
66	MP2B	Mx	-.000637	3.88
67	MP2C	X	3.248	1.88
68	MP2C	Z	5.626	1.88
69	MP2C	Mx	.003	1.88
70	MP2C	X	3.248	3.88
71	MP2C	Z	5.626	3.88
72	MP2C	Mx	.003	3.88
73	MP3A	X	5.709	2
74	MP3A	Z	9.887	2
75	MP3A	Mx	.002	2
76	MP3B	X	5.709	2
77	MP3B	Z	9.887	2
78	MP3B	Mx	.002	2
79	MP3C	X	4.295	2
80	MP3C	Z	7.439	2
81	MP3C	Mx	-.003	2
82	MP4A	X	5.624	2
83	MP4A	Z	9.741	2
84	MP4A	Mx	.002	2
85	MP4B	X	5.624	2
86	MP4B	Z	9.741	2
87	MP4B	Mx	.002	2
88	MP4C	X	3.955	2
89	MP4C	Z	6.851	2
90	MP4C	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.75
2	MP1A	Z	25.97	.75
3	MP1A	Mx	0	.75
4	MP1A	X	0	5
5	MP1A	Z	25.97	5
6	MP1A	Mx	0	5
7	MP1B	X	0	.75
8	MP1B	Z	22.935	.75
9	MP1B	Mx	-.007	.75
10	MP1B	X	0	5
11	MP1B	Z	22.935	5
12	MP1B	Mx	-.007	5
13	MP1C	X	0	.75
14	MP1C	Z	17.823	.75
15	MP1C	Mx	.008	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	0	5
17	MP1C	Z	17.823	5
18	MP1C	Mx	.008	5
19	MP4A	X	0	1.38
20	MP4A	Z	29.785	1.38
21	MP4A	Mx	.02	1.38
22	MP4A	X	0	6.38
23	MP4A	Z	29.785	6.38
24	MP4A	Mx	.02	6.38
25	MP4B	X	0	1.38
26	MP4B	Z	27.396	1.38
27	MP4B	Mx	-.023	1.38
28	MP4B	X	0	6.38
29	MP4B	Z	27.396	6.38
30	MP4B	Mx	-.023	6.38
31	MP4C	X	0	1.38
32	MP4C	Z	23.373	1.38
33	MP4C	Mx	.006	1.38
34	MP4C	X	0	6.38
35	MP4C	Z	23.373	6.38
36	MP4C	Mx	.006	6.38
37	MP4A	X	0	1.38
38	MP4A	Z	29.785	1.38
39	MP4A	Mx	-.02	1.38
40	MP4A	X	0	6.38
41	MP4A	Z	29.785	6.38
42	MP4A	Mx	-.02	6.38
43	MP4B	X	0	1.38
44	MP4B	Z	27.396	1.38
45	MP4B	Mx	.007	1.38
46	MP4B	X	0	6.38
47	MP4B	Z	27.396	6.38
48	MP4B	Mx	.007	6.38
49	MP4C	X	0	1.38
50	MP4C	Z	23.373	1.38
51	MP4C	Mx	.016	1.38
52	MP4C	X	0	6.38
53	MP4C	Z	23.373	6.38
54	MP4C	Mx	.016	6.38
55	MP2A	X	0	1.88
56	MP2A	Z	14.683	1.88
57	MP2A	Mx	0	1.88
58	MP2A	X	0	3.88
59	MP2A	Z	14.683	3.88
60	MP2A	Mx	0	3.88
61	MP2B	X	0	1.88
62	MP2B	Z	11.906	1.88
63	MP2B	Mx	-.003	1.88
64	MP2B	X	0	3.88
65	MP2B	Z	11.906	3.88
66	MP2B	Mx	-.003	3.88
67	MP2C	X	0	1.88
68	MP2C	Z	7.23	1.88
69	MP2C	Mx	.003	1.88
70	MP2C	X	0	3.88
71	MP2C	Z	7.23	3.88
72	MP2C	Mx	.003	3.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	0	2
74	MP3A	Z	12.36	2
75	MP3A	Mx	0	2
76	MP3B	X	0	2
77	MP3B	Z	9.532	2
78	MP3B	Mx	.003	2
79	MP3C	X	0	2
80	MP3C	Z	9.532	2
81	MP3C	Mx	-.003	2
82	MP4A	X	0	2
83	MP4A	Z	12.36	2
84	MP4A	Mx	0	2
85	MP4B	X	0	2
86	MP4B	Z	9.023	2
87	MP4B	Mx	.003	2
88	MP4C	X	0	2
89	MP4C	Z	9.023	2
90	MP4C	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-11.832	.75
2	MP1A	Z	20.493	.75
3	MP1A	Mx	.006	.75
4	MP1A	X	-11.832	5
5	MP1A	Z	20.493	5
6	MP1A	Mx	.006	5
7	MP1B	X	-9.196	.75
8	MP1B	Z	15.928	.75
9	MP1B	Mx	-.008	.75
10	MP1B	X	-9.196	5
11	MP1B	Z	15.928	5
12	MP1B	Mx	-.008	5
13	MP1C	X	-11.079	.75
14	MP1C	Z	19.189	.75
15	MP1C	Mx	.007	.75
16	MP1C	X	-11.079	5
17	MP1C	Z	19.189	5
18	MP1C	Mx	.007	5
19	MP4A	X	-13.985	1.38
20	MP4A	Z	24.222	1.38
21	MP4A	Mx	.023	1.38
22	MP4A	X	-13.985	6.38
23	MP4A	Z	24.222	6.38
24	MP4A	Mx	.023	6.38
25	MP4B	X	-11.91	1.38
26	MP4B	Z	20.629	1.38
27	MP4B	Mx	-.018	1.38
28	MP4B	X	-11.91	6.38
29	MP4B	Z	20.629	6.38
30	MP4B	Mx	-.018	6.38
31	MP4C	X	-13.392	1.38
32	MP4C	Z	23.196	1.38
33	MP4C	Mx	-.005	1.38
34	MP4C	X	-13.392	6.38
35	MP4C	Z	23.196	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP4C	Mx	-.005	6.38
37	MP4A	X	-13.985	1.38
38	MP4A	Z	24.222	1.38
39	MP4A	Mx	-.009	1.38
40	MP4A	X	-13.985	6.38
41	MP4A	Z	24.222	6.38
42	MP4A	Mx	-.009	6.38
43	MP4B	X	-11.91	1.38
44	MP4B	Z	20.629	1.38
45	MP4B	Mx	-.004	1.38
46	MP4B	X	-11.91	6.38
47	MP4B	Z	20.629	6.38
48	MP4B	Mx	-.004	6.38
49	MP4C	X	-13.392	1.38
50	MP4C	Z	23.196	1.38
51	MP4C	Mx	.022	1.38
52	MP4C	X	-13.392	6.38
53	MP4C	Z	23.196	6.38
54	MP4C	Mx	.022	6.38
55	MP2A	X	-6.287	1.88
56	MP2A	Z	10.889	1.88
57	MP2A	Mx	.003	1.88
58	MP2A	X	-6.287	3.88
59	MP2A	Z	10.889	3.88
60	MP2A	Mx	.003	3.88
61	MP2B	X	-3.875	1.88
62	MP2B	Z	6.712	1.88
63	MP2B	Mx	-.004	1.88
64	MP2B	X	-3.875	3.88
65	MP2B	Z	6.712	3.88
66	MP2B	Mx	-.004	3.88
67	MP2C	X	-5.598	1.88
68	MP2C	Z	9.696	1.88
69	MP2C	Mx	.004	1.88
70	MP2C	X	-5.598	3.88
71	MP2C	Z	9.696	3.88
72	MP2C	Mx	.004	3.88
73	MP3A	X	-5.709	2
74	MP3A	Z	9.887	2
75	MP3A	Mx	-.002	2
76	MP3B	X	-4.295	2
77	MP3B	Z	7.439	2
78	MP3B	Mx	.003	2
79	MP3C	X	-5.709	2
80	MP3C	Z	9.887	2
81	MP3C	Mx	-.002	2
82	MP4A	X	-5.624	2
83	MP4A	Z	9.741	2
84	MP4A	Mx	-.002	2
85	MP4B	X	-3.955	2
86	MP4B	Z	6.851	2
87	MP4B	Mx	.003	2
88	MP4C	X	-5.624	2
89	MP4C	Z	9.741	2
90	MP4C	Mx	-.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-16.498	.75
2	MP1A	Z	9.525	.75
3	MP1A	Mx	.008	.75
4	MP1A	X	-16.498	5
5	MP1A	Z	9.525	5
6	MP1A	Mx	.008	5
7	MP1B	X	-14.561	.75
8	MP1B	Z	8.407	.75
9	MP1B	Mx	-.008	.75
10	MP1B	X	-14.561	5
11	MP1B	Z	8.407	5
12	MP1B	Mx	-.008	5
13	MP1C	X	-22.25	.75
14	MP1C	Z	12.846	.75
15	MP1C	Mx	.002	.75
16	MP1C	X	-22.25	5
17	MP1C	Z	12.846	5
18	MP1C	Mx	.002	5
19	MP4A	X	-21.078	1.38
20	MP4A	Z	12.169	1.38
21	MP4A	Mx	.019	1.38
22	MP4A	X	-21.078	6.38
23	MP4A	Z	12.169	6.38
24	MP4A	Mx	.019	6.38
25	MP4B	X	-19.553	1.38
26	MP4B	Z	11.289	1.38
27	MP4B	Mx	-.01	1.38
28	MP4B	X	-19.553	6.38
29	MP4B	Z	11.289	6.38
30	MP4B	Mx	-.01	6.38
31	MP4C	X	-25.605	1.38
32	MP4C	Z	14.783	1.38
33	MP4C	Mx	-.017	1.38
34	MP4C	X	-25.605	6.38
35	MP4C	Z	14.783	6.38
36	MP4C	Mx	-.017	6.38
37	MP4A	X	-21.078	1.38
38	MP4A	Z	12.169	1.38
39	MP4A	Mx	.002	1.38
40	MP4A	X	-21.078	6.38
41	MP4A	Z	12.169	6.38
42	MP4A	Mx	.002	6.38
43	MP4B	X	-19.553	1.38
44	MP4B	Z	11.289	1.38
45	MP4B	Mx	-.013	1.38
46	MP4B	X	-19.553	6.38
47	MP4B	Z	11.289	6.38
48	MP4B	Mx	-.013	6.38
49	MP4C	X	-25.605	1.38
50	MP4C	Z	14.783	1.38
51	MP4C	Mx	.022	1.38
52	MP4C	X	-25.605	6.38
53	MP4C	Z	14.783	6.38
54	MP4C	Mx	.022	6.38
55	MP2A	X	-7.234	1.88
56	MP2A	Z	4.176	1.88
57	MP2A	Mx	.004	1.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	-7.234	3.88
59	MP2A	Z	4.176	3.88
60	MP2A	Mx	.004	3.88
61	MP2B	X	-5.462	1.88
62	MP2B	Z	3.153	1.88
63	MP2B	Mx	-.003	1.88
64	MP2B	X	-5.462	3.88
65	MP2B	Z	3.153	3.88
66	MP2B	Mx	-.003	3.88
67	MP2C	X	-12.496	1.88
68	MP2C	Z	7.214	1.88
69	MP2C	Mx	.001	1.88
70	MP2C	X	-12.496	3.88
71	MP2C	Z	7.214	3.88
72	MP2C	Mx	.001	3.88
73	MP3A	X	-8.255	2
74	MP3A	Z	4.766	2
75	MP3A	Mx	-.003	2
76	MP3B	X	-8.255	2
77	MP3B	Z	4.766	2
78	MP3B	Mx	.003	2
79	MP3C	X	-10.704	2
80	MP3C	Z	6.18	2
81	MP3C	Mx	0	2
82	MP4A	X	-7.814	2
83	MP4A	Z	4.512	2
84	MP4A	Mx	-.003	2
85	MP4B	X	-7.814	2
86	MP4B	Z	4.512	2
87	MP4B	Mx	.003	2
88	MP4C	X	-10.704	2
89	MP4C	Z	6.18	2
90	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-16.744	.75
2	MP1A	Z	0	.75
3	MP1A	Mx	.008	.75
4	MP1A	X	-16.744	5
5	MP1A	Z	0	5
6	MP1A	Mx	.008	5
7	MP1B	X	-19.779	.75
8	MP1B	Z	0	.75
9	MP1B	Mx	-.008	.75
10	MP1B	X	-19.779	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.008	5
13	MP1C	X	-24.891	.75
14	MP1C	Z	0	.75
15	MP1C	Mx	-.004	.75
16	MP1C	X	-24.891	5
17	MP1C	Z	0	5
18	MP1C	Mx	-.004	5
19	MP4A	X	-22.523	1.38
20	MP4A	Z	0	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP4A	Mx	.011	1.38
22	MP4A	X	-22.523	6.38
23	MP4A	Z	0	6.38
24	MP4A	Mx	.011	6.38
25	MP4B	X	-24.912	1.38
26	MP4B	Z	0	1.38
27	MP4B	Mx	-.000677	1.38
28	MP4B	X	-24.912	6.38
29	MP4B	Z	0	6.38
30	MP4B	Mx	-.000677	6.38
31	MP4C	X	-28.936	1.38
32	MP4C	Z	0	1.38
33	MP4C	Mx	-.023	1.38
34	MP4C	X	-28.936	6.38
35	MP4C	Z	0	6.38
36	MP4C	Mx	-.023	6.38
37	MP4A	X	-22.523	1.38
38	MP4A	Z	0	1.38
39	MP4A	Mx	.011	1.38
40	MP4A	X	-22.523	6.38
41	MP4A	Z	0	6.38
42	MP4A	Mx	.011	6.38
43	MP4B	X	-24.912	1.38
44	MP4B	Z	0	1.38
45	MP4B	Mx	-.02	1.38
46	MP4B	X	-24.912	6.38
47	MP4B	Z	0	6.38
48	MP4B	Mx	-.02	6.38
49	MP4C	X	-28.936	1.38
50	MP4C	Z	0	1.38
51	MP4C	Mx	.013	1.38
52	MP4C	X	-28.936	6.38
53	MP4C	Z	0	6.38
54	MP4C	Mx	.013	6.38
55	MP2A	X	-6.242	1.88
56	MP2A	Z	0	1.88
57	MP2A	Mx	.003	1.88
58	MP2A	X	-6.242	3.88
59	MP2A	Z	0	3.88
60	MP2A	Mx	.003	3.88
61	MP2B	X	-9.019	1.88
62	MP2B	Z	0	1.88
63	MP2B	Mx	-.004	1.88
64	MP2B	X	-9.019	3.88
65	MP2B	Z	0	3.88
66	MP2B	Mx	-.004	3.88
67	MP2C	X	-13.696	1.88
68	MP2C	Z	0	1.88
69	MP2C	Mx	-.002	1.88
70	MP2C	X	-13.696	3.88
71	MP2C	Z	0	3.88
72	MP2C	Mx	-.002	3.88
73	MP3A	X	-8.59	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.003	2
76	MP3B	X	-11.417	2
77	MP3B	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3B	Mx	.002	2
79	MP3C	X	-11.417	2
80	MP3C	Z	0	2
81	MP3C	Mx	.002	2
82	MP4A	X	-7.911	2
83	MP4A	Z	0	2
84	MP4A	Mx	-.003	2
85	MP4B	X	-11.247	2
86	MP4B	Z	0	2
87	MP4B	Mx	.002	2
88	MP4C	X	-11.247	2
89	MP4C	Z	0	2
90	MP4C	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-16.498	.75
2	MP1A	Z	-9.525	.75
3	MP1A	Mx	.008	.75
4	MP1A	X	-16.498	5
5	MP1A	Z	-9.525	5
6	MP1A	Mx	.008	5
7	MP1B	X	-21.064	.75
8	MP1B	Z	-12.161	.75
9	MP1B	Mx	-.005	.75
10	MP1B	X	-21.064	5
11	MP1B	Z	-12.161	5
12	MP1B	Mx	-.005	5
13	MP1C	X	-17.802	.75
14	MP1C	Z	-10.278	.75
15	MP1C	Mx	-.008	.75
16	MP1C	X	-17.802	5
17	MP1C	Z	-10.278	5
18	MP1C	Mx	-.008	5
19	MP4A	X	-21.078	1.38
20	MP4A	Z	-12.169	1.38
21	MP4A	Mx	.002	1.38
22	MP4A	X	-21.078	6.38
23	MP4A	Z	-12.169	6.38
24	MP4A	Mx	.002	6.38
25	MP4B	X	-24.671	1.38
26	MP4B	Z	-14.244	1.38
27	MP4B	Mx	.011	1.38
28	MP4B	X	-24.671	6.38
29	MP4B	Z	-14.244	6.38
30	MP4B	Mx	.011	6.38
31	MP4C	X	-22.104	1.38
32	MP4C	Z	-12.762	1.38
33	MP4C	Mx	-.021	1.38
34	MP4C	X	-22.104	6.38
35	MP4C	Z	-12.762	6.38
36	MP4C	Mx	-.021	6.38
37	MP4A	X	-21.078	1.38
38	MP4A	Z	-12.169	1.38
39	MP4A	Mx	.019	1.38
40	MP4A	X	-21.078	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP4A	Z	-12.169	6.38
42	MP4A	Mx	.019	6.38
43	MP4B	X	-24.671	1.38
44	MP4B	Z	-14.244	1.38
45	MP4B	Mx	-.023	1.38
46	MP4B	X	-24.671	6.38
47	MP4B	Z	-14.244	6.38
48	MP4B	Mx	-.023	6.38
49	MP4C	X	-22.104	1.38
50	MP4C	Z	-12.762	1.38
51	MP4C	Mx	.001	1.38
52	MP4C	X	-22.104	6.38
53	MP4C	Z	-12.762	6.38
54	MP4C	Mx	.001	6.38
55	MP2A	X	-7.234	1.88
56	MP2A	Z	-4.176	1.88
57	MP2A	Mx	.004	1.88
58	MP2A	X	-7.234	3.88
59	MP2A	Z	-4.176	3.88
60	MP2A	Mx	.004	3.88
61	MP2B	X	-11.41	1.88
62	MP2B	Z	-6.588	1.88
63	MP2B	Mx	-.003	1.88
64	MP2B	X	-11.41	3.88
65	MP2B	Z	-6.588	3.88
66	MP2B	Mx	-.003	3.88
67	MP2C	X	-8.426	1.88
68	MP2C	Z	-4.865	1.88
69	MP2C	Mx	-.004	1.88
70	MP2C	X	-8.426	3.88
71	MP2C	Z	-4.865	3.88
72	MP2C	Mx	-.004	3.88
73	MP3A	X	-8.255	2
74	MP3A	Z	-4.766	2
75	MP3A	Mx	-.003	2
76	MP3B	X	-10.704	2
77	MP3B	Z	-6.18	2
78	MP3B	Mx	0	2
79	MP3C	X	-8.255	2
80	MP3C	Z	-4.766	2
81	MP3C	Mx	.003	2
82	MP4A	X	-7.814	2
83	MP4A	Z	-4.512	2
84	MP4A	Mx	-.003	2
85	MP4B	X	-10.704	2
86	MP4B	Z	-6.18	2
87	MP4B	Mx	0	2
88	MP4C	X	-7.814	2
89	MP4C	Z	-4.512	2
90	MP4C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-11.832	.75
2	MP1A	Z	-20.493	.75
3	MP1A	Mx	.006	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP1A	X	-11.832	5
5	MP1A	Z	-20.493	5
6	MP1A	Mx	.006	5
7	MP1B	X	-12.95	.75
8	MP1B	Z	-22.43	.75
9	MP1B	Mx	.001	.75
10	MP1B	X	-12.95	5
11	MP1B	Z	-22.43	5
12	MP1B	Mx	.001	5
13	MP1C	X	-8.511	.75
14	MP1C	Z	-14.742	.75
15	MP1C	Mx	-.008	.75
16	MP1C	X	-8.511	5
17	MP1C	Z	-14.742	5
18	MP1C	Mx	-.008	5
19	MP4A	X	-13.985	1.38
20	MP4A	Z	-24.222	1.38
21	MP4A	Mx	-.009	1.38
22	MP4A	X	-13.985	6.38
23	MP4A	Z	-24.222	6.38
24	MP4A	Mx	-.009	6.38
25	MP4B	X	-14.865	1.38
26	MP4B	Z	-25.747	1.38
27	MP4B	Mx	.021	1.38
28	MP4B	X	-14.865	6.38
29	MP4B	Z	-25.747	6.38
30	MP4B	Mx	.021	6.38
31	MP4C	X	-11.371	1.38
32	MP4C	Z	-19.695	1.38
33	MP4C	Mx	-.014	1.38
34	MP4C	X	-11.371	6.38
35	MP4C	Z	-19.695	6.38
36	MP4C	Mx	-.014	6.38
37	MP4A	X	-13.985	1.38
38	MP4A	Z	-24.222	1.38
39	MP4A	Mx	.023	1.38
40	MP4A	X	-13.985	6.38
41	MP4A	Z	-24.222	6.38
42	MP4A	Mx	.023	6.38
43	MP4B	X	-14.865	1.38
44	MP4B	Z	-25.747	1.38
45	MP4B	Mx	-.018	1.38
46	MP4B	X	-14.865	6.38
47	MP4B	Z	-25.747	6.38
48	MP4B	Mx	-.018	6.38
49	MP4C	X	-11.371	1.38
50	MP4C	Z	-19.695	1.38
51	MP4C	Mx	-.009	1.38
52	MP4C	X	-11.371	6.38
53	MP4C	Z	-19.695	6.38
54	MP4C	Mx	-.009	6.38
55	MP2A	X	-6.287	1.88
56	MP2A	Z	-10.889	1.88
57	MP2A	Mx	.003	1.88
58	MP2A	X	-6.287	3.88
59	MP2A	Z	-10.889	3.88
60	MP2A	Mx	.003	3.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2B	X	-7.31	1.88
62	MP2B	Z	-12.661	1.88
63	MP2B	Mx	.000637	1.88
64	MP2B	X	-7.31	3.88
65	MP2B	Z	-12.661	3.88
66	MP2B	Mx	.000637	3.88
67	MP2C	X	-3.248	1.88
68	MP2C	Z	-5.626	1.88
69	MP2C	Mx	-.003	1.88
70	MP2C	X	-3.248	3.88
71	MP2C	Z	-5.626	3.88
72	MP2C	Mx	-.003	3.88
73	MP3A	X	-5.709	2
74	MP3A	Z	-9.887	2
75	MP3A	Mx	-.002	2
76	MP3B	X	-5.709	2
77	MP3B	Z	-9.887	2
78	MP3B	Mx	-.002	2
79	MP3C	X	-4.295	2
80	MP3C	Z	-7.439	2
81	MP3C	Mx	.003	2
82	MP4A	X	-5.624	2
83	MP4A	Z	-9.741	2
84	MP4A	Mx	-.002	2
85	MP4B	X	-5.624	2
86	MP4B	Z	-9.741	2
87	MP4B	Mx	-.002	2
88	MP4C	X	-3.955	2
89	MP4C	Z	-6.851	2
90	MP4C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.75
2	MP1A	Z	-8.535	.75
3	MP1A	Mx	0	.75
4	MP1A	X	0	5
5	MP1A	Z	-8.535	5
6	MP1A	Mx	0	5
7	MP1B	X	0	.75
8	MP1B	Z	-7.449	.75
9	MP1B	Mx	.002	.75
10	MP1B	X	0	5
11	MP1B	Z	-7.449	5
12	MP1B	Mx	.002	5
13	MP1C	X	0	.75
14	MP1C	Z	-5.62	.75
15	MP1C	Mx	-.003	.75
16	MP1C	X	0	5
17	MP1C	Z	-5.62	5
18	MP1C	Mx	-.003	5
19	MP4A	X	0	1.38
20	MP4A	Z	-9.852	1.38
21	MP4A	Mx	-.007	1.38
22	MP4A	X	0	6.38
23	MP4A	Z	-9.852	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP4A	Mx	-.007	6.38
25	MP4B	X	0	1.38
26	MP4B	Z	-9.021	1.38
27	MP4B	Mx	.008	1.38
28	MP4B	X	0	6.38
29	MP4B	Z	-9.021	6.38
30	MP4B	Mx	.008	6.38
31	MP4C	X	0	1.38
32	MP4C	Z	-7.62	1.38
33	MP4C	Mx	-.002	1.38
34	MP4C	X	0	6.38
35	MP4C	Z	-7.62	6.38
36	MP4C	Mx	-.002	6.38
37	MP4A	X	0	1.38
38	MP4A	Z	-9.852	1.38
39	MP4A	Mx	.007	1.38
40	MP4A	X	0	6.38
41	MP4A	Z	-9.852	6.38
42	MP4A	Mx	.007	6.38
43	MP4B	X	0	1.38
44	MP4B	Z	-9.021	1.38
45	MP4B	Mx	-.002	1.38
46	MP4B	X	0	6.38
47	MP4B	Z	-9.021	6.38
48	MP4B	Mx	-.002	6.38
49	MP4C	X	0	1.38
50	MP4C	Z	-7.62	1.38
51	MP4C	Mx	-.005	1.38
52	MP4C	X	0	6.38
53	MP4C	Z	-7.62	6.38
54	MP4C	Mx	-.005	6.38
55	MP2A	X	0	1.88
56	MP2A	Z	-4.692	1.88
57	MP2A	Mx	0	1.88
58	MP2A	X	0	3.88
59	MP2A	Z	-4.692	3.88
60	MP2A	Mx	0	3.88
61	MP2B	X	0	1.88
62	MP2B	Z	-3.752	1.88
63	MP2B	Mx	.001	1.88
64	MP2B	X	0	3.88
65	MP2B	Z	-3.752	3.88
66	MP2B	Mx	.001	3.88
67	MP2C	X	0	1.88
68	MP2C	Z	-2.171	1.88
69	MP2C	Mx	-.001	1.88
70	MP2C	X	0	3.88
71	MP2C	Z	-2.171	3.88
72	MP2C	Mx	-.001	3.88
73	MP3A	X	0	2
74	MP3A	Z	-3.733	2
75	MP3A	Mx	0	2
76	MP3B	X	0	2
77	MP3B	Z	-2.805	2
78	MP3B	Mx	-.00081	2
79	MP3C	X	0	2
80	MP3C	Z	-2.805	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP3C	Mx	.00081	2
82	MP4A	X	0	2
83	MP4A	Z	-3.733	2
84	MP4A	Mx	0	2
85	MP4B	X	0	2
86	MP4B	Z	-2.637	2
87	MP4B	Mx	-.000761	2
88	MP4C	X	0	2
89	MP4C	Z	-2.637	2
90	MP4C	Mx	.000761	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	3.855	.75
2	MP1A	Z	-6.677	.75
3	MP1A	Mx	-.002	.75
4	MP1A	X	3.855	5
5	MP1A	Z	-6.677	5
6	MP1A	Mx	-.002	5
7	MP1B	X	2.912	.75
8	MP1B	Z	-5.043	.75
9	MP1B	Mx	.003	.75
10	MP1B	X	2.912	5
11	MP1B	Z	-5.043	5
12	MP1B	Mx	.003	5
13	MP1C	X	3.585	.75
14	MP1C	Z	-6.21	.75
15	MP1C	Mx	-.002	.75
16	MP1C	X	3.585	5
17	MP1C	Z	-6.21	5
18	MP1C	Mx	-.002	5
19	MP4A	X	4.61	1.38
20	MP4A	Z	-7.985	1.38
21	MP4A	Mx	-.008	1.38
22	MP4A	X	4.61	6.38
23	MP4A	Z	-7.985	6.38
24	MP4A	Mx	-.008	6.38
25	MP4B	X	3.888	1.38
26	MP4B	Z	-6.734	1.38
27	MP4B	Mx	.006	1.38
28	MP4B	X	3.888	6.38
29	MP4B	Z	-6.734	6.38
30	MP4B	Mx	.006	6.38
31	MP4C	X	4.404	1.38
32	MP4C	Z	-7.628	1.38
33	MP4C	Mx	.002	1.38
34	MP4C	X	4.404	6.38
35	MP4C	Z	-7.628	6.38
36	MP4C	Mx	.002	6.38
37	MP4A	X	4.61	1.38
38	MP4A	Z	-7.985	1.38
39	MP4A	Mx	.003	1.38
40	MP4A	X	4.61	6.38
41	MP4A	Z	-7.985	6.38
42	MP4A	Mx	.003	6.38
43	MP4B	X	3.888	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP4B	Z	-6.734	1.38
45	MP4B	Mx	.001	1.38
46	MP4B	X	3.888	6.38
47	MP4B	Z	-6.734	6.38
48	MP4B	Mx	.001	6.38
49	MP4C	X	4.404	1.38
50	MP4C	Z	-7.628	1.38
51	MP4C	Mx	-.007	1.38
52	MP4C	X	4.404	6.38
53	MP4C	Z	-7.628	6.38
54	MP4C	Mx	-.007	6.38
55	MP2A	X	1.989	1.88
56	MP2A	Z	-3.445	1.88
57	MP2A	Mx	-.000995	1.88
58	MP2A	X	1.989	3.88
59	MP2A	Z	-3.445	3.88
60	MP2A	Mx	-.000995	3.88
61	MP2B	X	1.173	1.88
62	MP2B	Z	-2.032	1.88
63	MP2B	Mx	.001	1.88
64	MP2B	X	1.173	3.88
65	MP2B	Z	-2.032	3.88
66	MP2B	Mx	.001	3.88
67	MP2C	X	1.756	1.88
68	MP2C	Z	-3.042	1.88
69	MP2C	Mx	-.001	1.88
70	MP2C	X	1.756	3.88
71	MP2C	Z	-3.042	3.88
72	MP2C	Mx	-.001	3.88
73	MP3A	X	1.712	2
74	MP3A	Z	-2.965	2
75	MP3A	Mx	.000571	2
76	MP3B	X	1.248	2
77	MP3B	Z	-2.161	2
78	MP3B	Mx	-.000832	2
79	MP3C	X	1.712	2
80	MP3C	Z	-2.965	2
81	MP3C	Mx	.000571	2
82	MP4A	X	1.684	2
83	MP4A	Z	-2.917	2
84	MP4A	Mx	.000561	2
85	MP4B	X	1.135	2
86	MP4B	Z	-1.967	2
87	MP4B	Mx	-.000757	2
88	MP4C	X	1.684	2
89	MP4C	Z	-2.917	2
90	MP4C	Mx	.000561	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.247	.75
2	MP1A	Z	-3.029	.75
3	MP1A	Mx	-.003	.75
4	MP1A	X	5.247	5
5	MP1A	Z	-3.029	5
6	MP1A	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1B	X	4.554	.75
8	MP1B	Z	-2.629	.75
9	MP1B	Mx	.003	.75
10	MP1B	X	4.554	5
11	MP1B	Z	-2.629	5
12	MP1B	Mx	.003	5
13	MP1C	X	7.305	.75
14	MP1C	Z	-4.218	.75
15	MP1C	Mx	-.000733	.75
16	MP1C	X	7.305	5
17	MP1C	Z	-4.218	5
18	MP1C	Mx	-.000733	5
19	MP4A	X	6.891	1.38
20	MP4A	Z	-3.978	1.38
21	MP4A	Mx	-.006	1.38
22	MP4A	X	6.891	6.38
23	MP4A	Z	-3.978	6.38
24	MP4A	Mx	-.006	6.38
25	MP4B	X	6.36	1.38
26	MP4B	Z	-3.672	1.38
27	MP4B	Mx	.003	1.38
28	MP4B	X	6.36	6.38
29	MP4B	Z	-3.672	6.38
30	MP4B	Mx	.003	6.38
31	MP4C	X	8.466	1.38
32	MP4C	Z	-4.888	1.38
33	MP4C	Mx	.006	1.38
34	MP4C	X	8.466	6.38
35	MP4C	Z	-4.888	6.38
36	MP4C	Mx	.006	6.38
37	MP4A	X	6.891	1.38
38	MP4A	Z	-3.978	1.38
39	MP4A	Mx	-.000794	1.38
40	MP4A	X	6.891	6.38
41	MP4A	Z	-3.978	6.38
42	MP4A	Mx	-.000794	6.38
43	MP4B	X	6.36	1.38
44	MP4B	Z	-3.672	1.38
45	MP4B	Mx	.004	1.38
46	MP4B	X	6.36	6.38
47	MP4B	Z	-3.672	6.38
48	MP4B	Mx	.004	6.38
49	MP4C	X	8.466	1.38
50	MP4C	Z	-4.888	1.38
51	MP4C	Mx	-.007	1.38
52	MP4C	X	8.466	6.38
53	MP4C	Z	-4.888	6.38
54	MP4C	Mx	-.007	6.38
55	MP2A	X	2.209	1.88
56	MP2A	Z	-1.275	1.88
57	MP2A	Mx	-.001	1.88
58	MP2A	X	2.209	3.88
59	MP2A	Z	-1.275	3.88
60	MP2A	Mx	-.001	3.88
61	MP2B	X	1.609	1.88
62	MP2B	Z	-.929	1.88
63	MP2B	Mx	.000925	1.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP2B	X	1.609	3.88
65	MP2B	Z	-.929	3.88
66	MP2B	Mx	.000925	3.88
67	MP2C	X	3.988	1.88
68	MP2C	Z	-2.303	1.88
69	MP2C	Mx	-.0004	1.88
70	MP2C	X	3.988	3.88
71	MP2C	Z	-2.303	3.88
72	MP2C	Mx	-.0004	3.88
73	MP3A	X	2.429	2
74	MP3A	Z	-1.402	2
75	MP3A	Mx	.00081	2
76	MP3B	X	2.429	2
77	MP3B	Z	-1.402	2
78	MP3B	Mx	-.00081	2
79	MP3C	X	3.233	2
80	MP3C	Z	-1.867	2
81	MP3C	Mx	0	2
82	MP4A	X	2.283	2
83	MP4A	Z	-1.318	2
84	MP4A	Mx	.000761	2
85	MP4B	X	2.283	2
86	MP4B	Z	-1.318	2
87	MP4B	Mx	-.000761	2
88	MP4C	X	3.233	2
89	MP4C	Z	-1.867	2
90	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.234	.75
2	MP1A	Z	0	.75
3	MP1A	Mx	-.003	.75
4	MP1A	X	5.234	5
5	MP1A	Z	0	5
6	MP1A	Mx	-.003	5
7	MP1B	X	6.32	.75
8	MP1B	Z	0	.75
9	MP1B	Mx	.003	.75
10	MP1B	X	6.32	5
11	MP1B	Z	0	5
12	MP1B	Mx	.003	5
13	MP1C	X	8.149	.75
14	MP1C	Z	0	.75
15	MP1C	Mx	.001	.75
16	MP1C	X	8.149	5
17	MP1C	Z	0	5
18	MP1C	Mx	.001	5
19	MP4A	X	7.325	1.38
20	MP4A	Z	0	1.38
21	MP4A	Mx	-.004	1.38
22	MP4A	X	7.325	6.38
23	MP4A	Z	0	6.38
24	MP4A	Mx	-.004	6.38
25	MP4B	X	8.156	1.38
26	MP4B	Z	0	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP4B	Mx	.000222	1.38
28	MP4B	X	8.156	6.38
29	MP4B	Z	0	6.38
30	MP4B	Mx	.000222	6.38
31	MP4C	X	9.557	1.38
32	MP4C	Z	0	1.38
33	MP4C	Mx	.008	1.38
34	MP4C	X	9.557	6.38
35	MP4C	Z	0	6.38
36	MP4C	Mx	.008	6.38
37	MP4A	X	7.325	1.38
38	MP4A	Z	0	1.38
39	MP4A	Mx	-.004	1.38
40	MP4A	X	7.325	6.38
41	MP4A	Z	0	6.38
42	MP4A	Mx	-.004	6.38
43	MP4B	X	8.156	1.38
44	MP4B	Z	0	1.38
45	MP4B	Mx	.006	1.38
46	MP4B	X	8.156	6.38
47	MP4B	Z	0	6.38
48	MP4B	Mx	.006	6.38
49	MP4C	X	9.557	1.38
50	MP4C	Z	0	1.38
51	MP4C	Mx	-.004	1.38
52	MP4C	X	9.557	6.38
53	MP4C	Z	0	6.38
54	MP4C	Mx	-.004	6.38
55	MP2A	X	1.837	1.88
56	MP2A	Z	0	1.88
57	MP2A	Mx	-.000918	1.88
58	MP2A	X	1.837	3.88
59	MP2A	Z	0	3.88
60	MP2A	Mx	-.000918	3.88
61	MP2B	X	2.776	1.88
62	MP2B	Z	0	1.88
63	MP2B	Mx	.001	1.88
64	MP2B	X	2.776	3.88
65	MP2B	Z	0	3.88
66	MP2B	Mx	.001	3.88
67	MP2C	X	4.358	1.88
68	MP2C	Z	0	1.88
69	MP2C	Mx	.000745	1.88
70	MP2C	X	4.358	3.88
71	MP2C	Z	0	3.88
72	MP2C	Mx	.000745	3.88
73	MP3A	X	2.496	2
74	MP3A	Z	0	2
75	MP3A	Mx	.000832	2
76	MP3B	X	3.424	2
77	MP3B	Z	0	2
78	MP3B	Mx	-.000571	2
79	MP3C	X	3.424	2
80	MP3C	Z	0	2
81	MP3C	Mx	-.000571	2
82	MP4A	X	2.271	2
83	MP4A	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP4A	Mx	.000757	2
85	MP4B	X	3.368	2
86	MP4B	Z	0	2
87	MP4B	Mx	-.000561	2
88	MP4C	X	3.368	2
89	MP4C	Z	0	2
90	MP4C	Mx	-.000561	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.247	.75
2	MP1A	Z	3.029	.75
3	MP1A	Mx	-.003	.75
4	MP1A	X	5.247	5
5	MP1A	Z	3.029	5
6	MP1A	Mx	-.003	5
7	MP1B	X	6.881	.75
8	MP1B	Z	3.973	.75
9	MP1B	Mx	.002	.75
10	MP1B	X	6.881	5
11	MP1B	Z	3.973	5
12	MP1B	Mx	.002	5
13	MP1C	X	5.714	.75
14	MP1C	Z	3.299	.75
15	MP1C	Mx	.003	.75
16	MP1C	X	5.714	5
17	MP1C	Z	3.299	5
18	MP1C	Mx	.003	5
19	MP4A	X	6.891	1.38
20	MP4A	Z	3.978	1.38
21	MP4A	Mx	-.000794	1.38
22	MP4A	X	6.891	6.38
23	MP4A	Z	3.978	6.38
24	MP4A	Mx	-.000794	6.38
25	MP4B	X	8.141	1.38
26	MP4B	Z	4.7	1.38
27	MP4B	Mx	-.004	1.38
28	MP4B	X	8.141	6.38
29	MP4B	Z	4.7	6.38
30	MP4B	Mx	-.004	6.38
31	MP4C	X	7.248	1.38
32	MP4C	Z	4.185	1.38
33	MP4C	Mx	.007	1.38
34	MP4C	X	7.248	6.38
35	MP4C	Z	4.185	6.38
36	MP4C	Mx	.007	6.38
37	MP4A	X	6.891	1.38
38	MP4A	Z	3.978	1.38
39	MP4A	Mx	-.006	1.38
40	MP4A	X	6.891	6.38
41	MP4A	Z	3.978	6.38
42	MP4A	Mx	-.006	6.38
43	MP4B	X	8.141	1.38
44	MP4B	Z	4.7	1.38
45	MP4B	Mx	.008	1.38
46	MP4B	X	8.141	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP4B	Z	4.7	6.38
48	MP4B	Mx	.008	6.38
49	MP4C	X	7.248	1.38
50	MP4C	Z	4.185	1.38
51	MP4C	Mx	-.000381	1.38
52	MP4C	X	7.248	6.38
53	MP4C	Z	4.185	6.38
54	MP4C	Mx	-.000381	6.38
55	MP2A	X	2.209	1.88
56	MP2A	Z	1.275	1.88
57	MP2A	Mx	-.001	1.88
58	MP2A	X	2.209	3.88
59	MP2A	Z	1.275	3.88
60	MP2A	Mx	-.001	3.88
61	MP2B	X	3.621	1.88
62	MP2B	Z	2.091	1.88
63	MP2B	Mx	.000883	1.88
64	MP2B	X	3.621	3.88
65	MP2B	Z	2.091	3.88
66	MP2B	Mx	.000883	3.88
67	MP2C	X	2.612	1.88
68	MP2C	Z	1.508	1.88
69	MP2C	Mx	.001	1.88
70	MP2C	X	2.612	3.88
71	MP2C	Z	1.508	3.88
72	MP2C	Mx	.001	3.88
73	MP3A	X	2.429	2
74	MP3A	Z	1.402	2
75	MP3A	Mx	.00081	2
76	MP3B	X	3.233	2
77	MP3B	Z	1.867	2
78	MP3B	Mx	0	2
79	MP3C	X	2.429	2
80	MP3C	Z	1.402	2
81	MP3C	Mx	-.00081	2
82	MP4A	X	2.283	2
83	MP4A	Z	1.318	2
84	MP4A	Mx	.000761	2
85	MP4B	X	3.233	2
86	MP4B	Z	1.867	2
87	MP4B	Mx	0	2
88	MP4C	X	2.283	2
89	MP4C	Z	1.318	2
90	MP4C	Mx	-.000761	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	3.855	.75
2	MP1A	Z	6.677	.75
3	MP1A	Mx	-.002	.75
4	MP1A	X	3.855	5
5	MP1A	Z	6.677	5
6	MP1A	Mx	-.002	5
7	MP1B	X	4.255	.75
8	MP1B	Z	7.37	.75
9	MP1B	Mx	-.000371	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	X	4.255	5
11	MP1B	Z	7.37	5
12	MP1B	Mx	-.000371	5
13	MP1C	X	2.667	.75
14	MP1C	Z	4.619	.75
15	MP1C	Mx	.003	.75
16	MP1C	X	2.667	5
17	MP1C	Z	4.619	5
18	MP1C	Mx	.003	5
19	MP4A	X	4.61	1.38
20	MP4A	Z	7.985	1.38
21	MP4A	Mx	.003	1.38
22	MP4A	X	4.61	6.38
23	MP4A	Z	7.985	6.38
24	MP4A	Mx	.003	6.38
25	MP4B	X	4.917	1.38
26	MP4B	Z	8.516	1.38
27	MP4B	Mx	-.007	1.38
28	MP4B	X	4.917	6.38
29	MP4B	Z	8.516	6.38
30	MP4B	Mx	-.007	6.38
31	MP4C	X	3.701	1.38
32	MP4C	Z	6.409	1.38
33	MP4C	Mx	.005	1.38
34	MP4C	X	3.701	6.38
35	MP4C	Z	6.409	6.38
36	MP4C	Mx	.005	6.38
37	MP4A	X	4.61	1.38
38	MP4A	Z	7.985	1.38
39	MP4A	Mx	-.008	1.38
40	MP4A	X	4.61	6.38
41	MP4A	Z	7.985	6.38
42	MP4A	Mx	-.008	6.38
43	MP4B	X	4.917	1.38
44	MP4B	Z	8.516	1.38
45	MP4B	Mx	.006	1.38
46	MP4B	X	4.917	6.38
47	MP4B	Z	8.516	6.38
48	MP4B	Mx	.006	6.38
49	MP4C	X	3.701	1.38
50	MP4C	Z	6.409	1.38
51	MP4C	Mx	.003	1.38
52	MP4C	X	3.701	6.38
53	MP4C	Z	6.409	6.38
54	MP4C	Mx	.003	6.38
55	MP2A	X	1.989	1.88
56	MP2A	Z	3.445	1.88
57	MP2A	Mx	-.000995	1.88
58	MP2A	X	1.989	3.88
59	MP2A	Z	3.445	3.88
60	MP2A	Mx	-.000995	3.88
61	MP2B	X	2.335	1.88
62	MP2B	Z	4.044	1.88
63	MP2B	Mx	-.000203	1.88
64	MP2B	X	2.335	3.88
65	MP2B	Z	4.044	3.88
66	MP2B	Mx	-.000203	3.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	X	.961	1.88
68	MP2C	Z	1.665	1.88
69	MP2C	Mx	.000947	1.88
70	MP2C	X	.961	3.88
71	MP2C	Z	1.665	3.88
72	MP2C	Mx	.000947	3.88
73	MP3A	X	1.712	2
74	MP3A	Z	2.965	2
75	MP3A	Mx	.000571	2
76	MP3B	X	1.712	2
77	MP3B	Z	2.965	2
78	MP3B	Mx	.000571	2
79	MP3C	X	1.248	2
80	MP3C	Z	2.161	2
81	MP3C	Mx	-.000832	2
82	MP4A	X	1.684	2
83	MP4A	Z	2.917	2
84	MP4A	Mx	.000561	2
85	MP4B	X	1.684	2
86	MP4B	Z	2.917	2
87	MP4B	Mx	.000561	2
88	MP4C	X	1.135	2
89	MP4C	Z	1.967	2
90	MP4C	Mx	-.000757	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.75
2	MP1A	Z	8.535	.75
3	MP1A	Mx	0	.75
4	MP1A	X	0	5
5	MP1A	Z	8.535	5
6	MP1A	Mx	0	5
7	MP1B	X	0	.75
8	MP1B	Z	7.449	.75
9	MP1B	Mx	-.002	.75
10	MP1B	X	0	5
11	MP1B	Z	7.449	5
12	MP1B	Mx	-.002	5
13	MP1C	X	0	.75
14	MP1C	Z	5.62	.75
15	MP1C	Mx	.003	.75
16	MP1C	X	0	5
17	MP1C	Z	5.62	5
18	MP1C	Mx	.003	5
19	MP4A	X	0	1.38
20	MP4A	Z	9.852	1.38
21	MP4A	Mx	.007	1.38
22	MP4A	X	0	6.38
23	MP4A	Z	9.852	6.38
24	MP4A	Mx	.007	6.38
25	MP4B	X	0	1.38
26	MP4B	Z	9.021	1.38
27	MP4B	Mx	-.008	1.38
28	MP4B	X	0	6.38
29	MP4B	Z	9.021	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP4B	Mx	-.008	6.38
31	MP4C	X	0	1.38
32	MP4C	Z	7.62	1.38
33	MP4C	Mx	.002	1.38
34	MP4C	X	0	6.38
35	MP4C	Z	7.62	6.38
36	MP4C	Mx	.002	6.38
37	MP4A	X	0	1.38
38	MP4A	Z	9.852	1.38
39	MP4A	Mx	-.007	1.38
40	MP4A	X	0	6.38
41	MP4A	Z	9.852	6.38
42	MP4A	Mx	-.007	6.38
43	MP4B	X	0	1.38
44	MP4B	Z	9.021	1.38
45	MP4B	Mx	.002	1.38
46	MP4B	X	0	6.38
47	MP4B	Z	9.021	6.38
48	MP4B	Mx	.002	6.38
49	MP4C	X	0	1.38
50	MP4C	Z	7.62	1.38
51	MP4C	Mx	.005	1.38
52	MP4C	X	0	6.38
53	MP4C	Z	7.62	6.38
54	MP4C	Mx	.005	6.38
55	MP2A	X	0	1.88
56	MP2A	Z	4.692	1.88
57	MP2A	Mx	0	1.88
58	MP2A	X	0	3.88
59	MP2A	Z	4.692	3.88
60	MP2A	Mx	0	3.88
61	MP2B	X	0	1.88
62	MP2B	Z	3.752	1.88
63	MP2B	Mx	-.001	1.88
64	MP2B	X	0	3.88
65	MP2B	Z	3.752	3.88
66	MP2B	Mx	-.001	3.88
67	MP2C	X	0	1.88
68	MP2C	Z	2.171	1.88
69	MP2C	Mx	.001	1.88
70	MP2C	X	0	3.88
71	MP2C	Z	2.171	3.88
72	MP2C	Mx	.001	3.88
73	MP3A	X	0	2
74	MP3A	Z	3.733	2
75	MP3A	Mx	0	2
76	MP3B	X	0	2
77	MP3B	Z	2.805	2
78	MP3B	Mx	.00081	2
79	MP3C	X	0	2
80	MP3C	Z	2.805	2
81	MP3C	Mx	-.00081	2
82	MP4A	X	0	2
83	MP4A	Z	3.733	2
84	MP4A	Mx	0	2
85	MP4B	X	0	2
86	MP4B	Z	2.637	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP4B	Mx	.000761	2
88	MP4C	X	0	2
89	MP4C	Z	2.637	2
90	MP4C	Mx	-.000761	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-3.855	.75
2	MP1A	Z	6.677	.75
3	MP1A	Mx	.002	.75
4	MP1A	X	-3.855	5
5	MP1A	Z	6.677	5
6	MP1A	Mx	.002	5
7	MP1B	X	-2.912	.75
8	MP1B	Z	5.043	.75
9	MP1B	Mx	-.003	.75
10	MP1B	X	-2.912	5
11	MP1B	Z	5.043	5
12	MP1B	Mx	-.003	5
13	MP1C	X	-3.585	.75
14	MP1C	Z	6.21	.75
15	MP1C	Mx	.002	.75
16	MP1C	X	-3.585	5
17	MP1C	Z	6.21	5
18	MP1C	Mx	.002	5
19	MP4A	X	-4.61	1.38
20	MP4A	Z	7.985	1.38
21	MP4A	Mx	.008	1.38
22	MP4A	X	-4.61	6.38
23	MP4A	Z	7.985	6.38
24	MP4A	Mx	.008	6.38
25	MP4B	X	-3.888	1.38
26	MP4B	Z	6.734	1.38
27	MP4B	Mx	-.006	1.38
28	MP4B	X	-3.888	6.38
29	MP4B	Z	6.734	6.38
30	MP4B	Mx	-.006	6.38
31	MP4C	X	-4.404	1.38
32	MP4C	Z	7.628	1.38
33	MP4C	Mx	-.002	1.38
34	MP4C	X	-4.404	6.38
35	MP4C	Z	7.628	6.38
36	MP4C	Mx	-.002	6.38
37	MP4A	X	-4.61	1.38
38	MP4A	Z	7.985	1.38
39	MP4A	Mx	-.003	1.38
40	MP4A	X	-4.61	6.38
41	MP4A	Z	7.985	6.38
42	MP4A	Mx	-.003	6.38
43	MP4B	X	-3.888	1.38
44	MP4B	Z	6.734	1.38
45	MP4B	Mx	-.001	1.38
46	MP4B	X	-3.888	6.38
47	MP4B	Z	6.734	6.38
48	MP4B	Mx	-.001	6.38
49	MP4C	X	-4.404	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP4C	Z	7.628	1.38
51	MP4C	Mx	.007	1.38
52	MP4C	X	-4.404	6.38
53	MP4C	Z	7.628	6.38
54	MP4C	Mx	.007	6.38
55	MP2A	X	-1.989	1.88
56	MP2A	Z	3.445	1.88
57	MP2A	Mx	.000995	1.88
58	MP2A	X	-1.989	3.88
59	MP2A	Z	3.445	3.88
60	MP2A	Mx	.000995	3.88
61	MP2B	X	-1.173	1.88
62	MP2B	Z	2.032	1.88
63	MP2B	Mx	-.001	1.88
64	MP2B	X	-1.173	3.88
65	MP2B	Z	2.032	3.88
66	MP2B	Mx	-.001	3.88
67	MP2C	X	-1.756	1.88
68	MP2C	Z	3.042	1.88
69	MP2C	Mx	.001	1.88
70	MP2C	X	-1.756	3.88
71	MP2C	Z	3.042	3.88
72	MP2C	Mx	.001	3.88
73	MP3A	X	-1.712	2
74	MP3A	Z	2.965	2
75	MP3A	Mx	-.000571	2
76	MP3B	X	-1.248	2
77	MP3B	Z	2.161	2
78	MP3B	Mx	.000832	2
79	MP3C	X	-1.712	2
80	MP3C	Z	2.965	2
81	MP3C	Mx	-.000571	2
82	MP4A	X	-1.684	2
83	MP4A	Z	2.917	2
84	MP4A	Mx	-.000561	2
85	MP4B	X	-1.135	2
86	MP4B	Z	1.967	2
87	MP4B	Mx	.000757	2
88	MP4C	X	-1.684	2
89	MP4C	Z	2.917	2
90	MP4C	Mx	-.000561	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.247	.75
2	MP1A	Z	3.029	.75
3	MP1A	Mx	.003	.75
4	MP1A	X	-5.247	5
5	MP1A	Z	3.029	5
6	MP1A	Mx	.003	5
7	MP1B	X	-4.554	.75
8	MP1B	Z	2.629	.75
9	MP1B	Mx	-.003	.75
10	MP1B	X	-4.554	5
11	MP1B	Z	2.629	5
12	MP1B	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1C	X	-7.305	.75
14	MP1C	Z	4.218	.75
15	MP1C	Mx	.000733	.75
16	MP1C	X	-7.305	5
17	MP1C	Z	4.218	5
18	MP1C	Mx	.000733	5
19	MP4A	X	-6.891	1.38
20	MP4A	Z	3.978	1.38
21	MP4A	Mx	.006	1.38
22	MP4A	X	-6.891	6.38
23	MP4A	Z	3.978	6.38
24	MP4A	Mx	.006	6.38
25	MP4B	X	-6.36	1.38
26	MP4B	Z	3.672	1.38
27	MP4B	Mx	-.003	1.38
28	MP4B	X	-6.36	6.38
29	MP4B	Z	3.672	6.38
30	MP4B	Mx	-.003	6.38
31	MP4C	X	-8.466	1.38
32	MP4C	Z	4.888	1.38
33	MP4C	Mx	-.006	1.38
34	MP4C	X	-8.466	6.38
35	MP4C	Z	4.888	6.38
36	MP4C	Mx	-.006	6.38
37	MP4A	X	-6.891	1.38
38	MP4A	Z	3.978	1.38
39	MP4A	Mx	.000794	1.38
40	MP4A	X	-6.891	6.38
41	MP4A	Z	3.978	6.38
42	MP4A	Mx	.000794	6.38
43	MP4B	X	-6.36	1.38
44	MP4B	Z	3.672	1.38
45	MP4B	Mx	-.004	1.38
46	MP4B	X	-6.36	6.38
47	MP4B	Z	3.672	6.38
48	MP4B	Mx	-.004	6.38
49	MP4C	X	-8.466	1.38
50	MP4C	Z	4.888	1.38
51	MP4C	Mx	.007	1.38
52	MP4C	X	-8.466	6.38
53	MP4C	Z	4.888	6.38
54	MP4C	Mx	.007	6.38
55	MP2A	X	-2.209	1.88
56	MP2A	Z	1.275	1.88
57	MP2A	Mx	.001	1.88
58	MP2A	X	-2.209	3.88
59	MP2A	Z	1.275	3.88
60	MP2A	Mx	.001	3.88
61	MP2B	X	-1.609	1.88
62	MP2B	Z	.929	1.88
63	MP2B	Mx	-.000925	1.88
64	MP2B	X	-1.609	3.88
65	MP2B	Z	.929	3.88
66	MP2B	Mx	-.000925	3.88
67	MP2C	X	-3.988	1.88
68	MP2C	Z	2.303	1.88
69	MP2C	Mx	.0004	1.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP2C	X	-3.988	3.88
71	MP2C	Z	2.303	3.88
72	MP2C	Mx	.0004	3.88
73	MP3A	X	-2.429	2
74	MP3A	Z	1.402	2
75	MP3A	Mx	-.00081	2
76	MP3B	X	-2.429	2
77	MP3B	Z	1.402	2
78	MP3B	Mx	.00081	2
79	MP3C	X	-3.233	2
80	MP3C	Z	1.867	2
81	MP3C	Mx	0	2
82	MP4A	X	-2.283	2
83	MP4A	Z	1.318	2
84	MP4A	Mx	-.000761	2
85	MP4B	X	-2.283	2
86	MP4B	Z	1.318	2
87	MP4B	Mx	.000761	2
88	MP4C	X	-3.233	2
89	MP4C	Z	1.867	2
90	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.234	.75
2	MP1A	Z	0	.75
3	MP1A	Mx	.003	.75
4	MP1A	X	-5.234	5
5	MP1A	Z	0	5
6	MP1A	Mx	.003	5
7	MP1B	X	-6.32	.75
8	MP1B	Z	0	.75
9	MP1B	Mx	-.003	.75
10	MP1B	X	-6.32	5
11	MP1B	Z	0	5
12	MP1B	Mx	-.003	5
13	MP1C	X	-8.149	.75
14	MP1C	Z	0	.75
15	MP1C	Mx	-.001	.75
16	MP1C	X	-8.149	5
17	MP1C	Z	0	5
18	MP1C	Mx	-.001	5
19	MP4A	X	-7.325	1.38
20	MP4A	Z	0	1.38
21	MP4A	Mx	.004	1.38
22	MP4A	X	-7.325	6.38
23	MP4A	Z	0	6.38
24	MP4A	Mx	.004	6.38
25	MP4B	X	-8.156	1.38
26	MP4B	Z	0	1.38
27	MP4B	Mx	-.000222	1.38
28	MP4B	X	-8.156	6.38
29	MP4B	Z	0	6.38
30	MP4B	Mx	-.000222	6.38
31	MP4C	X	-9.557	1.38
32	MP4C	Z	0	1.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP4C	Mx	-.008	1.38
34	MP4C	X	-9.557	6.38
35	MP4C	Z	0	6.38
36	MP4C	Mx	-.008	6.38
37	MP4A	X	-7.325	1.38
38	MP4A	Z	0	1.38
39	MP4A	Mx	.004	1.38
40	MP4A	X	-7.325	6.38
41	MP4A	Z	0	6.38
42	MP4A	Mx	.004	6.38
43	MP4B	X	-8.156	1.38
44	MP4B	Z	0	1.38
45	MP4B	Mx	-.006	1.38
46	MP4B	X	-8.156	6.38
47	MP4B	Z	0	6.38
48	MP4B	Mx	-.006	6.38
49	MP4C	X	-9.557	1.38
50	MP4C	Z	0	1.38
51	MP4C	Mx	.004	1.38
52	MP4C	X	-9.557	6.38
53	MP4C	Z	0	6.38
54	MP4C	Mx	.004	6.38
55	MP2A	X	-1.837	1.88
56	MP2A	Z	0	1.88
57	MP2A	Mx	.000918	1.88
58	MP2A	X	-1.837	3.88
59	MP2A	Z	0	3.88
60	MP2A	Mx	.000918	3.88
61	MP2B	X	-2.776	1.88
62	MP2B	Z	0	1.88
63	MP2B	Mx	-.001	1.88
64	MP2B	X	-2.776	3.88
65	MP2B	Z	0	3.88
66	MP2B	Mx	-.001	3.88
67	MP2C	X	-4.358	1.88
68	MP2C	Z	0	1.88
69	MP2C	Mx	-.000745	1.88
70	MP2C	X	-4.358	3.88
71	MP2C	Z	0	3.88
72	MP2C	Mx	-.000745	3.88
73	MP3A	X	-2.496	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.000832	2
76	MP3B	X	-3.424	2
77	MP3B	Z	0	2
78	MP3B	Mx	.000571	2
79	MP3C	X	-3.424	2
80	MP3C	Z	0	2
81	MP3C	Mx	.000571	2
82	MP4A	X	-2.271	2
83	MP4A	Z	0	2
84	MP4A	Mx	-.000757	2
85	MP4B	X	-3.368	2
86	MP4B	Z	0	2
87	MP4B	Mx	.000561	2
88	MP4C	X	-3.368	2
89	MP4C	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP4C	Mx	.000561	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.247	.75
2	MP1A	Z	-3.029	.75
3	MP1A	Mx	.003	.75
4	MP1A	X	-5.247	5
5	MP1A	Z	-3.029	5
6	MP1A	Mx	.003	5
7	MP1B	X	-6.881	.75
8	MP1B	Z	-3.973	.75
9	MP1B	Mx	-.002	.75
10	MP1B	X	-6.881	5
11	MP1B	Z	-3.973	5
12	MP1B	Mx	-.002	5
13	MP1C	X	-5.714	.75
14	MP1C	Z	-3.299	.75
15	MP1C	Mx	-.003	.75
16	MP1C	X	-5.714	5
17	MP1C	Z	-3.299	5
18	MP1C	Mx	-.003	5
19	MP4A	X	-6.891	1.38
20	MP4A	Z	-3.978	1.38
21	MP4A	Mx	.000794	1.38
22	MP4A	X	-6.891	6.38
23	MP4A	Z	-3.978	6.38
24	MP4A	Mx	.000794	6.38
25	MP4B	X	-8.141	1.38
26	MP4B	Z	-4.7	1.38
27	MP4B	Mx	.004	1.38
28	MP4B	X	-8.141	6.38
29	MP4B	Z	-4.7	6.38
30	MP4B	Mx	.004	6.38
31	MP4C	X	-7.248	1.38
32	MP4C	Z	-4.185	1.38
33	MP4C	Mx	-.007	1.38
34	MP4C	X	-7.248	6.38
35	MP4C	Z	-4.185	6.38
36	MP4C	Mx	-.007	6.38
37	MP4A	X	-6.891	1.38
38	MP4A	Z	-3.978	1.38
39	MP4A	Mx	.006	1.38
40	MP4A	X	-6.891	6.38
41	MP4A	Z	-3.978	6.38
42	MP4A	Mx	.006	6.38
43	MP4B	X	-8.141	1.38
44	MP4B	Z	-4.7	1.38
45	MP4B	Mx	-.008	1.38
46	MP4B	X	-8.141	6.38
47	MP4B	Z	-4.7	6.38
48	MP4B	Mx	-.008	6.38
49	MP4C	X	-7.248	1.38
50	MP4C	Z	-4.185	1.38
51	MP4C	Mx	.000381	1.38
52	MP4C	X	-7.248	6.38

