NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

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

November 15, 2021

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

RE: Exempt Modification Application
2715 Mountain Road, Suffield, CT 06078
Latitude: 42.011667
Longitude: -72.728889
Site #: 801485_Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 2715 Mountain Road, Suffield, CT 06078. Verizon Wireless currently maintains twelve (12) antennas at the 160-foot level of the existing 192-foot tower. The property is owned by the Town of Suffield and the tower is owned by Crown Castle. Verizon now intends to replace three (3) antennas. The new antennas would be installed at the 160-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and 5G capable. Antenna mount modifications will be completed as per the attached GPD / Maser mount analysis dated September 17, 2021.

Verizon Planned Modifications:

Remove:
(3) ANTEL LPA-80063-6CF Antennas
(7) 1-5/8" Coax

Remove and Replace:
(3) ANTEL LPA-80063-6CF Antennas (REMOVE) – (3) MT6407-77A Antennas (REPLACE)
(3) Nokia B66 RRH (REMOVE) - (3) Samsung RF4439D-25A (REPLACE)
(3) Nokia B13 RRH (REMOVE) - (3) Samsung RF4440D-13A (REPLACE)
(1) Raycap OVP 6 (REMOVE) - (1) Raycap OVP 12 (REPLACE)

Install New:
(1) Hybrid Lines

Existing to Remain:
(6) ANDREW / COMMSCOPE Antennas
(11) 1-5/8" Coax
(1) Hybrid Lines

The facility was approved by the Town of Suffield Planning & Zoning Commission on May 1, 2000. Please see attached.

NORTHEAST SITE SOLUTIONS

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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 Melissa Mack, First Selectwoman, and Bill Hawkins, Director of Planning & Development for the Town of Suffield. A copy is also being sent to the tower owner and 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, Verizon Wireless 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
E-mail: denise@northeastsitesolutions.com

NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Attachments

Cc: Melissa Mack - First Selectwoman & Property Owner
Town of Suffield
83 Mountain Road, Suffield, CT 06078

Bill Hawkins - Director of Planning & Development
Town of Suffield
83 Mountain Road, Suffield, CT 06078

Crown Castle, Tower Owner

Exhibit A

Original Facility Approval

303/733

Recorded
6-21-00

May 4, 2000

Ms. Elaine Sarsynski, Director
Suffield Economic Development Commission
83 Mountain Road
Suffield, Connecticut 06078

Re: File #740 – Request of the Suffield Economic Development Commission for a special use permit for the approval of sites for telecommunication towers located on Town properties: WPCA, Highway Department, and Transfer Station.

Dear Ms. Sarsynski:

At a duly called Special Meeting of the Suffield Zoning and Planning Commission held on Monday, May 1, 2000, the Commission voted to approve the Town of Suffield's special use permit request for the for three (3) proposed telecommunication sites located as designated:

1. Town of Suffield Transfer Station site on the west side of Mountain Road (Route 168), on undeveloped land west of the Transfer Station operations (Site A);
2. Town of Suffield Public Works garage/maintenance facility off of Mountain Road, on land immediately adjacent to the Maintenance Facility Building (Site B); and
3. Town of Suffield Sewage Treatment Plant on the east side of East Street (Route 159), on undeveloped land along the north side of the Treatment's Plant's access driveway (Site C).

with the following conditions:

1. The heights of the respective mono-pole towers, including antennae, shall not exceed 199-feet (Site A); 120-feet (Site B); and 174-feet (Site C);
2. Each tower shall be certified as "self-collapsing" by a Connecticut registered professional engineer;
3. Details drawings are to be submitted with each request for building permits for both the towers and related facilities;
4. FCC licenses shall be produced prior to the issuance of the permits for company leasing space on the towers;
5. The Zoning Enforcement Officer shall review each proposal for zoning conformance prior to the issuance of the building permits;
6. All utilities are to be underground;
7. Site plans are to be revised.

A mylar and four (4) copies of site plans for each of the three approved sites must be submitted to this office as soon as possible for signatures.

Please remit a check in the amount of $10.00 (payable to the Town of Suffield), ***along with this original letter***, to the Office of the Town Clerk, 83 Mountain Road. This fee is required to cover the cost of recording the Special Use Permit in the Office of the Town Clerk.

Exhibit B

Property Card

Town of Suffield, CT

Property Listing Report

Map Block Lot **9-9-9** Account **09002**

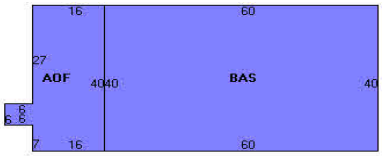
Property Information

Property Location	**2715 MOUNTAIN RD**
Owner	**SUFFIELD TOWN OF**
Co-Owner	**TOWN HALL**
Mailing Address	**83 MOUNTAIN RD** **SUFFIELD CT 06078**
Land Use	**903I Municipal MDL-96**
Land Class	**E**
Zoning Code	**R90**
Census Tract	**4772**

Neighborhood	**A**
Acreage	**51.01**
Utilities	
Lot Setting/Desc	
Additional Info	

Photo

Sketch



Primary Construction Details

Year Built	**2006**
Stories	**1**
Building Style	**Outbuildings**
Building Use	**Residential**
Building Condition	**Average**
Floors	**Concrete**
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	**Gable**
Roof Cover	**Metal**

Exterior Walls	**STEEL**
Interior Walls	**Minimum**
Heating Type	**None**
Heating Fuel	**Coal or Wood**
AC Type	**None**
Gross Bldg Area	**3076**
Total Living Area	**3076**

Report Created On **8/28/2019**

Town of Suffield, CT

Property Listing Report | Map Block Lot 9-9-9 | Account 09002

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	156600	109620
Extras	0	0
Improvements	171400	119980
Outbuildings	14800	10360
Land	445100	311570
Total	616500	431550

Outbuilding and Extra Items

Type	Description
Shed	240 S.F.
Scale - Electric	20 TONS

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	2400	2400
Office	676	676
Total Area	1152	0

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
SUFFIELD TOWN OF	180/ 870	6/5/1985	0
KEMENT WILLIAM B & IRENE N	147/ 933	5/4/1977	0

Report Created On 8/28/2019

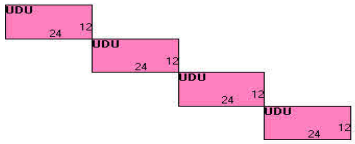
Town of Suffield, CT

Property Listing Report

Map Block Lot	9-9-9	Account	09002

Photo

Sketch



Primary Construction Details

Year Built	2006	Kitchen Style	n/a
Stories	1	Roof Style	Flat
Building Style	Outbuildings	Roof Cover	Metal
Building Use	Residential	Exterior Walls	Pre-finsh Metl
Building Condition	Average	Interior Walls	Minimum
Floors	Concrete	Heating Type	None
Total Rooms		Heating Fuel	Coal or Wood
Bedrooms		AC Type	None
Bathrooms		Gross Bldg Area	
Bath Style	n/a	Total Living Area	
Half Baths			

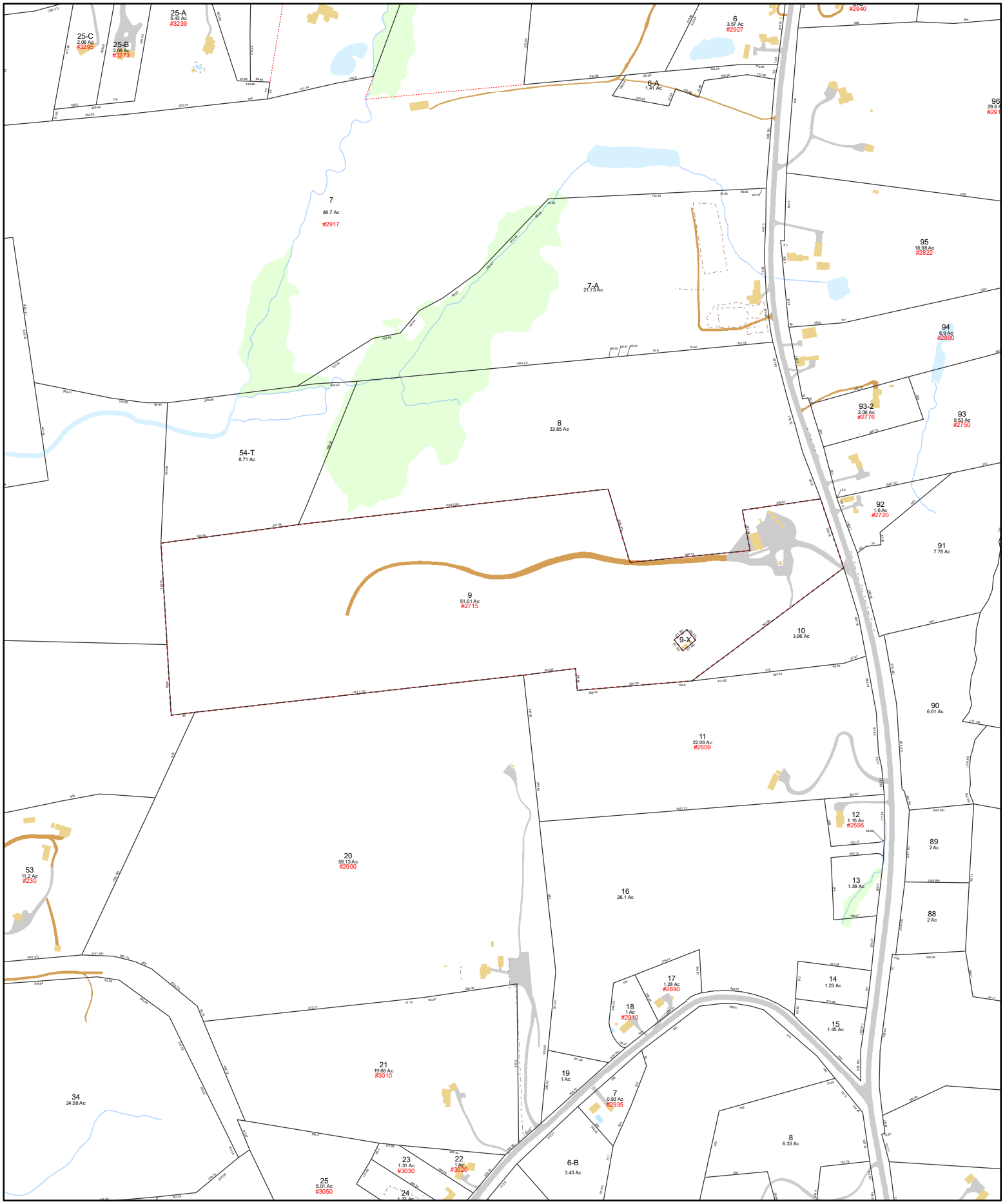
Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Utility,	1152	0
Total Area		

Report Created On 8/28/2019

Town of Suffield, Connecticut - Assessment Parcel Map

Parcel: 9-9-9 **Address: 2715 MOUNTAIN RD**



N W E S

0 140 280 560 840 1,120 Feet

Scale 1:6,600

Map Produced: February 2019
Grand List: October 2018

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The Town of Suffield and its mapping contractors assume no legal responsibility for the information contained herein.

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 467729
VERIZON SITE NAME: SUFFIELD W CT
SITE TYPE: MONOPOLE
TOWER HEIGHT: 190'-6"

BUSINESS UNIT #: 801485
SITE ADDRESS: 2715 MOUNTAIN RD.
SUFFIELD, CT 06093
COUNTY: HARTFORD
JURISDICTION: CONNECTICUT SITING COUNCIL

VERIZON 5G L-SUB6 - CARRIER ADD

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	CT SUFFIELD 1 CAC 801485
SITE ADDRESS:	2715 MOUNTAIN RD. SUFFIELD, CT 06093
COUNTY:	HARTFORD
MAP/PARCEL #:	9-9-9-X
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	42.011611
LONGITUDE:	-72.728778
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	371'
CURRENT ZONING:	R-90
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CROWN ATLANTIC COMPANY LLC 4017 WASHINGTON RD MCMURRAY, PA 15317
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 20 ALEXANDER DRIVE, 2ND FLOOR WALLINGFORD, CT 06492
ELECTRIC PROVIDER:	CT LIGHT & POWER
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:	
VERIZON CONTACT:	TIMOTHY PARKS TIMOTHY.PARKS@VERIZONWIRELESS.COM

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
ATTACHED	MOUNT ANALYSIS
ATTACHED	MOUNT MOD DRAWINGS
ATTACHED	MOUNT SPECS

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.vxwsmart.com
SMART TOOL VENDOR PROJECT NUMBER	----
VzW LOCATION CODE (PSLC)	----

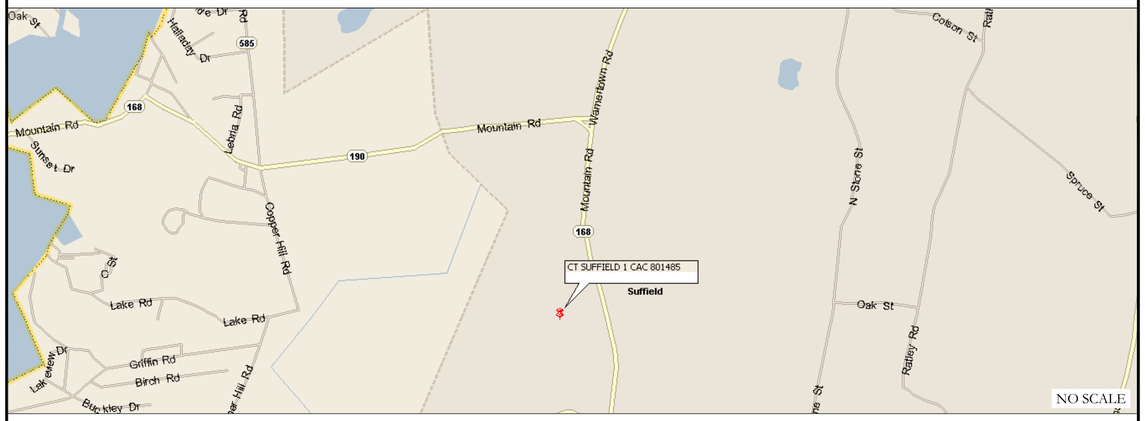
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED	**Y**

VzW APPROVED SMART KIT VENDORS

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

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (495 E MAIN ST, WESTFIELD, MA 01085)
CONTINUE TO E MAIN ST, HEAD EAST TOWARD E MAIN ST, TURN LEFT TOWARD E MAIN ST, DRIVE FROM LITTLE RIVER RD, PONTOOSIC RD, N LONGYARD RD, FOSTER RD, ... AND WARNERTOWN RD TO SUFFIELD, TURN RIGHT ONTO E MAIN ST, TURN RIGHT ONTO LITTLE RIVER RD, TURN RIGHT ONTO PONTOOSIC RD, CONTINUE ONTO N LONGYARD RD, CONTINUE ONTO FOSTER RD, CONTINUE STRAIGHT ONTO S LONGYARD RD, CONTINUE ONTO WARNERTOWN RD, CONTINUE ONTO CT-168 E, TURN 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:	MORRISON HERSHFIELD
DATED:	9/28/21
MOUNT ANALYSIS:	MASER CONSULTING CONNECTICUT
DATED:	9/17/21
RFDS REVISION:	-
DATED:	8/30/21
ORDER ID:	588826
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 (6) ANTENNAS
- REMOVE (6) RADIOS
- REMOVE (1) PENDANT
- REMOVE (7) COAX CABLES (1-5/8")
- RELOCATE (6) ANTENNAS
- INSTALL (3) ANTENNAS
- INSTALL (6) RADIOS
- INSTALL (1) PENDANT
- INSTALL (1) HYBRID CABLE
- INSTALL (3) SUPPORT RAIL KIT
- INSTALL (1) KICKER KIT
- INSTALL (3) DUAL MOUNT BRACKET
- INSTALL (1) MONOPOLE COLLAR MOUNT ASSEMBLY
- INSTALL (15) VZWSMART-MSK1 CROSSOVER PLATE

GROUND SCOPE OF WORK:
- NONE

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:
467729

BU #: **801485**
CT SUFFIELD 1 CAC 801485

2715 MOUNTAIN RD.
SUFFIELD, CT 06093

EXISTING 190'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/11/21	AP	PRELIMINARY REVIEW	YXI

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: T-1
REVISION: 0

84855.016.01_CT SUFFIELD 1 CAC 801485.dwg – Sheet:T-1 – User: yxiong – Oct 11, 2021 – 3:09pm

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

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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:
467729

BU #: **801485**
CT SUFFIELD 1 CAC 801485

2715 MOUNTAIN RD.
SUFFIELD, CT 06093

EXISTING 190'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/11/21	AP	PRELIMINARY REVIEW	YXI

No. 23924
10/11/21

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

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TO ALTER THIS DOCUMENT.