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4C	Z	-4.185	6.38
54	MP4C	Mx	.000381	6.38
55	MP2A	X	-2.209	1.88
56	MP2A	Z	-1.275	1.88
57	MP2A	Mx	.001	1.88
58	MP2A	X	-2.209	3.88
59	MP2A	Z	-1.275	3.88
60	MP2A	Mx	.001	3.88
61	MP2B	X	-3.621	1.88
62	MP2B	Z	-2.091	1.88
63	MP2B	Mx	-.000883	1.88
64	MP2B	X	-3.621	3.88
65	MP2B	Z	-2.091	3.88
66	MP2B	Mx	-.000883	3.88
67	MP2C	X	-2.612	1.88
68	MP2C	Z	-1.508	1.88
69	MP2C	Mx	-.001	1.88
70	MP2C	X	-2.612	3.88
71	MP2C	Z	-1.508	3.88
72	MP2C	Mx	-.001	3.88
73	MP3A	X	-2.429	2
74	MP3A	Z	-1.402	2
75	MP3A	Mx	-.00081	2
76	MP3B	X	-3.233	2
77	MP3B	Z	-1.867	2
78	MP3B	Mx	0	2
79	MP3C	X	-2.429	2
80	MP3C	Z	-1.402	2
81	MP3C	Mx	.00081	2
82	MP4A	X	-2.283	2
83	MP4A	Z	-1.318	2
84	MP4A	Mx	-.000761	2
85	MP4B	X	-3.233	2
86	MP4B	Z	-1.867	2
87	MP4B	Mx	0	2
88	MP4C	X	-2.283	2
89	MP4C	Z	-1.318	2
90	MP4C	Mx	.000761	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-3.855	.75
2	MP1A	Z	-6.677	.75
3	MP1A	Mx	.002	.75
4	MP1A	X	-3.855	5
5	MP1A	Z	-6.677	5
6	MP1A	Mx	.002	5
7	MP1B	X	-4.255	.75
8	MP1B	Z	-7.37	.75
9	MP1B	Mx	.000371	.75
10	MP1B	X	-4.255	5
11	MP1B	Z	-7.37	5
12	MP1B	Mx	.000371	5
13	MP1C	X	-2.667	.75
14	MP1C	Z	-4.619	.75
15	MP1C	Mx	-.003	.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	-2.667	5
17	MP1C	Z	-4.619	5
18	MP1C	Mx	-.003	5
19	MP4A	X	-4.61	1.38
20	MP4A	Z	-7.985	1.38
21	MP4A	Mx	-.003	1.38
22	MP4A	X	-4.61	6.38
23	MP4A	Z	-7.985	6.38
24	MP4A	Mx	-.003	6.38
25	MP4B	X	-4.917	1.38
26	MP4B	Z	-8.516	1.38
27	MP4B	Mx	.007	1.38
28	MP4B	X	-4.917	6.38
29	MP4B	Z	-8.516	6.38
30	MP4B	Mx	.007	6.38
31	MP4C	X	-3.701	1.38
32	MP4C	Z	-6.409	1.38
33	MP4C	Mx	-.005	1.38
34	MP4C	X	-3.701	6.38
35	MP4C	Z	-6.409	6.38
36	MP4C	Mx	-.005	6.38
37	MP4A	X	-4.61	1.38
38	MP4A	Z	-7.985	1.38
39	MP4A	Mx	.008	1.38
40	MP4A	X	-4.61	6.38
41	MP4A	Z	-7.985	6.38
42	MP4A	Mx	.008	6.38
43	MP4B	X	-4.917	1.38
44	MP4B	Z	-8.516	1.38
45	MP4B	Mx	-.006	1.38
46	MP4B	X	-4.917	6.38
47	MP4B	Z	-8.516	6.38
48	MP4B	Mx	-.006	6.38
49	MP4C	X	-3.701	1.38
50	MP4C	Z	-6.409	1.38
51	MP4C	Mx	-.003	1.38
52	MP4C	X	-3.701	6.38
53	MP4C	Z	-6.409	6.38
54	MP4C	Mx	-.003	6.38
55	MP2A	X	-1.989	1.88
56	MP2A	Z	-3.445	1.88
57	MP2A	Mx	.000995	1.88
58	MP2A	X	-1.989	3.88
59	MP2A	Z	-3.445	3.88
60	MP2A	Mx	.000995	3.88
61	MP2B	X	-2.335	1.88
62	MP2B	Z	-4.044	1.88
63	MP2B	Mx	.000203	1.88
64	MP2B	X	-2.335	3.88
65	MP2B	Z	-4.044	3.88
66	MP2B	Mx	.000203	3.88
67	MP2C	X	-.961	1.88
68	MP2C	Z	-1.665	1.88
69	MP2C	Mx	-.000947	1.88
70	MP2C	X	-.961	3.88
71	MP2C	Z	-1.665	3.88
72	MP2C	Mx	-.000947	3.88