SHEET NUMBER: T-2
REVISION: 0

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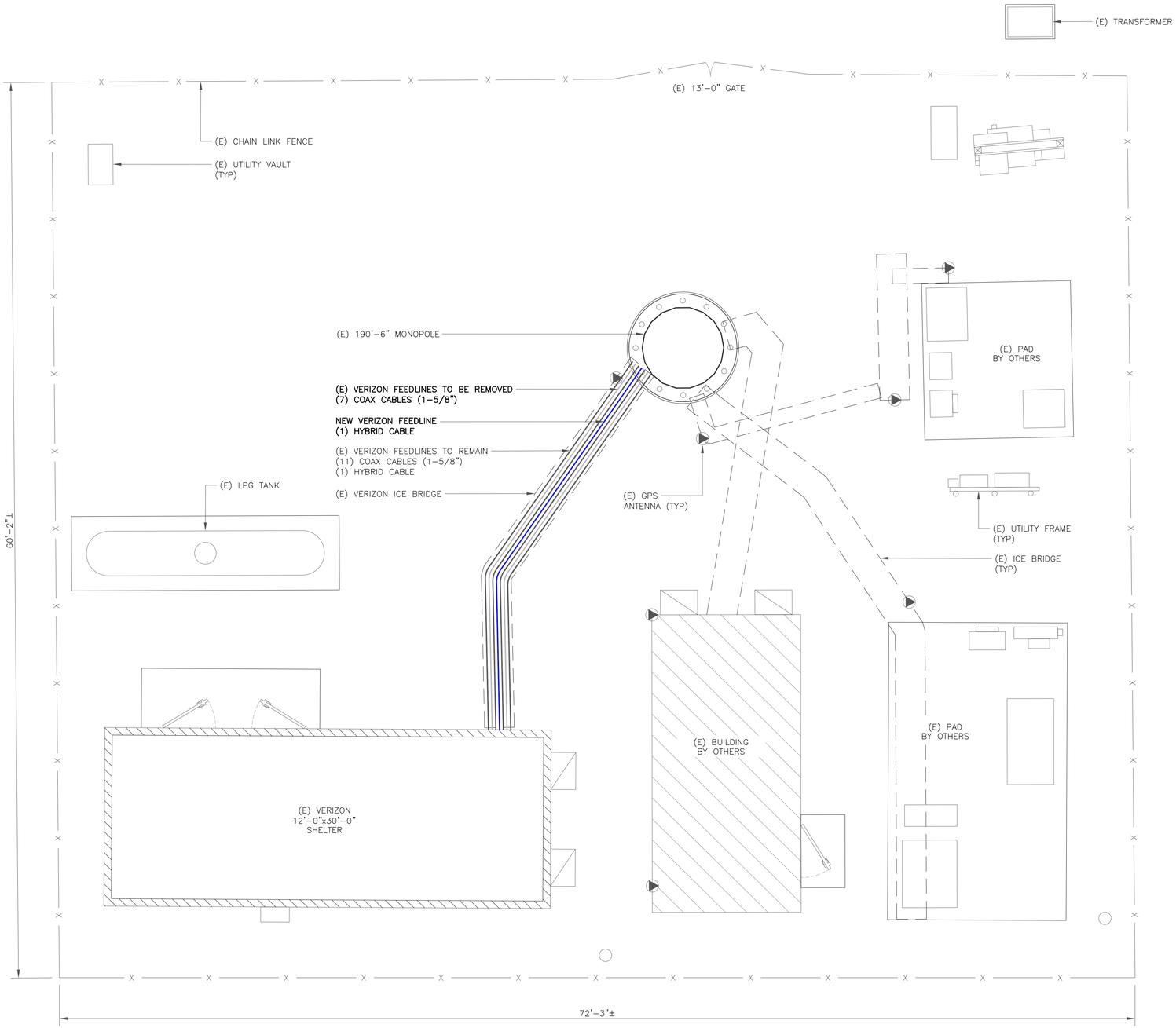

1 SITE PLAN
SCALE: 4' 3' 2' 1' 0 4'
1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)

N

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STATE OF CONNECTICUT
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LICENSED
PROFESSIONAL ENGINEER
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SHEET NUMBER: C-1

REVISION: 0

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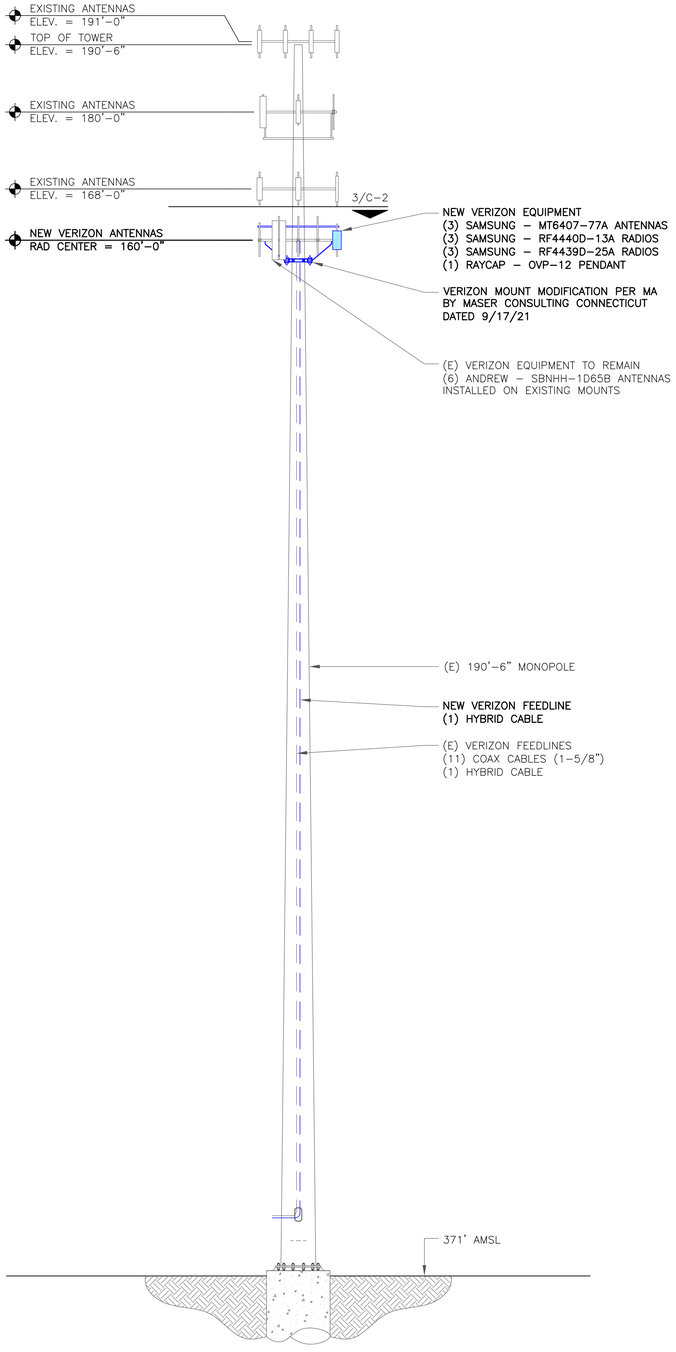
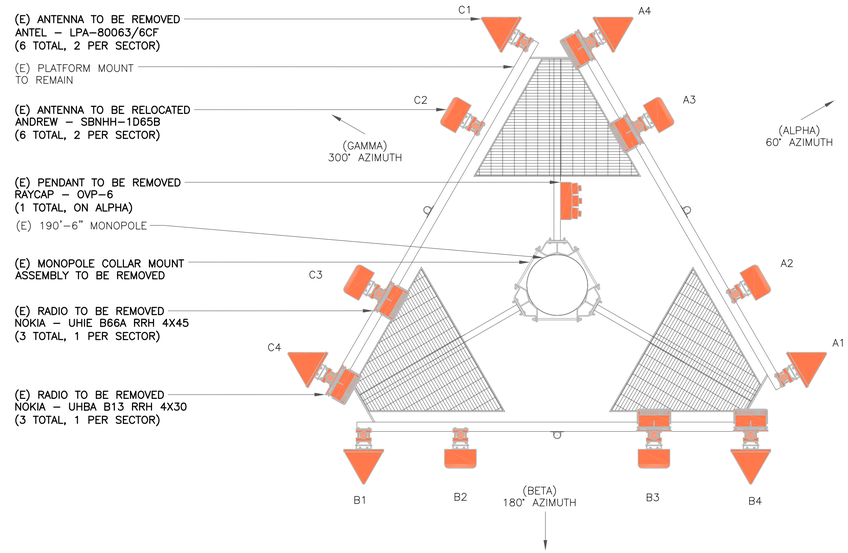


VERIZON EQUIPMENT

ANTENNA CL: 160'-0"
MOUNT CL: 160'-0"

1 TOWER ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE

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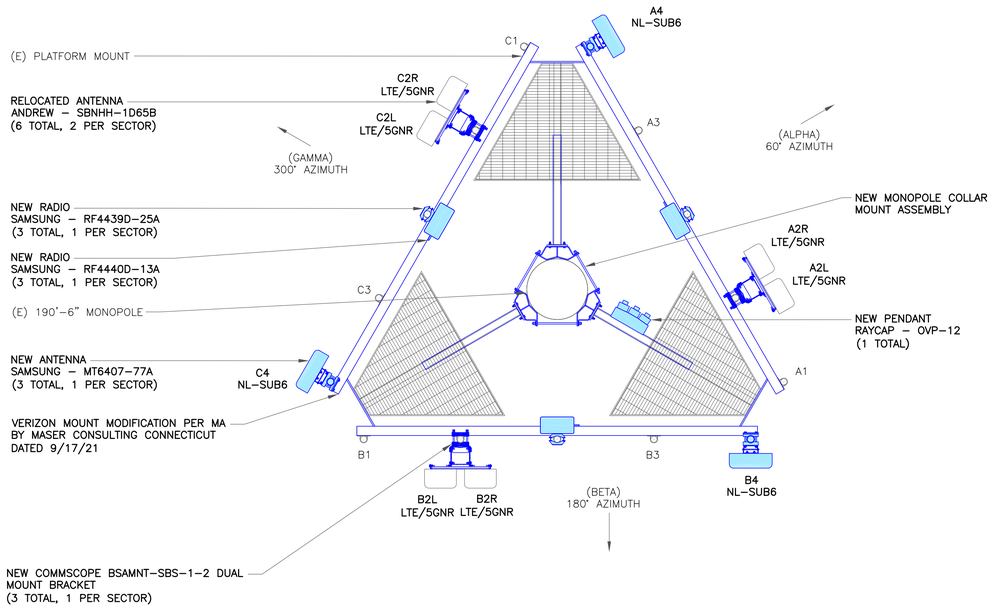

3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

N

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OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER: C-2

REVISION: 0

84855.016.01_CT SUFFIELD 1 CAC 801485.dwg - Sheet:C-2 - User: yxiong - Oct 11, 2021 - 3:11pm

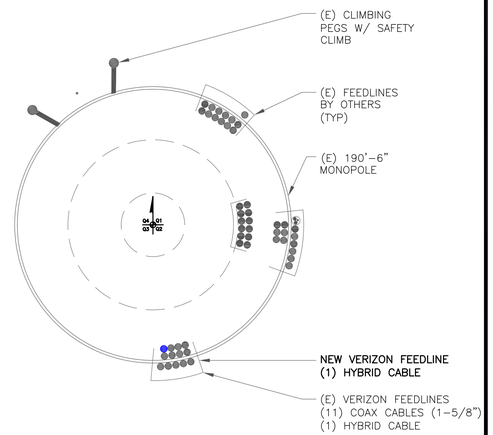
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
A2L	EXISTING	ANDREW	SBNHH–1D65B	160'–0"	60°	0°	6°/6°/6°/ 2°/2°	SAMSUNG	(1) RF4440D–13A
A2R	EXISTING	ANDREW	SBNHH–1D65B	160'–0"	60°	0°	6°/6°/6°/ 2°/2°	SAMSUNG	(1) RF4439D–25A
–	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
A3	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
A4	**NEW**	**SAMSUNG**	**MT6407–77A**	**160'–0"**	**60°**	**0°**	**6°**	**RAYCAP**	**(1) OVP–12**
B1	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
B2L	EXISTING	ANDREW	SBNHH–1D65B	160'–0"	180°	0°	2°/2°/2°/ 1°/1°	SAMSUNG	(1) RF4440D–13A
B2R	EXISTING	ANDREW	SBNHH–1D65B	160'–0"	180°	0°	2°/2°/2°/ 1°/1°	SAMSUNG	(1) RF4439D–25A
–	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
B3	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
B4	**NEW**	**SAMSUNG**	**MT6407–77A**	**160'–0"**	**180°**	**0°**	**6°**	–	–
C1	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
C2L	EXISTING	ANDREW	SBNHH–1D65B	160'–0"	300°	0°	7°/7°/7°/ 4°/4°	SAMSUNG	(1) RF4440D–13A
C2R	EXISTING	ANDREW	SBNHH–1D65B	160'–0"	300°	0°	7°/7°/7°/ 4°/4°	SAMSUNG	(1) RF4439D–25A
–	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
C3	–	–	EMPTY MOUNT PIPE	–	–	–	–	–	–
C4	**NEW**	**SAMSUNG**	**MT6407–77A**	**160'–0"**	**300°**	**0°**	**6°**	–	–

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1–5/8"	210'–0"±	11
EXISTING	HYBRID	6X12	210'–0"±	1
NEW	**HYBRID**	**6X12**	**210'–0"±**	**1**
TOTAL CABLE QTY:				13



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

N

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VERIZON SITE NUMBER:
467729

BU #: **801485**
CT SUFFIELD 1 CAC 801485

2715 MOUNTAIN RD.
SUFFIELD, CT 06093

EXISTING 190'-6" MONOPOLE

ISSUED FOR:

REV.	DATE	DRWN	DESCRIPTION	DES./QA
0	10/11/21	AP	PRELIMINARY REVIEW	YXI

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
10/11/21

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

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SHEET NUMBER: C-3

REVISION: 0

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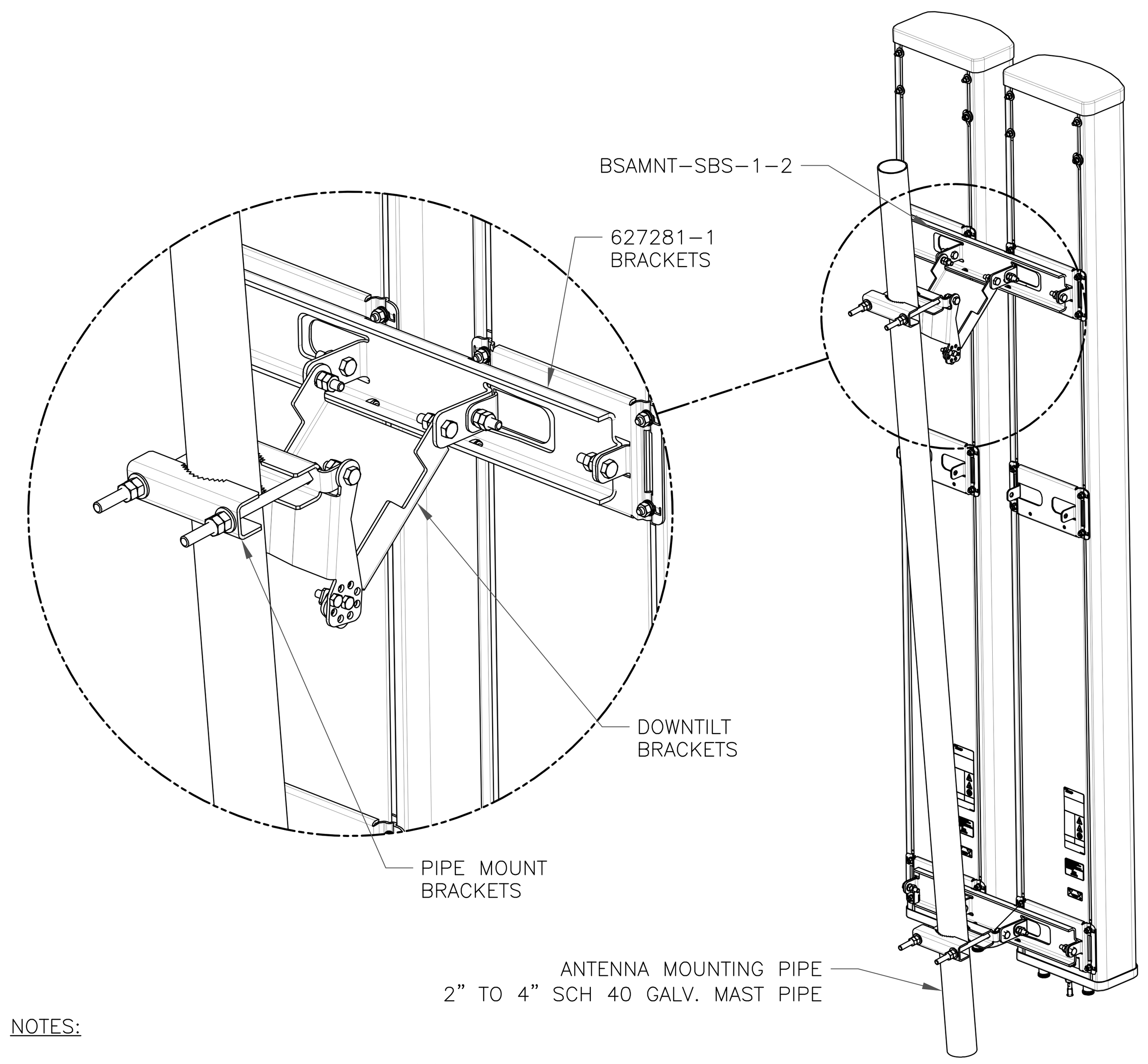
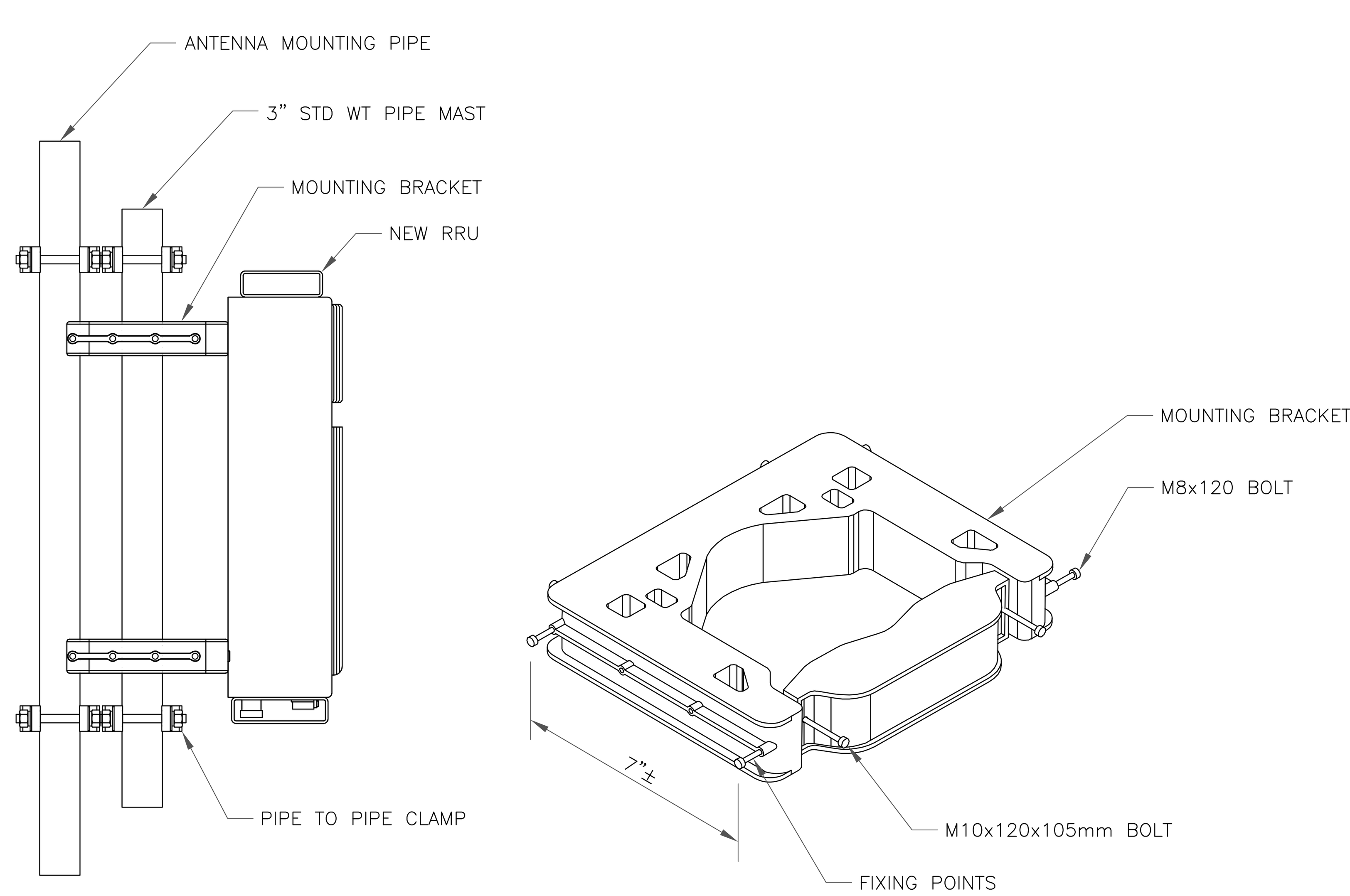


NOTES:

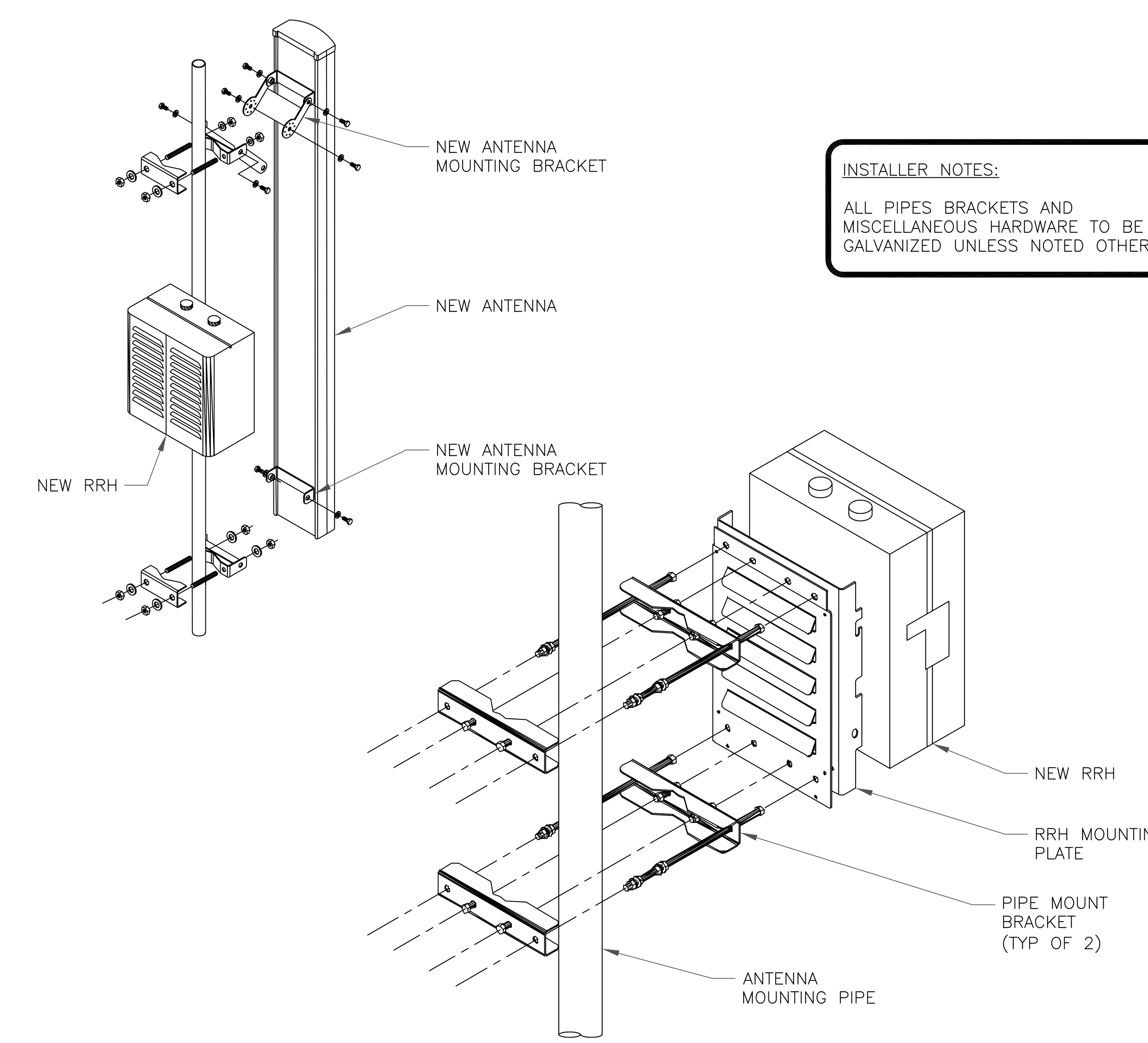
- BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

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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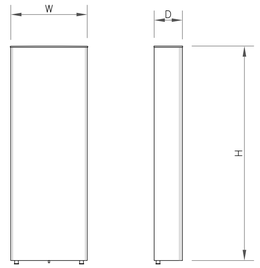
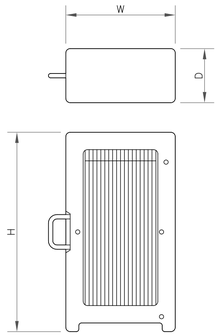


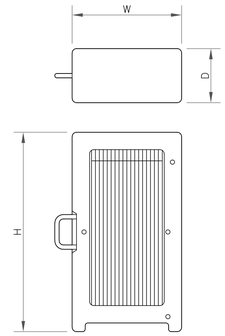
ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	RF4440D-13A
WIDTH	14.96"
DEPTH	9.06"
HEIGHT	14.96"
WEIGHT	72.50 LBS

2 RRU SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	SAMSUNG
MODEL #	RF4439D-25A
WIDTH	14.96"
DEPTH	10.04"
HEIGHT	14.96"
WEIGHT	74.70 LBS

3 RRU SPECS
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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SHEET NUMBER: C-5

REVISION: 0

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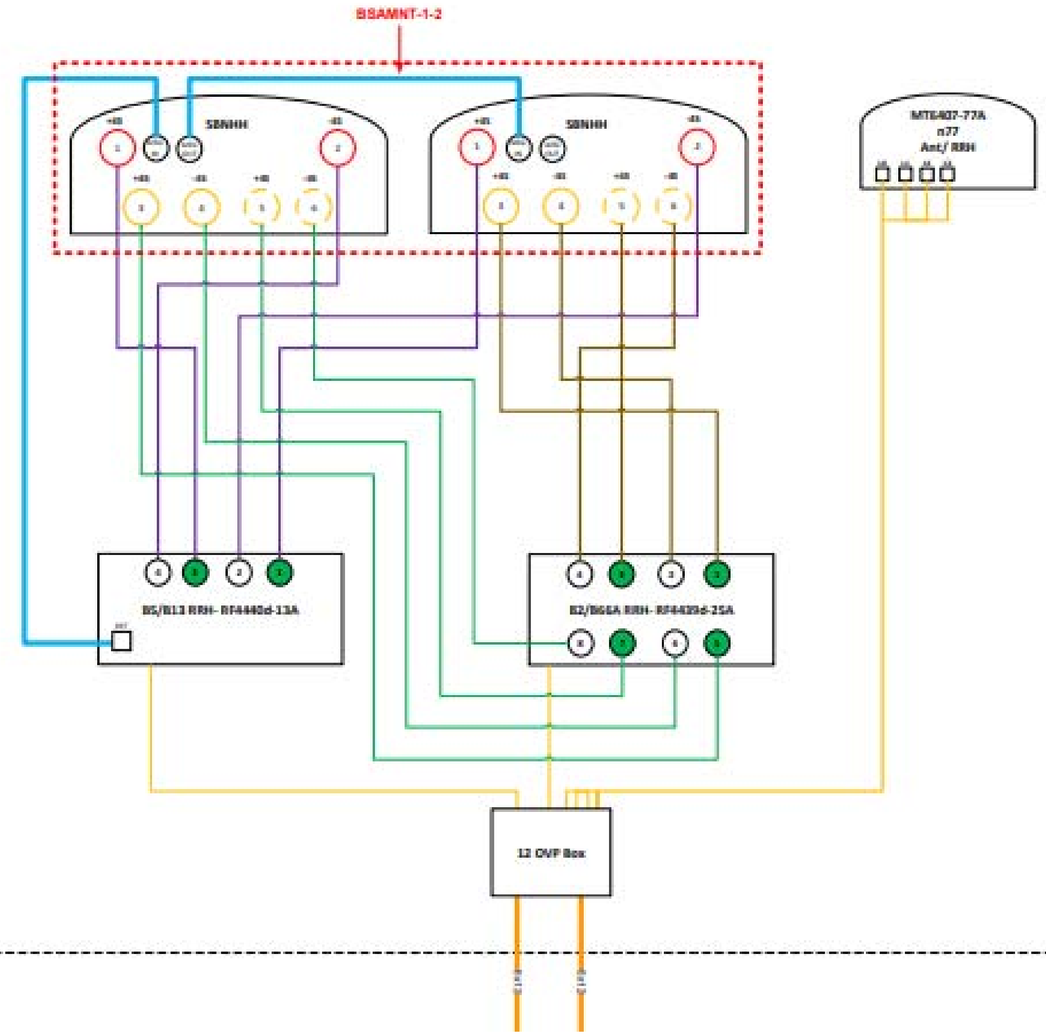
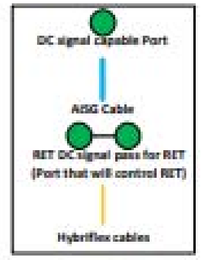
- Port 1 & 2 are for low band (698-896 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET 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: 0

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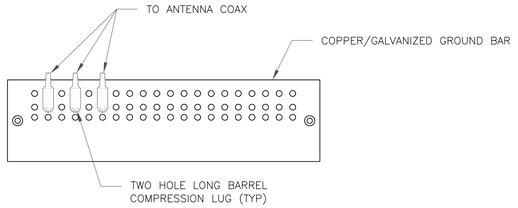
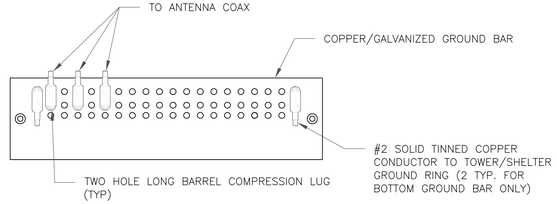


NOTES:

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.

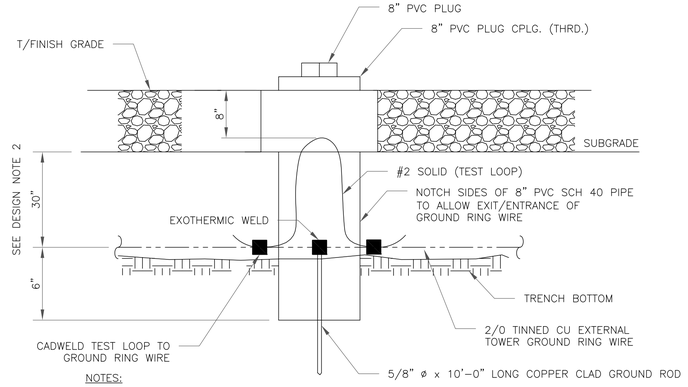
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



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.