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	-1.712	2
74	MP3A	Z	-2.965	2
75	MP3A	Mx	-.000571	2
76	MP3B	X	-1.712	2
77	MP3B	Z	-2.965	2
78	MP3B	Mx	-.000571	2
79	MP3C	X	-1.248	2
80	MP3C	Z	-2.161	2
81	MP3C	Mx	.000832	2
82	MP4A	X	-1.684	2
83	MP4A	Z	-2.917	2
84	MP4A	Mx	-.000561	2
85	MP4B	X	-1.684	2
86	MP4B	Z	-2.917	2
87	MP4B	Mx	-.000561	2
88	MP4C	X	-1.135	2
89	MP4C	Z	-1.967	2
90	MP4C	Mx	.000757	2

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M20	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M21	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-6.378	-6.378	0	%100
2	M4	Y	-9.35	-9.35	0	%100
3	M10	Y	-9.35	-9.35	0	%100
4	MP3A	Y	-4.827	-4.827	0	%100
5	MP4A	Y	-5.516	-5.516	0	%100
6	MP2A	Y	-4.827	-4.827	0	%100
7	MP1A	Y	-4.827	-4.827	0	%100
8	M43	Y	-9.35	-9.35	0	%100
9	M46	Y	-9.851	-9.851	0	%100
10	M51B	Y	-5.452	-5.452	0	%100
11	M52B	Y	-5.452	-5.452	0	%100
12	M76	Y	-9.839	-9.839	0	%100
13	M77	Y	-9.839	-9.839	0	%100
14	M80	Y	-9.851	-9.851	0	%100
15	M84	Y	-9.839	-9.839	0	%100
16	M85	Y	-9.839	-9.839	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M91	Y	-9.851	-9.851	0	%100
18	M52A	Y	-9.35	-9.35	0	%100
19	M53	Y	-9.35	-9.35	0	%100
20	M54	Y	-9.35	-9.35	0	%100
21	M55	Y	-9.851	-9.851	0	%100
22	M58A	Y	-5.452	-5.452	0	%100
23	M59A	Y	-5.452	-5.452	0	%100
24	M63	Y	-9.839	-9.839	0	%100
25	M64	Y	-9.839	-9.839	0	%100
26	M66	Y	-9.851	-9.851	0	%100
27	M68	Y	-9.839	-9.839	0	%100
28	M69	Y	-9.839	-9.839	0	%100
29	M71	Y	-9.851	-9.851	0	%100
30	M76A	Y	-9.35	-9.35	0	%100
31	M77A	Y	-9.35	-9.35	0	%100
32	M78	Y	-9.35	-9.35	0	%100
33	M79A	Y	-9.851	-9.851	0	%100
34	M82	Y	-5.452	-5.452	0	%100
35	M83A	Y	-5.452	-5.452	0	%100
36	M87	Y	-9.839	-9.839	0	%100
37	M88A	Y	-9.839	-9.839	0	%100
38	M90	Y	-9.851	-9.851	0	%100
39	M92A	Y	-9.839	-9.839	0	%100
40	M93	Y	-9.839	-9.839	0	%100
41	M95	Y	-9.851	-9.851	0	%100
42	M82A	Y	-6.378	-6.378	0	%100
43	M91B	Y	-6.378	-6.378	0	%100
44	MP3C	Y	-4.827	-4.827	0	%100
45	MP4C	Y	-5.516	-5.516	0	%100
46	MP2C	Y	-4.827	-4.827	0	%100
47	MP1C	Y	-4.827	-4.827	0	%100
48	MP3B	Y	-4.827	-4.827	0	%100
49	MP4B	Y	-5.516	-5.516	0	%100
50	MP2B	Y	-4.827	-4.827	0	%100
51	MP1B	Y	-4.827	-4.827	0	%100
52	M100	Y	-5.516	-5.516	0	%100
53	M105	Y	-5.516	-5.516	0	%100
54	M106	Y	-5.516	-5.516	0	%100
55	M121	Y	-7.401	-7.401	0	%100
56	M122	Y	-7.401	-7.401	0	%100
57	M123	Y	-7.401	-7.401	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	-11.556	-11.556	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-9.932	-9.932	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-7.841	-7.841	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-9.492	-9.492	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-7.841	-7.841	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,%]
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-7.841	-7.841	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-9.932	-9.932	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-19.81	-19.81	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-2.75	-2.75	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-2.75	-2.75	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-5.044	-5.044	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-5.313	-5.313	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-5.044	-5.044	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-5.313	-5.313	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-8.803	-8.803	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-2.483	-2.483	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-2.483	-2.483	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-4.952	-4.952	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-2.75	-2.75	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-11	-11	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-14.857	-14.857	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	-5.044	-5.044	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-5.313	-5.313	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-14.857	-14.857	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-20.177	-20.177	0	%100
57	M71	X	0	0	0	%100
58	M71	Z	-21.252	-21.252	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	-8.803	-8.803	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-2.483	-2.483	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-2.483	-2.483	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-4.952	-4.952	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-11	-11	0	%100
69	M83A	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,%]
70	M83A	Z	-2.75	-2.75	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-14.857	-14.857	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-20.177	-20.177	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-21.252	-21.252	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-14.857	-14.857	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	-5.044	-5.044	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-5.313	-5.313	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-2.889	-2.889	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	-2.889	-2.889	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-7.841	-7.841	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-9.492	-9.492	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-7.841	-7.841	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-7.841	-7.841	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	-7.841	-7.841	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-9.492	-9.492	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-7.841	-7.841	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-7.841	-7.841	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	-9.492	-9.492	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	-2.373	-2.373	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	-2.373	-2.373	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-3.022	-3.022	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-12.09	-12.09	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-3.022	-3.022	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	4.333	4.333	0	%100
2	M1	Z	-7.506	-7.506	0	%100
3	M4	X	1.467	1.467	0	%100
4	M4	Z	-2.541	-2.541	0	%100
5	M10	X	3.724	3.724	0	%100
6	M10	Z	-6.451	-6.451	0	%100
7	MP3A	X	3.921	3.921	0	%100
8	MP3A	Z	-6.791	-6.791	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,%]
9	MP4A	X	4.746	4.746	0	%100
10	MP4A	Z	-8.22	-8.22	0	%100
11	MP2A	X	3.921	3.921	0	%100
12	MP2A	Z	-6.791	-6.791	0	%100
13	MP1A	X	3.921	3.921	0	%100
14	MP1A	Z	-6.791	-6.791	0	%100
15	M43	X	3.724	3.724	0	%100
16	M43	Z	-6.451	-6.451	0	%100
17	M46	X	7.429	7.429	0	%100
18	M46	Z	-12.867	-12.867	0	%100
19	M51B	X	4.125	4.125	0	%100
20	M51B	Z	-7.145	-7.145	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	2.476	2.476	0	%100
24	M76	Z	-4.289	-4.289	0	%100
25	M77	X	7.566	7.566	0	%100
26	M77	Z	-13.105	-13.105	0	%100
27	M80	X	7.969	7.969	0	%100
28	M80	Z	-13.803	-13.803	0	%100
29	M84	X	2.476	2.476	0	%100
30	M84	Z	-4.289	-4.289	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	1.467	1.467	0	%100
36	M52A	Z	-2.541	-2.541	0	%100
37	M53	X	3.724	3.724	0	%100
38	M53	Z	-6.451	-6.451	0	%100
39	M54	X	3.724	3.724	0	%100
40	M54	Z	-6.451	-6.451	0	%100
41	M55	X	7.429	7.429	0	%100
42	M55	Z	-12.867	-12.867	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	4.125	4.125	0	%100
46	M59A	Z	-7.145	-7.145	0	%100
47	M63	X	2.476	2.476	0	%100
48	M63	Z	-4.289	-4.289	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	2.476	2.476	0	%100
54	M68	Z	-4.289	-4.289	0	%100
55	M69	X	7.566	7.566	0	%100
56	M69	Z	-13.105	-13.105	0	%100
57	M71	X	7.969	7.969	0	%100
58	M71	Z	-13.803	-13.803	0	%100
59	M76A	X	5.869	5.869	0	%100
60	M76A	Z	-10.165	-10.165	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	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,%]
66	M79A	Z	0	0	0	%100
67	M82	X	4.125	4.125	0	%100
68	M82	Z	-7.145	-7.145	0	%100
69	M83A	X	4.125	4.125	0	%100
70	M83A	Z	-7.145	-7.145	0	%100
71	M87	X	9.905	9.905	0	%100
72	M87	Z	-17.156	-17.156	0	%100
73	M88A	X	7.566	7.566	0	%100
74	M88A	Z	-13.105	-13.105	0	%100
75	M90	X	7.969	7.969	0	%100
76	M90	Z	-13.803	-13.803	0	%100
77	M92A	X	9.905	9.905	0	%100
78	M92A	Z	-17.156	-17.156	0	%100
79	M93	X	7.566	7.566	0	%100
80	M93	Z	-13.105	-13.105	0	%100
81	M95	X	7.969	7.969	0	%100
82	M95	Z	-13.803	-13.803	0	%100
83	M82A	X	4.333	4.333	0	%100
84	M82A	Z	-7.506	-7.506	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	3.921	3.921	0	%100
88	MP3C	Z	-6.791	-6.791	0	%100
89	MP4C	X	4.746	4.746	0	%100
90	MP4C	Z	-8.22	-8.22	0	%100
91	MP2C	X	3.921	3.921	0	%100
92	MP2C	Z	-6.791	-6.791	0	%100
93	MP1C	X	3.921	3.921	0	%100
94	MP1C	Z	-6.791	-6.791	0	%100
95	MP3B	X	3.921	3.921	0	%100
96	MP3B	Z	-6.791	-6.791	0	%100
97	MP4B	X	4.746	4.746	0	%100
98	MP4B	Z	-8.22	-8.22	0	%100
99	MP2B	X	3.921	3.921	0	%100
100	MP2B	Z	-6.791	-6.791	0	%100
101	MP1B	X	3.921	3.921	0	%100
102	MP1B	Z	-6.791	-6.791	0	%100
103	M100	X	3.56	3.56	0	%100
104	M100	Z	-6.165	-6.165	0	%100
105	M105	X	3.56	3.56	0	%100
106	M105	Z	-6.165	-6.165	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	4.534	4.534	0	%100
110	M121	Z	-7.853	-7.853	0	%100
111	M122	X	4.534	4.534	0	%100
112	M122	Z	-7.853	-7.853	0	%100
113	M123	X	0	0	0	%100
114	M123	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	2.502	2.502	0	%100
2	M1	Z	-1.444	-1.444	0	%100
3	M4	X	7.624	7.624	0	%100
4	M4	Z	-4.401	-4.401	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,%]
5	M10	X	2.15	2.15	0	%100
6	M10	Z	-1.241	-1.241	0	%100
7	MP3A	X	6.791	6.791	0	%100
8	MP3A	Z	-3.921	-3.921	0	%100
9	MP4A	X	8.22	8.22	0	%100
10	MP4A	Z	-4.746	-4.746	0	%100
11	MP2A	X	6.791	6.791	0	%100
12	MP2A	Z	-3.921	-3.921	0	%100
13	MP1A	X	6.791	6.791	0	%100
14	MP1A	Z	-3.921	-3.921	0	%100
15	M43	X	2.15	2.15	0	%100
16	M43	Z	-1.241	-1.241	0	%100
17	M46	X	4.289	4.289	0	%100
18	M46	Z	-2.476	-2.476	0	%100
19	M51B	X	9.526	9.526	0	%100
20	M51B	Z	-5.5	-5.5	0	%100
21	M52B	X	2.382	2.382	0	%100
22	M52B	Z	-1.375	-1.375	0	%100
23	M76	X	12.867	12.867	0	%100
24	M76	Z	-7.429	-7.429	0	%100
25	M77	X	17.473	17.473	0	%100
26	M77	Z	-10.088	-10.088	0	%100
27	M80	X	18.404	18.404	0	%100
28	M80	Z	-10.626	-10.626	0	%100
29	M84	X	12.867	12.867	0	%100
30	M84	Z	-7.429	-7.429	0	%100
31	M85	X	4.368	4.368	0	%100
32	M85	Z	-2.522	-2.522	0	%100
33	M91	X	4.601	4.601	0	%100
34	M91	Z	-2.656	-2.656	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	8.601	8.601	0	%100
38	M53	Z	-4.966	-4.966	0	%100
39	M54	X	8.601	8.601	0	%100
40	M54	Z	-4.966	-4.966	0	%100
41	M55	X	17.156	17.156	0	%100
42	M55	Z	-9.905	-9.905	0	%100
43	M58A	X	2.382	2.382	0	%100
44	M58A	Z	-1.375	-1.375	0	%100
45	M59A	X	2.382	2.382	0	%100
46	M59A	Z	-1.375	-1.375	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	4.368	4.368	0	%100
50	M64	Z	-2.522	-2.522	0	%100
51	M66	X	4.601	4.601	0	%100
52	M66	Z	-2.656	-2.656	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	4.368	4.368	0	%100
56	M69	Z	-2.522	-2.522	0	%100
57	M71	X	4.601	4.601	0	%100
58	M71	Z	-2.656	-2.656	0	%100
59	M76A	X	7.624	7.624	0	%100
60	M76A	Z	-4.401	-4.401	0	%100
61	M77A	X	2.15	2.15	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,%]
62	M77A	Z	-1.241	-1.241	0	%100
63	M78	X	2.15	2.15	0	%100
64	M78	Z	-1.241	-1.241	0	%100
65	M79A	X	4.289	4.289	0	%100
66	M79A	Z	-2.476	-2.476	0	%100
67	M82	X	2.382	2.382	0	%100
68	M82	Z	-1.375	-1.375	0	%100
69	M83A	X	9.526	9.526	0	%100
70	M83A	Z	-5.5	-5.5	0	%100
71	M87	X	12.867	12.867	0	%100
72	M87	Z	-7.429	-7.429	0	%100
73	M88A	X	4.368	4.368	0	%100
74	M88A	Z	-2.522	-2.522	0	%100
75	M90	X	4.601	4.601	0	%100
76	M90	Z	-2.656	-2.656	0	%100
77	M92A	X	12.867	12.867	0	%100
78	M92A	Z	-7.429	-7.429	0	%100
79	M93	X	17.473	17.473	0	%100
80	M93	Z	-10.088	-10.088	0	%100
81	M95	X	18.404	18.404	0	%100
82	M95	Z	-10.626	-10.626	0	%100
83	M82A	X	10.008	10.008	0	%100
84	M82A	Z	-5.778	-5.778	0	%100
85	M91B	X	2.502	2.502	0	%100
86	M91B	Z	-1.444	-1.444	0	%100
87	MP3C	X	6.791	6.791	0	%100
88	MP3C	Z	-3.921	-3.921	0	%100
89	MP4C	X	8.22	8.22	0	%100
90	MP4C	Z	-4.746	-4.746	0	%100
91	MP2C	X	6.791	6.791	0	%100
92	MP2C	Z	-3.921	-3.921	0	%100
93	MP1C	X	6.791	6.791	0	%100
94	MP1C	Z	-3.921	-3.921	0	%100
95	MP3B	X	6.791	6.791	0	%100
96	MP3B	Z	-3.921	-3.921	0	%100
97	MP4B	X	8.22	8.22	0	%100
98	MP4B	Z	-4.746	-4.746	0	%100
99	MP2B	X	6.791	6.791	0	%100
100	MP2B	Z	-3.921	-3.921	0	%100
101	MP1B	X	6.791	6.791	0	%100
102	MP1B	Z	-3.921	-3.921	0	%100
103	M100	X	2.055	2.055	0	%100
104	M100	Z	-1.187	-1.187	0	%100
105	M105	X	8.22	8.22	0	%100
106	M105	Z	-4.746	-4.746	0	%100
107	M106	X	2.055	2.055	0	%100
108	M106	Z	-1.187	-1.187	0	%100
109	M121	X	10.47	10.47	0	%100
110	M121	Z	-6.045	-6.045	0	%100
111	M122	X	2.618	2.618	0	%100
112	M122	Z	-1.511	-1.511	0	%100
113	M123	X	2.618	2.618	0	%100
114	M123	Z	-1.511	-1.511	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	11.737	11.737	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	7.841	7.841	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	9.492	9.492	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	7.841	7.841	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	7.841	7.841	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	8.25	8.25	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	8.25	8.25	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	19.81	19.81	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	15.132	15.132	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	15.939	15.939	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	19.81	19.81	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	15.132	15.132	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	15.939	15.939	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	2.934	2.934	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	7.449	7.449	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	7.449	7.449	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	14.857	14.857	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	8.25	8.25	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	4.952	4.952	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	15.132	15.132	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	15.939	15.939	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	4.952	4.952	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	2.934	2.934	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	7.449	7.449	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	7.449	7.449	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	14.857	14.857	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	8.25	8.25	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	4.952	4.952	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	4.952	4.952	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	15.132	15.132	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	15.939	15.939	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	8.667	8.667	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	8.667	8.667	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	7.841	7.841	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	9.492	9.492	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	7.841	7.841	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	7.841	7.841	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3B	X	7.841	7.841	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	9.492	9.492	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	7.841	7.841	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	7.841	7.841	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	7.119	7.119	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	7.119	7.119	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	9.067	9.067	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	9.067	9.067	0	%100
114	M123	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	2.502	2.502	0	%100
2	M1	Z	1.444	1.444	0	%100
3	M4	X	7.624	7.624	0	%100
4	M4	Z	4.401	4.401	0	%100
5	M10	X	2.15	2.15	0	%100
6	M10	Z	1.241	1.241	0	%100
7	MP3A	X	6.791	6.791	0	%100
8	MP3A	Z	3.921	3.921	0	%100
9	MP4A	X	8.22	8.22	0	%100
10	MP4A	Z	4.746	4.746	0	%100
11	MP2A	X	6.791	6.791	0	%100
12	MP2A	Z	3.921	3.921	0	%100
13	MP1A	X	6.791	6.791	0	%100
14	MP1A	Z	3.921	3.921	0	%100
15	M43	X	2.15	2.15	0	%100
16	M43	Z	1.241	1.241	0	%100
17	M46	X	4.289	4.289	0	%100
18	M46	Z	2.476	2.476	0	%100
19	M51B	X	2.382	2.382	0	%100
20	M51B	Z	1.375	1.375	0	%100
21	M52B	X	9.526	9.526	0	%100
22	M52B	Z	5.5	5.5	0	%100
23	M76	X	12.867	12.867	0	%100
24	M76	Z	7.429	7.429	0	%100
25	M77	X	4.368	4.368	0	%100
26	M77	Z	2.522	2.522	0	%100
27	M80	X	4.601	4.601	0	%100
28	M80	Z	2.656	2.656	0	%100
29	M84	X	12.867	12.867	0	%100
30	M84	Z	7.429	7.429	0	%100
31	M85	X	17.473	17.473	0	%100
32	M85	Z	10.088	10.088	0	%100
33	M91	X	18.404	18.404	0	%100
34	M91	Z	10.626	10.626	0	%100
35	M52A	X	7.624	7.624	0	%100
36	M52A	Z	4.401	4.401	0	%100
37	M53	X	2.15	2.15	0	%100
38	M53	Z	1.241	1.241	0	%100
39	M54	X	2.15	2.15	0	%100
40	M54	Z	1.241	1.241	0	%100
41	M55	X	4.289	4.289	0	%100
42	M55	Z	2.476	2.476	0	%100
43	M58A	X	9.526	9.526	0	%100
44	M58A	Z	5.5	5.5	0	%100
45	M59A	X	2.382	2.382	0	%100
46	M59A	Z	1.375	1.375	0	%100
47	M63	X	12.867	12.867	0	%100
48	M63	Z	7.429	7.429	0	%100
49	M64	X	17.473	17.473	0	%100
50	M64	Z	10.088	10.088	0	%100
51	M66	X	18.404	18.404	0	%100
52	M66	Z	10.626	10.626	0	%100
53	M68	X	12.867	12.867	0	%100
54	M68	Z	7.429	7.429	0	%100
55	M69	X	4.368	4.368	0	%100
56	M69	Z	2.522	2.522	0	%100
57	M71	X	4.601	4.601	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,%]
58	M71	Z	2.656	2.656	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	8.601	8.601	0	%100
62	M77A	Z	4.966	4.966	0	%100
63	M78	X	8.601	8.601	0	%100
64	M78	Z	4.966	4.966	0	%100
65	M79A	X	17.156	17.156	0	%100
66	M79A	Z	9.905	9.905	0	%100
67	M82	X	2.382	2.382	0	%100
68	M82	Z	1.375	1.375	0	%100
69	M83A	X	2.382	2.382	0	%100
70	M83A	Z	1.375	1.375	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	4.368	4.368	0	%100
74	M88A	Z	2.522	2.522	0	%100
75	M90	X	4.601	4.601	0	%100
76	M90	Z	2.656	2.656	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	4.368	4.368	0	%100
80	M93	Z	2.522	2.522	0	%100
81	M95	X	4.601	4.601	0	%100
82	M95	Z	2.656	2.656	0	%100
83	M82A	X	2.502	2.502	0	%100
84	M82A	Z	1.444	1.444	0	%100
85	M91B	X	10.008	10.008	0	%100
86	M91B	Z	5.778	5.778	0	%100
87	MP3C	X	6.791	6.791	0	%100
88	MP3C	Z	3.921	3.921	0	%100
89	MP4C	X	8.22	8.22	0	%100
90	MP4C	Z	4.746	4.746	0	%100
91	MP2C	X	6.791	6.791	0	%100
92	MP2C	Z	3.921	3.921	0	%100
93	MP1C	X	6.791	6.791	0	%100
94	MP1C	Z	3.921	3.921	0	%100
95	MP3B	X	6.791	6.791	0	%100
96	MP3B	Z	3.921	3.921	0	%100
97	MP4B	X	8.22	8.22	0	%100
98	MP4B	Z	4.746	4.746	0	%100
99	MP2B	X	6.791	6.791	0	%100
100	MP2B	Z	3.921	3.921	0	%100
101	MP1B	X	6.791	6.791	0	%100
102	MP1B	Z	3.921	3.921	0	%100
103	M100	X	2.055	2.055	0	%100
104	M100	Z	1.187	1.187	0	%100
105	M105	X	2.055	2.055	0	%100
106	M105	Z	1.187	1.187	0	%100
107	M106	X	8.22	8.22	0	%100
108	M106	Z	4.746	4.746	0	%100
109	M121	X	2.618	2.618	0	%100
110	M121	Z	1.511	1.511	0	%100
111	M122	X	2.618	2.618	0	%100
112	M122	Z	1.511	1.511	0	%100
113	M123	X	10.47	10.47	0	%100
114	M123	Z	6.045	6.045	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	4.333	4.333	0	%100
2	M1	Z	7.506	7.506	0	%100
3	M4	X	1.467	1.467	0	%100
4	M4	Z	2.541	2.541	0	%100
5	M10	X	3.724	3.724	0	%100
6	M10	Z	6.451	6.451	0	%100
7	MP3A	X	3.921	3.921	0	%100
8	MP3A	Z	6.791	6.791	0	%100
9	MP4A	X	4.746	4.746	0	%100
10	MP4A	Z	8.22	8.22	0	%100
11	MP2A	X	3.921	3.921	0	%100
12	MP2A	Z	6.791	6.791	0	%100
13	MP1A	X	3.921	3.921	0	%100
14	MP1A	Z	6.791	6.791	0	%100
15	M43	X	3.724	3.724	0	%100
16	M43	Z	6.451	6.451	0	%100
17	M46	X	7.429	7.429	0	%100
18	M46	Z	12.867	12.867	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	4.125	4.125	0	%100
22	M52B	Z	7.145	7.145	0	%100
23	M76	X	2.476	2.476	0	%100
24	M76	Z	4.289	4.289	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	2.476	2.476	0	%100
30	M84	Z	4.289	4.289	0	%100
31	M85	X	7.566	7.566	0	%100
32	M85	Z	13.105	13.105	0	%100
33	M91	X	7.969	7.969	0	%100
34	M91	Z	13.803	13.803	0	%100
35	M52A	X	5.869	5.869	0	%100
36	M52A	Z	10.165	10.165	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	4.125	4.125	0	%100
44	M58A	Z	7.145	7.145	0	%100
45	M59A	X	4.125	4.125	0	%100
46	M59A	Z	7.145	7.145	0	%100
47	M63	X	9.905	9.905	0	%100
48	M63	Z	17.156	17.156	0	%100
49	M64	X	7.566	7.566	0	%100
50	M64	Z	13.105	13.105	0	%100
51	M66	X	7.969	7.969	0	%100
52	M66	Z	13.803	13.803	0	%100
53	M68	X	9.905	9.905	0	%100
54	M68	Z	17.156	17.156	0	%100
55	M69	X	7.566	7.566	0	%100
56	M69	Z	13.105	13.105	0	%100
57	M71	X	7.969	7.969	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,%]
58	M71	Z	13.803	13.803	0	%100
59	M76A	X	1.467	1.467	0	%100
60	M76A	Z	2.541	2.541	0	%100
61	M77A	X	3.724	3.724	0	%100
62	M77A	Z	6.451	6.451	0	%100
63	M78	X	3.724	3.724	0	%100
64	M78	Z	6.451	6.451	0	%100
65	M79A	X	7.429	7.429	0	%100
66	M79A	Z	12.867	12.867	0	%100
67	M82	X	4.125	4.125	0	%100
68	M82	Z	7.145	7.145	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	2.476	2.476	0	%100
72	M87	Z	4.289	4.289	0	%100
73	M88A	X	7.566	7.566	0	%100
74	M88A	Z	13.105	13.105	0	%100
75	M90	X	7.969	7.969	0	%100
76	M90	Z	13.803	13.803	0	%100
77	M92A	X	2.476	2.476	0	%100
78	M92A	Z	4.289	4.289	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	4.333	4.333	0	%100
86	M91B	Z	7.506	7.506	0	%100
87	MP3C	X	3.921	3.921	0	%100
88	MP3C	Z	6.791	6.791	0	%100
89	MP4C	X	4.746	4.746	0	%100
90	MP4C	Z	8.22	8.22	0	%100
91	MP2C	X	3.921	3.921	0	%100
92	MP2C	Z	6.791	6.791	0	%100
93	MP1C	X	3.921	3.921	0	%100
94	MP1C	Z	6.791	6.791	0	%100
95	MP3B	X	3.921	3.921	0	%100
96	MP3B	Z	6.791	6.791	0	%100
97	MP4B	X	4.746	4.746	0	%100
98	MP4B	Z	8.22	8.22	0	%100
99	MP2B	X	3.921	3.921	0	%100
100	MP2B	Z	6.791	6.791	0	%100
101	MP1B	X	3.921	3.921	0	%100
102	MP1B	Z	6.791	6.791	0	%100
103	M100	X	3.56	3.56	0	%100
104	M100	Z	6.165	6.165	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	3.56	3.56	0	%100
108	M106	Z	6.165	6.165	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	4.534	4.534	0	%100
112	M122	Z	7.853	7.853	0	%100
113	M123	X	4.534	4.534	0	%100
114	M123	Z	7.853	7.853	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	11.556	11.556	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	9.932	9.932	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	7.841	7.841	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	9.492	9.492	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	7.841	7.841	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	7.841	7.841	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	9.932	9.932	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	19.81	19.81	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	2.75	2.75	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	2.75	2.75	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	5.044	5.044	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	5.313	5.313	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	5.044	5.044	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	5.313	5.313	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	8.803	8.803	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	2.483	2.483	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	2.483	2.483	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	4.952	4.952	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	2.75	2.75	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	11	11	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	14.857	14.857	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	5.044	5.044	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	5.313	5.313	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	14.857	14.857	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	20.177	20.177	0	%100
57	M71	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	M71	Z	21.252	21.252	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	8.803	8.803	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	2.483	2.483	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	2.483	2.483	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	4.952	4.952	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	11	11	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	2.75	2.75	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	14.857	14.857	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	20.177	20.177	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	21.252	21.252	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	14.857	14.857	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	5.044	5.044	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	5.313	5.313	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	2.889	2.889	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	2.889	2.889	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	7.841	7.841	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	9.492	9.492	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	7.841	7.841	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	7.841	7.841	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	7.841	7.841	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	9.492	9.492	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	7.841	7.841	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	7.841	7.841	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	9.492	9.492	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	2.373	2.373	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	2.373	2.373	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	3.022	3.022	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	12.09	12.09	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	3.022	3.022	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	-4.333	-4.333	0	%100
2	M1	Z	7.506	7.506	0	%100
3	M4	X	-1.467	-1.467	0	%100
4	M4	Z	2.541	2.541	0	%100
5	M10	X	-3.724	-3.724	0	%100
6	M10	Z	6.451	6.451	0	%100
7	MP3A	X	-3.921	-3.921	0	%100
8	MP3A	Z	6.791	6.791	0	%100
9	MP4A	X	-4.746	-4.746	0	%100
10	MP4A	Z	8.22	8.22	0	%100
11	MP2A	X	-3.921	-3.921	0	%100
12	MP2A	Z	6.791	6.791	0	%100
13	MP1A	X	-3.921	-3.921	0	%100
14	MP1A	Z	6.791	6.791	0	%100
15	M43	X	-3.724	-3.724	0	%100
16	M43	Z	6.451	6.451	0	%100
17	M46	X	-7.429	-7.429	0	%100
18	M46	Z	12.867	12.867	0	%100
19	M51B	X	-4.125	-4.125	0	%100
20	M51B	Z	7.145	7.145	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-2.476	-2.476	0	%100
24	M76	Z	4.289	4.289	0	%100
25	M77	X	-7.566	-7.566	0	%100
26	M77	Z	13.105	13.105	0	%100
27	M80	X	-7.969	-7.969	0	%100
28	M80	Z	13.803	13.803	0	%100
29	M84	X	-2.476	-2.476	0	%100
30	M84	Z	4.289	4.289	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-1.467	-1.467	0	%100
36	M52A	Z	2.541	2.541	0	%100
37	M53	X	-3.724	-3.724	0	%100
38	M53	Z	6.451	6.451	0	%100
39	M54	X	-3.724	-3.724	0	%100
40	M54	Z	6.451	6.451	0	%100
41	M55	X	-7.429	-7.429	0	%100
42	M55	Z	12.867	12.867	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-4.125	-4.125	0	%100
46	M59A	Z	7.145	7.145	0	%100
47	M63	X	-2.476	-2.476	0	%100
48	M63	Z	4.289	4.289	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-2.476	-2.476	0	%100
54	M68	Z	4.289	4.289	0	%100
55	M69	X	-7.566	-7.566	0	%100
56	M69	Z	13.105	13.105	0	%100
57	M71	X	-7.969	-7.969	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,%]
58	M71	Z	13.803	13.803	0	%100
59	M76A	X	-5.869	-5.869	0	%100
60	M76A	Z	10.165	10.165	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-4.125	-4.125	0	%100
68	M82	Z	7.145	7.145	0	%100
69	M83A	X	-4.125	-4.125	0	%100
70	M83A	Z	7.145	7.145	0	%100
71	M87	X	-9.905	-9.905	0	%100
72	M87	Z	17.156	17.156	0	%100
73	M88A	X	-7.566	-7.566	0	%100
74	M88A	Z	13.105	13.105	0	%100
75	M90	X	-7.969	-7.969	0	%100
76	M90	Z	13.803	13.803	0	%100
77	M92A	X	-9.905	-9.905	0	%100
78	M92A	Z	17.156	17.156	0	%100
79	M93	X	-7.566	-7.566	0	%100
80	M93	Z	13.105	13.105	0	%100
81	M95	X	-7.969	-7.969	0	%100
82	M95	Z	13.803	13.803	0	%100
83	M82A	X	-4.333	-4.333	0	%100
84	M82A	Z	7.506	7.506	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	-3.921	-3.921	0	%100
88	MP3C	Z	6.791	6.791	0	%100
89	MP4C	X	-4.746	-4.746	0	%100
90	MP4C	Z	8.22	8.22	0	%100
91	MP2C	X	-3.921	-3.921	0	%100
92	MP2C	Z	6.791	6.791	0	%100
93	MP1C	X	-3.921	-3.921	0	%100
94	MP1C	Z	6.791	6.791	0	%100
95	MP3B	X	-3.921	-3.921	0	%100
96	MP3B	Z	6.791	6.791	0	%100
97	MP4B	X	-4.746	-4.746	0	%100
98	MP4B	Z	8.22	8.22	0	%100
99	MP2B	X	-3.921	-3.921	0	%100
100	MP2B	Z	6.791	6.791	0	%100
101	MP1B	X	-3.921	-3.921	0	%100
102	MP1B	Z	6.791	6.791	0	%100
103	M100	X	-3.56	-3.56	0	%100
104	M100	Z	6.165	6.165	0	%100
105	M105	X	-3.56	-3.56	0	%100
106	M105	Z	6.165	6.165	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	-4.534	-4.534	0	%100
110	M121	Z	7.853	7.853	0	%100
111	M122	X	-4.534	-4.534	0	%100
112	M122	Z	7.853	7.853	0	%100
113	M123	X	0	0	0	%100
114	M123	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	-2.502	-2.502	0	%100
2	M1	Z	1.444	1.444	0	%100
3	M4	X	-7.624	-7.624	0	%100
4	M4	Z	4.401	4.401	0	%100
5	M10	X	-2.15	-2.15	0	%100
6	M10	Z	1.241	1.241	0	%100
7	MP3A	X	-6.791	-6.791	0	%100
8	MP3A	Z	3.921	3.921	0	%100
9	MP4A	X	-8.22	-8.22	0	%100
10	MP4A	Z	4.746	4.746	0	%100
11	MP2A	X	-6.791	-6.791	0	%100
12	MP2A	Z	3.921	3.921	0	%100
13	MP1A	X	-6.791	-6.791	0	%100
14	MP1A	Z	3.921	3.921	0	%100
15	M43	X	-2.15	-2.15	0	%100
16	M43	Z	1.241	1.241	0	%100
17	M46	X	-4.289	-4.289	0	%100
18	M46	Z	2.476	2.476	0	%100
19	M51B	X	-9.526	-9.526	0	%100
20	M51B	Z	5.5	5.5	0	%100
21	M52B	X	-2.382	-2.382	0	%100
22	M52B	Z	1.375	1.375	0	%100
23	M76	X	-12.867	-12.867	0	%100
24	M76	Z	7.429	7.429	0	%100
25	M77	X	-17.473	-17.473	0	%100
26	M77	Z	10.088	10.088	0	%100
27	M80	X	-18.404	-18.404	0	%100
28	M80	Z	10.626	10.626	0	%100
29	M84	X	-12.867	-12.867	0	%100
30	M84	Z	7.429	7.429	0	%100
31	M85	X	-4.368	-4.368	0	%100
32	M85	Z	2.522	2.522	0	%100
33	M91	X	-4.601	-4.601	0	%100
34	M91	Z	2.656	2.656	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-8.601	-8.601	0	%100
38	M53	Z	4.966	4.966	0	%100
39	M54	X	-8.601	-8.601	0	%100
40	M54	Z	4.966	4.966	0	%100
41	M55	X	-17.156	-17.156	0	%100
42	M55	Z	9.905	9.905	0	%100
43	M58A	X	-2.382	-2.382	0	%100
44	M58A	Z	1.375	1.375	0	%100
45	M59A	X	-2.382	-2.382	0	%100
46	M59A	Z	1.375	1.375	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-4.368	-4.368	0	%100
50	M64	Z	2.522	2.522	0	%100
51	M66	X	-4.601	-4.601	0	%100
52	M66	Z	2.656	2.656	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-4.368	-4.368	0	%100
56	M69	Z	2.522	2.522	0	%100
57	M71	X	-4.601	-4.601	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	2.656	2.656	0	%100
59	M76A	X	-7.624	-7.624	0	%100
60	M76A	Z	4.401	4.401	0	%100
61	M77A	X	-2.15	-2.15	0	%100
62	M77A	Z	1.241	1.241	0	%100
63	M78	X	-2.15	-2.15	0	%100
64	M78	Z	1.241	1.241	0	%100
65	M79A	X	-4.289	-4.289	0	%100
66	M79A	Z	2.476	2.476	0	%100
67	M82	X	-2.382	-2.382	0	%100
68	M82	Z	1.375	1.375	0	%100
69	M83A	X	-9.526	-9.526	0	%100
70	M83A	Z	5.5	5.5	0	%100
71	M87	X	-12.867	-12.867	0	%100
72	M87	Z	7.429	7.429	0	%100
73	M88A	X	-4.368	-4.368	0	%100
74	M88A	Z	2.522	2.522	0	%100
75	M90	X	-4.601	-4.601	0	%100
76	M90	Z	2.656	2.656	0	%100
77	M92A	X	-12.867	-12.867	0	%100
78	M92A	Z	7.429	7.429	0	%100
79	M93	X	-17.473	-17.473	0	%100
80	M93	Z	10.088	10.088	0	%100
81	M95	X	-18.404	-18.404	0	%100
82	M95	Z	10.626	10.626	0	%100
83	M82A	X	-10.008	-10.008	0	%100
84	M82A	Z	5.778	5.778	0	%100
85	M91B	X	-2.502	-2.502	0	%100
86	M91B	Z	1.444	1.444	0	%100
87	MP3C	X	-6.791	-6.791	0	%100
88	MP3C	Z	3.921	3.921	0	%100
89	MP4C	X	-8.22	-8.22	0	%100
90	MP4C	Z	4.746	4.746	0	%100
91	MP2C	X	-6.791	-6.791	0	%100
92	MP2C	Z	3.921	3.921	0	%100
93	MP1C	X	-6.791	-6.791	0	%100
94	MP1C	Z	3.921	3.921	0	%100
95	MP3B	X	-6.791	-6.791	0	%100
96	MP3B	Z	3.921	3.921	0	%100
97	MP4B	X	-8.22	-8.22	0	%100
98	MP4B	Z	4.746	4.746	0	%100
99	MP2B	X	-6.791	-6.791	0	%100
100	MP2B	Z	3.921	3.921	0	%100
101	MP1B	X	-6.791	-6.791	0	%100
102	MP1B	Z	3.921	3.921	0	%100
103	M100	X	-2.055	-2.055	0	%100
104	M100	Z	1.187	1.187	0	%100
105	M105	X	-8.22	-8.22	0	%100
106	M105	Z	4.746	4.746	0	%100
107	M106	X	-2.055	-2.055	0	%100
108	M106	Z	1.187	1.187	0	%100
109	M121	X	-10.47	-10.47	0	%100
110	M121	Z	6.045	6.045	0	%100
111	M122	X	-2.618	-2.618	0	%100
112	M122	Z	1.511	1.511	0	%100
113	M123	X	-2.618	-2.618	0	%100
114	M123	Z	1.511	1.511	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-11.737	-11.737	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-7.841	-7.841	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-9.492	-9.492	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-7.841	-7.841	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-7.841	-7.841	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-8.25	-8.25	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-8.25	-8.25	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-19.81	-19.81	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-15.132	-15.132	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-15.939	-15.939	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-19.81	-19.81	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-15.132	-15.132	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-15.939	-15.939	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-2.934	-2.934	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-7.449	-7.449	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-7.449	-7.449	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-14.857	-14.857	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-8.25	-8.25	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-4.952	-4.952	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-15.132	-15.132	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-15.939	-15.939	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-4.952	-4.952	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	-2.934	-2.934	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-7.449	-7.449	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-7.449	-7.449	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-14.857	-14.857	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-8.25	-8.25	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-4.952	-4.952	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-4.952	-4.952	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-15.132	-15.132	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-15.939	-15.939	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-8.667	-8.667	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-8.667	-8.667	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	-7.841	-7.841	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-9.492	-9.492	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-7.841	-7.841	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-7.841	-7.841	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3B	X	-7.841	-7.841	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-9.492	-9.492	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-7.841	-7.841	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-7.841	-7.841	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-7.119	-7.119	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	-7.119	-7.119	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	-9.067	-9.067	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-9.067	-9.067	0	%100
114	M123	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	-2.502	-2.502	0	%100
2	M1	Z	-1.444	-1.444	0	%100
3	M4	X	-7.624	-7.624	0	%100
4	M4	Z	-4.401	-4.401	0	%100
5	M10	X	-2.15	-2.15	0	%100
6	M10	Z	-1.241	-1.241	0	%100
7	MP3A	X	-6.791	-6.791	0	%100
8	MP3A	Z	-3.921	-3.921	0	%100
9	MP4A	X	-8.22	-8.22	0	%100
10	MP4A	Z	-4.746	-4.746	0	%100
11	MP2A	X	-6.791	-6.791	0	%100
12	MP2A	Z	-3.921	-3.921	0	%100
13	MP1A	X	-6.791	-6.791	0	%100
14	MP1A	Z	-3.921	-3.921	0	%100
15	M43	X	-2.15	-2.15	0	%100
16	M43	Z	-1.241	-1.241	0	%100
17	M46	X	-4.289	-4.289	0	%100
18	M46	Z	-2.476	-2.476	0	%100
19	M51B	X	-2.382	-2.382	0	%100
20	M51B	Z	-1.375	-1.375	0	%100
21	M52B	X	-9.526	-9.526	0	%100
22	M52B	Z	-5.5	-5.5	0	%100
23	M76	X	-12.867	-12.867	0	%100
24	M76	Z	-7.429	-7.429	0	%100
25	M77	X	-4.368	-4.368	0	%100
26	M77	Z	-2.522	-2.522	0	%100
27	M80	X	-4.601	-4.601	0	%100
28	M80	Z	-2.656	-2.656	0	%100
29	M84	X	-12.867	-12.867	0	%100
30	M84	Z	-7.429	-7.429	0	%100
31	M85	X	-17.473	-17.473	0	%100
32	M85	Z	-10.088	-10.088	0	%100
33	M91	X	-18.404	-18.404	0	%100
34	M91	Z	-10.626	-10.626	0	%100
35	M52A	X	-7.624	-7.624	0	%100
36	M52A	Z	-4.401	-4.401	0	%100
37	M53	X	-2.15	-2.15	0	%100
38	M53	Z	-1.241	-1.241	0	%100
39	M54	X	-2.15	-2.15	0	%100
40	M54	Z	-1.241	-1.241	0	%100
41	M55	X	-4.289	-4.289	0	%100
42	M55	Z	-2.476	-2.476	0	%100
43	M58A	X	-9.526	-9.526	0	%100
44	M58A	Z	-5.5	-5.5	0	%100
45	M59A	X	-2.382	-2.382	0	%100
46	M59A	Z	-1.375	-1.375	0	%100
47	M63	X	-12.867	-12.867	0	%100
48	M63	Z	-7.429	-7.429	0	%100
49	M64	X	-17.473	-17.473	0	%100
50	M64	Z	-10.088	-10.088	0	%100
51	M66	X	-18.404	-18.404	0	%100
52	M66	Z	-10.626	-10.626	0	%100
53	M68	X	-12.867	-12.867	0	%100
54	M68	Z	-7.429	-7.429	0	%100
55	M69	X	-4.368	-4.368	0	%100
56	M69	Z	-2.522	-2.522	0	%100
57	M71	X	-4.601	-4.601	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,%]
58	M71	Z	-2.656	-2.656	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-8.601	-8.601	0	%100
62	M77A	Z	-4.966	-4.966	0	%100
63	M78	X	-8.601	-8.601	0	%100
64	M78	Z	-4.966	-4.966	0	%100
65	M79A	X	-17.156	-17.156	0	%100
66	M79A	Z	-9.905	-9.905	0	%100
67	M82	X	-2.382	-2.382	0	%100
68	M82	Z	-1.375	-1.375	0	%100
69	M83A	X	-2.382	-2.382	0	%100
70	M83A	Z	-1.375	-1.375	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-4.368	-4.368	0	%100
74	M88A	Z	-2.522	-2.522	0	%100
75	M90	X	-4.601	-4.601	0	%100
76	M90	Z	-2.656	-2.656	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-4.368	-4.368	0	%100
80	M93	Z	-2.522	-2.522	0	%100
81	M95	X	-4.601	-4.601	0	%100
82	M95	Z	-2.656	-2.656	0	%100
83	M82A	X	-2.502	-2.502	0	%100
84	M82A	Z	-1.444	-1.444	0	%100
85	M91B	X	-10.008	-10.008	0	%100
86	M91B	Z	-5.778	-5.778	0	%100
87	MP3C	X	-6.791	-6.791	0	%100
88	MP3C	Z	-3.921	-3.921	0	%100
89	MP4C	X	-8.22	-8.22	0	%100
90	MP4C	Z	-4.746	-4.746	0	%100
91	MP2C	X	-6.791	-6.791	0	%100
92	MP2C	Z	-3.921	-3.921	0	%100
93	MP1C	X	-6.791	-6.791	0	%100
94	MP1C	Z	-3.921	-3.921	0	%100
95	MP3B	X	-6.791	-6.791	0	%100
96	MP3B	Z	-3.921	-3.921	0	%100
97	MP4B	X	-8.22	-8.22	0	%100
98	MP4B	Z	-4.746	-4.746	0	%100
99	MP2B	X	-6.791	-6.791	0	%100
100	MP2B	Z	-3.921	-3.921	0	%100
101	MP1B	X	-6.791	-6.791	0	%100
102	MP1B	Z	-3.921	-3.921	0	%100
103	M100	X	-2.055	-2.055	0	%100
104	M100	Z	-1.187	-1.187	0	%100
105	M105	X	-2.055	-2.055	0	%100
106	M105	Z	-1.187	-1.187	0	%100
107	M106	X	-8.22	-8.22	0	%100
108	M106	Z	-4.746	-4.746	0	%100
109	M121	X	-2.618	-2.618	0	%100
110	M121	Z	-1.511	-1.511	0	%100
111	M122	X	-2.618	-2.618	0	%100
112	M122	Z	-1.511	-1.511	0	%100
113	M123	X	-10.47	-10.47	0	%100
114	M123	Z	-6.045	-6.045	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	-4.333	-4.333	0	%100
2	M1	Z	-7.506	-7.506	0	%100
3	M4	X	-1.467	-1.467	0	%100
4	M4	Z	-2.541	-2.541	0	%100
5	M10	X	-3.724	-3.724	0	%100
6	M10	Z	-6.451	-6.451	0	%100
7	MP3A	X	-3.921	-3.921	0	%100
8	MP3A	Z	-6.791	-6.791	0	%100
9	MP4A	X	-4.746	-4.746	0	%100
10	MP4A	Z	-8.22	-8.22	0	%100
11	MP2A	X	-3.921	-3.921	0	%100
12	MP2A	Z	-6.791	-6.791	0	%100
13	MP1A	X	-3.921	-3.921	0	%100
14	MP1A	Z	-6.791	-6.791	0	%100
15	M43	X	-3.724	-3.724	0	%100
16	M43	Z	-6.451	-6.451	0	%100
17	M46	X	-7.429	-7.429	0	%100
18	M46	Z	-12.867	-12.867	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-4.125	-4.125	0	%100
22	M52B	Z	-7.145	-7.145	0	%100
23	M76	X	-2.476	-2.476	0	%100
24	M76	Z	-4.289	-4.289	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-2.476	-2.476	0	%100
30	M84	Z	-4.289	-4.289	0	%100
31	M85	X	-7.566	-7.566	0	%100
32	M85	Z	-13.105	-13.105	0	%100
33	M91	X	-7.969	-7.969	0	%100
34	M91	Z	-13.803	-13.803	0	%100
35	M52A	X	-5.869	-5.869	0	%100
36	M52A	Z	-10.165	-10.165	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-4.125	-4.125	0	%100
44	M58A	Z	-7.145	-7.145	0	%100
45	M59A	X	-4.125	-4.125	0	%100
46	M59A	Z	-7.145	-7.145	0	%100
47	M63	X	-9.905	-9.905	0	%100
48	M63	Z	-17.156	-17.156	0	%100
49	M64	X	-7.566	-7.566	0	%100
50	M64	Z	-13.105	-13.105	0	%100
51	M66	X	-7.969	-7.969	0	%100
52	M66	Z	-13.803	-13.803	0	%100
53	M68	X	-9.905	-9.905	0	%100
54	M68	Z	-17.156	-17.156	0	%100
55	M69	X	-7.566	-7.566	0	%100
56	M69	Z	-13.105	-13.105	0	%100
57	M71	X	-7.969	-7.969	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,%]
58	M71	Z	-13.803	-13.803	0	%100
59	M76A	X	-1.467	-1.467	0	%100
60	M76A	Z	-2.541	-2.541	0	%100
61	M77A	X	-3.724	-3.724	0	%100
62	M77A	Z	-6.451	-6.451	0	%100
63	M78	X	-3.724	-3.724	0	%100
64	M78	Z	-6.451	-6.451	0	%100
65	M79A	X	-7.429	-7.429	0	%100
66	M79A	Z	-12.867	-12.867	0	%100
67	M82	X	-4.125	-4.125	0	%100
68	M82	Z	-7.145	-7.145	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-2.476	-2.476	0	%100
72	M87	Z	-4.289	-4.289	0	%100
73	M88A	X	-7.566	-7.566	0	%100
74	M88A	Z	-13.105	-13.105	0	%100
75	M90	X	-7.969	-7.969	0	%100
76	M90	Z	-13.803	-13.803	0	%100
77	M92A	X	-2.476	-2.476	0	%100
78	M92A	Z	-4.289	-4.289	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-4.333	-4.333	0	%100
86	M91B	Z	-7.506	-7.506	0	%100
87	MP3C	X	-3.921	-3.921	0	%100
88	MP3C	Z	-6.791	-6.791	0	%100
89	MP4C	X	-4.746	-4.746	0	%100
90	MP4C	Z	-8.22	-8.22	0	%100
91	MP2C	X	-3.921	-3.921	0	%100
92	MP2C	Z	-6.791	-6.791	0	%100
93	MP1C	X	-3.921	-3.921	0	%100
94	MP1C	Z	-6.791	-6.791	0	%100
95	MP3B	X	-3.921	-3.921	0	%100
96	MP3B	Z	-6.791	-6.791	0	%100
97	MP4B	X	-4.746	-4.746	0	%100
98	MP4B	Z	-8.22	-8.22	0	%100
99	MP2B	X	-3.921	-3.921	0	%100
100	MP2B	Z	-6.791	-6.791	0	%100
101	MP1B	X	-3.921	-3.921	0	%100
102	MP1B	Z	-6.791	-6.791	0	%100
103	M100	X	-3.56	-3.56	0	%100
104	M100	Z	-6.165	-6.165	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	-3.56	-3.56	0	%100
108	M106	Z	-6.165	-6.165	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-4.534	-4.534	0	%100
112	M122	Z	-7.853	-7.853	0	%100
113	M123	X	-4.534	-4.534	0	%100
114	M123	Z	-7.853	-7.853	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	-3.192	-3.192	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-2.633	-2.633	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-2.568	-2.568	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-2.845	-2.845	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-2.568	-2.568	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-2.568	-2.568	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-2.633	-2.633	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-4.126	-4.126	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.758	-.758	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-.758	-.758	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-1.03	-1.03	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-1.075	-1.075	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-1.03	-1.03	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-1.075	-1.075	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-2.417	-2.417	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-.658	-.658	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-.658	-.658	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-1.032	-1.032	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-.758	-.758	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-3.032	-3.032	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-3.043	-3.043	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	-1.03	-1.03	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-1.075	-1.075	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-3.043	-3.043	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-4.119	-4.119	0	%100
57	M71	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	M71	Z	-4.299	-4.299	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	-2.417	-2.417	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-.658	-.658	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-.658	-.658	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-1.032	-1.032	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-3.032	-3.032	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	-.758	-.758	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-3.043	-3.043	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-4.119	-4.119	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-4.299	-4.299	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-3.043	-3.043	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	-1.03	-1.03	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-1.075	-1.075	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-.798	-.798	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	-.798	-.798	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-2.568	-2.568	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-2.845	-2.845	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-2.568	-2.568	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-2.568	-2.568	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	-2.568	-2.568	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-2.845	-2.845	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-2.568	-2.568	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-2.568	-2.568	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	-2.845	-2.845	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	-.711	-.711	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	-.711	-.711	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-.745	-.745	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-2.978	-2.978	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	-.745	-.745	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	1.197	1.197	0	%100
2	M1	Z	-2.073	-2.073	0	%100
3	M4	X	.403	.403	0	%100
4	M4	Z	-.698	-.698	0	%100
5	M10	X	.987	.987	0	%100
6	M10	Z	-1.71	-1.71	0	%100
7	MP3A	X	1.284	1.284	0	%100
8	MP3A	Z	-2.224	-2.224	0	%100
9	MP4A	X	1.423	1.423	0	%100
10	MP4A	Z	-2.464	-2.464	0	%100
11	MP2A	X	1.284	1.284	0	%100
12	MP2A	Z	-2.224	-2.224	0	%100
13	MP1A	X	1.284	1.284	0	%100
14	MP1A	Z	-2.224	-2.224	0	%100
15	M43	X	.987	.987	0	%100
16	M43	Z	-1.71	-1.71	0	%100
17	M46	X	1.547	1.547	0	%100
18	M46	Z	-2.68	-2.68	0	%100
19	M51B	X	1.137	1.137	0	%100
20	M51B	Z	-1.97	-1.97	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.507	.507	0	%100
24	M76	Z	-.878	-.878	0	%100
25	M77	X	1.545	1.545	0	%100
26	M77	Z	-2.675	-2.675	0	%100
27	M80	X	1.612	1.612	0	%100
28	M80	Z	-2.792	-2.792	0	%100
29	M84	X	.507	.507	0	%100
30	M84	Z	-.878	-.878	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.403	.403	0	%100
36	M52A	Z	-.698	-.698	0	%100
37	M53	X	.987	.987	0	%100
38	M53	Z	-1.71	-1.71	0	%100
39	M54	X	.987	.987	0	%100
40	M54	Z	-1.71	-1.71	0	%100
41	M55	X	1.547	1.547	0	%100
42	M55	Z	-2.68	-2.68	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	1.137	1.137	0	%100
46	M59A	Z	-1.97	-1.97	0	%100
47	M63	X	.507	.507	0	%100
48	M63	Z	-.878	-.878	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.507	.507	0	%100
54	M68	Z	-.878	-.878	0	%100
55	M69	X	1.545	1.545	0	%100
56	M69	Z	-2.675	-2.675	0	%100
57	M71	X	1.612	1.612	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-2.792	-2.792	0	%100
59	M76A	X	1.611	1.611	0	%100
60	M76A	Z	-2.791	-2.791	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	1.137	1.137	0	%100
68	M82	Z	-1.97	-1.97	0	%100
69	M83A	X	1.137	1.137	0	%100
70	M83A	Z	-1.97	-1.97	0	%100
71	M87	X	2.029	2.029	0	%100
72	M87	Z	-3.514	-3.514	0	%100
73	M88A	X	1.545	1.545	0	%100
74	M88A	Z	-2.675	-2.675	0	%100
75	M90	X	1.612	1.612	0	%100
76	M90	Z	-2.792	-2.792	0	%100
77	M92A	X	2.029	2.029	0	%100
78	M92A	Z	-3.514	-3.514	0	%100
79	M93	X	1.545	1.545	0	%100
80	M93	Z	-2.675	-2.675	0	%100
81	M95	X	1.612	1.612	0	%100
82	M95	Z	-2.792	-2.792	0	%100
83	M82A	X	1.197	1.197	0	%100
84	M82A	Z	-2.073	-2.073	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	1.284	1.284	0	%100
88	MP3C	Z	-2.224	-2.224	0	%100
89	MP4C	X	1.423	1.423	0	%100
90	MP4C	Z	-2.464	-2.464	0	%100
91	MP2C	X	1.284	1.284	0	%100
92	MP2C	Z	-2.224	-2.224	0	%100
93	MP1C	X	1.284	1.284	0	%100
94	MP1C	Z	-2.224	-2.224	0	%100
95	MP3B	X	1.284	1.284	0	%100
96	MP3B	Z	-2.224	-2.224	0	%100
97	MP4B	X	1.423	1.423	0	%100
98	MP4B	Z	-2.464	-2.464	0	%100
99	MP2B	X	1.284	1.284	0	%100
100	MP2B	Z	-2.224	-2.224	0	%100
101	MP1B	X	1.284	1.284	0	%100
102	MP1B	Z	-2.224	-2.224	0	%100
103	M100	X	1.067	1.067	0	%100
104	M100	Z	-1.848	-1.848	0	%100
105	M105	X	1.067	1.067	0	%100
106	M105	Z	-1.848	-1.848	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	1.117	1.117	0	%100
110	M121	Z	-1.934	-1.934	0	%100
111	M122	X	1.117	1.117	0	%100
112	M122	Z	-1.934	-1.934	0	%100
113	M123	X	0	0	0	%100
114	M123	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	.691	.691	0	%100
2	M1	Z	-.399	-.399	0	%100
3	M4	X	2.093	2.093	0	%100
4	M4	Z	-1.208	-1.208	0	%100
5	M10	X	.57	.57	0	%100
6	M10	Z	-.329	-.329	0	%100
7	MP3A	X	2.224	2.224	0	%100
8	MP3A	Z	-1.284	-1.284	0	%100
9	MP4A	X	2.464	2.464	0	%100
10	MP4A	Z	-1.423	-1.423	0	%100
11	MP2A	X	2.224	2.224	0	%100
12	MP2A	Z	-1.284	-1.284	0	%100
13	MP1A	X	2.224	2.224	0	%100
14	MP1A	Z	-1.284	-1.284	0	%100
15	M43	X	.57	.57	0	%100
16	M43	Z	-.329	-.329	0	%100
17	M46	X	.893	.893	0	%100
18	M46	Z	-.516	-.516	0	%100
19	M51B	X	2.626	2.626	0	%100
20	M51B	Z	-1.516	-1.516	0	%100
21	M52B	X	.657	.657	0	%100
22	M52B	Z	-.379	-.379	0	%100
23	M76	X	2.635	2.635	0	%100
24	M76	Z	-1.521	-1.521	0	%100
25	M77	X	3.567	3.567	0	%100
26	M77	Z	-2.059	-2.059	0	%100
27	M80	X	3.723	3.723	0	%100
28	M80	Z	-2.15	-2.15	0	%100
29	M84	X	2.635	2.635	0	%100
30	M84	Z	-1.521	-1.521	0	%100
31	M85	X	.892	.892	0	%100
32	M85	Z	-.515	-.515	0	%100
33	M91	X	.931	.931	0	%100
34	M91	Z	-.537	-.537	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	2.28	2.28	0	%100
38	M53	Z	-1.316	-1.316	0	%100
39	M54	X	2.28	2.28	0	%100
40	M54	Z	-1.316	-1.316	0	%100
41	M55	X	3.573	3.573	0	%100
42	M55	Z	-2.063	-2.063	0	%100
43	M58A	X	.657	.657	0	%100
44	M58A	Z	-.379	-.379	0	%100
45	M59A	X	.657	.657	0	%100
46	M59A	Z	-.379	-.379	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	.892	.892	0	%100
50	M64	Z	-.515	-.515	0	%100
51	M66	X	.931	.931	0	%100
52	M66	Z	-.537	-.537	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	.892	.892	0	%100
56	M69	Z	-.515	-.515	0	%100
57	M71	X	.931	.931	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,%]
58	M71	Z	-.537	-.537	0	%100
59	M76A	X	2.093	2.093	0	%100
60	M76A	Z	-1.208	-1.208	0	%100
61	M77A	X	.57	.57	0	%100
62	M77A	Z	-.329	-.329	0	%100
63	M78	X	.57	.57	0	%100
64	M78	Z	-.329	-.329	0	%100
65	M79A	X	.893	.893	0	%100
66	M79A	Z	-.516	-.516	0	%100
67	M82	X	.657	.657	0	%100
68	M82	Z	-.379	-.379	0	%100
69	M83A	X	2.626	2.626	0	%100
70	M83A	Z	-1.516	-1.516	0	%100
71	M87	X	2.635	2.635	0	%100
72	M87	Z	-1.521	-1.521	0	%100
73	M88A	X	.892	.892	0	%100
74	M88A	Z	-.515	-.515	0	%100
75	M90	X	.931	.931	0	%100
76	M90	Z	-.537	-.537	0	%100
77	M92A	X	2.635	2.635	0	%100
78	M92A	Z	-1.521	-1.521	0	%100
79	M93	X	3.567	3.567	0	%100
80	M93	Z	-2.059	-2.059	0	%100
81	M95	X	3.723	3.723	0	%100
82	M95	Z	-2.15	-2.15	0	%100
83	M82A	X	2.764	2.764	0	%100
84	M82A	Z	-1.596	-1.596	0	%100
85	M91B	X	.691	.691	0	%100
86	M91B	Z	-.399	-.399	0	%100
87	MP3C	X	2.224	2.224	0	%100
88	MP3C	Z	-1.284	-1.284	0	%100
89	MP4C	X	2.464	2.464	0	%100
90	MP4C	Z	-1.423	-1.423	0	%100
91	MP2C	X	2.224	2.224	0	%100
92	MP2C	Z	-1.284	-1.284	0	%100
93	MP1C	X	2.224	2.224	0	%100
94	MP1C	Z	-1.284	-1.284	0	%100
95	MP3B	X	2.224	2.224	0	%100
96	MP3B	Z	-1.284	-1.284	0	%100
97	MP4B	X	2.464	2.464	0	%100
98	MP4B	Z	-1.423	-1.423	0	%100
99	MP2B	X	2.224	2.224	0	%100
100	MP2B	Z	-1.284	-1.284	0	%100
101	MP1B	X	2.224	2.224	0	%100
102	MP1B	Z	-1.284	-1.284	0	%100
103	M100	X	.616	.616	0	%100
104	M100	Z	-.356	-.356	0	%100
105	M105	X	2.464	2.464	0	%100
106	M105	Z	-1.423	-1.423	0	%100
107	M106	X	.616	.616	0	%100
108	M106	Z	-.356	-.356	0	%100
109	M121	X	2.579	2.579	0	%100
110	M121	Z	-1.489	-1.489	0	%100
111	M122	X	.645	.645	0	%100
112	M122	Z	-.372	-.372	0	%100
113	M123	X	.645	.645	0	%100
114	M123	Z	-.372	-.372	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	3.222	3.222	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	2.568	2.568	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	2.845	2.845	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	2.568	2.568	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	2.568	2.568	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	2.274	2.274	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	2.274	2.274	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	4.057	4.057	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	3.089	3.089	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	3.224	3.224	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	4.057	4.057	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	3.089	3.089	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	3.224	3.224	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.806	.806	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	1.975	1.975	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	1.975	1.975	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	3.095	3.095	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	2.274	2.274	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	1.014	1.014	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	3.089	3.089	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	3.224	3.224	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	1.014	1.014	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	.806	.806	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	1.975	1.975	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	1.975	1.975	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	3.095	3.095	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	2.274	2.274	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	1.014	1.014	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	1.014	1.014	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	3.089	3.089	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	3.224	3.224	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	2.394	2.394	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	2.394	2.394	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	2.568	2.568	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	2.845	2.845	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	2.568	2.568	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	2.568	2.568	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3B	X	2.568	2.568	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	2.845	2.845	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	2.568	2.568	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	2.568	2.568	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	2.134	2.134	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	2.134	2.134	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	2.234	2.234	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	2.234	2.234	0	%100
114	M123	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	.691	.691	0	%100
2	M1	Z	.399	.399	0	%100
3	M4	X	2.093	2.093	0	%100
4	M4	Z	1.208	1.208	0	%100
5	M10	X	.57	.57	0	%100
6	M10	Z	.329	.329	0	%100
7	MP3A	X	2.224	2.224	0	%100
8	MP3A	Z	1.284	1.284	0	%100
9	MP4A	X	2.464	2.464	0	%100
10	MP4A	Z	1.423	1.423	0	%100
11	MP2A	X	2.224	2.224	0	%100
12	MP2A	Z	1.284	1.284	0	%100
13	MP1A	X	2.224	2.224	0	%100
14	MP1A	Z	1.284	1.284	0	%100
15	M43	X	.57	.57	0	%100
16	M43	Z	.329	.329	0	%100
17	M46	X	.893	.893	0	%100
18	M46	Z	.516	.516	0	%100
19	M51B	X	.657	.657	0	%100
20	M51B	Z	.379	.379	0	%100
21	M52B	X	2.626	2.626	0	%100
22	M52B	Z	1.516	1.516	0	%100
23	M76	X	2.635	2.635	0	%100
24	M76	Z	1.521	1.521	0	%100
25	M77	X	.892	.892	0	%100
26	M77	Z	.515	.515	0	%100
27	M80	X	.931	.931	0	%100
28	M80	Z	.537	.537	0	%100
29	M84	X	2.635	2.635	0	%100
30	M84	Z	1.521	1.521	0	%100
31	M85	X	3.567	3.567	0	%100
32	M85	Z	2.059	2.059	0	%100
33	M91	X	3.723	3.723	0	%100
34	M91	Z	2.15	2.15	0	%100
35	M52A	X	2.093	2.093	0	%100
36	M52A	Z	1.208	1.208	0	%100
37	M53	X	.57	.57	0	%100
38	M53	Z	.329	.329	0	%100
39	M54	X	.57	.57	0	%100
40	M54	Z	.329	.329	0	%100
41	M55	X	.893	.893	0	%100
42	M55	Z	.516	.516	0	%100
43	M58A	X	2.626	2.626	0	%100
44	M58A	Z	1.516	1.516	0	%100
45	M59A	X	.657	.657	0	%100
46	M59A	Z	.379	.379	0	%100
47	M63	X	2.635	2.635	0	%100
48	M63	Z	1.521	1.521	0	%100
49	M64	X	3.567	3.567	0	%100
50	M64	Z	2.059	2.059	0	%100
51	M66	X	3.723	3.723	0	%100
52	M66	Z	2.15	2.15	0	%100
53	M68	X	2.635	2.635	0	%100
54	M68	Z	1.521	1.521	0	%100
55	M69	X	.892	.892	0	%100
56	M69	Z	.515	.515	0	%100
57	M71	X	.931	.931	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,%]
58	M71	Z	.537	.537	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	2.28	2.28	0	%100
62	M77A	Z	1.316	1.316	0	%100
63	M78	X	2.28	2.28	0	%100
64	M78	Z	1.316	1.316	0	%100
65	M79A	X	3.573	3.573	0	%100
66	M79A	Z	2.063	2.063	0	%100
67	M82	X	.657	.657	0	%100
68	M82	Z	.379	.379	0	%100
69	M83A	X	.657	.657	0	%100
70	M83A	Z	.379	.379	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	.892	.892	0	%100
74	M88A	Z	.515	.515	0	%100
75	M90	X	.931	.931	0	%100
76	M90	Z	.537	.537	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	.892	.892	0	%100
80	M93	Z	.515	.515	0	%100
81	M95	X	.931	.931	0	%100
82	M95	Z	.537	.537	0	%100
83	M82A	X	.691	.691	0	%100
84	M82A	Z	.399	.399	0	%100
85	M91B	X	2.764	2.764	0	%100
86	M91B	Z	1.596	1.596	0	%100
87	MP3C	X	2.224	2.224	0	%100
88	MP3C	Z	1.284	1.284	0	%100
89	MP4C	X	2.464	2.464	0	%100
90	MP4C	Z	1.423	1.423	0	%100
91	MP2C	X	2.224	2.224	0	%100
92	MP2C	Z	1.284	1.284	0	%100
93	MP1C	X	2.224	2.224	0	%100
94	MP1C	Z	1.284	1.284	0	%100
95	MP3B	X	2.224	2.224	0	%100
96	MP3B	Z	1.284	1.284	0	%100
97	MP4B	X	2.464	2.464	0	%100
98	MP4B	Z	1.423	1.423	0	%100
99	MP2B	X	2.224	2.224	0	%100
100	MP2B	Z	1.284	1.284	0	%100
101	MP1B	X	2.224	2.224	0	%100
102	MP1B	Z	1.284	1.284	0	%100
103	M100	X	.616	.616	0	%100
104	M100	Z	.356	.356	0	%100
105	M105	X	.616	.616	0	%100
106	M105	Z	.356	.356	0	%100
107	M106	X	2.464	2.464	0	%100
108	M106	Z	1.423	1.423	0	%100
109	M121	X	.645	.645	0	%100
110	M121	Z	.372	.372	0	%100
111	M122	X	.645	.645	0	%100
112	M122	Z	.372	.372	0	%100
113	M123	X	2.579	2.579	0	%100
114	M123	Z	1.489	1.489	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	1.197	1.197	0	%100
2	M1	Z	2.073	2.073	0	%100
3	M4	X	.403	.403	0	%100
4	M4	Z	.698	.698	0	%100
5	M10	X	.987	.987	0	%100
6	M10	Z	1.71	1.71	0	%100
7	MP3A	X	1.284	1.284	0	%100
8	MP3A	Z	2.224	2.224	0	%100
9	MP4A	X	1.423	1.423	0	%100
10	MP4A	Z	2.464	2.464	0	%100
11	MP2A	X	1.284	1.284	0	%100
12	MP2A	Z	2.224	2.224	0	%100
13	MP1A	X	1.284	1.284	0	%100
14	MP1A	Z	2.224	2.224	0	%100
15	M43	X	.987	.987	0	%100
16	M43	Z	1.71	1.71	0	%100
17	M46	X	1.547	1.547	0	%100
18	M46	Z	2.68	2.68	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	1.137	1.137	0	%100
22	M52B	Z	1.97	1.97	0	%100
23	M76	X	.507	.507	0	%100
24	M76	Z	.878	.878	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.507	.507	0	%100
30	M84	Z	.878	.878	0	%100
31	M85	X	1.545	1.545	0	%100
32	M85	Z	2.675	2.675	0	%100
33	M91	X	1.612	1.612	0	%100
34	M91	Z	2.792	2.792	0	%100
35	M52A	X	1.611	1.611	0	%100
36	M52A	Z	2.791	2.791	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	1.137	1.137	0	%100