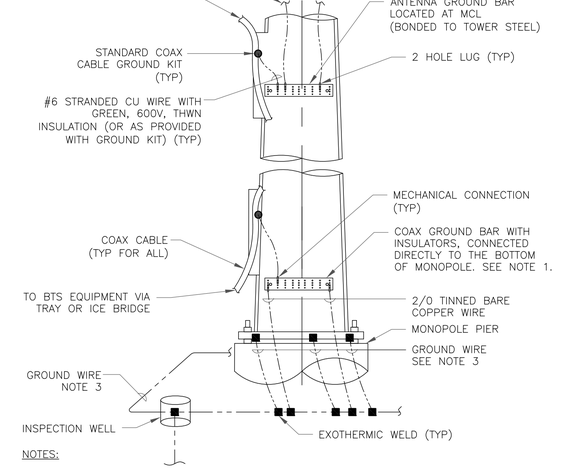
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



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)

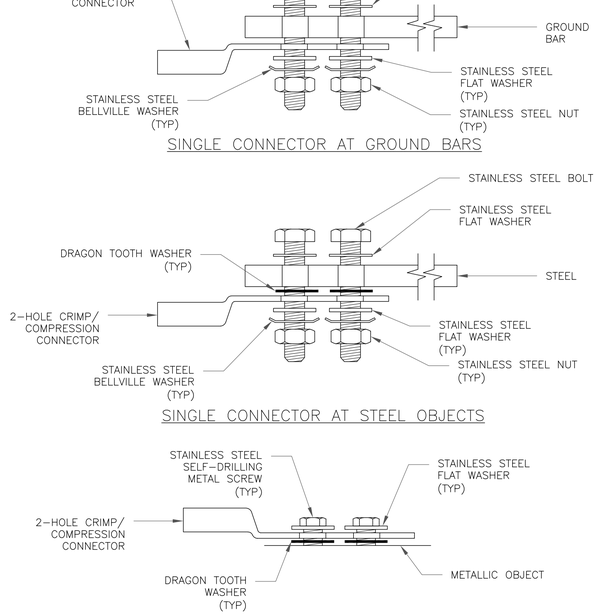
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



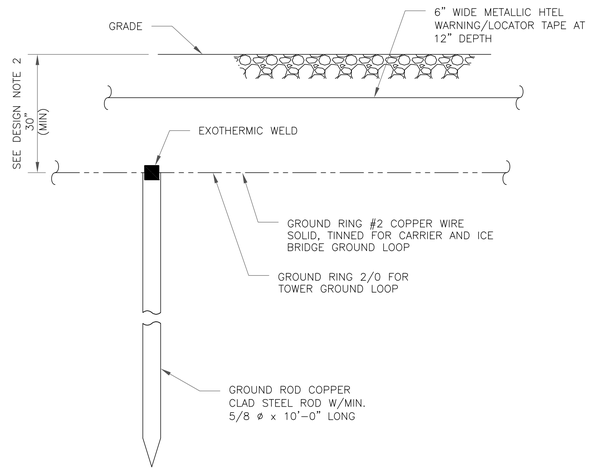
NOTES:

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



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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REVISION: 0

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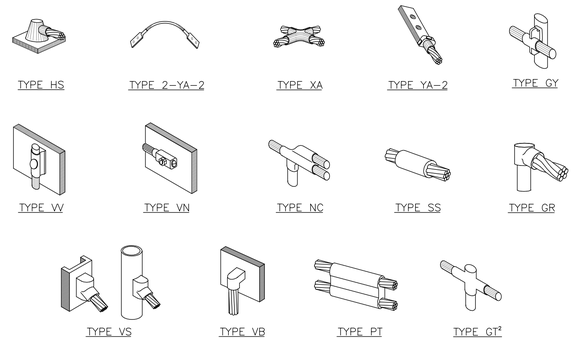
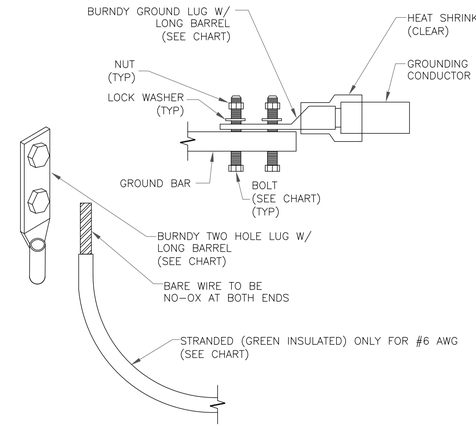


NOTE:

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

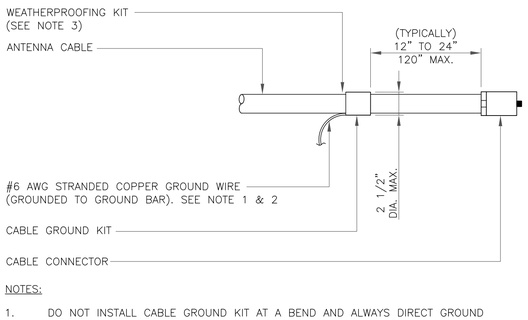
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



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.

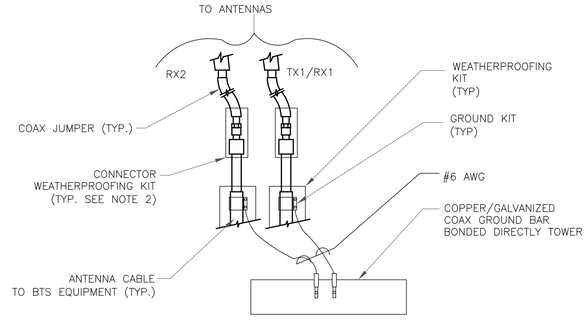
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



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.

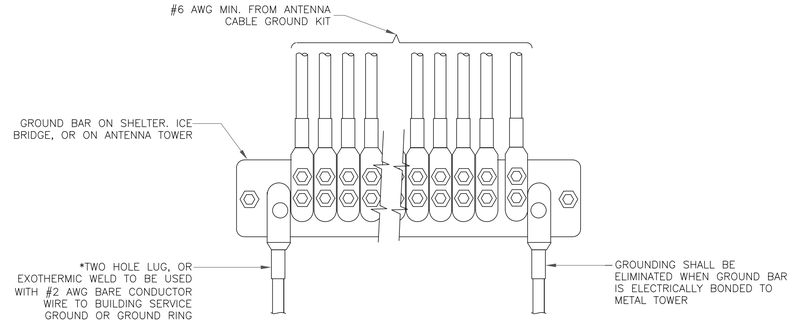
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



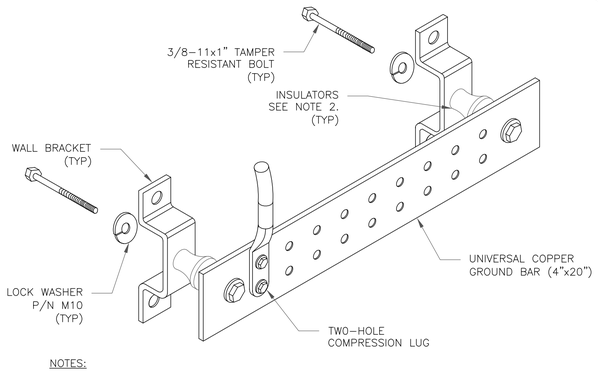
NOTES:

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



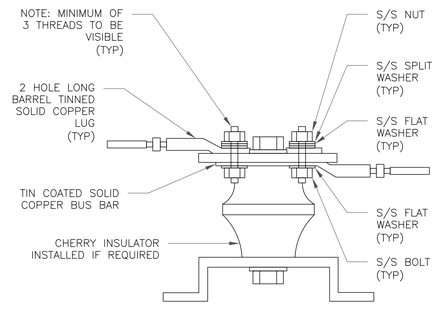
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



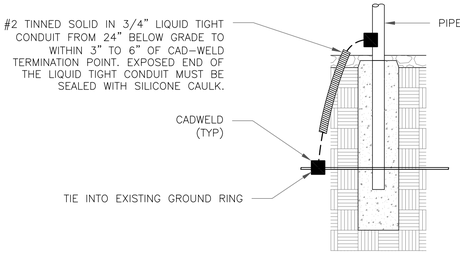
NOTES:

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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2715 MOUNTAIN RD.
SUFFIELD, CT 06093

EXISTING 190'-6" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/11/21	AP	PRELIMINARY REVIEW	YXI

STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
10/11/21

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

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SHEET NUMBER: G-2
REVISION: 0

84855.016.01_CT SUFFIELD 1 CAC 801485.dwg - Sheet:G-2 - User: yxiong - Oct 11, 2021 - 3:11pm

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
(856) 797-0412
peter.albano@colliersengineering.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10101704
Maser Consulting Connecticut Project #: 21777319A

September 17, 2021

Site Information	*Site ID:*	*467729-VZW / SUFFIELD W CT*
	Site Name:	*SUFFIELD W CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*2715 MOUNTAIN RD.* *Suffield, Connecticut 06078* *Hartford County*
	Latitude:	*42.011611°*
	Longitude:	*-72.728778°*
Structure Information	*Tower Type:*	*160-Ft Self Support*
	Mount Type:	*13.17-Ft Platform*

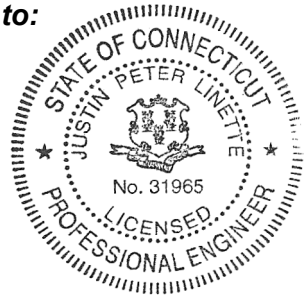
FUZE ID # 16272417

Analysis Results

Platform: **65.6% 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
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Devin Castillo



verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 13.17' PLATFORM

TOWER OWNER: CROWN CASTLE
TOWER OWNER SITE NUMBER: 801485

CARRIER SITE NAME: SUFFIELD W CT
CARRIER SITE NUMBER: 467729
FUZE ID: 16272417

2715 MOUNTAIN RD.
SUFFIELD, CT 06078
HARTFORD COUNTY

LATITUDE: 42.011611° N
LONGITUDE: 72.728778° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 115 MPH
EXPOSURE CATEGORY C
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 370.57'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.50 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_s = .169
LONG TERM MCER GROUND MOTION, S_1 = .054

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: MASER CONSULTING
CONTACT: PETER ALBANO
PHONE: 856-797-0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10101704
VZW LOCATION CODE (PSLC): 467729
ANALYSIS DATE: 9/17/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

SHEET	DESCRIPTION
ST-1	TITLE SHEET
SBOM-1	BILL OF MATERIALS
SGN-1	GENERAL NOTES
SCF-1	CLIMBING FACILITY DETAIL
SS-1	MODIFICATION DETAILS
SS-2	MOUNT PHOTOS
	SPECIFICATION SHEETS

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SITE NAME:

SUFFIELD W CT
467729
2715 MOUNTAIN RD.
SUFFIELD, CT 06078
HARTFORD COUNTY

HT. LAUREL OFFICE
1000 Hilltop Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1130

SHEET TITLE: TITLE SHEET

SHEET NUMBER: ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
SECTION 1 - VZWSMART KITS						
15	VZWSMART	VZWSMART-MSK1	CROSSOVER PLATE		14	210
3	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET		29	87
1	VZWSMART	VZWSMART-PLK5	KICKER KIT		291	291
1	VZWSMART	VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
SECTION 2 - OTHER REQUIRED PARTS						
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	-	-	24" LONG, L3x3x1/4	GALVANIZED	10	29
3	-	-	162" LONG, P2 1/2 STD	GALVANIZED	74	222
					TOTAL:	989

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTES:

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.

2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

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SITE NAME:

SUFFIELD W CT
467729

2715 MOUNTAIN RD.
SUFFIELD, CT 06078
HARTFORD COUNTY

MT. LAUREL OFFICE

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER:
SBOM-1

PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

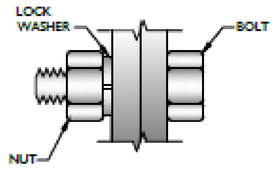
1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
7. CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA, ANSI/ASSP A10.48, ANSI Z49.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

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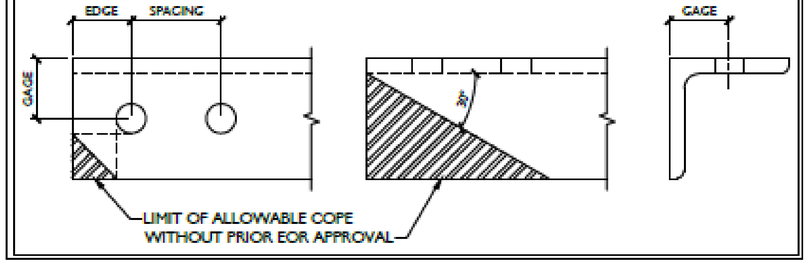

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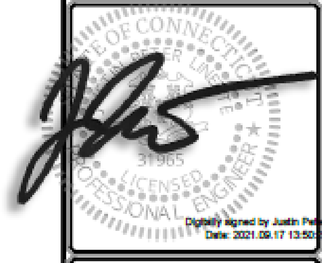

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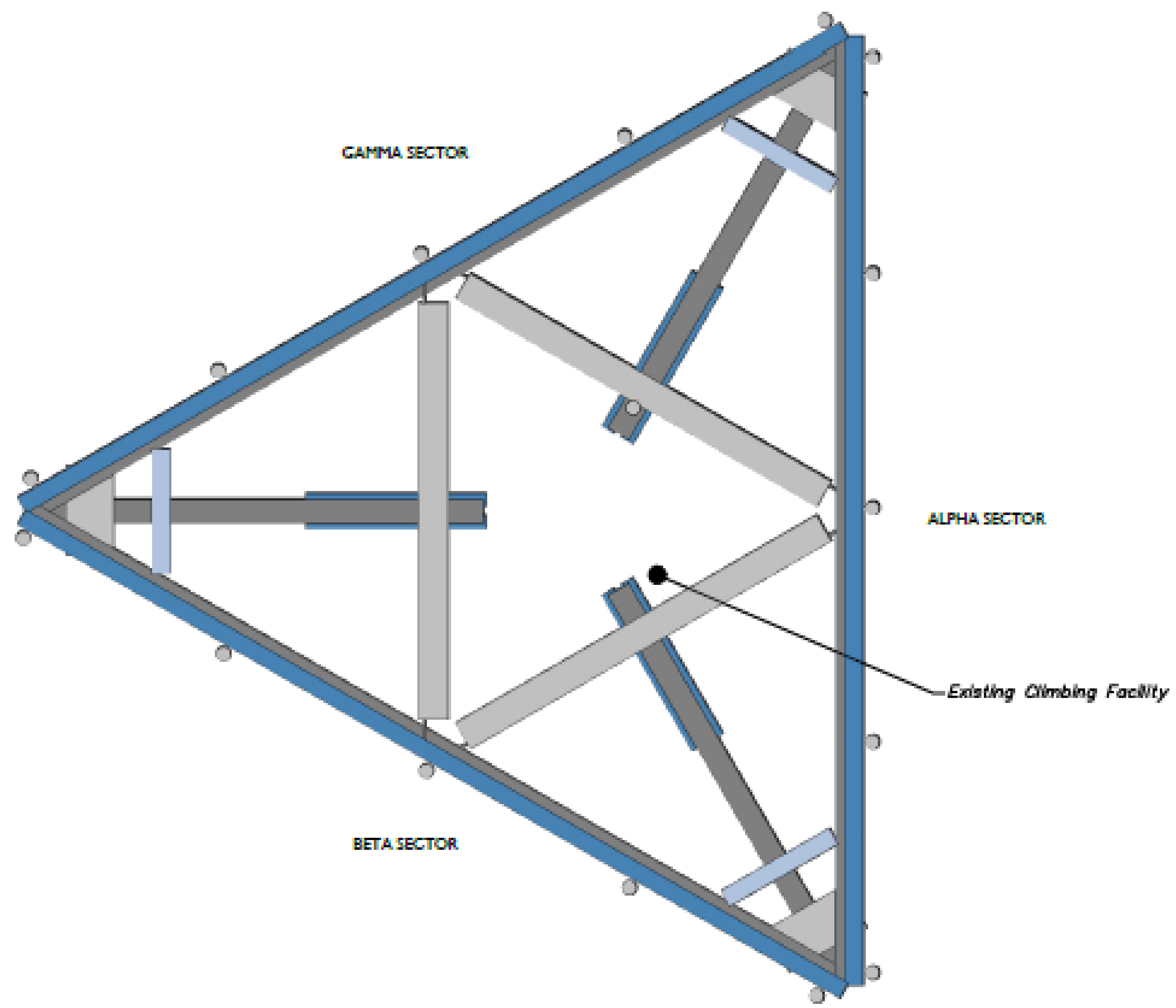
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0413
Fax: 856.722.1150

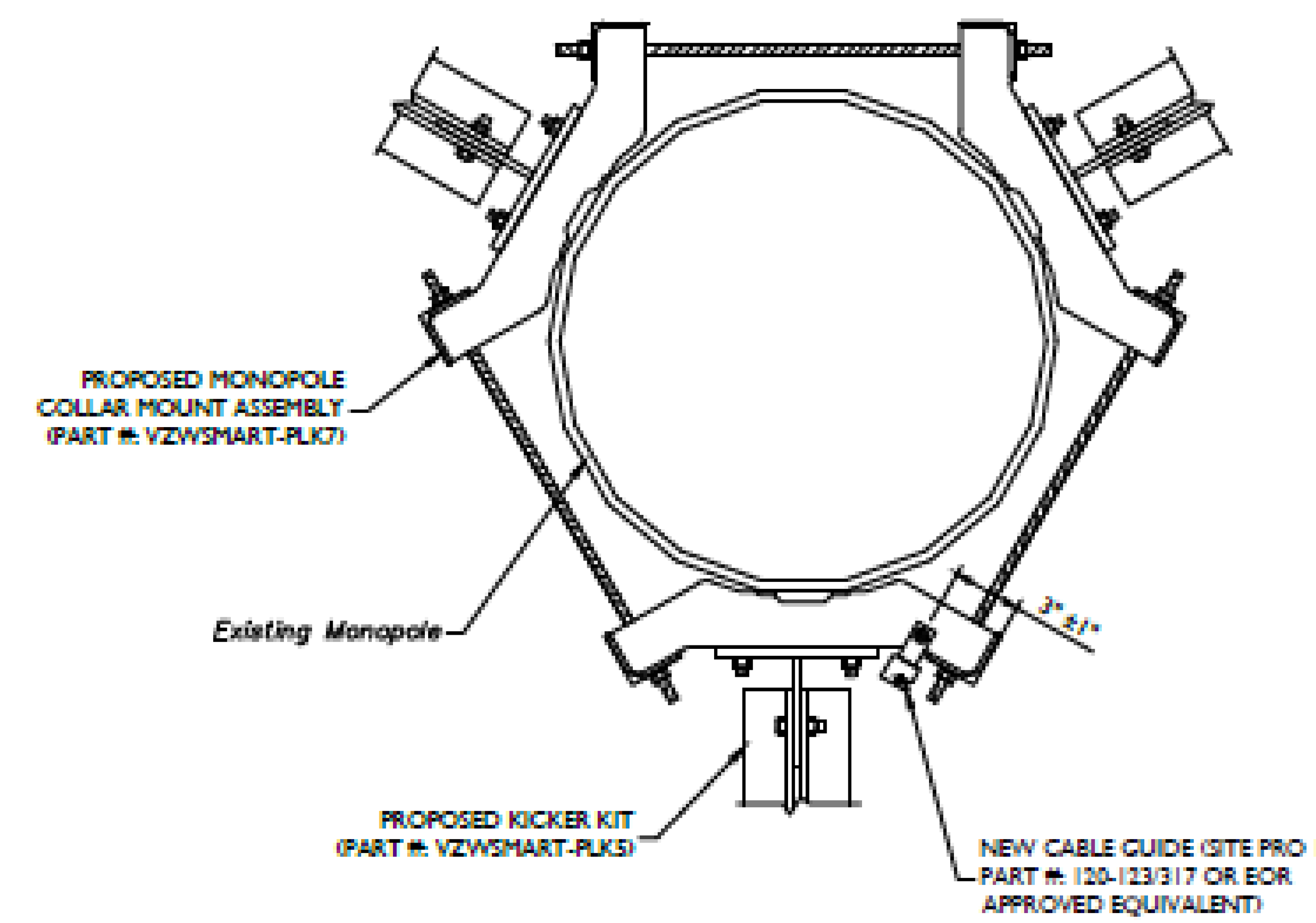
SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
SGN-1

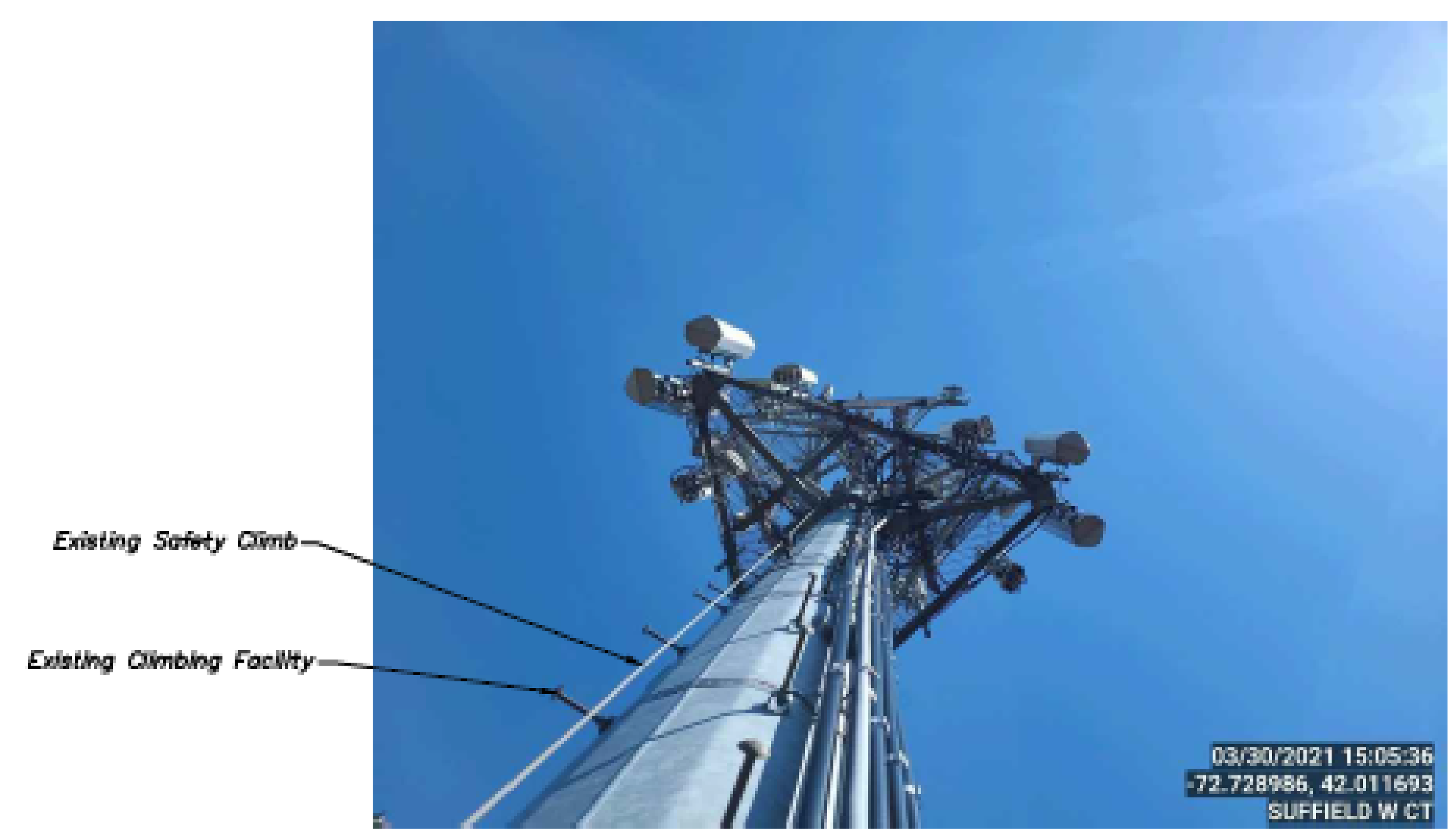
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



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



2 CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW
SCALE : N.T.S.



CLIMBING FACILITY PHOTO

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY ROAMING NETWORKS INC ON 3/30/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (158'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.

2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

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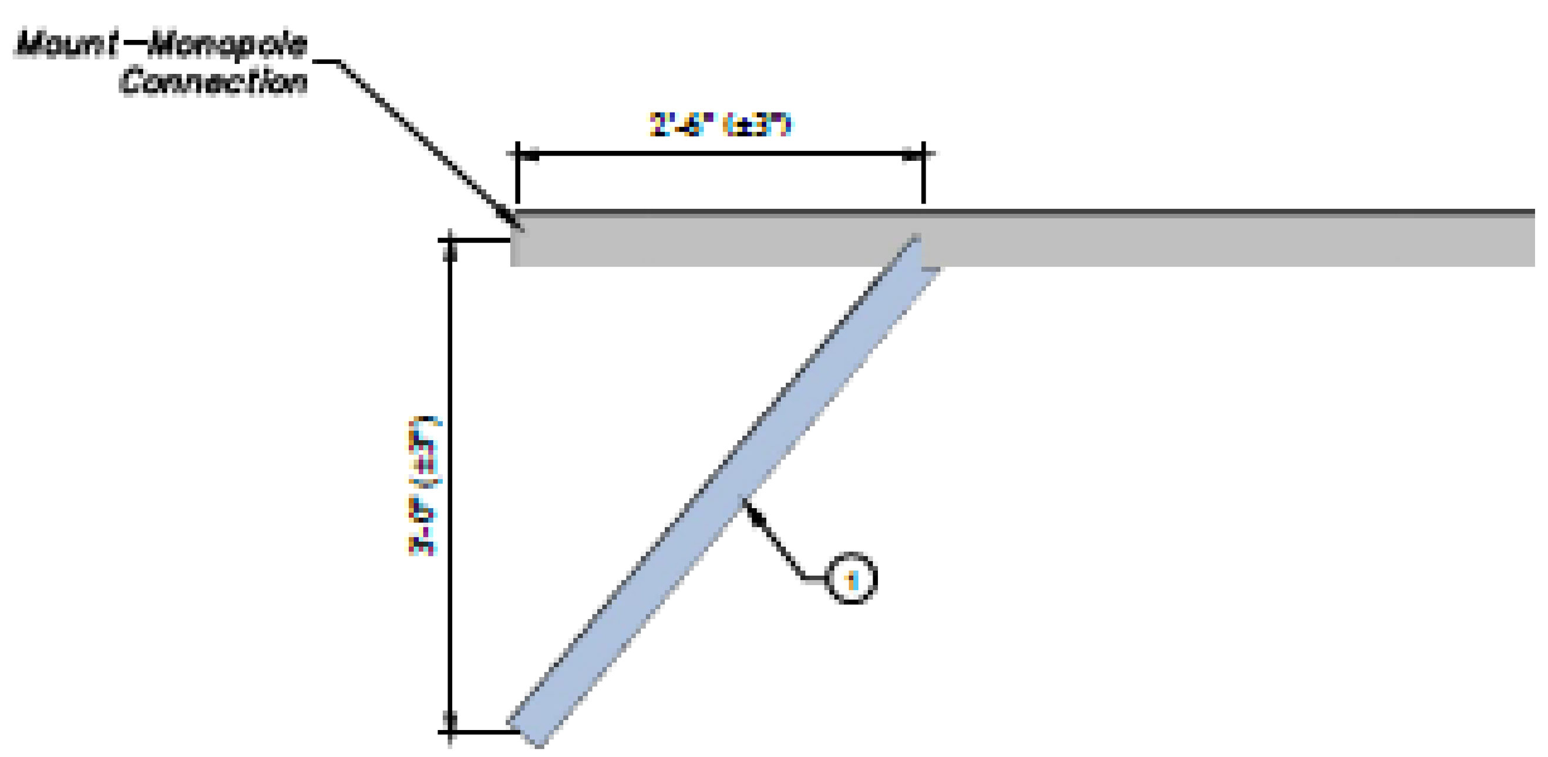
SHEET TITLE: CLIMBING FACILITY DETAIL

SHEET NUMBER: SCF-1

LEGEND:

- PROPOSED
- RELOCATED
- EXISTING



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

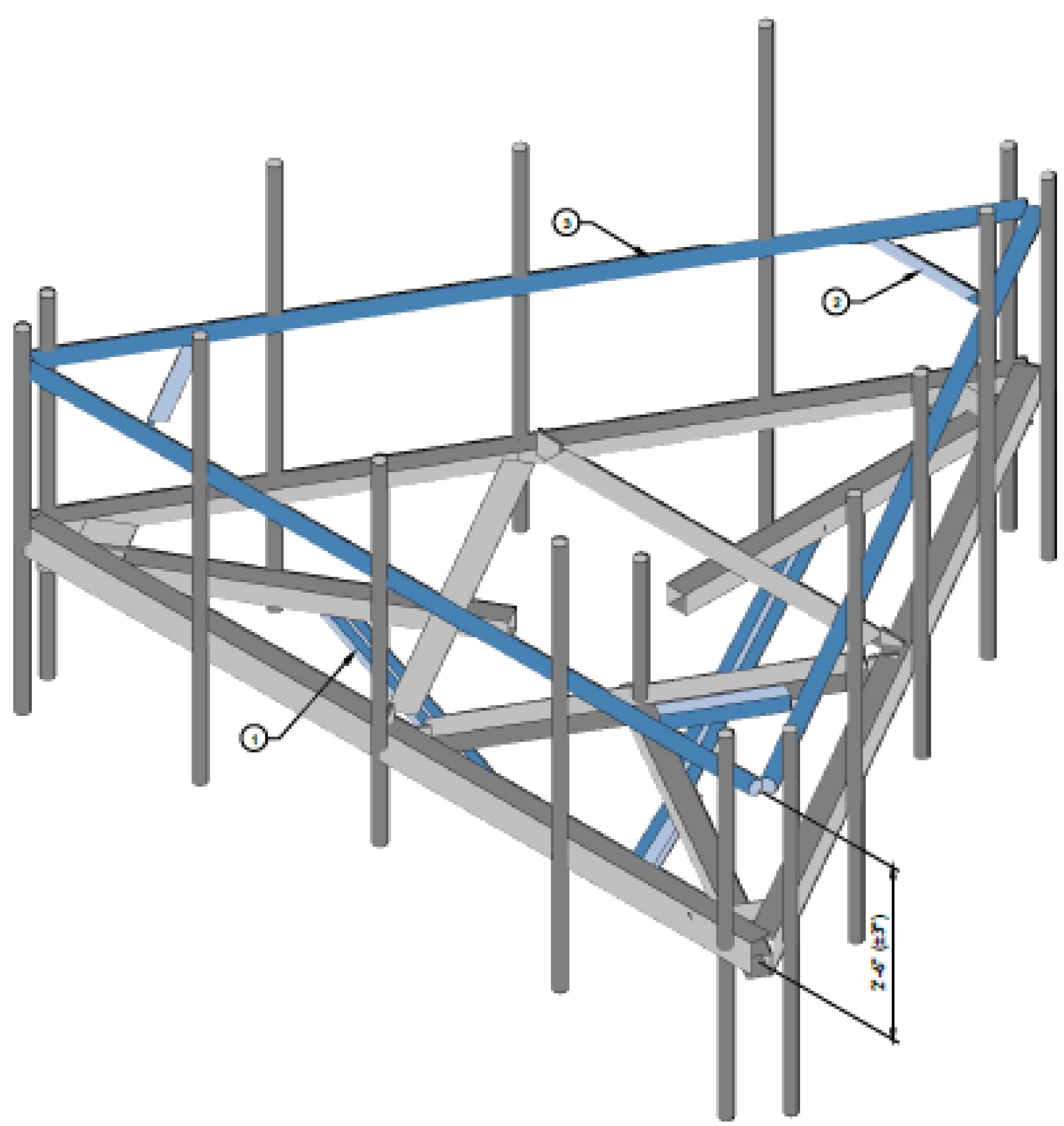
SCALE : N.T.S.