44	M58A	Z	1.97	1.97	0	%100
45	M59A	X	1.137	1.137	0	%100
46	M59A	Z	1.97	1.97	0	%100
47	M63	X	2.029	2.029	0	%100
48	M63	Z	3.514	3.514	0	%100
49	M64	X	1.545	1.545	0	%100
50	M64	Z	2.675	2.675	0	%100
51	M66	X	1.612	1.612	0	%100
52	M66	Z	2.792	2.792	0	%100
53	M68	X	2.029	2.029	0	%100
54	M68	Z	3.514	3.514	0	%100
55	M69	X	1.545	1.545	0	%100
56	M69	Z	2.675	2.675	0	%100
57	M71	X	1.612	1.612	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,%]
58	M71	Z	2.792	2.792	0	%100
59	M76A	X	.403	.403	0	%100
60	M76A	Z	.698	.698	0	%100
61	M77A	X	.987	.987	0	%100
62	M77A	Z	1.71	1.71	0	%100
63	M78	X	.987	.987	0	%100
64	M78	Z	1.71	1.71	0	%100
65	M79A	X	1.547	1.547	0	%100
66	M79A	Z	2.68	2.68	0	%100
67	M82	X	1.137	1.137	0	%100
68	M82	Z	1.97	1.97	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.507	.507	0	%100
72	M87	Z	.878	.878	0	%100
73	M88A	X	1.545	1.545	0	%100
74	M88A	Z	2.675	2.675	0	%100
75	M90	X	1.612	1.612	0	%100
76	M90	Z	2.792	2.792	0	%100
77	M92A	X	.507	.507	0	%100
78	M92A	Z	.878	.878	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	1.197	1.197	0	%100
86	M91B	Z	2.073	2.073	0	%100
87	MP3C	X	1.284	1.284	0	%100
88	MP3C	Z	2.224	2.224	0	%100
89	MP4C	X	1.423	1.423	0	%100
90	MP4C	Z	2.464	2.464	0	%100
91	MP2C	X	1.284	1.284	0	%100
92	MP2C	Z	2.224	2.224	0	%100
93	MP1C	X	1.284	1.284	0	%100
94	MP1C	Z	2.224	2.224	0	%100
95	MP3B	X	1.284	1.284	0	%100
96	MP3B	Z	2.224	2.224	0	%100
97	MP4B	X	1.423	1.423	0	%100
98	MP4B	Z	2.464	2.464	0	%100
99	MP2B	X	1.284	1.284	0	%100
100	MP2B	Z	2.224	2.224	0	%100
101	MP1B	X	1.284	1.284	0	%100
102	MP1B	Z	2.224	2.224	0	%100
103	M100	X	1.067	1.067	0	%100
104	M100	Z	1.848	1.848	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	1.067	1.067	0	%100
108	M106	Z	1.848	1.848	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	1.117	1.117	0	%100
112	M122	Z	1.934	1.934	0	%100
113	M123	X	1.117	1.117	0	%100
114	M123	Z	1.934	1.934	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	3.192	3.192	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	2.633	2.633	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	2.568	2.568	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	2.845	2.845	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	2.568	2.568	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	2.568	2.568	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	2.633	2.633	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	4.126	4.126	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.758	.758	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.758	.758	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	1.03	1.03	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	1.075	1.075	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	1.03	1.03	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	1.075	1.075	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	2.417	2.417	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	.658	.658	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	.658	.658	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	1.032	1.032	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	.758	.758	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	3.032	3.032	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	3.043	3.043	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	1.03	1.03	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	1.075	1.075	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	3.043	3.043	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	4.119	4.119	0	%100
57	M71	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	M71	Z	4.299	4.299	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	2.417	2.417	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	.658	.658	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	.658	.658	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	1.032	1.032	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	3.032	3.032	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	.758	.758	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	3.043	3.043	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	4.119	4.119	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	4.299	4.299	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	3.043	3.043	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	1.03	1.03	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	1.075	1.075	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	.798	.798	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	.798	.798	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	2.568	2.568	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	2.845	2.845	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	2.568	2.568	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	2.568	2.568	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	2.568	2.568	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	2.845	2.845	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	2.568	2.568	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	2.568	2.568	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	2.845	2.845	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	.711	.711	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	.711	.711	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	.745	.745	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	2.978	2.978	0	%100
113	M123	X	0	0	0	%100
114	M123	Z	.745	.745	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	-1.197	-1.197	0	%100
2	M1	Z	2.073	2.073	0	%100
3	M4	X	-.403	-.403	0	%100
4	M4	Z	.698	.698	0	%100
5	M10	X	-.987	-.987	0	%100
6	M10	Z	1.71	1.71	0	%100
7	MP3A	X	-1.284	-1.284	0	%100
8	MP3A	Z	2.224	2.224	0	%100
9	MP4A	X	-1.423	-1.423	0	%100
10	MP4A	Z	2.464	2.464	0	%100
11	MP2A	X	-1.284	-1.284	0	%100
12	MP2A	Z	2.224	2.224	0	%100
13	MP1A	X	-1.284	-1.284	0	%100
14	MP1A	Z	2.224	2.224	0	%100
15	M43	X	-.987	-.987	0	%100
16	M43	Z	1.71	1.71	0	%100
17	M46	X	-1.547	-1.547	0	%100
18	M46	Z	2.68	2.68	0	%100
19	M51B	X	-1.137	-1.137	0	%100
20	M51B	Z	1.97	1.97	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.507	-.507	0	%100
24	M76	Z	.878	.878	0	%100
25	M77	X	-1.545	-1.545	0	%100
26	M77	Z	2.675	2.675	0	%100
27	M80	X	-1.612	-1.612	0	%100
28	M80	Z	2.792	2.792	0	%100
29	M84	X	-.507	-.507	0	%100
30	M84	Z	.878	.878	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.403	-.403	0	%100
36	M52A	Z	.698	.698	0	%100
37	M53	X	-.987	-.987	0	%100
38	M53	Z	1.71	1.71	0	%100
39	M54	X	-.987	-.987	0	%100
40	M54	Z	1.71	1.71	0	%100
41	M55	X	-1.547	-1.547	0	%100
42	M55	Z	2.68	2.68	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-1.137	-1.137	0	%100
46	M59A	Z	1.97	1.97	0	%100
47	M63	X	-.507	-.507	0	%100
48	M63	Z	.878	.878	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.507	-.507	0	%100
54	M68	Z	.878	.878	0	%100
55	M69	X	-1.545	-1.545	0	%100
56	M69	Z	2.675	2.675	0	%100
57	M71	X	-1.612	-1.612	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,%]
58	M71	Z	2.792	2.792	0	%100
59	M76A	X	-1.611	-1.611	0	%100
60	M76A	Z	2.791	2.791	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-1.137	-1.137	0	%100
68	M82	Z	1.97	1.97	0	%100
69	M83A	X	-1.137	-1.137	0	%100
70	M83A	Z	1.97	1.97	0	%100
71	M87	X	-2.029	-2.029	0	%100
72	M87	Z	3.514	3.514	0	%100
73	M88A	X	-1.545	-1.545	0	%100
74	M88A	Z	2.675	2.675	0	%100
75	M90	X	-1.612	-1.612	0	%100
76	M90	Z	2.792	2.792	0	%100
77	M92A	X	-2.029	-2.029	0	%100
78	M92A	Z	3.514	3.514	0	%100
79	M93	X	-1.545	-1.545	0	%100
80	M93	Z	2.675	2.675	0	%100
81	M95	X	-1.612	-1.612	0	%100
82	M95	Z	2.792	2.792	0	%100
83	M82A	X	-1.197	-1.197	0	%100
84	M82A	Z	2.073	2.073	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	-1.284	-1.284	0	%100
88	MP3C	Z	2.224	2.224	0	%100
89	MP4C	X	-1.423	-1.423	0	%100
90	MP4C	Z	2.464	2.464	0	%100
91	MP2C	X	-1.284	-1.284	0	%100
92	MP2C	Z	2.224	2.224	0	%100
93	MP1C	X	-1.284	-1.284	0	%100
94	MP1C	Z	2.224	2.224	0	%100
95	MP3B	X	-1.284	-1.284	0	%100
96	MP3B	Z	2.224	2.224	0	%100
97	MP4B	X	-1.423	-1.423	0	%100
98	MP4B	Z	2.464	2.464	0	%100
99	MP2B	X	-1.284	-1.284	0	%100
100	MP2B	Z	2.224	2.224	0	%100
101	MP1B	X	-1.284	-1.284	0	%100
102	MP1B	Z	2.224	2.224	0	%100
103	M100	X	-1.067	-1.067	0	%100
104	M100	Z	1.848	1.848	0	%100
105	M105	X	-1.067	-1.067	0	%100
106	M105	Z	1.848	1.848	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	-1.117	-1.117	0	%100
110	M121	Z	1.934	1.934	0	%100
111	M122	X	-1.117	-1.117	0	%100
112	M122	Z	1.934	1.934	0	%100
113	M123	X	0	0	0	%100
114	M123	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	-.691	-.691	0	%100
2	M1	Z	.399	.399	0	%100
3	M4	X	-2.093	-2.093	0	%100
4	M4	Z	1.208	1.208	0	%100
5	M10	X	-.57	-.57	0	%100
6	M10	Z	.329	.329	0	%100
7	MP3A	X	-2.224	-2.224	0	%100
8	MP3A	Z	1.284	1.284	0	%100
9	MP4A	X	-2.464	-2.464	0	%100
10	MP4A	Z	1.423	1.423	0	%100
11	MP2A	X	-2.224	-2.224	0	%100
12	MP2A	Z	1.284	1.284	0	%100
13	MP1A	X	-2.224	-2.224	0	%100
14	MP1A	Z	1.284	1.284	0	%100
15	M43	X	-.57	-.57	0	%100
16	M43	Z	.329	.329	0	%100
17	M46	X	-.893	-.893	0	%100
18	M46	Z	.516	.516	0	%100
19	M51B	X	-2.626	-2.626	0	%100
20	M51B	Z	1.516	1.516	0	%100
21	M52B	X	-.657	-.657	0	%100
22	M52B	Z	.379	.379	0	%100
23	M76	X	-2.635	-2.635	0	%100
24	M76	Z	1.521	1.521	0	%100
25	M77	X	-3.567	-3.567	0	%100
26	M77	Z	2.059	2.059	0	%100
27	M80	X	-3.723	-3.723	0	%100
28	M80	Z	2.15	2.15	0	%100
29	M84	X	-2.635	-2.635	0	%100
30	M84	Z	1.521	1.521	0	%100
31	M85	X	-.892	-.892	0	%100
32	M85	Z	.515	.515	0	%100
33	M91	X	-.931	-.931	0	%100
34	M91	Z	.537	.537	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-2.28	-2.28	0	%100
38	M53	Z	1.316	1.316	0	%100
39	M54	X	-2.28	-2.28	0	%100
40	M54	Z	1.316	1.316	0	%100
41	M55	X	-3.573	-3.573	0	%100
42	M55	Z	2.063	2.063	0	%100
43	M58A	X	-.657	-.657	0	%100
44	M58A	Z	.379	.379	0	%100
45	M59A	X	-.657	-.657	0	%100
46	M59A	Z	.379	.379	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-.892	-.892	0	%100
50	M64	Z	.515	.515	0	%100
51	M66	X	-.931	-.931	0	%100
52	M66	Z	.537	.537	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-.892	-.892	0	%100
56	M69	Z	.515	.515	0	%100
57	M71	X	-.931	-.931	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,%]
58	M71	Z	.537	.537	0	%100
59	M76A	X	-2.093	-2.093	0	%100
60	M76A	Z	1.208	1.208	0	%100
61	M77A	X	-.57	-.57	0	%100
62	M77A	Z	.329	.329	0	%100
63	M78	X	-.57	-.57	0	%100
64	M78	Z	.329	.329	0	%100
65	M79A	X	-.893	-.893	0	%100
66	M79A	Z	.516	.516	0	%100
67	M82	X	-.657	-.657	0	%100
68	M82	Z	.379	.379	0	%100
69	M83A	X	-2.626	-2.626	0	%100
70	M83A	Z	1.516	1.516	0	%100
71	M87	X	-2.635	-2.635	0	%100
72	M87	Z	1.521	1.521	0	%100
73	M88A	X	-.892	-.892	0	%100
74	M88A	Z	.515	.515	0	%100
75	M90	X	-.931	-.931	0	%100
76	M90	Z	.537	.537	0	%100
77	M92A	X	-2.635	-2.635	0	%100
78	M92A	Z	1.521	1.521	0	%100
79	M93	X	-3.567	-3.567	0	%100
80	M93	Z	2.059	2.059	0	%100
81	M95	X	-3.723	-3.723	0	%100
82	M95	Z	2.15	2.15	0	%100
83	M82A	X	-2.764	-2.764	0	%100
84	M82A	Z	1.596	1.596	0	%100
85	M91B	X	-.691	-.691	0	%100
86	M91B	Z	.399	.399	0	%100
87	MP3C	X	-2.224	-2.224	0	%100
88	MP3C	Z	1.284	1.284	0	%100
89	MP4C	X	-2.464	-2.464	0	%100
90	MP4C	Z	1.423	1.423	0	%100
91	MP2C	X	-2.224	-2.224	0	%100
92	MP2C	Z	1.284	1.284	0	%100
93	MP1C	X	-2.224	-2.224	0	%100
94	MP1C	Z	1.284	1.284	0	%100
95	MP3B	X	-2.224	-2.224	0	%100
96	MP3B	Z	1.284	1.284	0	%100
97	MP4B	X	-2.464	-2.464	0	%100
98	MP4B	Z	1.423	1.423	0	%100
99	MP2B	X	-2.224	-2.224	0	%100
100	MP2B	Z	1.284	1.284	0	%100
101	MP1B	X	-2.224	-2.224	0	%100
102	MP1B	Z	1.284	1.284	0	%100
103	M100	X	-.616	-.616	0	%100
104	M100	Z	.356	.356	0	%100
105	M105	X	-2.464	-2.464	0	%100
106	M105	Z	1.423	1.423	0	%100
107	M106	X	-.616	-.616	0	%100
108	M106	Z	.356	.356	0	%100
109	M121	X	-2.579	-2.579	0	%100
110	M121	Z	1.489	1.489	0	%100
111	M122	X	-.645	-.645	0	%100
112	M122	Z	.372	.372	0	%100
113	M123	X	-.645	-.645	0	%100
114	M123	Z	.372	.372	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-3.222	-3.222	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-2.568	-2.568	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-2.845	-2.845	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-2.568	-2.568	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-2.568	-2.568	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-2.274	-2.274	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-2.274	-2.274	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-4.057	-4.057	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-3.089	-3.089	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-3.224	-3.224	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-4.057	-4.057	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-3.089	-3.089	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-3.224	-3.224	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.806	-.806	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-1.975	-1.975	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-1.975	-1.975	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-3.095	-3.095	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-2.274	-2.274	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-1.014	-1.014	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-3.089	-3.089	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-3.224	-3.224	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-1.014	-1.014	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	-.806	-.806	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-1.975	-1.975	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-1.975	-1.975	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-3.095	-3.095	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-2.274	-2.274	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-1.014	-1.014	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-1.014	-1.014	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-3.089	-3.089	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-3.224	-3.224	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-2.394	-2.394	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-2.394	-2.394	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	-2.568	-2.568	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-2.845	-2.845	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-2.568	-2.568	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-2.568	-2.568	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3B	X	-2.568	-2.568	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-2.845	-2.845	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-2.568	-2.568	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-2.568	-2.568	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-2.134	-2.134	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	-2.134	-2.134	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	-2.234	-2.234	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-2.234	-2.234	0	%100
114	M123	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	-.691	-.691	0	%100
2	M1	Z	-.399	-.399	0	%100
3	M4	X	-2.093	-2.093	0	%100
4	M4	Z	-1.208	-1.208	0	%100
5	M10	X	-.57	-.57	0	%100
6	M10	Z	-.329	-.329	0	%100
7	MP3A	X	-2.224	-2.224	0	%100
8	MP3A	Z	-1.284	-1.284	0	%100
9	MP4A	X	-2.464	-2.464	0	%100
10	MP4A	Z	-1.423	-1.423	0	%100
11	MP2A	X	-2.224	-2.224	0	%100
12	MP2A	Z	-1.284	-1.284	0	%100
13	MP1A	X	-2.224	-2.224	0	%100
14	MP1A	Z	-1.284	-1.284	0	%100
15	M43	X	-.57	-.57	0	%100
16	M43	Z	-.329	-.329	0	%100
17	M46	X	-.893	-.893	0	%100
18	M46	Z	-.516	-.516	0	%100
19	M51B	X	-.657	-.657	0	%100
20	M51B	Z	-.379	-.379	0	%100
21	M52B	X	-2.626	-2.626	0	%100
22	M52B	Z	-1.516	-1.516	0	%100
23	M76	X	-2.635	-2.635	0	%100
24	M76	Z	-1.521	-1.521	0	%100
25	M77	X	-.892	-.892	0	%100
26	M77	Z	-.515	-.515	0	%100
27	M80	X	-.931	-.931	0	%100
28	M80	Z	-.537	-.537	0	%100
29	M84	X	-2.635	-2.635	0	%100
30	M84	Z	-1.521	-1.521	0	%100
31	M85	X	-3.567	-3.567	0	%100
32	M85	Z	-2.059	-2.059	0	%100
33	M91	X	-3.723	-3.723	0	%100
34	M91	Z	-2.15	-2.15	0	%100
35	M52A	X	-2.093	-2.093	0	%100
36	M52A	Z	-1.208	-1.208	0	%100
37	M53	X	-.57	-.57	0	%100
38	M53	Z	-.329	-.329	0	%100
39	M54	X	-.57	-.57	0	%100
40	M54	Z	-.329	-.329	0	%100
41	M55	X	-.893	-.893	0	%100
42	M55	Z	-.516	-.516	0	%100
43	M58A	X	-2.626	-2.626	0	%100
44	M58A	Z	-1.516	-1.516	0	%100
45	M59A	X	-.657	-.657	0	%100
46	M59A	Z	-.379	-.379	0	%100
47	M63	X	-2.635	-2.635	0	%100
48	M63	Z	-1.521	-1.521	0	%100
49	M64	X	-3.567	-3.567	0	%100
50	M64	Z	-2.059	-2.059	0	%100
51	M66	X	-3.723	-3.723	0	%100
52	M66	Z	-2.15	-2.15	0	%100
53	M68	X	-2.635	-2.635	0	%100
54	M68	Z	-1.521	-1.521	0	%100
55	M69	X	-.892	-.892	0	%100
56	M69	Z	-.515	-.515	0	%100
57	M71	X	-.931	-.931	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,%]
58	M71	Z	-.537	-.537	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-2.28	-2.28	0	%100
62	M77A	Z	-1.316	-1.316	0	%100
63	M78	X	-2.28	-2.28	0	%100
64	M78	Z	-1.316	-1.316	0	%100
65	M79A	X	-3.573	-3.573	0	%100
66	M79A	Z	-2.063	-2.063	0	%100
67	M82	X	-.657	-.657	0	%100
68	M82	Z	-.379	-.379	0	%100
69	M83A	X	-.657	-.657	0	%100
70	M83A	Z	-.379	-.379	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-.892	-.892	0	%100
74	M88A	Z	-.515	-.515	0	%100
75	M90	X	-.931	-.931	0	%100
76	M90	Z	-.537	-.537	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-.892	-.892	0	%100
80	M93	Z	-.515	-.515	0	%100
81	M95	X	-.931	-.931	0	%100
82	M95	Z	-.537	-.537	0	%100
83	M82A	X	-.691	-.691	0	%100
84	M82A	Z	-.399	-.399	0	%100
85	M91B	X	-2.764	-2.764	0	%100
86	M91B	Z	-1.596	-1.596	0	%100
87	MP3C	X	-2.224	-2.224	0	%100
88	MP3C	Z	-1.284	-1.284	0	%100
89	MP4C	X	-2.464	-2.464	0	%100
90	MP4C	Z	-1.423	-1.423	0	%100
91	MP2C	X	-2.224	-2.224	0	%100
92	MP2C	Z	-1.284	-1.284	0	%100
93	MP1C	X	-2.224	-2.224	0	%100
94	MP1C	Z	-1.284	-1.284	0	%100
95	MP3B	X	-2.224	-2.224	0	%100
96	MP3B	Z	-1.284	-1.284	0	%100
97	MP4B	X	-2.464	-2.464	0	%100
98	MP4B	Z	-1.423	-1.423	0	%100
99	MP2B	X	-2.224	-2.224	0	%100
100	MP2B	Z	-1.284	-1.284	0	%100
101	MP1B	X	-2.224	-2.224	0	%100
102	MP1B	Z	-1.284	-1.284	0	%100
103	M100	X	-.616	-.616	0	%100
104	M100	Z	-.356	-.356	0	%100
105	M105	X	-.616	-.616	0	%100
106	M105	Z	-.356	-.356	0	%100
107	M106	X	-2.464	-2.464	0	%100
108	M106	Z	-1.423	-1.423	0	%100
109	M121	X	-.645	-.645	0	%100
110	M121	Z	-.372	-.372	0	%100
111	M122	X	-.645	-.645	0	%100
112	M122	Z	-.372	-.372	0	%100
113	M123	X	-2.579	-2.579	0	%100
114	M123	Z	-1.489	-1.489	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	-1.197	-1.197	0	%100
2	M1	Z	-2.073	-2.073	0	%100
3	M4	X	-.403	-.403	0	%100
4	M4	Z	-.698	-.698	0	%100
5	M10	X	-.987	-.987	0	%100
6	M10	Z	-1.71	-1.71	0	%100
7	MP3A	X	-1.284	-1.284	0	%100
8	MP3A	Z	-2.224	-2.224	0	%100
9	MP4A	X	-1.423	-1.423	0	%100
10	MP4A	Z	-2.464	-2.464	0	%100
11	MP2A	X	-1.284	-1.284	0	%100
12	MP2A	Z	-2.224	-2.224	0	%100
13	MP1A	X	-1.284	-1.284	0	%100
14	MP1A	Z	-2.224	-2.224	0	%100
15	M43	X	-.987	-.987	0	%100
16	M43	Z	-1.71	-1.71	0	%100
17	M46	X	-1.547	-1.547	0	%100
18	M46	Z	-2.68	-2.68	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-1.137	-1.137	0	%100
22	M52B	Z	-1.97	-1.97	0	%100
23	M76	X	-.507	-.507	0	%100
24	M76	Z	-.878	-.878	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.507	-.507	0	%100
30	M84	Z	-.878	-.878	0	%100
31	M85	X	-1.545	-1.545	0	%100
32	M85	Z	-2.675	-2.675	0	%100
33	M91	X	-1.612	-1.612	0	%100
34	M91	Z	-2.792	-2.792	0	%100
35	M52A	X	-1.611	-1.611	0	%100
36	M52A	Z	-2.791	-2.791	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-1.137	-1.137	0	%100
44	M58A	Z	-1.97	-1.97	0	%100
45	M59A	X	-1.137	-1.137	0	%100
46	M59A	Z	-1.97	-1.97	0	%100
47	M63	X	-2.029	-2.029	0	%100
48	M63	Z	-3.514	-3.514	0	%100
49	M64	X	-1.545	-1.545	0	%100
50	M64	Z	-2.675	-2.675	0	%100
51	M66	X	-1.612	-1.612	0	%100
52	M66	Z	-2.792	-2.792	0	%100
53	M68	X	-2.029	-2.029	0	%100
54	M68	Z	-3.514	-3.514	0	%100
55	M69	X	-1.545	-1.545	0	%100
56	M69	Z	-2.675	-2.675	0	%100
57	M71	X	-1.612	-1.612	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	-2.792	-2.792	0	%100
59	M76A	X	-.403	-.403	0	%100
60	M76A	Z	-.698	-.698	0	%100
61	M77A	X	-.987	-.987	0	%100
62	M77A	Z	-1.71	-1.71	0	%100
63	M78	X	-.987	-.987	0	%100
64	M78	Z	-1.71	-1.71	0	%100
65	M79A	X	-1.547	-1.547	0	%100
66	M79A	Z	-2.68	-2.68	0	%100
67	M82	X	-1.137	-1.137	0	%100
68	M82	Z	-1.97	-1.97	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.507	-.507	0	%100
72	M87	Z	-.878	-.878	0	%100
73	M88A	X	-1.545	-1.545	0	%100
74	M88A	Z	-2.675	-2.675	0	%100
75	M90	X	-1.612	-1.612	0	%100
76	M90	Z	-2.792	-2.792	0	%100
77	M92A	X	-.507	-.507	0	%100
78	M92A	Z	-.878	-.878	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-1.197	-1.197	0	%100
86	M91B	Z	-2.073	-2.073	0	%100
87	MP3C	X	-1.284	-1.284	0	%100
88	MP3C	Z	-2.224	-2.224	0	%100
89	MP4C	X	-1.423	-1.423	0	%100
90	MP4C	Z	-2.464	-2.464	0	%100
91	MP2C	X	-1.284	-1.284	0	%100
92	MP2C	Z	-2.224	-2.224	0	%100
93	MP1C	X	-1.284	-1.284	0	%100
94	MP1C	Z	-2.224	-2.224	0	%100
95	MP3B	X	-1.284	-1.284	0	%100
96	MP3B	Z	-2.224	-2.224	0	%100
97	MP4B	X	-1.423	-1.423	0	%100
98	MP4B	Z	-2.464	-2.464	0	%100
99	MP2B	X	-1.284	-1.284	0	%100
100	MP2B	Z	-2.224	-2.224	0	%100
101	MP1B	X	-1.284	-1.284	0	%100
102	MP1B	Z	-2.224	-2.224	0	%100
103	M100	X	-1.067	-1.067	0	%100
104	M100	Z	-1.848	-1.848	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	-1.067	-1.067	0	%100
108	M106	Z	-1.848	-1.848	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-1.117	-1.117	0	%100
112	M122	Z	-1.934	-1.934	0	%100
113	M123	X	-1.117	-1.117	0	%100
114	M123	Z	-1.934	-1.934	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	-.699	-.699	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-.601	-.601	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.474	-.474	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-.574	-.574	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-.474	-.474	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-.474	-.474	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-.601	-.601	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-1.198	-1.198	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-.166	-.166	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-.166	-.166	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	-.305	-.305	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	-.321	-.321	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	-.305	-.305	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	-.321	-.321	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	-.532	-.532	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	-.15	-.15	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	-.15	-.15	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	-.299	-.299	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	-.166	-.166	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	-.665	-.665	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	-.898	-.898	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	-.305	-.305	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	-.321	-.321	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	-.898	-.898	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	-1.22	-1.22	0	%100
57	M71	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	M71	Z	-1.285	-1.285	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	-.532	-.532	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	-.15	-.15	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	-.15	-.15	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	-.299	-.299	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	-.665	-.665	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	-.166	-.166	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	-.898	-.898	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	-1.22	-1.22	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	-1.285	-1.285	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	-.898	-.898	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	-.305	-.305	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	-.321	-.321	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	-.175	-.175	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	-.175	-.175	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-.474	-.474	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-.574	-.574	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	-.474	-.474	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-.474	-.474	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	-.474	-.474	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	-.574	-.574	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-.474	-.474	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-.474	-.474	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	-.574	-.574	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	-.143	-.143	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	-.143	-.143	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	-.183	-.183	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	-.731	-.731	0	%100
113	M123	X	0	0	0	%100
114	M123	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	.262	.262	0	%100
2	M1	Z	-.454	-.454	0	%100
3	M4	X	.089	.089	0	%100
4	M4	Z	-.154	-.154	0	%100
5	M10	X	.225	.225	0	%100
6	M10	Z	-.39	-.39	0	%100
7	MP3A	X	.237	.237	0	%100
8	MP3A	Z	-.411	-.411	0	%100
9	MP4A	X	.287	.287	0	%100
10	MP4A	Z	-.497	-.497	0	%100
11	MP2A	X	.237	.237	0	%100
12	MP2A	Z	-.411	-.411	0	%100
13	MP1A	X	.237	.237	0	%100
14	MP1A	Z	-.411	-.411	0	%100
15	M43	X	.225	.225	0	%100
16	M43	Z	-.39	-.39	0	%100
17	M46	X	.449	.449	0	%100
18	M46	Z	-.778	-.778	0	%100
19	M51B	X	.249	.249	0	%100
20	M51B	Z	-.432	-.432	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.15	.15	0	%100
24	M76	Z	-.259	-.259	0	%100
25	M77	X	.458	.458	0	%100
26	M77	Z	-.792	-.792	0	%100
27	M80	X	.482	.482	0	%100
28	M80	Z	-.835	-.835	0	%100
29	M84	X	.15	.15	0	%100
30	M84	Z	-.259	-.259	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.089	.089	0	%100
36	M52A	Z	-.154	-.154	0	%100
37	M53	X	.225	.225	0	%100
38	M53	Z	-.39	-.39	0	%100
39	M54	X	.225	.225	0	%100
40	M54	Z	-.39	-.39	0	%100
41	M55	X	.449	.449	0	%100
42	M55	Z	-.778	-.778	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	.249	.249	0	%100
46	M59A	Z	-.432	-.432	0	%100
47	M63	X	.15	.15	0	%100
48	M63	Z	-.259	-.259	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.15	.15	0	%100
54	M68	Z	-.259	-.259	0	%100
55	M69	X	.458	.458	0	%100
56	M69	Z	-.792	-.792	0	%100
57	M71	X	.482	.482	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,%]
58	M71	Z	-.835	-.835	0	%100
59	M76A	X	.355	.355	0	%100
60	M76A	Z	-.615	-.615	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	.249	.249	0	%100
68	M82	Z	-.432	-.432	0	%100
69	M83A	X	.249	.249	0	%100
70	M83A	Z	-.432	-.432	0	%100
71	M87	X	.599	.599	0	%100
72	M87	Z	-1.037	-1.037	0	%100
73	M88A	X	.458	.458	0	%100
74	M88A	Z	-.792	-.792	0	%100
75	M90	X	.482	.482	0	%100
76	M90	Z	-.835	-.835	0	%100
77	M92A	X	.599	.599	0	%100
78	M92A	Z	-1.037	-1.037	0	%100
79	M93	X	.458	.458	0	%100
80	M93	Z	-.792	-.792	0	%100
81	M95	X	.482	.482	0	%100
82	M95	Z	-.835	-.835	0	%100
83	M82A	X	.262	.262	0	%100
84	M82A	Z	-.454	-.454	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	.237	.237	0	%100
88	MP3C	Z	-.411	-.411	0	%100
89	MP4C	X	.287	.287	0	%100
90	MP4C	Z	-.497	-.497	0	%100
91	MP2C	X	.237	.237	0	%100
92	MP2C	Z	-.411	-.411	0	%100
93	MP1C	X	.237	.237	0	%100
94	MP1C	Z	-.411	-.411	0	%100
95	MP3B	X	.237	.237	0	%100
96	MP3B	Z	-.411	-.411	0	%100
97	MP4B	X	.287	.287	0	%100
98	MP4B	Z	-.497	-.497	0	%100
99	MP2B	X	.237	.237	0	%100
100	MP2B	Z	-.411	-.411	0	%100
101	MP1B	X	.237	.237	0	%100
102	MP1B	Z	-.411	-.411	0	%100
103	M100	X	.215	.215	0	%100
104	M100	Z	-.373	-.373	0	%100
105	M105	X	.215	.215	0	%100
106	M105	Z	-.373	-.373	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	.274	.274	0	%100
110	M121	Z	-.475	-.475	0	%100
111	M122	X	.274	.274	0	%100
112	M122	Z	-.475	-.475	0	%100
113	M123	X	0	0	0	%100
114	M123	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	.151	.151	0	%100
2	M1	Z	-.087	-.087	0	%100
3	M4	X	.461	.461	0	%100
4	M4	Z	-.266	-.266	0	%100
5	M10	X	.13	.13	0	%100
6	M10	Z	-.075	-.075	0	%100
7	MP3A	X	.411	.411	0	%100
8	MP3A	Z	-.237	-.237	0	%100
9	MP4A	X	.497	.497	0	%100
10	MP4A	Z	-.287	-.287	0	%100
11	MP2A	X	.411	.411	0	%100
12	MP2A	Z	-.237	-.237	0	%100
13	MP1A	X	.411	.411	0	%100
14	MP1A	Z	-.237	-.237	0	%100
15	M43	X	.13	.13	0	%100
16	M43	Z	-.075	-.075	0	%100
17	M46	X	.259	.259	0	%100
18	M46	Z	-.15	-.15	0	%100
19	M51B	X	.576	.576	0	%100
20	M51B	Z	-.333	-.333	0	%100
21	M52B	X	.144	.144	0	%100
22	M52B	Z	-.083	-.083	0	%100
23	M76	X	.778	.778	0	%100
24	M76	Z	-.449	-.449	0	%100
25	M77	X	1.057	1.057	0	%100
26	M77	Z	-.61	-.61	0	%100
27	M80	X	1.113	1.113	0	%100
28	M80	Z	-.643	-.643	0	%100
29	M84	X	.778	.778	0	%100
30	M84	Z	-.449	-.449	0	%100
31	M85	X	.264	.264	0	%100
32	M85	Z	-.153	-.153	0	%100
33	M91	X	.278	.278	0	%100
34	M91	Z	-.161	-.161	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	.52	.52	0	%100
38	M53	Z	-.3	-.3	0	%100
39	M54	X	.52	.52	0	%100
40	M54	Z	-.3	-.3	0	%100
41	M55	X	1.037	1.037	0	%100
42	M55	Z	-.599	-.599	0	%100
43	M58A	X	.144	.144	0	%100
44	M58A	Z	-.083	-.083	0	%100
45	M59A	X	.144	.144	0	%100
46	M59A	Z	-.083	-.083	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	.264	.264	0	%100
50	M64	Z	-.153	-.153	0	%100
51	M66	X	.278	.278	0	%100
52	M66	Z	-.161	-.161	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	.264	.264	0	%100
56	M69	Z	-.153	-.153	0	%100
57	M71	X	.278	.278	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,%]
58	M71	Z	-.161	-.161	0	%100
59	M76A	X	.461	.461	0	%100
60	M76A	Z	-.266	-.266	0	%100
61	M77A	X	.13	.13	0	%100
62	M77A	Z	-.075	-.075	0	%100
63	M78	X	.13	.13	0	%100
64	M78	Z	-.075	-.075	0	%100
65	M79A	X	.259	.259	0	%100
66	M79A	Z	-.15	-.15	0	%100
67	M82	X	.144	.144	0	%100
68	M82	Z	-.083	-.083	0	%100
69	M83A	X	.576	.576	0	%100
70	M83A	Z	-.333	-.333	0	%100
71	M87	X	.778	.778	0	%100
72	M87	Z	-.449	-.449	0	%100
73	M88A	X	.264	.264	0	%100
74	M88A	Z	-.153	-.153	0	%100
75	M90	X	.278	.278	0	%100
76	M90	Z	-.161	-.161	0	%100
77	M92A	X	.778	.778	0	%100
78	M92A	Z	-.449	-.449	0	%100
79	M93	X	1.057	1.057	0	%100
80	M93	Z	-.61	-.61	0	%100
81	M95	X	1.113	1.113	0	%100
82	M95	Z	-.643	-.643	0	%100
83	M82A	X	.605	.605	0	%100
84	M82A	Z	-.349	-.349	0	%100
85	M91B	X	.151	.151	0	%100
86	M91B	Z	-.087	-.087	0	%100
87	MP3C	X	.411	.411	0	%100
88	MP3C	Z	-.237	-.237	0	%100
89	MP4C	X	.497	.497	0	%100
90	MP4C	Z	-.287	-.287	0	%100
91	MP2C	X	.411	.411	0	%100
92	MP2C	Z	-.237	-.237	0	%100
93	MP1C	X	.411	.411	0	%100
94	MP1C	Z	-.237	-.237	0	%100
95	MP3B	X	.411	.411	0	%100
96	MP3B	Z	-.237	-.237	0	%100
97	MP4B	X	.497	.497	0	%100
98	MP4B	Z	-.287	-.287	0	%100
99	MP2B	X	.411	.411	0	%100
100	MP2B	Z	-.237	-.237	0	%100
101	MP1B	X	.411	.411	0	%100
102	MP1B	Z	-.237	-.237	0	%100
103	M100	X	.124	.124	0	%100
104	M100	Z	-.072	-.072	0	%100
105	M105	X	.497	.497	0	%100
106	M105	Z	-.287	-.287	0	%100
107	M106	X	.124	.124	0	%100
108	M106	Z	-.072	-.072	0	%100
109	M121	X	.633	.633	0	%100
110	M121	Z	-.366	-.366	0	%100
111	M122	X	.158	.158	0	%100
112	M122	Z	-.091	-.091	0	%100
113	M123	X	.158	.158	0	%100
114	M123	Z	-.091	-.091	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.71	.71	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	.474	.474	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	.574	.574	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	.474	.474	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.474	.474	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	.499	.499	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.499	.499	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	1.198	1.198	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	.915	.915	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	.964	.964	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	1.198	1.198	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	.915	.915	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	.964	.964	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	.177	.177	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	.45	.45	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	.45	.45	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	.898	.898	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	.499	.499	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	.299	.299	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	.915	.915	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	.964	.964	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	.299	.299	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	.177	.177	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	.45	.45	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	.45	.45	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	.898	.898	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	.499	.499	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.299	.299	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	.299	.299	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	.915	.915	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	.964	.964	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	.524	.524	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	.524	.524	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	.474	.474	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	.574	.574	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	.474	.474	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	.474	.474	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3B	X	.474	.474	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	.574	.574	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	.474	.474	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	.474	.474	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	.43	.43	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	.43	.43	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	.548	.548	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	.548	.548	0	%100
114	M123	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	.151	.151	0	%100
2	M1	Z	.087	.087	0	%100
3	M4	X	.461	.461	0	%100
4	M4	Z	.266	.266	0	%100
5	M10	X	.13	.13	0	%100
6	M10	Z	.075	.075	0	%100
7	MP3A	X	.411	.411	0	%100
8	MP3A	Z	.237	.237	0	%100
9	MP4A	X	.497	.497	0	%100
10	MP4A	Z	.287	.287	0	%100
11	MP2A	X	.411	.411	0	%100
12	MP2A	Z	.237	.237	0	%100
13	MP1A	X	.411	.411	0	%100
14	MP1A	Z	.237	.237	0	%100
15	M43	X	.13	.13	0	%100
16	M43	Z	.075	.075	0	%100
17	M46	X	.259	.259	0	%100
18	M46	Z	.15	.15	0	%100
19	M51B	X	.144	.144	0	%100
20	M51B	Z	.083	.083	0	%100
21	M52B	X	.576	.576	0	%100
22	M52B	Z	.333	.333	0	%100
23	M76	X	.778	.778	0	%100
24	M76	Z	.449	.449	0	%100
25	M77	X	.264	.264	0	%100
26	M77	Z	.153	.153	0	%100
27	M80	X	.278	.278	0	%100
28	M80	Z	.161	.161	0	%100
29	M84	X	.778	.778	0	%100
30	M84	Z	.449	.449	0	%100
31	M85	X	1.057	1.057	0	%100
32	M85	Z	.61	.61	0	%100
33	M91	X	1.113	1.113	0	%100
34	M91	Z	.643	.643	0	%100
35	M52A	X	.461	.461	0	%100
36	M52A	Z	.266	.266	0	%100
37	M53	X	.13	.13	0	%100
38	M53	Z	.075	.075	0	%100
39	M54	X	.13	.13	0	%100
40	M54	Z	.075	.075	0	%100
41	M55	X	.259	.259	0	%100
42	M55	Z	.15	.15	0	%100
43	M58A	X	.576	.576	0	%100
44	M58A	Z	.333	.333	0	%100
45	M59A	X	.144	.144	0	%100
46	M59A	Z	.083	.083	0	%100
47	M63	X	.778	.778	0	%100
48	M63	Z	.449	.449	0	%100
49	M64	X	1.057	1.057	0	%100
50	M64	Z	.61	.61	0	%100
51	M66	X	1.113	1.113	0	%100
52	M66	Z	.643	.643	0	%100
53	M68	X	.778	.778	0	%100
54	M68	Z	.449	.449	0	%100
55	M69	X	.264	.264	0	%100
56	M69	Z	.153	.153	0	%100
57	M71	X	.278	.278	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	.161	.161	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	.52	.52	0	%100
62	M77A	Z	.3	.3	0	%100
63	M78	X	.52	.52	0	%100
64	M78	Z	.3	.3	0	%100
65	M79A	X	1.037	1.037	0	%100
66	M79A	Z	.599	.599	0	%100
67	M82	X	.144	.144	0	%100
68	M82	Z	.083	.083	0	%100
69	M83A	X	.144	.144	0	%100
70	M83A	Z	.083	.083	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	.264	.264	0	%100
74	M88A	Z	.153	.153	0	%100
75	M90	X	.278	.278	0	%100
76	M90	Z	.161	.161	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	.264	.264	0	%100
80	M93	Z	.153	.153	0	%100
81	M95	X	.278	.278	0	%100
82	M95	Z	.161	.161	0	%100
83	M82A	X	.151	.151	0	%100
84	M82A	Z	.087	.087	0	%100
85	M91B	X	.605	.605	0	%100
86	M91B	Z	.349	.349	0	%100
87	MP3C	X	.411	.411	0	%100
88	MP3C	Z	.237	.237	0	%100
89	MP4C	X	.497	.497	0	%100
90	MP4C	Z	.287	.287	0	%100
91	MP2C	X	.411	.411	0	%100
92	MP2C	Z	.237	.237	0	%100
93	MP1C	X	.411	.411	0	%100
94	MP1C	Z	.237	.237	0	%100
95	MP3B	X	.411	.411	0	%100
96	MP3B	Z	.237	.237	0	%100
97	MP4B	X	.497	.497	0	%100
98	MP4B	Z	.287	.287	0	%100
99	MP2B	X	.411	.411	0	%100
100	MP2B	Z	.237	.237	0	%100
101	MP1B	X	.411	.411	0	%100
102	MP1B	Z	.237	.237	0	%100
103	M100	X	.124	.124	0	%100
104	M100	Z	.072	.072	0	%100
105	M105	X	.124	.124	0	%100
106	M105	Z	.072	.072	0	%100
107	M106	X	.497	.497	0	%100
108	M106	Z	.287	.287	0	%100
109	M121	X	.158	.158	0	%100
110	M121	Z	.091	.091	0	%100
111	M122	X	.158	.158	0	%100
112	M122	Z	.091	.091	0	%100
113	M123	X	.633	.633	0	%100
114	M123	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	.262	.262	0	%100
2	M1	Z	.454	.454	0	%100
3	M4	X	.089	.089	0	%100
4	M4	Z	.154	.154	0	%100
5	M10	X	.225	.225	0	%100
6	M10	Z	.39	.39	0	%100
7	MP3A	X	.237	.237	0	%100
8	MP3A	Z	.411	.411	0	%100
9	MP4A	X	.287	.287	0	%100
10	MP4A	Z	.497	.497	0	%100
11	MP2A	X	.237	.237	0	%100
12	MP2A	Z	.411	.411	0	%100
13	MP1A	X	.237	.237	0	%100
14	MP1A	Z	.411	.411	0	%100
15	M43	X	.225	.225	0	%100
16	M43	Z	.39	.39	0	%100
17	M46	X	.449	.449	0	%100
18	M46	Z	.778	.778	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.249	.249	0	%100
22	M52B	Z	.432	.432	0	%100
23	M76	X	.15	.15	0	%100
24	M76	Z	.259	.259	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	.15	.15	0	%100
30	M84	Z	.259	.259	0	%100
31	M85	X	.458	.458	0	%100
32	M85	Z	.792	.792	0	%100
33	M91	X	.482	.482	0	%100
34	M91	Z	.835	.835	0	%100
35	M52A	X	.355	.355	0	%100
36	M52A	Z	.615	.615	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	.249	.249	0	%100
44	M58A	Z	.432	.432	0	%100
45	M59A	X	.249	.249	0	%100
46	M59A	Z	.432	.432	0	%100
47	M63	X	.599	.599	0	%100
48	M63	Z	1.037	1.037	0	%100
49	M64	X	.458	.458	0	%100
50	M64	Z	.792	.792	0	%100
51	M66	X	.482	.482	0	%100
52	M66	Z	.835	.835	0	%100
53	M68	X	.599	.599	0	%100
54	M68	Z	1.037	1.037	0	%100
55	M69	X	.458	.458	0	%100
56	M69	Z	.792	.792	0	%100
57	M71	X	.482	.482	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,%]
58	M71	Z	.835	.835	0	%100
59	M76A	X	.089	.089	0	%100
60	M76A	Z	.154	.154	0	%100
61	M77A	X	.225	.225	0	%100
62	M77A	Z	.39	.39	0	%100
63	M78	X	.225	.225	0	%100
64	M78	Z	.39	.39	0	%100
65	M79A	X	.449	.449	0	%100
66	M79A	Z	.778	.778	0	%100
67	M82	X	.249	.249	0	%100
68	M82	Z	.432	.432	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	.15	.15	0	%100
72	M87	Z	.259	.259	0	%100
73	M88A	X	.458	.458	0	%100
74	M88A	Z	.792	.792	0	%100
75	M90	X	.482	.482	0	%100
76	M90	Z	.835	.835	0	%100
77	M92A	X	.15	.15	0	%100
78	M92A	Z	.259	.259	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	.262	.262	0	%100
86	M91B	Z	.454	.454	0	%100
87	MP3C	X	.237	.237	0	%100
88	MP3C	Z	.411	.411	0	%100
89	MP4C	X	.287	.287	0	%100
90	MP4C	Z	.497	.497	0	%100
91	MP2C	X	.237	.237	0	%100
92	MP2C	Z	.411	.411	0	%100
93	MP1C	X	.237	.237	0	%100
94	MP1C	Z	.411	.411	0	%100
95	MP3B	X	.237	.237	0	%100
96	MP3B	Z	.411	.411	0	%100
97	MP4B	X	.287	.287	0	%100
98	MP4B	Z	.497	.497	0	%100
99	MP2B	X	.237	.237	0	%100
100	MP2B	Z	.411	.411	0	%100
101	MP1B	X	.237	.237	0	%100
102	MP1B	Z	.411	.411	0	%100
103	M100	X	.215	.215	0	%100
104	M100	Z	.373	.373	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	.215	.215	0	%100
108	M106	Z	.373	.373	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	.274	.274	0	%100
112	M122	Z	.475	.475	0	%100
113	M123	X	.274	.274	0	%100
114	M123	Z	.475	.475	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	.699	.699	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.601	.601	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.474	.474	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.574	.574	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.474	.474	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.474	.474	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	.601	.601	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	1.198	1.198	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.166	.166	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.166	.166	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	.305	.305	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	.321	.321	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	.305	.305	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	.321	.321	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	.532	.532	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	.15	.15	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	.15	.15	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	.299	.299	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	.166	.166	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	.665	.665	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	.898	.898	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	.305	.305	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	.321	.321	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	.898	.898	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	1.22	1.22	0	%100
57	M71	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	M71	Z	1.285	1.285	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	.532	.532	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	.15	.15	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	.15	.15	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	.299	.299	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	.665	.665	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	.166	.166	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	.898	.898	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	1.22	1.22	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	1.285	1.285	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	.898	.898	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	.305	.305	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	.321	.321	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	.175	.175	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	.175	.175	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	.474	.474	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	.574	.574	0	%100
91	MP2C	X	0	0	0	%100
92	MP2C	Z	.474	.474	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	.474	.474	0	%100
95	MP3B	X	0	0	0	%100
96	MP3B	Z	.474	.474	0	%100
97	MP4B	X	0	0	0	%100
98	MP4B	Z	.574	.574	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	.474	.474	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	.474	.474	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	.574	.574	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	.143	.143	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	.143	.143	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	.183	.183	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	.731	.731	0	%100
113	M123	X	0	0	0	%100
114	M123	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	-.262	-.262	0	%100
2	M1	Z	.454	.454	0	%100
3	M4	X	-.089	-.089	0	%100
4	M4	Z	.154	.154	0	%100
5	M10	X	-.225	-.225	0	%100
6	M10	Z	.39	.39	0	%100
7	MP3A	X	-.237	-.237	0	%100
8	MP3A	Z	.411	.411	0	%100
9	MP4A	X	-.287	-.287	0	%100
10	MP4A	Z	.497	.497	0	%100
11	MP2A	X	-.237	-.237	0	%100
12	MP2A	Z	.411	.411	0	%100
13	MP1A	X	-.237	-.237	0	%100
14	MP1A	Z	.411	.411	0	%100
15	M43	X	-.225	-.225	0	%100
16	M43	Z	.39	.39	0	%100
17	M46	X	-.449	-.449	0	%100
18	M46	Z	.778	.778	0	%100
19	M51B	X	-.249	-.249	0	%100
20	M51B	Z	.432	.432	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.15	-.15	0	%100
24	M76	Z	.259	.259	0	%100
25	M77	X	-.458	-.458	0	%100
26	M77	Z	.792	.792	0	%100
27	M80	X	-.482	-.482	0	%100
28	M80	Z	.835	.835	0	%100
29	M84	X	-.15	-.15	0	%100
30	M84	Z	.259	.259	0	%100
31	M85	X	0	0	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	0	0	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.089	-.089	0	%100
36	M52A	Z	.154	.154	0	%100
37	M53	X	-.225	-.225	0	%100
38	M53	Z	.39	.39	0	%100
39	M54	X	-.225	-.225	0	%100
40	M54	Z	.39	.39	0	%100
41	M55	X	-.449	-.449	0	%100
42	M55	Z	.778	.778	0	%100
43	M58A	X	0	0	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	-.249	-.249	0	%100
46	M59A	Z	.432	.432	0	%100
47	M63	X	-.15	-.15	0	%100
48	M63	Z	.259	.259	0	%100
49	M64	X	0	0	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	0	0	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.15	-.15	0	%100
54	M68	Z	.259	.259	0	%100
55	M69	X	-.458	-.458	0	%100
56	M69	Z	.792	.792	0	%100
57	M71	X	-.482	-.482	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,%]
58	M71	Z	.835	.835	0	%100
59	M76A	X	-.355	-.355	0	%100
60	M76A	Z	.615	.615	0	%100
61	M77A	X	0	0	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	0	0	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	0	0	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	-.249	-.249	0	%100
68	M82	Z	.432	.432	0	%100
69	M83A	X	-.249	-.249	0	%100
70	M83A	Z	.432	.432	0	%100
71	M87	X	-.599	-.599	0	%100
72	M87	Z	1.037	1.037	0	%100
73	M88A	X	-.458	-.458	0	%100
74	M88A	Z	.792	.792	0	%100
75	M90	X	-.482	-.482	0	%100
76	M90	Z	.835	.835	0	%100
77	M92A	X	-.599	-.599	0	%100
78	M92A	Z	1.037	1.037	0	%100
79	M93	X	-.458	-.458	0	%100
80	M93	Z	.792	.792	0	%100
81	M95	X	-.482	-.482	0	%100
82	M95	Z	.835	.835	0	%100
83	M82A	X	-.262	-.262	0	%100
84	M82A	Z	.454	.454	0	%100
85	M91B	X	0	0	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	-.237	-.237	0	%100
88	MP3C	Z	.411	.411	0	%100
89	MP4C	X	-.287	-.287	0	%100
90	MP4C	Z	.497	.497	0	%100
91	MP2C	X	-.237	-.237	0	%100
92	MP2C	Z	.411	.411	0	%100
93	MP1C	X	-.237	-.237	0	%100
94	MP1C	Z	.411	.411	0	%100
95	MP3B	X	-.237	-.237	0	%100
96	MP3B	Z	.411	.411	0	%100
97	MP4B	X	-.287	-.287	0	%100
98	MP4B	Z	.497	.497	0	%100
99	MP2B	X	-.237	-.237	0	%100
100	MP2B	Z	.411	.411	0	%100
101	MP1B	X	-.237	-.237	0	%100
102	MP1B	Z	.411	.411	0	%100
103	M100	X	-.215	-.215	0	%100
104	M100	Z	.373	.373	0	%100
105	M105	X	-.215	-.215	0	%100
106	M105	Z	.373	.373	0	%100
107	M106	X	0	0	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	-.274	-.274	0	%100
110	M121	Z	.475	.475	0	%100
111	M122	X	-.274	-.274	0	%100
112	M122	Z	.475	.475	0	%100
113	M123	X	0	0	0	%100
114	M123	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	-.151	-.151	0	%100
2	M1	Z	.087	.087	0	%100
3	M4	X	-.461	-.461	0	%100
4	M4	Z	.266	.266	0	%100
5	M10	X	-.13	-.13	0	%100
6	M10	Z	.075	.075	0	%100
7	MP3A	X	-.411	-.411	0	%100
8	MP3A	Z	.237	.237	0	%100
9	MP4A	X	-.497	-.497	0	%100
10	MP4A	Z	.287	.287	0	%100
11	MP2A	X	-.411	-.411	0	%100
12	MP2A	Z	.237	.237	0	%100
13	MP1A	X	-.411	-.411	0	%100
14	MP1A	Z	.237	.237	0	%100
15	M43	X	-.13	-.13	0	%100
16	M43	Z	.075	.075	0	%100
17	M46	X	-.259	-.259	0	%100
18	M46	Z	.15	.15	0	%100
19	M51B	X	-.576	-.576	0	%100
20	M51B	Z	.333	.333	0	%100
21	M52B	X	-.144	-.144	0	%100
22	M52B	Z	.083	.083	0	%100
23	M76	X	-.778	-.778	0	%100
24	M76	Z	.449	.449	0	%100
25	M77	X	-1.057	-1.057	0	%100
26	M77	Z	.61	.61	0	%100
27	M80	X	-1.113	-1.113	0	%100
28	M80	Z	.643	.643	0	%100
29	M84	X	-.778	-.778	0	%100
30	M84	Z	.449	.449	0	%100
31	M85	X	-.264	-.264	0	%100
32	M85	Z	.153	.153	0	%100
33	M91	X	-.278	-.278	0	%100
34	M91	Z	.161	.161	0	%100
35	M52A	X	0	0	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-.52	-.52	0	%100
38	M53	Z	.3	.3	0	%100
39	M54	X	-.52	-.52	0	%100
40	M54	Z	.3	.3	0	%100
41	M55	X	-1.037	-1.037	0	%100
42	M55	Z	.599	.599	0	%100
43	M58A	X	-.144	-.144	0	%100
44	M58A	Z	.083	.083	0	%100
45	M59A	X	-.144	-.144	0	%100
46	M59A	Z	.083	.083	0	%100
47	M63	X	0	0	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-.264	-.264	0	%100
50	M64	Z	.153	.153	0	%100
51	M66	X	-.278	-.278	0	%100
52	M66	Z	.161	.161	0	%100
53	M68	X	0	0	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	-.264	-.264	0	%100
56	M69	Z	.153	.153	0	%100
57	M71	X	-.278	-.278	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,%]
58	M71	Z	.161	.161	0	%100
59	M76A	X	-.461	-.461	0	%100
60	M76A	Z	.266	.266	0	%100
61	M77A	X	-.13	-.13	0	%100
62	M77A	Z	.075	.075	0	%100
63	M78	X	-.13	-.13	0	%100
64	M78	Z	.075	.075	0	%100
65	M79A	X	-.259	-.259	0	%100
66	M79A	Z	.15	.15	0	%100
67	M82	X	-.144	-.144	0	%100
68	M82	Z	.083	.083	0	%100
69	M83A	X	-.576	-.576	0	%100
70	M83A	Z	.333	.333	0	%100
71	M87	X	-.778	-.778	0	%100
72	M87	Z	.449	.449	0	%100
73	M88A	X	-.264	-.264	0	%100
74	M88A	Z	.153	.153	0	%100
75	M90	X	-.278	-.278	0	%100
76	M90	Z	.161	.161	0	%100
77	M92A	X	-.778	-.778	0	%100
78	M92A	Z	.449	.449	0	%100
79	M93	X	-1.057	-1.057	0	%100
80	M93	Z	.61	.61	0	%100
81	M95	X	-1.113	-1.113	0	%100
82	M95	Z	.643	.643	0	%100
83	M82A	X	-.605	-.605	0	%100
84	M82A	Z	.349	.349	0	%100
85	M91B	X	-.151	-.151	0	%100
86	M91B	Z	.087	.087	0	%100
87	MP3C	X	-.411	-.411	0	%100
88	MP3C	Z	.237	.237	0	%100
89	MP4C	X	-.497	-.497	0	%100
90	MP4C	Z	.287	.287	0	%100
91	MP2C	X	-.411	-.411	0	%100
92	MP2C	Z	.237	.237	0	%100
93	MP1C	X	-.411	-.411	0	%100
94	MP1C	Z	.237	.237	0	%100
95	MP3B	X	-.411	-.411	0	%100
96	MP3B	Z	.237	.237	0	%100
97	MP4B	X	-.497	-.497	0	%100
98	MP4B	Z	.287	.287	0	%100
99	MP2B	X	-.411	-.411	0	%100
100	MP2B	Z	.237	.237	0	%100
101	MP1B	X	-.411	-.411	0	%100
102	MP1B	Z	.237	.237	0	%100
103	M100	X	-.124	-.124	0	%100
104	M100	Z	.072	.072	0	%100
105	M105	X	-.497	-.497	0	%100
106	M105	Z	.287	.287	0	%100
107	M106	X	-.124	-.124	0	%100
108	M106	Z	.072	.072	0	%100
109	M121	X	-.633	-.633	0	%100
110	M121	Z	.366	.366	0	%100
111	M122	X	-.158	-.158	0	%100
112	M122	Z	.091	.091	0	%100
113	M123	X	-.158	-.158	0	%100
114	M123	Z	.091	.091	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.71	-.71	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-.474	-.474	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-.574	-.574	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-.474	-.474	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-.474	-.474	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-.499	-.499	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.499	-.499	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-1.198	-1.198	0	%100
24	M76	Z	0	0	0	%100
25	M77	X	-.915	-.915	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	-.964	-.964	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-1.198	-1.198	0	%100
30	M84	Z	0	0	0	%100
31	M85	X	-.915	-.915	0	%100
32	M85	Z	0	0	0	%100
33	M91	X	-.964	-.964	0	%100
34	M91	Z	0	0	0	%100
35	M52A	X	-.177	-.177	0	%100
36	M52A	Z	0	0	0	%100
37	M53	X	-.45	-.45	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	-.45	-.45	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	-.898	-.898	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-.499	-.499	0	%100
44	M58A	Z	0	0	0	%100
45	M59A	X	0	0	0	%100
46	M59A	Z	0	0	0	%100
47	M63	X	-.299	-.299	0	%100
48	M63	Z	0	0	0	%100
49	M64	X	-.915	-.915	0	%100
50	M64	Z	0	0	0	%100
51	M66	X	-.964	-.964	0	%100
52	M66	Z	0	0	0	%100
53	M68	X	-.299	-.299	0	%100
54	M68	Z	0	0	0	%100
55	M69	X	0	0	0	%100
56	M69	Z	0	0	0	%100
57	M71	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M71	Z	0	0	0	%100
59	M76A	X	-.177	-.177	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-.45	-.45	0	%100
62	M77A	Z	0	0	0	%100
63	M78	X	-.45	-.45	0	%100
64	M78	Z	0	0	0	%100
65	M79A	X	-.898	-.898	0	%100
66	M79A	Z	0	0	0	%100
67	M82	X	0	0	0	%100
68	M82	Z	0	0	0	%100
69	M83A	X	-.499	-.499	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.299	-.299	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	0	0	0	%100
74	M88A	Z	0	0	0	%100
75	M90	X	0	0	0	%100
76	M90	Z	0	0	0	%100
77	M92A	X	-.299	-.299	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-.915	-.915	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	-.964	-.964	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	-.524	-.524	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-.524	-.524	0	%100
86	M91B	Z	0	0	0	%100
87	MP3C	X	-.474	-.474	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-.574	-.574	0	%100
90	MP4C	Z	0	0	0	%100
91	MP2C	X	-.474	-.474	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-.474	-.474	0	%100
94	MP1C	Z	0	0	0	%100
95	MP3B	X	-.474	-.474	0	%100
96	MP3B	Z	0	0	0	%100
97	MP4B	X	-.574	-.574	0	%100
98	MP4B	Z	0	0	0	%100
99	MP2B	X	-.474	-.474	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-.474	-.474	0	%100
102	MP1B	Z	0	0	0	%100
103	M100	X	0	0	0	%100
104	M100	Z	0	0	0	%100
105	M105	X	-.43	-.43	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	-.43	-.43	0	%100
108	M106	Z	0	0	0	%100
109	M121	X	-.548	-.548	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	0	0	0	%100
112	M122	Z	0	0	0	%100
113	M123	X	-.548	-.548	0	%100
114	M123	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	-.151	-.151	0	%100
2	M1	Z	-.087	-.087	0	%100
3	M4	X	-.461	-.461	0	%100
4	M4	Z	-.266	-.266	0	%100
5	M10	X	-.13	-.13	0	%100
6	M10	Z	-.075	-.075	0	%100
7	MP3A	X	-.411	-.411	0	%100
8	MP3A	Z	-.237	-.237	0	%100
9	MP4A	X	-.497	-.497	0	%100
10	MP4A	Z	-.287	-.287	0	%100
11	MP2A	X	-.411	-.411	0	%100
12	MP2A	Z	-.237	-.237	0	%100
13	MP1A	X	-.411	-.411	0	%100
14	MP1A	Z	-.237	-.237	0	%100
15	M43	X	-.13	-.13	0	%100
16	M43	Z	-.075	-.075	0	%100
17	M46	X	-.259	-.259	0	%100
18	M46	Z	-.15	-.15	0	%100
19	M51B	X	-.144	-.144	0	%100
20	M51B	Z	-.083	-.083	0	%100
21	M52B	X	-.576	-.576	0	%100
22	M52B	Z	-.333	-.333	0	%100
23	M76	X	-.778	-.778	0	%100
24	M76	Z	-.449	-.449	0	%100
25	M77	X	-.264	-.264	0	%100
26	M77	Z	-.153	-.153	0	%100
27	M80	X	-.278	-.278	0	%100
28	M80	Z	-.161	-.161	0	%100
29	M84	X	-.778	-.778	0	%100
30	M84	Z	-.449	-.449	0	%100
31	M85	X	-1.057	-1.057	0	%100
32	M85	Z	-.61	-.61	0	%100
33	M91	X	-1.113	-1.113	0	%100
34	M91	Z	-.643	-.643	0	%100
35	M52A	X	-.461	-.461	0	%100
36	M52A	Z	-.266	-.266	0	%100
37	M53	X	-.13	-.13	0	%100
38	M53	Z	-.075	-.075	0	%100
39	M54	X	-.13	-.13	0	%100
40	M54	Z	-.075	-.075	0	%100
41	M55	X	-.259	-.259	0	%100
42	M55	Z	-.15	-.15	0	%100
43	M58A	X	-.576	-.576	0	%100
44	M58A	Z	-.333	-.333	0	%100
45	M59A	X	-.144	-.144	0	%100
46	M59A	Z	-.083	-.083	0	%100
47	M63	X	-.778	-.778	0	%100
48	M63	Z	-.449	-.449	0	%100
49	M64	X	-1.057	-1.057	0	%100
50	M64	Z	-.61	-.61	0	%100
51	M66	X	-1.113	-1.113	0	%100
52	M66	Z	-.643	-.643	0	%100
53	M68	X	-.778	-.778	0	%100
54	M68	Z	-.449	-.449	0	%100
55	M69	X	-.264	-.264	0	%100
56	M69	Z	-.153	-.153	0	%100
57	M71	X	-.278	-.278	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,%]
58	M71	Z	-.161	-.161	0	%100
59	M76A	X	0	0	0	%100
60	M76A	Z	0	0	0	%100
61	M77A	X	-.52	-.52	0	%100
62	M77A	Z	-.3	-.3	0	%100
63	M78	X	-.52	-.52	0	%100
64	M78	Z	-.3	-.3	0	%100
65	M79A	X	-1.037	-1.037	0	%100
66	M79A	Z	-.599	-.599	0	%100
67	M82	X	-.144	-.144	0	%100
68	M82	Z	-.083	-.083	0	%100
69	M83A	X	-.144	-.144	0	%100
70	M83A	Z	-.083	-.083	0	%100
71	M87	X	0	0	0	%100
72	M87	Z	0	0	0	%100
73	M88A	X	-.264	-.264	0	%100
74	M88A	Z	-.153	-.153	0	%100
75	M90	X	-.278	-.278	0	%100
76	M90	Z	-.161	-.161	0	%100
77	M92A	X	0	0	0	%100
78	M92A	Z	0	0	0	%100
79	M93	X	-.264	-.264	0	%100
80	M93	Z	-.153	-.153	0	%100
81	M95	X	-.278	-.278	0	%100
82	M95	Z	-.161	-.161	0	%100
83	M82A	X	-.151	-.151	0	%100
84	M82A	Z	-.087	-.087	0	%100
85	M91B	X	-.605	-.605	0	%100
86	M91B	Z	-.349	-.349	0	%100
87	MP3C	X	-.411	-.411	0	%100
88	MP3C	Z	-.237	-.237	0	%100
89	MP4C	X	-.497	-.497	0	%100
90	MP4C	Z	-.287	-.287	0	%100
91	MP2C	X	-.411	-.411	0	%100
92	MP2C	Z	-.237	-.237	0	%100
93	MP1C	X	-.411	-.411	0	%100
94	MP1C	Z	-.237	-.237	0	%100
95	MP3B	X	-.411	-.411	0	%100
96	MP3B	Z	-.237	-.237	0	%100
97	MP4B	X	-.497	-.497	0	%100
98	MP4B	Z	-.287	-.287	0	%100
99	MP2B	X	-.411	-.411	0	%100
100	MP2B	Z	-.237	-.237	0	%100
101	MP1B	X	-.411	-.411	0	%100
102	MP1B	Z	-.237	-.237	0	%100
103	M100	X	-.124	-.124	0	%100
104	M100	Z	-.072	-.072	0	%100
105	M105	X	-.124	-.124	0	%100
106	M105	Z	-.072	-.072	0	%100
107	M106	X	-.497	-.497	0	%100
108	M106	Z	-.287	-.287	0	%100
109	M121	X	-.158	-.158	0	%100
110	M121	Z	-.091	-.091	0	%100
111	M122	X	-.158	-.158	0	%100
112	M122	Z	-.091	-.091	0	%100
113	M123	X	-.633	-.633	0	%100
114	M123	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	-.262	-.262	0	%100
2	M1	Z	-.454	-.454	0	%100
3	M4	X	-.089	-.089	0	%100
4	M4	Z	-.154	-.154	0	%100
5	M10	X	-.225	-.225	0	%100
6	M10	Z	-.39	-.39	0	%100
7	MP3A	X	-.237	-.237	0	%100
8	MP3A	Z	-.411	-.411	0	%100
9	MP4A	X	-.287	-.287	0	%100
10	MP4A	Z	-.497	-.497	0	%100
11	MP2A	X	-.237	-.237	0	%100
12	MP2A	Z	-.411	-.411	0	%100
13	MP1A	X	-.237	-.237	0	%100
14	MP1A	Z	-.411	-.411	0	%100
15	M43	X	-.225	-.225	0	%100
16	M43	Z	-.39	-.39	0	%100
17	M46	X	-.449	-.449	0	%100
18	M46	Z	-.778	-.778	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.249	-.249	0	%100
22	M52B	Z	-.432	-.432	0	%100
23	M76	X	-.15	-.15	0	%100
24	M76	Z	-.259	-.259	0	%100
25	M77	X	0	0	0	%100
26	M77	Z	0	0	0	%100
27	M80	X	0	0	0	%100
28	M80	Z	0	0	0	%100
29	M84	X	-.15	-.15	0	%100
30	M84	Z	-.259	-.259	0	%100
31	M85	X	-.458	-.458	0	%100
32	M85	Z	-.792	-.792	0	%100
33	M91	X	-.482	-.482	0	%100
34	M91	Z	-.835	-.835	0	%100
35	M52A	X	-.355	-.355	0	%100
36	M52A	Z	-.615	-.615	0	%100
37	M53	X	0	0	0	%100
38	M53	Z	0	0	0	%100
39	M54	X	0	0	0	%100
40	M54	Z	0	0	0	%100
41	M55	X	0	0	0	%100
42	M55	Z	0	0	0	%100
43	M58A	X	-.249	-.249	0	%100
44	M58A	Z	-.432	-.432	0	%100
45	M59A	X	-.249	-.249	0	%100
46	M59A	Z	-.432	-.432	0	%100
47	M63	X	-.599	-.599	0	%100
48	M63	Z	-1.037	-1.037	0	%100
49	M64	X	-.458	-.458	0	%100
50	M64	Z	-.792	-.792	0	%100
51	M66	X	-.482	-.482	0	%100
52	M66	Z	-.835	-.835	0	%100
53	M68	X	-.599	-.599	0	%100
54	M68	Z	-1.037	-1.037	0	%100
55	M69	X	-.458	-.458	0	%100
56	M69	Z	-.792	-.792	0	%100
57	M71	X	-.482	-.482	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,%]
58	M71	Z	-.835	-.835	0	%100
59	M76A	X	-.089	-.089	0	%100
60	M76A	Z	-.154	-.154	0	%100
61	M77A	X	-.225	-.225	0	%100
62	M77A	Z	-.39	-.39	0	%100
63	M78	X	-.225	-.225	0	%100
64	M78	Z	-.39	-.39	0	%100
65	M79A	X	-.449	-.449	0	%100
66	M79A	Z	-.778	-.778	0	%100
67	M82	X	-.249	-.249	0	%100
68	M82	Z	-.432	-.432	0	%100
69	M83A	X	0	0	0	%100
70	M83A	Z	0	0	0	%100
71	M87	X	-.15	-.15	0	%100
72	M87	Z	-.259	-.259	0	%100
73	M88A	X	-.458	-.458	0	%100
74	M88A	Z	-.792	-.792	0	%100
75	M90	X	-.482	-.482	0	%100
76	M90	Z	-.835	-.835	0	%100
77	M92A	X	-.15	-.15	0	%100
78	M92A	Z	-.259	-.259	0	%100
79	M93	X	0	0	0	%100
80	M93	Z	0	0	0	%100
81	M95	X	0	0	0	%100
82	M95	Z	0	0	0	%100
83	M82A	X	0	0	0	%100
84	M82A	Z	0	0	0	%100
85	M91B	X	-.262	-.262	0	%100
86	M91B	Z	-.454	-.454	0	%100
87	MP3C	X	-.237	-.237	0	%100
88	MP3C	Z	-.411	-.411	0	%100
89	MP4C	X	-.287	-.287	0	%100
90	MP4C	Z	-.497	-.497	0	%100
91	MP2C	X	-.237	-.237	0	%100
92	MP2C	Z	-.411	-.411	0	%100
93	MP1C	X	-.237	-.237	0	%100
94	MP1C	Z	-.411	-.411	0	%100
95	MP3B	X	-.237	-.237	0	%100
96	MP3B	Z	-.411	-.411	0	%100
97	MP4B	X	-.287	-.287	0	%100
98	MP4B	Z	-.497	-.497	0	%100
99	MP2B	X	-.237	-.237	0	%100
100	MP2B	Z	-.411	-.411	0	%100
101	MP1B	X	-.237	-.237	0	%100
102	MP1B	Z	-.411	-.411	0	%100
103	M100	X	-.215	-.215	0	%100
104	M100	Z	-.373	-.373	0	%100
105	M105	X	0	0	0	%100
106	M105	Z	0	0	0	%100
107	M106	X	-.215	-.215	0	%100
108	M106	Z	-.373	-.373	0	%100
109	M121	X	0	0	0	%100
110	M121	Z	0	0	0	%100
111	M122	X	-.274	-.274	0	%100
112	M122	Z	-.475	-.475	0	%100
113	M123	X	-.274	-.274	0	%100
114	M123	Z	-.475	-.475	0	%100