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	158'-0"	1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
2		3	24" LONG, L3x3x1/4	GALVANIZED CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONTRACTOR SHALL CONNECT PROPOSED L3X3X1/4 ANGLES TO CORNER BRACKETS (PART #: VZWSMART-PLK3) USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.
3		3	162" LONG, P2 1/2 STD	GALVANIZED CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF SUPPORT RAIL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT NEW SUPPORT RAIL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

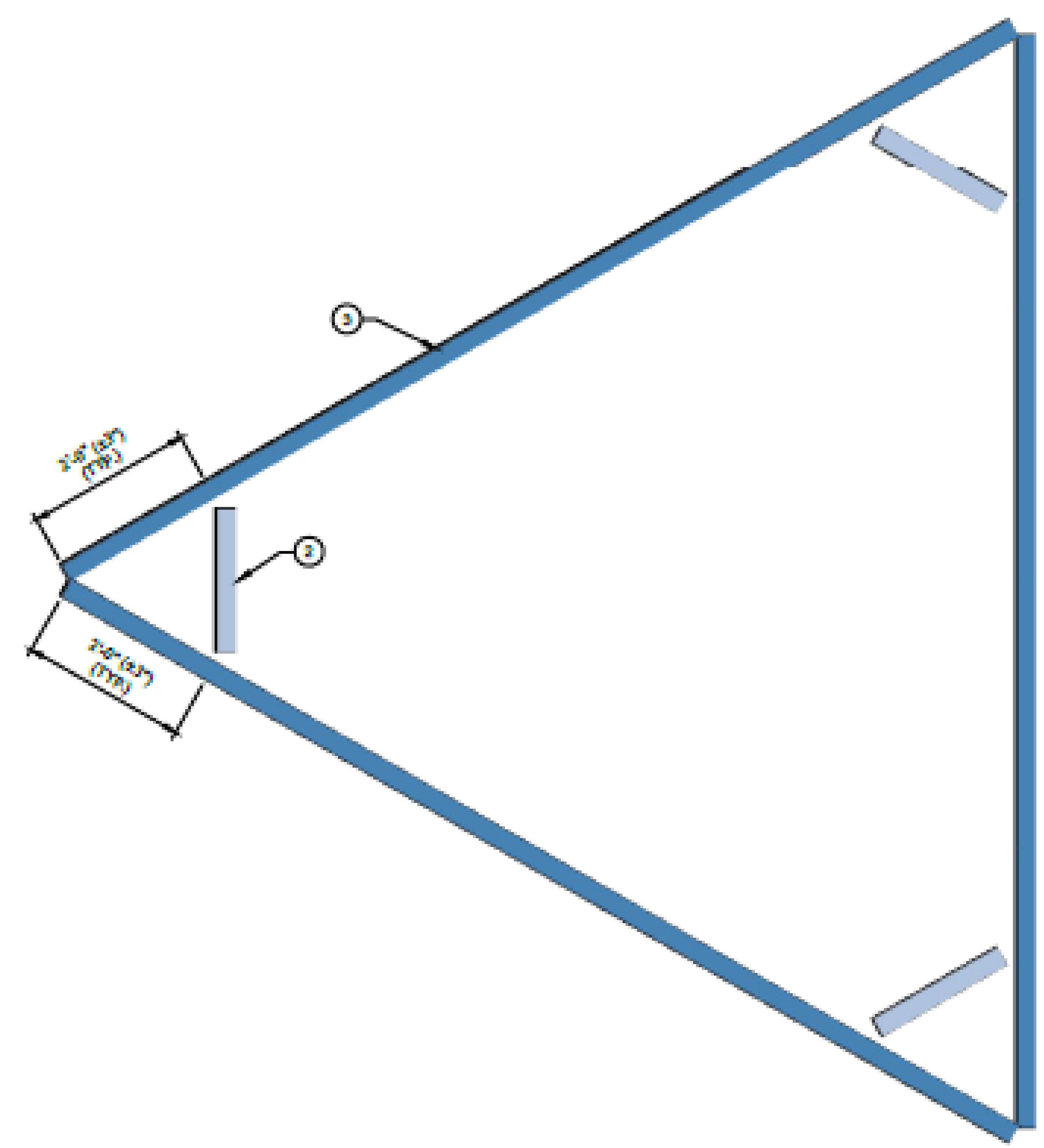
NOTES:

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



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



1 PROPOSED PLAN VIEW

SCALE : N.T.S.

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SHEET TITLE:

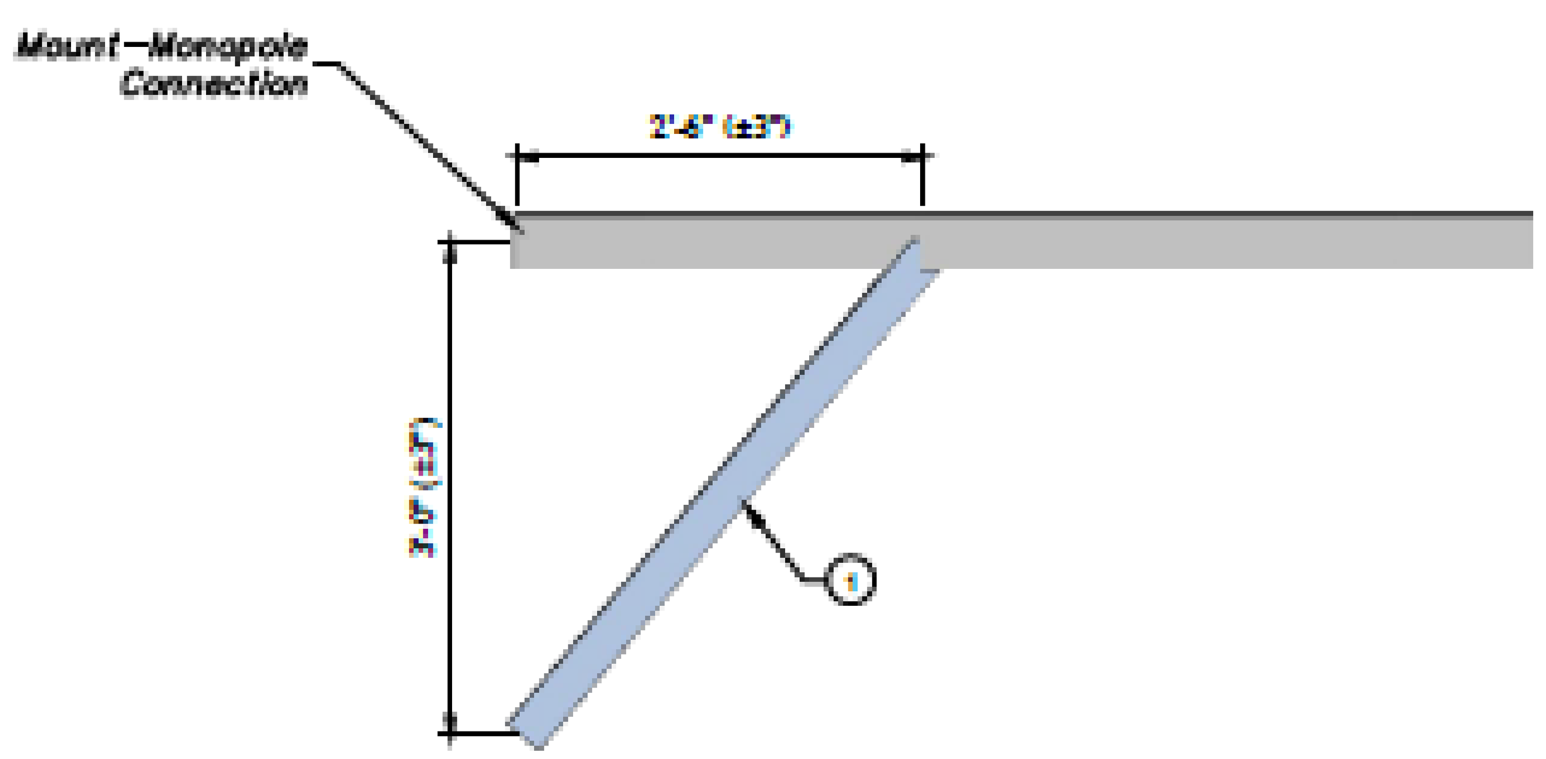
MODIFICATION DETAILS

SHEET NUMBER:

SS-1

LEGEND:

- PROPOSED
- RELOCATED
- EXISTING



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

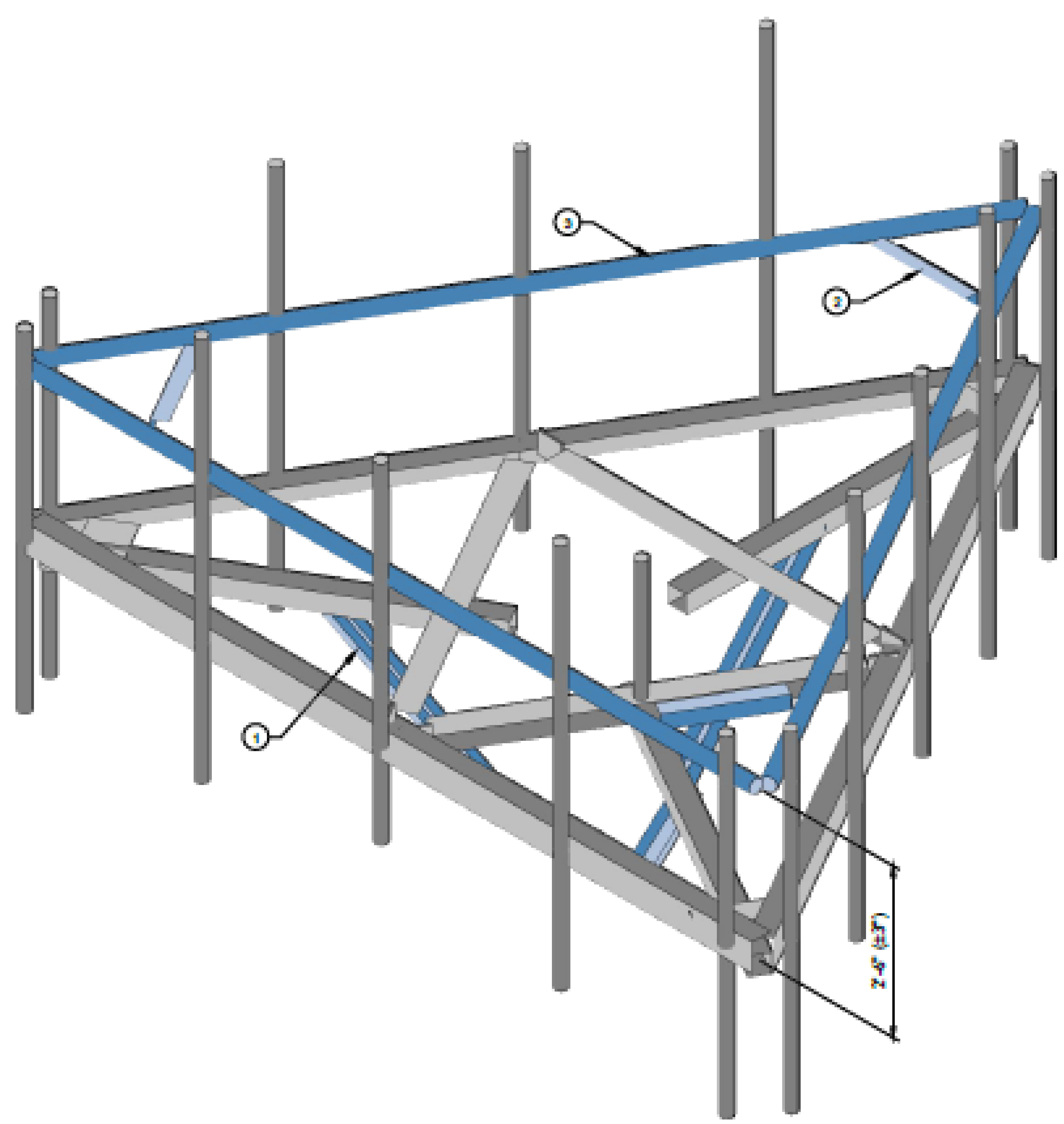
SCALE : N.T.S.

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	158'-0"	1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
2		3	24" LONG, L3x3x1/4	GALVANIZED CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONTRACTOR SHALL CONNECT PROPOSED L3X3X1/4 ANGLES TO CORNER BRACKETS (PART #: VZWSMART-PLK3) USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.
3		3	162" LONG, P2 1/2 STD	GALVANIZED CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF SUPPORT RAIL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT NEW SUPPORT RAIL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

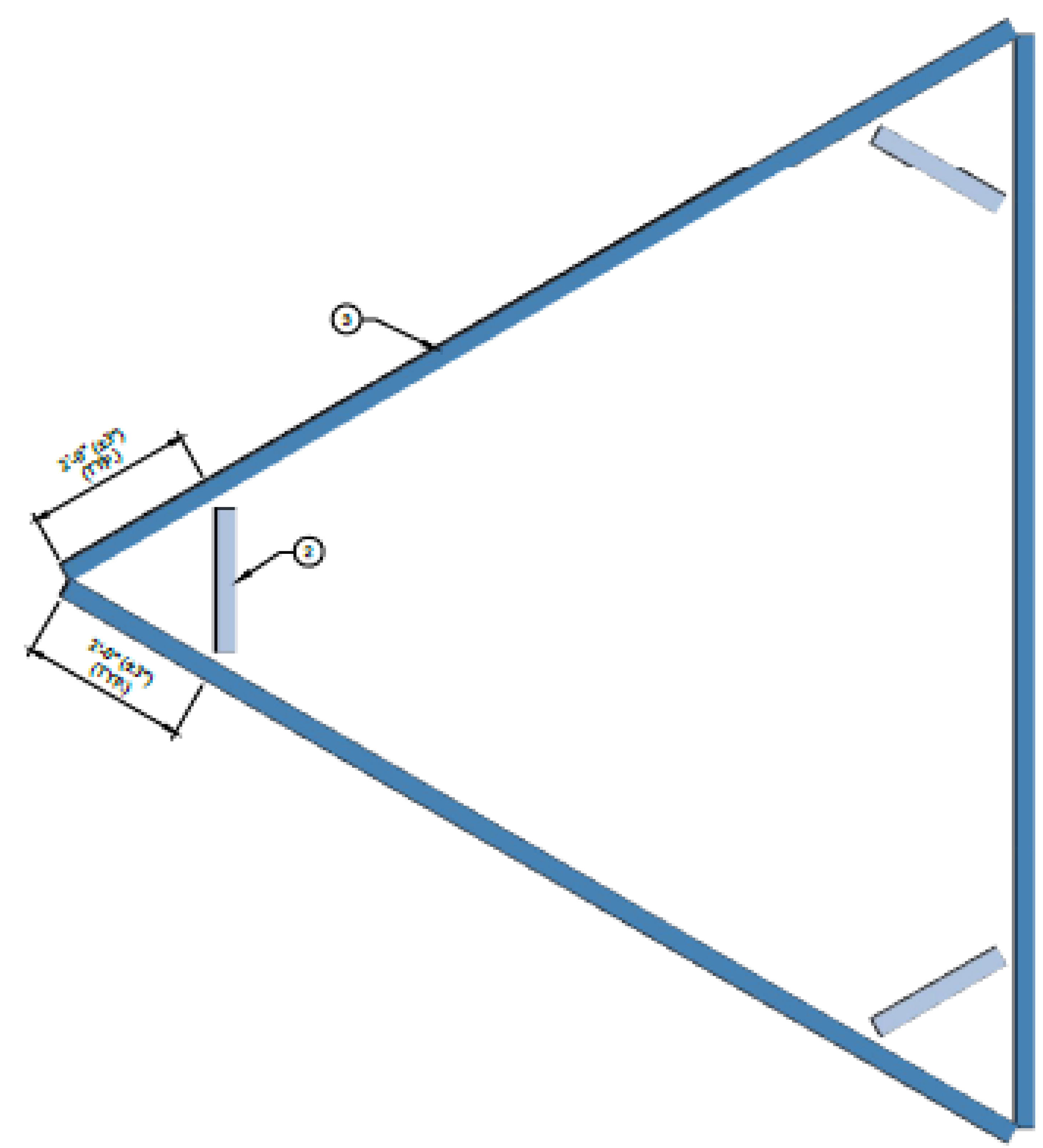
NOTES:

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



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



1 PROPOSED PLAN VIEW

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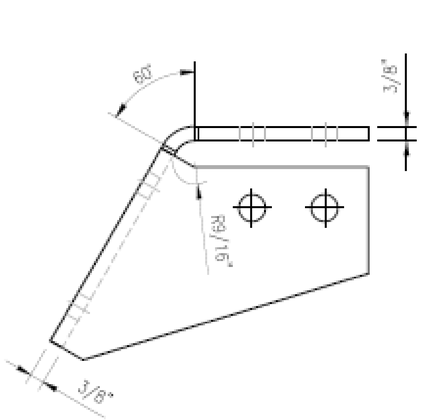
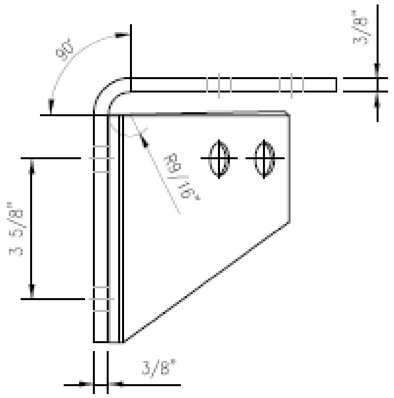
SHEET NUMBER: SS-1