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M82	Y	-1.812	-4.256	0	.832
2	M82	Y	-4.256	-6.773	.832	1.665
3	M82	Y	-6.773	-7.943	1.665	2.497
4	M82	Y	-7.943	-6.32	2.497	3.329
5	M82	Y	-6.32	-3.329	3.329	4.162
6	M83A	Y	-3.33	-6.293	0	.832
7	M83A	Y	-6.293	-7.874	.832	1.665
8	M83A	Y	-7.874	-6.636	1.665	2.497
9	M83A	Y	-6.636	-4.066	2.497	3.329
10	M83A	Y	-4.066	-1.597	3.329	4.162
11	M51B	Y	-1.597	-4.066	0	.832
12	M51B	Y	-4.066	-6.636	.832	1.665
13	M51B	Y	-6.636	-7.874	1.665	2.497
14	M51B	Y	-7.874	-6.293	2.497	3.329
15	M51B	Y	-6.293	-3.33	3.329	4.162
16	M52B	Y	-3.329	-6.32	0	.832
17	M52B	Y	-6.32	-7.943	.832	1.665
18	M52B	Y	-7.943	-6.773	1.665	2.497
19	M52B	Y	-6.773	-4.256	2.497	3.329
20	M52B	Y	-4.256	-1.812	3.329	4.162
21	M58A	Y	-1.597	-4.066	0	.832
22	M58A	Y	-4.066	-6.636	.832	1.665
23	M58A	Y	-6.636	-7.874	1.665	2.497
24	M58A	Y	-7.874	-6.293	2.497	3.329
25	M58A	Y	-6.293	-3.33	3.329	4.162
26	M59A	Y	-3.329	-6.32	0	.832
27	M59A	Y	-6.32	-7.943	.832	1.665
28	M59A	Y	-7.943	-6.773	1.665	2.497
29	M59A	Y	-6.773	-4.256	2.497	3.329
30	M59A	Y	-4.256	-1.812	3.329	4.162