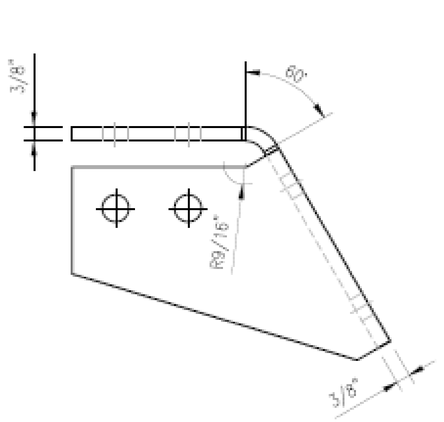


TOP VIEW

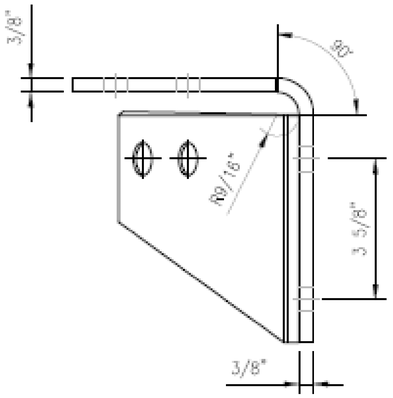


SIDE VIEW

CBP-L



TOP VIEW



SIDE VIEW

CBP-R

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	16	NUT-625	5/8" HDG HEX NUT	---	2
			GALVANIZED WT		30

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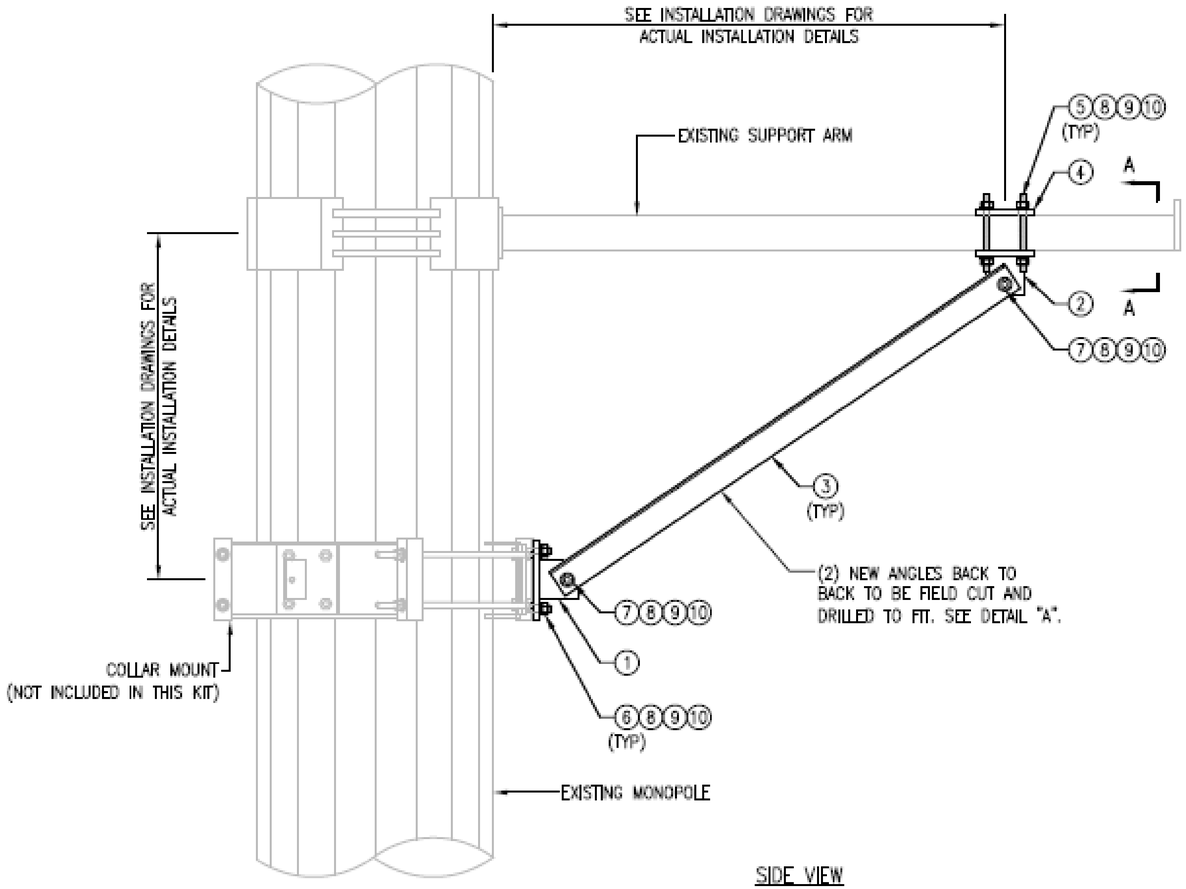
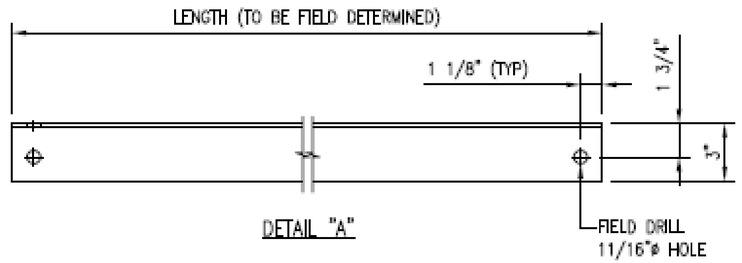
SHEET TITLE:
VZWSMART-PLK3
SUPPORT RAIL CORNER
BRACKET

SHEET NUMBER: VZWSMART-PLK3 | REV #: 0

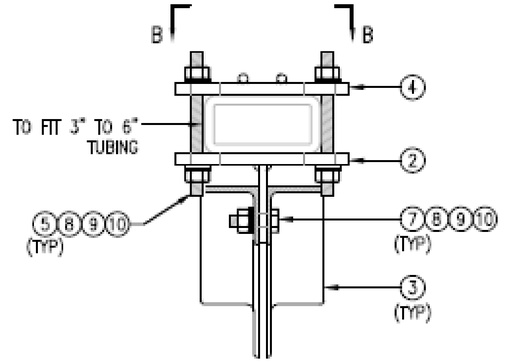
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



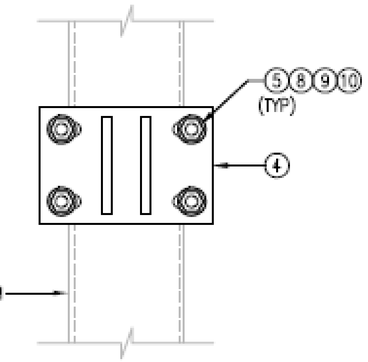
SIDE VIEW
KICKER KIT



DETAIL "A"



SECTION "A-A"
RECT. HSS MOUNTING



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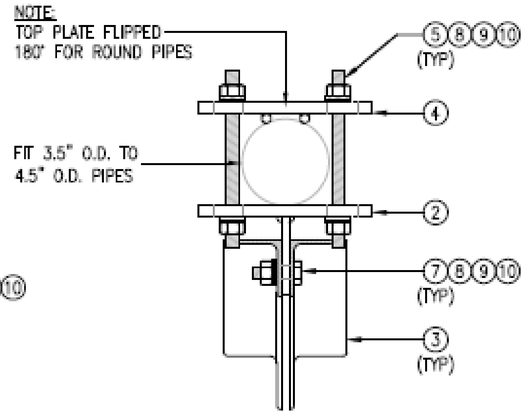

SECTION "A-A"
ROUND PIPE MOUNTING

VZWSMART-PLK5 (KICKER KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXX	BRACKET WELDMENT A36	PLK5-F3	43.8
2	3	BRKW-XXXX	BRACKET WELDMENT A36	PLK5-F2	35.7
3	6	L331875-B	L 3" X 3" X 3/16" X 8'-0" A36	PLK5-F4	182.9
4	3	PL-KI	PL 5/8" X 6" X 9" A36	PLK5-F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	---	--
6	6	---	BOLT 5/8" X 2" A325	---	--
7	12	---	BOLT 5/8" X 2 1/2" A325	---	--
8	42	FW-625	5/8" HDG USS FLAT WASHER	---	3
9	42	LW-625	5/8" HDG LOCK WASHER	---	1
10	42	NUT-625	5/8" HDG HEX NUT	---	5
				GALVANIZED WT	291

NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

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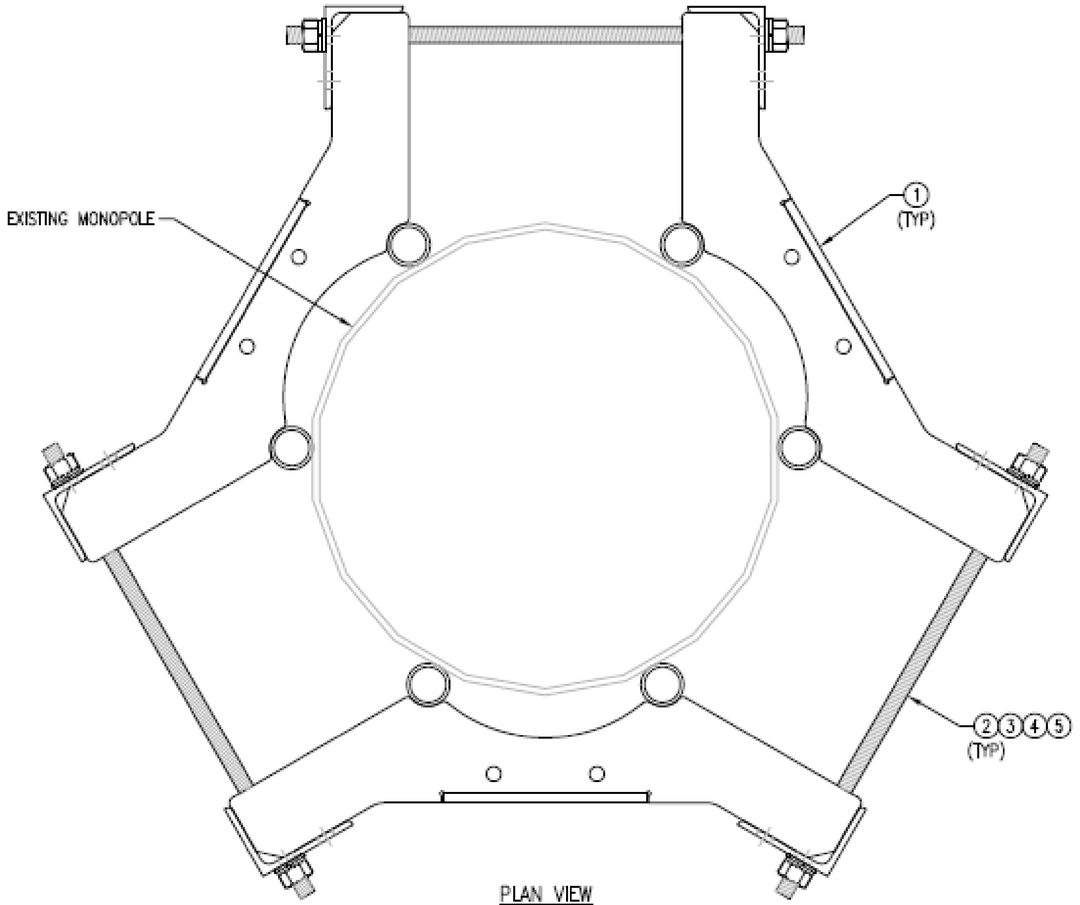
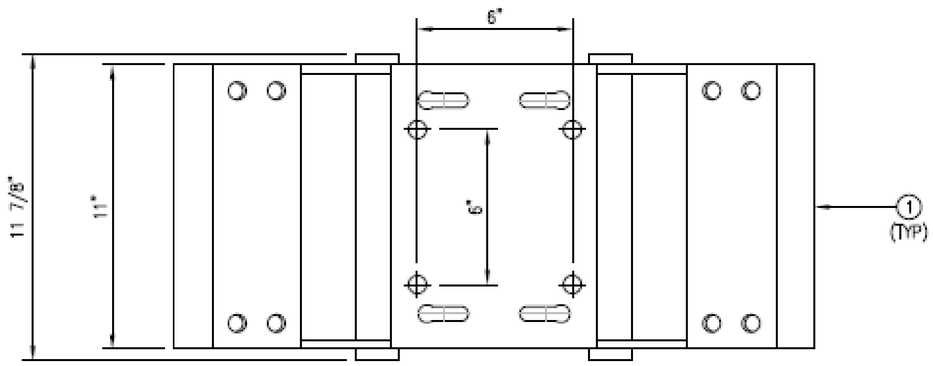
SHEET TITLE:
VZWSMART-PLK5
KICKER KIT

SHEET NUMBER: VZWSMART-PLK5
REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

NOTES:
1. FIT 12" TO 45" DIA MONOPOLE.
2. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	150

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REV.	DESCRIPTION	BY	DATE
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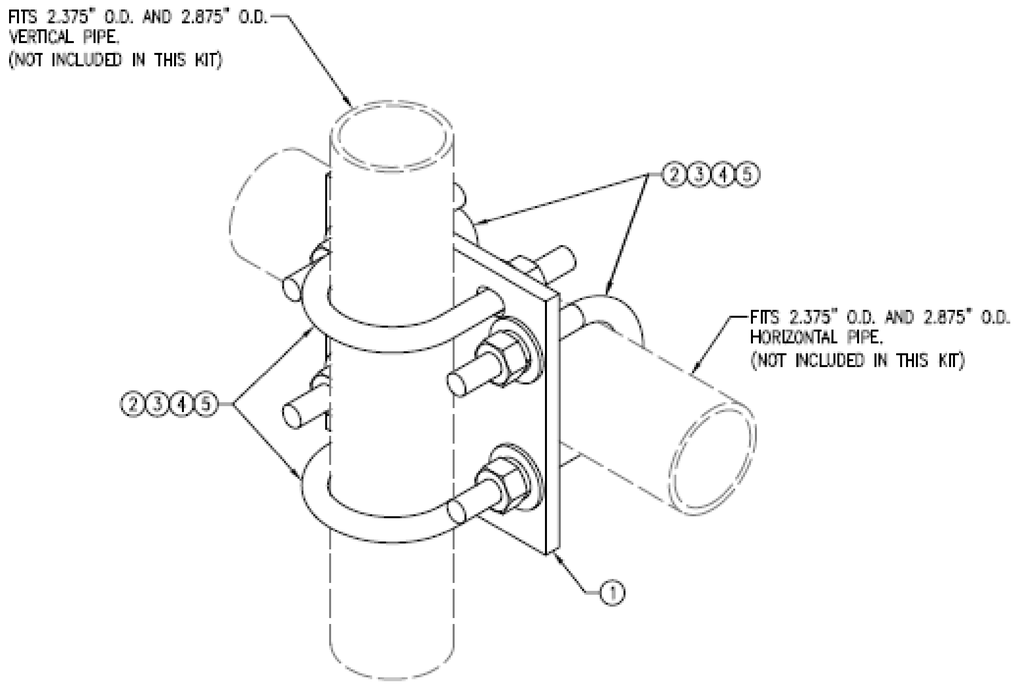
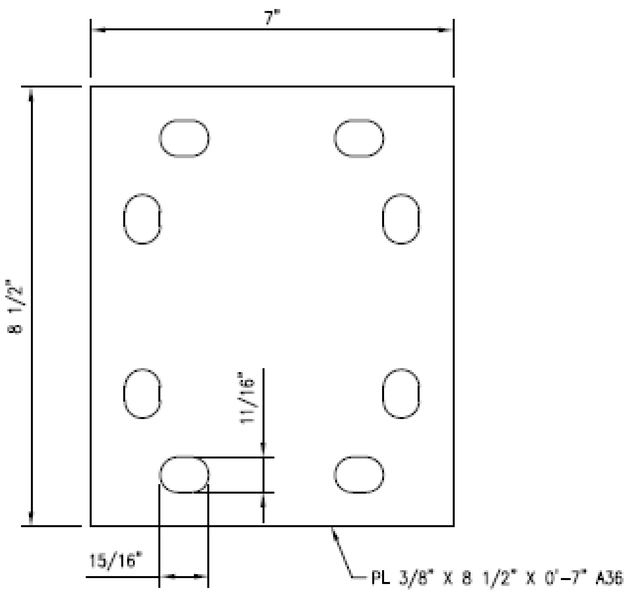
SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0





PL375-857

VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	14

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

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

SHEET TITLE:
VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1

REV #: 0

Exhibit D

Structural Analysis Report

Date: **September 28, 2021**

MORRISON HERSHFIELD

Morrison Hershfield
1455 Lincoln Parkway. Suite 500
Atlanta, GA 30346
(770) 379-8500

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	467729
	Site Name:	Suffield W CT
Crown Castle Designation:	**BU Number:**	801485
	Site Name:	CT Suffield 1 CAC 801485
	JDE Job Number:	688533
	Work Order Number:	2026049
	Order Number:	588826 Rev. 0
Engineering Firm Designation:	**Morrison Hershfield Project Number:** CN9-727 / 2101398	
Site Data:	**2715 Mountain Rd., Suffield, Hartford County, CT 06093** **Latitude *42° 0' 41.8"*, Longitude *-72° 43' 43.6"*** **190.5 Foot – FWT Monopole Tower**	

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

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

LC5: Proposed Equipment Configuration **Sufficient Capacity – 72.1%**

This analysis utilizes an ultimate 3-second gust wind speed of 115 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

G. Lance Cooke, P.E. (CT License No. PEN.0028133)
Senior Engineer

Digitally signed by G. Lance Cooke
Date: 2021.09.28 11:33:39-07'00'

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Table 2 - Other Considered Equipment

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3.2) Assumptions

4) ANALYSIS RESULTS
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Table 5 – Tower Component Stresses vs. Capacity – LC5
4.1) Recommendations

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tnxTower Output

6) APPENDIX B
Base Level Drawing

7) APPENDIX C
Additional Calculations

1) INTRODUCTION

This tower is a 190.5 ft Monopole tower designed by FWT, Inc.