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M82	Y	-4.711	-11.065	0	.832
2	M82	Y	-11.065	-17.611	.832	1.665
3	M82	Y	-17.611	-20.651	1.665	2.497
4	M82	Y	-20.651	-16.433	2.497	3.329
5	M82	Y	-16.433	-8.654	3.329	4.162
6	M83A	Y	-8.658	-16.361	0	.832
7	M83A	Y	-16.361	-20.471	.832	1.665
8	M83A	Y	-20.471	-17.255	1.665	2.497
9	M83A	Y	-17.255	-10.571	2.497	3.329
10	M83A	Y	-10.571	-4.153	3.329	4.162
11	M51B	Y	-4.153	-10.571	0	.832
12	M51B	Y	-10.571	-17.255	.832	1.665
13	M51B	Y	-17.255	-20.471	1.665	2.497
14	M51B	Y	-20.471	-16.361	2.497	3.329
15	M51B	Y	-16.361	-8.658	3.329	4.162
16	M52B	Y	-8.654	-16.433	0	.832
17	M52B	Y	-16.433	-20.651	.832	1.665
18	M52B	Y	-20.651	-17.611	1.665	2.497
19	M52B	Y	-17.611	-11.065	2.497	3.329
20	M52B	Y	-11.065	-4.711	3.329	4.162
21	M58A	Y	-4.153	-10.571	0	.832
22	M58A	Y	-10.571	-17.255	.832	1.665
23	M58A	Y	-17.255	-20.471	1.665	2.497

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M58A	Y	-20.471	-16.361	2.497	3.329
25	M58A	Y	-16.361	-8.658	3.329	4.162
26	M59A	Y	-8.654	-16.433	0	.832
27	M59A	Y	-16.433	-20.651	.832	1.665
28	M59A	Y	-20.651	-17.611	1.665	2.497
29	M59A	Y	-17.611	-11.065	2.497	3.329
30	M59A	Y	-11.065	-4.711	3.329	4.162

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N118	N117	N139	N141	Y	Two Way	-.005
2	N6	N7	N87B	N87C	Y	Two Way	-.005
3	N89	N90	N113	N111	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N118	N117	N139	N141	Y	Two Way	-.013
2	N6	N7	N87B	N87C	Y	Two Way	-.013
3	N89	N90	N113	N111	Y	Two Way	-.013

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	N3	max	585.535	10	2404.541	13	2413.338	1	5.444	1	1.247	4	.157	2
2		min	-610.132	4	-17.842	7	-2592.749	7	-1.402	7	-1.284	10	-.382	8
3	N87D	max	1950.42	9	2369.196	21	1338.421	2	.352	3	1.332	12	1.271	3
4		min	-2091.65	3	22.067	3	-1220.81	8	-2.814	33	-1.365	6	-4.594	9
5	N115	max	2246.038	11	2406.763	17	1201.001	11	.945	11	1.246	8	4.634	17
6		min	-2080.466	5	10.688	11	-1135.513	5	-2.769	5	-1.282	2	-.968	11
7	Totals:	max	4326.226	10	6520.134	13	4539.82	1						
8		min	-4326.219	4	3027.01	7	-4539.821	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M1	PIPE_3.0	.164	4.948	19	.081	8.854		7	28250.5...	65205	5.749	5.749	2....	H1-1b
2	M4	HSS4X4X4	.355	0	1	.078	0	y	24	124657....	139518	16.181	16.181	2....	H1-1b
3	M10	HSS4X4X4	.167	2.375	13	.047	.223	z	1	136263....	139518	16.181	16.181	1....	H1-1b
4	MP3A	PIPE_2.0	.354	4.5	5	.078	1.938		3	20866.7...	32130	1.872	1.872	1....	H1-1b
5	MP4A	PIPE_2.5	.241	5.469	5	.085	2.552		7	33961.6...	50715	3.596	3.596	2....	H1-1b
6	MP2A	PIPE_2.0	.397	4.5	4	.087	4.5		9	20866.7...	32130	1.872	1.872	1....	H1-1b
7	MP1A	PIPE_2.0	.433	4.5	9	.114	4.5		8	20866.7...	32130	1.872	1.872	1....	H1-1b
8	M43	HSS4X4X4	.158	0	24	.055	0	y	24	136263....	139518	16.181	16.181	1....	H1-1b
9	M46	PL1/2x6	.227	.516	2	.144	.516	y	3	66009.2...	97200	1.012	12.15	1....	H1-1b
10	M51B	L2x2x3	.142	0	2	.013	4.162	y	16	9823.122	23392.8	.558	1.085	1....	H2-1
11	M52B	L2x2x3	.152	0	12	.012	0	y	21	9823.122	23392.8	.558	1.084	1....	H2-1
12	M76	PL3/8x6	.255	0	2	.300	0	y	18	70647.0...	72900	.57	9.113	1....	H1-1b
13	M77	PL3/8x6	.249	.167	7	.323	0	y	13	71583.5...	72900	.57	9.092	1....	H1-1b
14	M80	PL1/2x6	.074	.112	1	.106	.112	y	5	96757.5...	97200	1.012	12.15	1....	H1-1b
15	M84	PL3/8x6	.193	0	12	.173	0	y	9	70647.0...	72900	.57	9.113	1....	H1-1b
16	M85	PL3/8x6	.269	.167	6	.328	0	y	24	71583.5...	72900	.57	9.113	1....	H1-1b
17	M91	PL1/2x6	.067	.112	1	.147	0	y	3	96757.5...	97200	1.012	12.15	1....	H1-1b
18	M52A	HSS4X4X4	.340	0	9	.089	0	y	31	124657....	139518	16.181	16.181	2....	H1-1b
19	M53	HSS4X4X4	.164	2.375	22	.045	.223	z	9	136263....	139518	16.181	16.181	1....	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
20	M54	HSS4X4X4	.157	0	20	.055	0	y	20	136263....	139518	16.181	16.181	1....	H1-1b
21	M55	PL1/2x6	.222	.516	10	.146	.516	y	12	66009.2...	97200	1.012	12.15	1....	H1-1b
22	M58A	L2x2x3	.138	0	10	.013	4.162	y	24	9823.122	23392.8	.558	1.085	1....	H2-1
23	M59A	L2x2x3	.148	0	8	.012	0	y	17	9823.122	23392.8	.558	1.084	1....	H2-1
24	M63	PL3/8x6	.253	0	10	.298	0	y	14	70647.0...	72900	.57	9.113	1....	H1-1b
25	M64	PL3/8x6	.239	.167	3	.318	0	y	21	71583.5...	72900	.57	9.079	1....	H1-1b
26	M66	PL1/2x6	.071	.112	9	.108	.112	y	1	96757.5...	97200	1.012	12.15	1....	H1-1b
27	M68	PL3/8x6	.176	0	8	.176	0	y	5	70647.0...	72900	.57	9.113	1....	H1-1b
28	M69	PL3/8x6	.261	.167	2	.327	0	y	20	71583.5...	72900	.57	9.113	1....	H1-1b
29	M71	PL1/2x6	.064	.112	9	.148	0	y	11	96757.5...	97200	1.012	12.15	1....	H1-1b
30	M76A	HSS4X4X4	.346	0	5	.079	0	y	15	124657....	139518	16.181	16.181	2....	H1-1b
31	M77A	HSS4X4X4	.167	2.375	18	.047	.223	z	5	136263....	139518	16.181	16.181	1....	H1-1b
32	M78	HSS4X4X4	.159	0	16	.056	0	y	16	136263....	139518	16.181	16.181	1....	H1-1b
33	M79A	PL1/2x6	.234	.516	6	.147	.516	y	7	66009.2...	97200	1.012	12.15	1....	H1-1b
34	M82	L2x2x3	.144	0	6	.013	4.162	y	20	9823.122	23392.8	.558	1.084	1....	H2-1
35	M83A	L2x2x3	.147	0	4	.012	0	y	13	9823.122	23392.8	.558	1.085	1....	H2-1
36	M87	PL3/8x6	.266	0	6	.298	0	y	22	70647.0...	72900	.57	9.113	1....	H1-1b
37	M88A	PL3/8x6	.247	.167	11	.322	0	y	17	71583.5...	72900	.57	9.058	1	H1-1b
38	M90	PL1/2x6	.073	.112	6	.103	.112	y	8	96757.5...	97200	1.012	12.15	1....	H1-1b
39	M92A	PL3/8x6	.176	0	4	.180	0	y	1	70647.0...	72900	.57	9.113	1....	H1-1b
40	M93	PL3/8x6	.261	.167	11	.331	0	y	16	71583.5...	72900	.57	9.113	1....	H1-1b
41	M95	PL1/2x6	.066	.112	5	.151	0	y	7	96757.5...	97200	1.012	12.15	1....	H1-1b
42	M82A	PIPE_3.0	.165	4.948	15	.079	8.854		3	28250.5...	65205	5.749	5.749	2....	H1-1b
43	M91B	PIPE_3.0	.163	4.948	23	.081	8.854		12	28250.5...	65205	5.749	5.749	2....	H1-1b
44	MP3C	PIPE_2.0	.361	4.5	12	.078	1.938		11	20866.7...	32130	1.872	1.872	1....	H1-1b
45	MP4C	PIPE_2.5	.245	5.469	1	.081	2.552		3	33961.6...	50715	3.596	3.596	1....	H1-1b
46	MP2C	PIPE_2.0	.419	4.5	6	.090	4.5		6	20866.7...	32130	1.872	1.872	1....	H1-1b
47	MP1C	PIPE_2.0	.444	4.5	5	.112	4.5		4	20866.7...	32130	1.872	1.872	1....	H1-1b
48	MP3B	PIPE_2.0	.354	4.5	8	.081	1.938		7	20866.7...	32130	1.872	1.872	1....	H1-1b
49	MP4B	PIPE_2.5	.236	5.469	9	.080	2.552		11	33961.6...	50715	3.596	3.596	1....	H1-1b
50	MP2B	PIPE_2.0	.421	4.5	1	.092	4.5		1	20866.7...	32130	1.872	1.872	1....	H1-1b
51	MP1B	PIPE_2.0	.452	4.5	1	.118	4.5		12	20866.7...	32130	1.872	1.872	1....	H1-1b
52	M100	PIPE_2.5	.238	10.807	5	.072	8.854		4	14558.7...	50715	3.596	3.596	2....	H1-1b
53	M105	PIPE_2.5	.239	10.807	1	.073	8.854		12	14558.7...	50715	3.596	3.596	2....	H1-1b
54	M106	PIPE_2.5	.231	10.807	8	.074	10.286		7	14558.7...	50715	3.596	3.596	2....	H1-1b
55	M121	L3X3X4	.434	0	6	.048	0	y	12	41767.2...	46656	1.688	3.756	2....	H2-1
56	M122	L3X3X4	.419	0	11	.046	.256	y	4	41767.2...	46656	1.688	3.756	2....	H2-1
57	M123	L3X3X4	.422	0	2	.047	0	y	8	41767.2...	46656	1.688	3.756	2....	H2-1

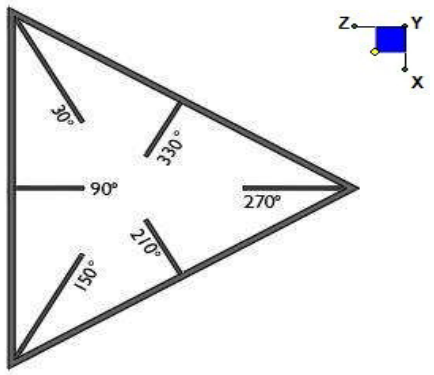
Client:	Verizon Wireless	Date:	8/9/2021
Site Name:	Branford 4 CT-A		
Project No.	21781008A		
Title:	Mount Fix	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

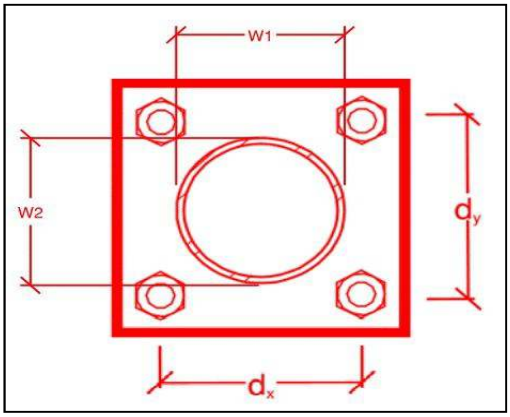
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N87D	30
N115	150
N3	270



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
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 (kips):	24.2
Required Shear Strength (kips):	4.1
Tensile Strength / bolt (kips):	20.7
Shear Strength / bolt (kips):	12.4
Tensile Capacity Overall:	**29.2%***
Shear Capacity Overall:	**8.2%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	8
Plate Height (in):	8
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.625
Weld Size (1/16 in):	5
Phi*Rn (kip/in):	6.96
Required Weld Strength (kip/in):	3.22
Plate Bending Capacity:	**49.0%**
Weld Capacity:	**46.2%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)*:	12.1
Phi*Mn_{xx} *(kip-in)*:	25.3
Mu_{yy} *(kip-in)*:	0.3
Phi*Mn_{yy} *(kip-in)*:	25.3

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

---

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

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

- 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) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded **to** https://pmi.vzwsmart.com as depicted on the drawings

Photo Requirements:

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

- *Photos taken at Mount Elevation*
    - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
        - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
    - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
    - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
    - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (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, a tape drop measurement shall be provided before the elevation change
    - 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.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
    - If the drawings are as specified on the drawings
        - The contractor should provide the packing list or the materials utilized to perform the mount modification
    - If an equivalent is utilized
        - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

☐ The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

☐ The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.

☐ The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Contractor to Install safety climb wire clip on existing standoff horizontal such that the existing safety climb wire does not contact the existing mount members. Contractor shall verify all dimensions and member sizes shown in the mount geometry verification requirements section of the mount modification drawings. Contact EOR if these documents are not available to the general contractor.

Response:

Schedule A – Photo & Document File Structure

- VzW Site Number / Name
  - Base & "During Installation" Photos
  - Pre-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
  - Post-Installation Photos
    - Alpha
    - Beta
    - Gamma
    - Ground Level
    - Tape Drop
    - Photos of climbing facility and safety climb – If Present
  - Certifications – Submission of this document including certifications
  - Specific Required Additional Photos

Structure: 467600-VZW - BRANFORD_4_CT - A

Sector: **A** 8/9/2021

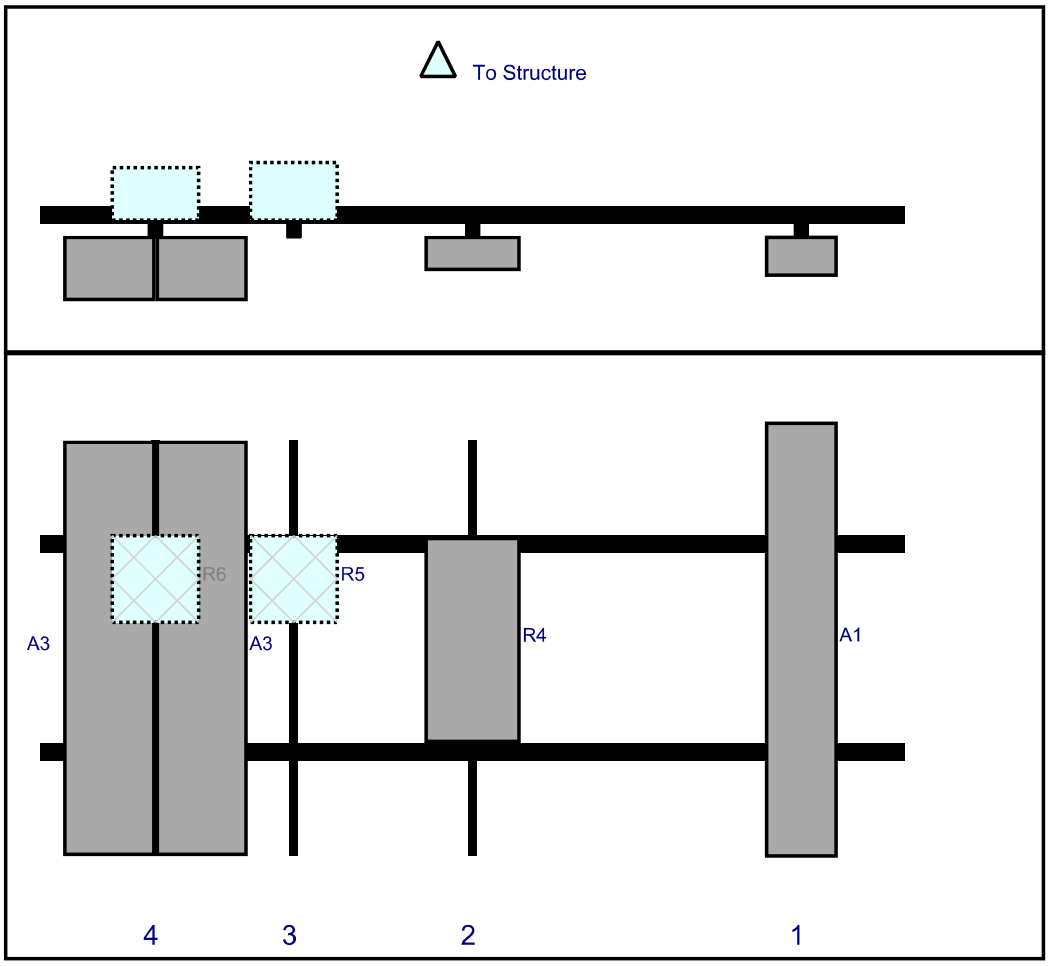
Structure Type: Monopole 10091623

Mount Elev: 110.00 Page: 1

MASER CONSULTING CONNECTICUT

Plan View

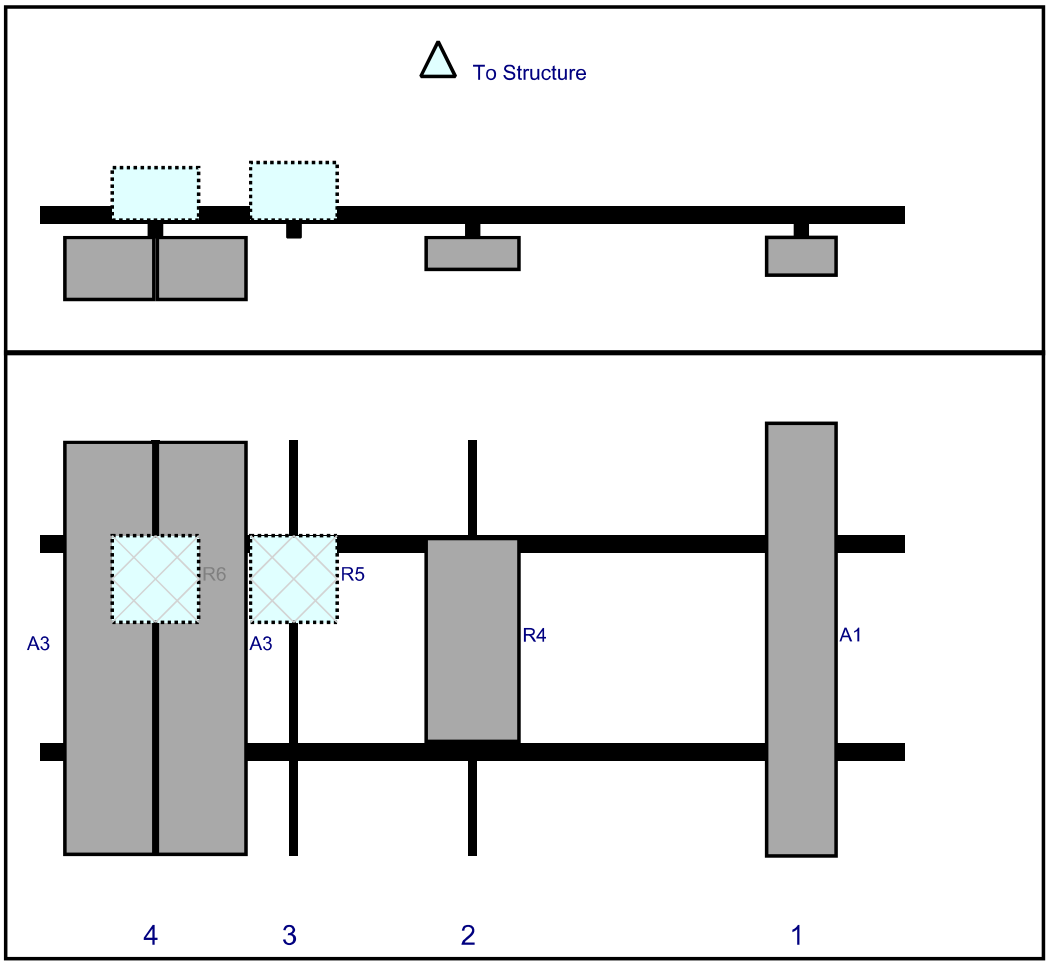
Front View
Looking at Structure



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
A1	HBXX-6517DS-A2M	74.9	12	132	1	a	Front	34.5	0	Retained	
R4	MT6407-77A	35.1	16.1	75	2	a	Front	34.56	0	Added	
R5	RF4439d-25A	15	15	44	3	a	Behind	24	0	Added	
A3	MX06FRO660-03	71.3	15.4	20	4	a	Front	36	8	Added	
A3	MX06FRO660-03	71.3	15.4	20	4	b	Front	36	-8	Added	
R6	RF4440d-13A	15	15	20	4	a	Behind	24	0	Added	

Plan View

Front View
Looking at Structure



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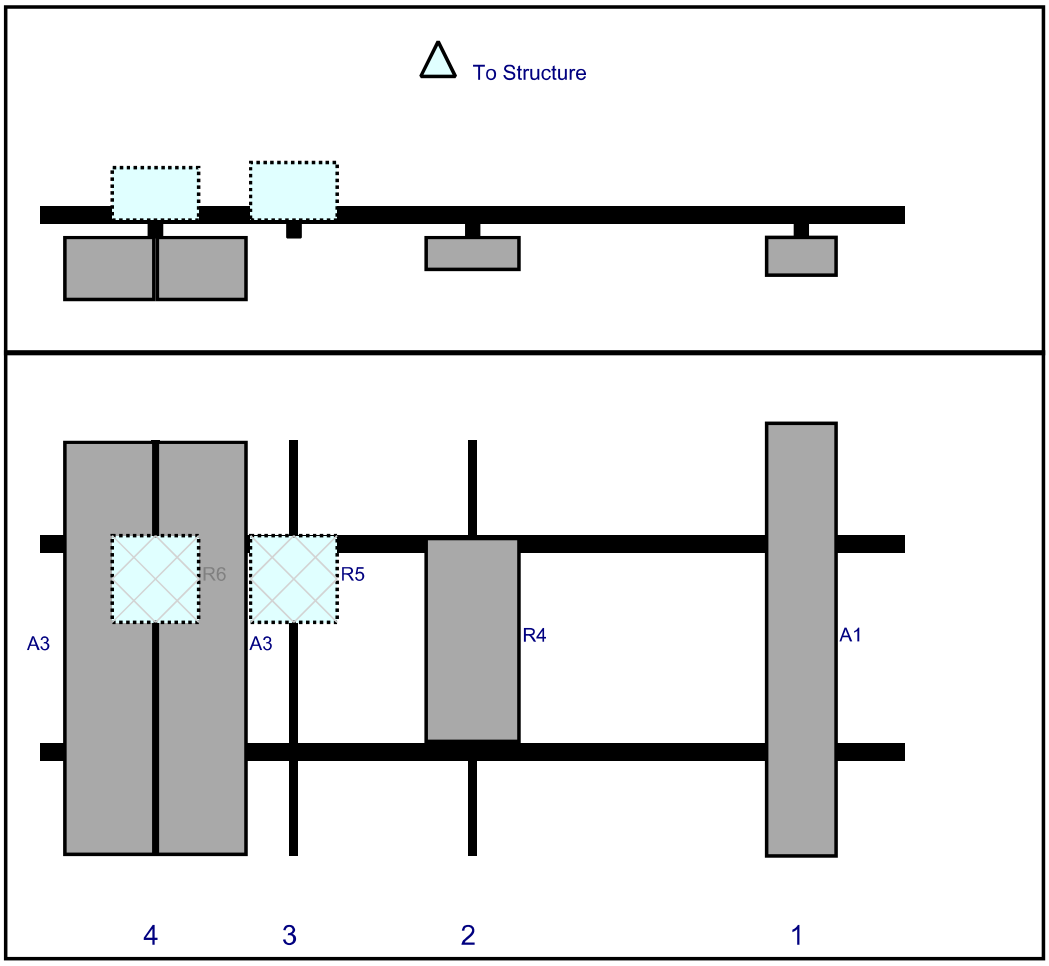
A3	MX06FRO660-03	71.3	15.4	20	4	a	Front	36	8	Added	
A3	MX06FRO660-03	71.3	15.4	20	4	b	Front	36	-8	Added	
R6	RF4440d-13A	15	15	20	4	a	Behind	24	0	Added	

Plan View

Front View
Looking at Structure



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R5	RF4439d-25A	15	15	44	3	a	Behind	24	0	Added	
A3	MX06FRO660-03	71.3	15.4	20	4	a	Front	36	8	Added	
A3	MX06FRO660-03	71.3	15.4	20	4	b	Front	36	-8	Added	
R6	RF4440d-13A	15	15	20	4	a	Behind	24	0	Added	
R4	MT6407-77A	35.1	16.1	75	2	a	Front	34.56	0	Added	

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	*Site ID:*	*467600-VZW / BRANFORD_4_CT - A*
	Site Name:	*BRANFORD_4_CT - A*
	Carrier Name:	*Verizon Wireless*
	Address:	*10 Silvia St* *Branford, Connecticut 06405* *New Haven County*
	Latitude:	*41.2939261°*
	Longitude:	*-72.7857085°*
Structure Information	*Tower Type:*	*125-Ft Monopole*
	Mount Type:	*12.50-Ft Platform*
	FUZE ID # 16244652	

To Whom It May Concern,

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

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

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

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

Sincerely,

Eric Anderson, PE
Technical Specialist

Exhibit F

Power Density/RF Emissions Report

Site Name: ***BRANFORD 4 CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)
VZW 700	751	4	638	2552	112	0.0073
VZW Cellular	874	4	638	2552	112	0.0073
VZW PCS	1975	4	1496	5982	112	0.0172
VZW AWS	2120	2	1566	3132	112	0.0090
VZW CBAND	3730.08	2	21627	43254	112	0.1240

Total Percentage of Maximum Permissible Exposure

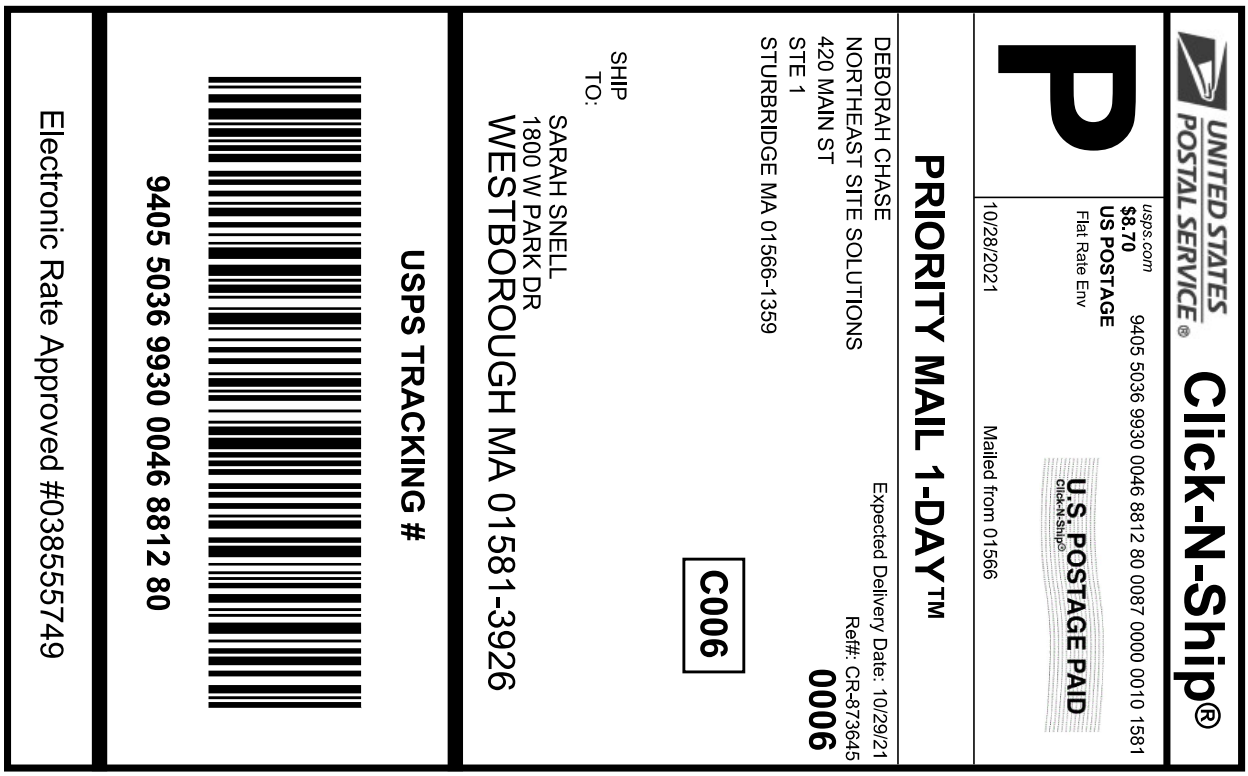
*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/I
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council'

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

Exhibit G

Recipient Mailings



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4. **To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

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USPS TRACKING # :
9405 5036 9930 0046 8812 80

Trans. #:	547108995
Print Date:	10/28/2021
Ship Date:	10/28/2021
Expected Delivery Date:	10/29/2021

Priority Mail® Postage:	**$8.70**
Total:	**$8.70**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-873645

To: SARAH SNELL
1800 W PARK DR
WESTBOROUGH MA 01581-3926

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

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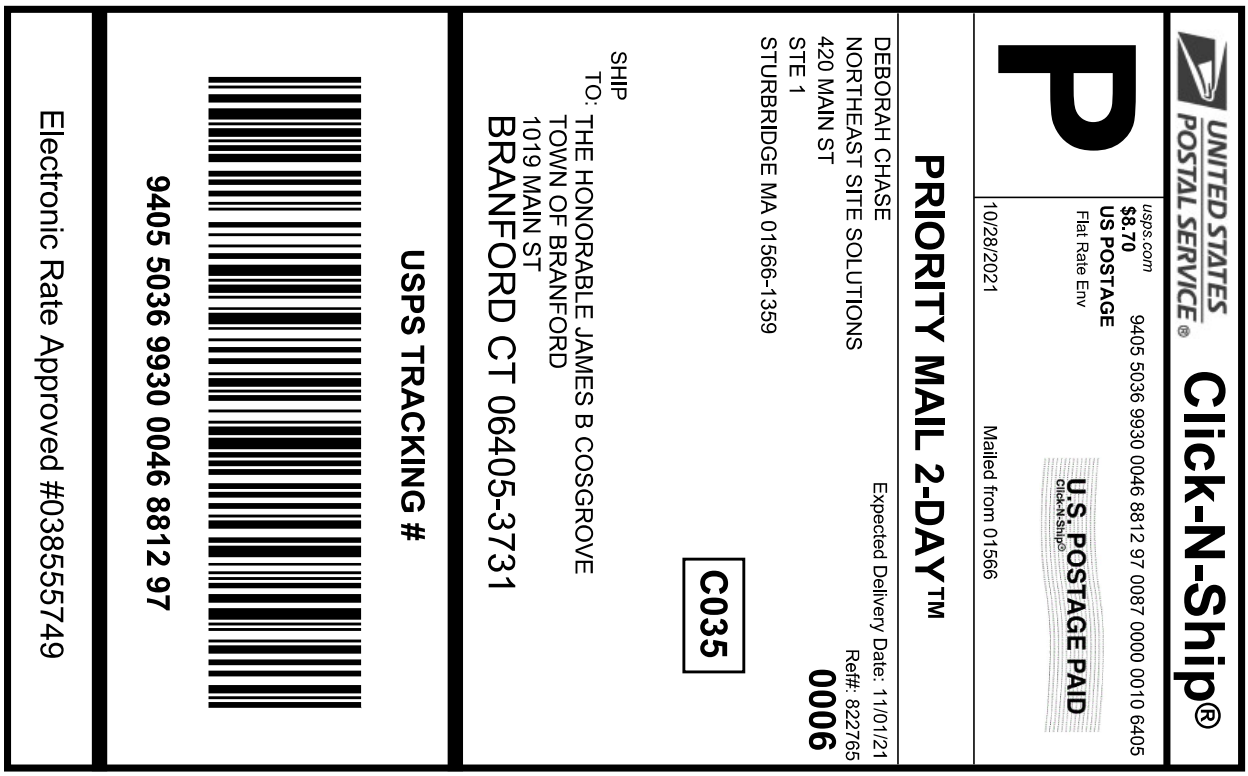

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USPS TRACKING # :
9405 5036 9930 0046 8812 97

Trans. #:	547108995
Print Date:	10/28/2021
Ship Date:	10/28/2021
Expected Delivery Date:	11/01/2021

Priority Mail® Postage:	**$8.70**
Total:	**$8.70**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359
Ref#: 822765

To: THE HONORABLE JAMES B COSGROVE
TOWN OF BRANFORD
1019 MAIN ST
BRANFORD CT 06405-3731

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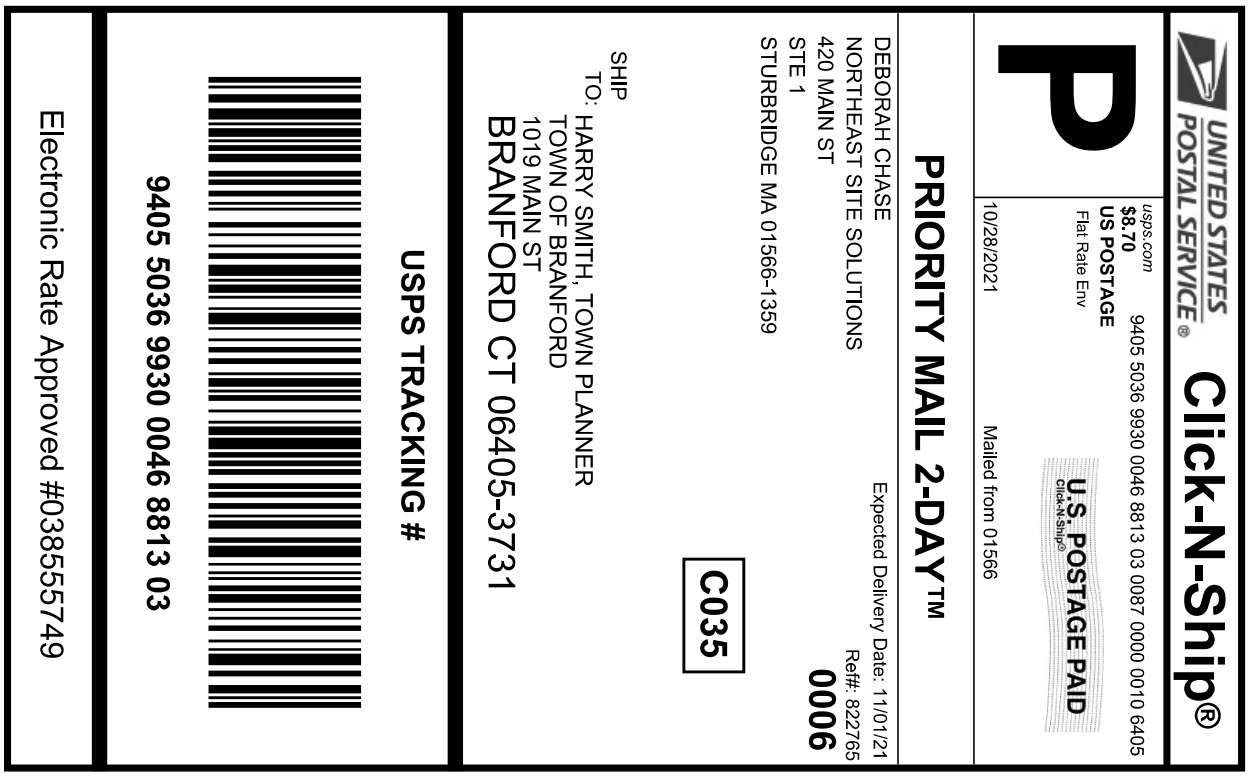

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0046 8813 03

Trans. #:	547108995
Print Date:	10/28/2021
Ship Date:	10/28/2021
Expected Delivery Date:	11/01/2021

Priority Mail® Postage:	**$8.70**
Total:	**$8.70**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: 822765

To: HARRY SMITH, TOWN PLANNER
TOWN OF BRANFORD
1019 MAIN ST
BRANFORD CT 06405-3731

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

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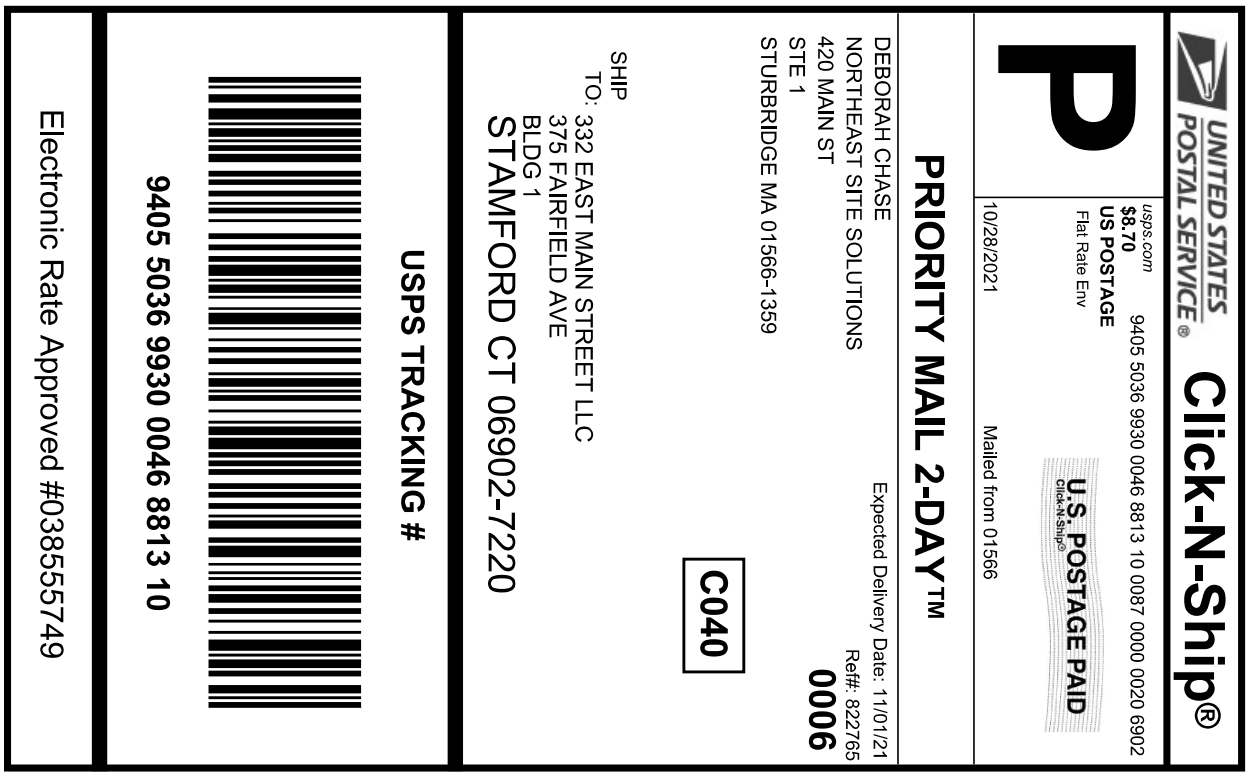

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0046 8813 10

Trans. #:	547108995
Print Date:	10/28/2021
Ship Date:	10/28/2021
Expected Delivery Date:	11/01/2021

Priority Mail® Postage:	**$8.70**
Total:	**$8.70**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: 822765

To: 332 EAST MAIN STREET LLC
375 FAIRFIELD AVE
BLDG 1
STAMFORD CT 06902-7220

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com

822765

UNITED STATES POSTAL SERVICE.

UNIONVILLE
24 MILL ST
UNIONVILLE, CT 06085-9998
(800)275-8777

11/01/2021 11:53 AM

Product	Qty	Unit Price	Price
Prepaid Mail Westborough, MA 01581 Weight: 0 lb 2.00 oz Acceptance Date: Mon 11/01/2021 Tracking #: 9405 5036 9930 0046 8812 80	1		$0.00
Prepaid Mail Branford, CT 06405 Weight: 1 lb 7.80 oz Acceptance Date: Mon 11/01/2021 Tracking #: 9405 5036 9930 0046 8812 97	1		$0.00
Prepaid Mail Branford, CT 06405 Weight: 1 lb 7.90 oz Acceptance Date: Mon 11/01/2021 Tracking #: 9405 5036 9930 0046 8813 03	1		$0.00
Prepaid Mail Stamford, CT 06902 Weight: 1 lb 7.90 oz Acceptance Date: Mon 11/01/2021 Tracking #: 9405 5036 9930 0046 8813 10	1		$0.00