The tower was modified per reinforcement drawings prepared by Tower Engineering Professionals, in March of 2013. Modification consists of addition of concrete to the foundation. Per the post modification inspection completed by Tower Engineering Professionals. in March of 2013, these modifications have been properly installed and are considered in this analysis.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	115 mph
Exposure Category:	C
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)
160.0	160.0	6	commscope	SBNHH-1D65B w/ Mount Pipe	13	1-5/8
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	RF4439D-25A		
		3	samsung telecommunications	RF4440D-13A		
		1	raycap	RVZDC-6627-PF-48_CCIV2		
		1	-	Platform Mount [LP 714-1]		

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)
191.0	192.0	12	decibel	DB844H90-XY w/ Mount Pipe	12	1-5/8
	191.0	1	-	Platform Mount [LP 712-1]		
180.0	182.0	3	rfs/celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	13	1-5/8
		3	rfs/celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	ericsson	KRY 112 489/2		
		3	ericsson	RADIO 4449 B12/B71		
	180.0	1	-	T-Arm Mount [TA 701-3]		
168.0	170.0	1	kmw communications	AM-X-CD-14-65-00T-RET w/ Mount Pipe	12 2 1 1	1-5/8 3/4 3/8 2C
		6	powerwave technologies	7770.00 w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
168.0	170.0	2	powerwave technologies	P65-17-XLH-RR w/ Mount Pipe	-	-
		3	ericsson	RRUS-11		
		6	powerwave technologies	LGP21401		
		6	powerwave technologies	LGP21901		
		1	raycap	DC6-48-60-18-8F		
	168.0	1	-	Platform Mount [LP 303-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	2240855	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1118796	CCISITES
4-TOWER MANUFACTURER DRAWINGS	942443	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3268394	CCISITES
4-POST-MODIFICATION INSPECTION	3770639	CCISITES

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.

3.2) Assumptions

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

This analysis may be affected if any assumptions are not valid or have been made in error. Morrison Hershfield 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	190.5 - 143.17	Pole	TP27.778x14.75x0.25	1	-15.27	1293.66	63.4	Pass
L2	143.17 - 93.753	Pole	TP40.88x26.2917x0.375	2	-26.30	2854.11	57.7	Pass
L3	93.753 - 46.083	Pole	TP53.251x38.6629x0.375	3	-40.62	3726.63	65.6	Pass
L4	46.083 - 0	Pole	TP65.185x50.5971x0.375	4	-60.88	4738.33	72.1	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
							Summary	
						Pole (L4)	72.1	Pass
						Rating =	72.1	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	58.4	Pass
1	Base Plate		31.0	Pass
1	Base Foundation (Structure)	0	56.1	Pass
1	Base Foundation (Soil Interaction)		36.7	Pass

Structure Rating (max from all components) =	72.1%*

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

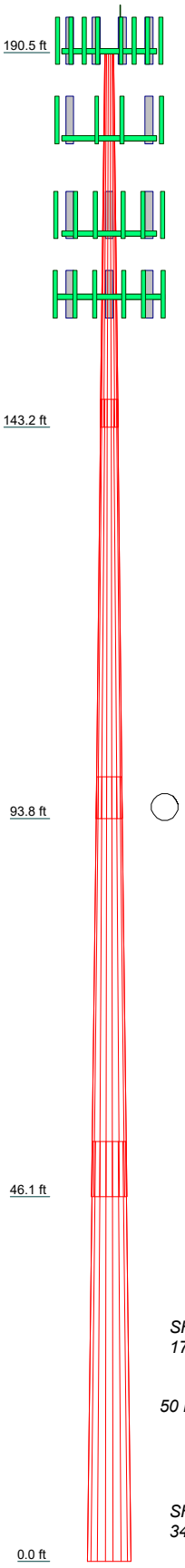
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	1	2	3	4
Length (ft)	47.33	53.00	53.00	53.00
Number of Sides	18	18	18	18
Thickness (in)	0.2500	0.3750	0.3750	0.3750
Socket Length (ft)	3.58	5.33	6.92	
Top Dia (in)	14.7500	26.2917	38.6629	50.5971
Bot Dia (in)	27.7780	40.8800	53.2510	65.1850
Grade	A572-65			
Weight (K)	2.7	7.1	9.8	12.3



ALL REACTIONS ARE FACTORED

AXIAL 102 K

SHEAR 17 K *MOMENT 2669 kip-ft*

TORQUE 0 kip-ft
50 mph WIND - 1.5000 in ICE

AXIAL 61 K

SHEAR 34 K *MOMENT 4577 kip-ft*

TORQUE 0 kip-ft
REACTIONS - 115 mph WIND

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 115 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 72.1%

Morrison Hershfield
Consulting Engineers
1455 Lincoln Parkway. Suite 500
Atlanta, GA 30346
Phone: (770) 379-8500
FAX: (770) 379-8501

Job:	**CN9-727 / 2101398**		
Project:	***801485 / CT Suffield 1 CAC 801485***		
Client: Crown Castle USA	Drawn by: AP	App'd:	
Code: TIA-222-H	Date: 09/28/21	Scale: NTS	
Path: C:\Users\Apeetal\Desktop\CN9-727 - 801485 - CT SUFFIELD 1 CAC 801485\CN9-727 SA\Analysis\CN9-727 BU_801485 WO_2026049.eri		Dwg No. E-1	

Tower Input Data

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

Tower is located in Hartford County, Connecticut.
Tower base elevation above sea level: 371.00 ft.
Basic wind speed of 115 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.5000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	190.50-143.17	47.33	3.58	18	14.7500	27.7780	0.2500	1.0000	A572-65 (65 ksi)
L2	143.17-93.75	53.00	5.33	18	26.2917	40.8800	0.3750	1.5000	A572-65 (65 ksi)
L3	93.75-46.08	53.00	6.92	18	38.6629	53.2510	0.3750	1.5000	A572-65 (65 ksi)
L4	46.08-0.00	53.00		18	50.5971	65.1850	0.3750	1.5000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	14.9390	11.5057	305.6247	5.1475	7.4930	40.7880	611.6515	5.7540	2.1560	8.624
	28.1680	21.8435	2091.2616	9.7724	14.1112	148.1985	4185.2749	10.9238	4.4489	17.796
L2	27.6409	30.8474	2617.6836	9.2004	13.3562	195.9900	5238.8117	15.4266	3.9673	10.58
	41.4528	48.2111	9993.1303	14.3793	20.7670	481.2015	19999.4098	24.1101	6.5349	17.426
L3	40.6912	45.5722	8440.3578	13.5922	19.6408	429.7368	16891.8217	22.7904	6.1447	16.386
	54.0146	62.9357	22230.6122	18.7710	27.0515	821.7883	44490.4759	31.4738	8.7122	23.232
L4	53.2530	59.7769	19048.4969	17.8289	25.7033	741.0905	38122.0584	29.8941	8.2451	21.987
	66.1327	77.1401	40935.6513	23.0075	33.1140	1236.2045	81925.1668	38.5774	10.8126	28.833

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 190.50-143.17				1	1	1			
L2 143.17-93.75				1	1	1			
L3 93.75-46.08				1	1	1			
L4 46.08-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
******										
Safety Line 3/8	A	No	Surface Ar (CaAa)	0.00 - 10.00	1	1	0.350 0.350	0.3750		0.22
Climbing Pegs	A	No	Surface Ar (CaAa)	0.00 - 10.00	1	1	0.300 0.400	0.7050		1.80
HCS 6X12 4AWG(1-5/8)	B	No	Surface Ar (CaAa)	180.00 - 3.00	1	1	-0.300 -0.300	1.6600		2.40
CR-1873-PE(1-5/8)	C	No	Surface Ar (CaAa)	168.00 - 6.00	6	6	0.100 0.300	1.9800		0.86
FB-L98B-002-75000(3/8)	C	No	Surface Ar (CaAa)	168.00 - 6.00	1	1	0.080 0.080	0.0000		0.06
WR-VG86ST-BRD(3/4)	C	No	Surface Ar (CaAa)	168.00 - 6.00	2	2	0.080 0.080	0.0000		0.58
2" Conduit	C	No	Surface Ar (CaAa)	168.00 - 6.00	1	1	0.080 0.080	2.0000		2.80
LDF7-50A(1-5/8)	C	No	Surface Ar (CaAa)	160.00 - 6.00	5	5	-0.150 0.000	1.9800		0.82

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 plf
******									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	190.50 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
******									
AVA7-50(1-5/8)	B	No	No	Inside Pole	180.00 - 3.00	6	No Ice	0.00	0.70
							1/2" Ice	0.00	0.70
							1" Ice	0.00	0.70
							2" Ice	0.00	0.70
LDF7-50A(1-5/8)	B	No	No	Inside Pole	180.00 - 3.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
******									
AVA7-50(1-5/8)	C	No	No	Inside Pole	168.00 - 6.00	6	No Ice	0.00	0.70
							1/2" Ice	0.00	0.70
							1" Ice	0.00	0.70
							2" Ice	0.00	0.70
******									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	160.00 - 6.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
HB158-1-08U8-S8J18(1-5/8)	C	No	No	Inside Pole	160.00 - 6.00	1	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30
***									
HB158-21U6S12-XXXM-01(1-5/8)	C	No	No	Inside Pole	160.00 - 6.00	1	No Ice	0.00	1.90
							1/2" Ice	0.00	1.90
							1" Ice	0.00	1.90
							2" Ice	0.00	1.90

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	190.50-143.17	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	6.114	0.000	0.89
		C	0.000	0.000	51.126	0.000	0.54
L2	143.17-93.75	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	8.203	0.000	1.06
		C	0.000	0.000	117.514	0.000	1.27
L3	93.75-46.08	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	7.913	0.000	1.02
		C	0.000	0.000	113.359	0.000	1.22
L4	46.08-0.00	A	0.000	0.000	1.080	0.000	0.02
		B	0.000	0.000	7.152	0.000	0.95
		C	0.000	0.000	95.317	0.000	1.03

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	190.50-143.17	A	1.497	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	17.143	0.000	1.10
		C		0.000	0.000	102.425	0.000	1.60
L2	143.17-93.75	A	1.447	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	23.001	0.000	1.34
		C		0.000	0.000	229.510	0.000	3.65
L3	93.75-46.08	A	1.373	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	21.710	0.000	1.28
		C		0.000	0.000	218.648	0.000	3.43
L4	46.08-0.00	A	1.231	0.000	0.000	6.572	0.000	0.08
		B		0.000	0.000	18.983	0.000	1.17
		C		0.000	0.000	180.434	0.000	2.77

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	190.50-143.17	-0.8623	4.8383	-0.6103	4.0389
L2	143.17-93.75	-1.1441	8.1893	-0.8712	6.8691
L3	93.75-46.08	-1.3217	9.4644	-1.0518	8.2680
L4	46.08-0.00	-1.3225	9.1866	-1.1656	8.0117

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	9	HCS 6X12 4AWG(1-5/8)	143.17 - 180.00	1.0000	1.0000
L1	12	CR-1873-PE(1-5/8)	143.17 - 168.00	1.0000	1.0000
L1	13	FB-L98B-002-75000(3/8)	143.17 - 168.00	1.0000	1.0000
L1	14	WR-VG86ST-BRD(3/4)	143.17 - 168.00	1.0000	1.0000
L1	15	2" Conduit	143.17 - 168.00	1.0000	1.0000
L1	19	LDF7-50A(1-5/8)	143.17 - 160.00	1.0000	1.0000
L2	9	HCS 6X12 4AWG(1-5/8)	93.75 - 143.17	1.0000	1.0000
L2	12	CR-1873-PE(1-5/8)	93.75 - 143.17	1.0000	1.0000
L2	13	FB-L98B-002-75000(3/8)	93.75 - 143.17	1.0000	1.0000
L2	14	WR-VG86ST-BRD(3/4)	93.75 - 143.17	1.0000	1.0000
L2	15	2" Conduit	93.75 - 143.17	1.0000	1.0000
L2	19	LDF7-50A(1-5/8)	93.75 - 143.17	1.0000	1.0000
L3	9	HCS 6X12 4AWG(1-5/8)	46.08 - 93.75	1.0000	1.0000
L3	12	CR-1873-PE(1-5/8)	46.08 - 93.75	1.0000	1.0000
L3	13	FB-L98B-002-75000(3/8)	46.08 - 93.75	1.0000	1.0000
L3	14	WR-VG86ST-BRD(3/4)	46.08 - 93.75	1.0000	1.0000
L3	15	2" Conduit	46.08 - 93.75	1.0000	1.0000
L3	19	LDF7-50A(1-5/8)	46.08 - 93.75	1.0000	1.0000
L4	2	Safety Line 3/8	0.00 - 10.00	1.0000	1.0000
L4	3	Climbing Pegs	0.00 - 10.00	1.0000	1.0000
L4	9	HCS 6X12 4AWG(1-5/8)	3.00 - 46.08	1.0000	1.0000
L4	12	CR-1873-PE(1-5/8)	6.00 - 46.08	1.0000	1.0000
L4	13	FB-L98B-002-75000(3/8)	6.00 - 46.08	1.0000	1.0000
L4	14	WR-VG86ST-BRD(3/4)	6.00 - 46.08	1.0000	1.0000
L4	15	2" Conduit	6.00 - 46.08	1.0000	1.0000
L4	19	LDF7-50A(1-5/8)	6.00 - 46.08	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Lightning Rod 5/8" x 6'	B	From Leg	1.00 0.00 3.00	0.0000	190.50	No Ice 1/2" Ice 1" Ice 2" Ice	0.38 0.99 1.62 2.46	0.38 0.99 1.62 2.46	0.01 0.01 0.02 0.05
******									
(4) DB844H90-XY w/ Mount Pipe	A	From Leg	4.00 0.00 1.00	0.0000	191.00	No Ice 1/2" Ice 1" Ice	2.24 2.61 2.99 3.78	3.34 3.73 4.13 4.97	0.04 0.07 0.12 0.23

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
(4) DB844H90-XY w/ Mount Pipe	B	From Leg	4.00 0.00 1.00	0.0000	191.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.24 2.61 2.99 3.78	3.34 3.73 4.13 4.97	0.04 0.07 0.12 0.23
(4) DB844H90-XY w/ Mount Pipe	C	From Leg	4.00 0.00 1.00	0.0000	191.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.24 2.61 2.99 3.78	3.34 3.73 4.13 4.97	0.04 0.07 0.12 0.23
Platform Mount [LP 712-1]	C	None		0.0000	191.00	No Ice 1/2" Ice 1" Ice 2" Ice	24.56 27.92 31.27 37.98	24.56 27.92 31.27 37.98	1.34 1.91 2.55 3.97
*******									
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.29 6.86 7.45 8.68	2.76 3.27 3.79 4.90	0.06 0.11 0.16 0.29
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.29 6.86 7.45 8.68	2.76 3.27 3.79 4.90	0.06 0.11 0.16 0.29
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.29 6.86 7.45 8.68	2.76 3.27 3.79 4.90	0.06 0.11 0.16 0.29
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
KRY 112 489/2	A	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.56 0.66 0.76 1.00	0.37 0.45 0.54 0.75	0.01 0.02 0.03 0.05
KRY 112 489/2	B	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.56 0.66 0.76 1.00	0.37 0.45 0.54 0.75	0.01 0.02 0.03 0.05
KRY 112 489/2	C	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.56 0.66 0.76 1.00	0.37 0.45 0.54 0.75	0.01 0.02 0.03 0.05
RADIO 4449 B12/B71	A	From Leg	4.00 0.00 2.00	0.0000	180.00	No Ice 1/2" Ice	1.65 1.81 1.98	1.16 1.30 1.45	0.07 0.09 0.11

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* *ft* *ft* *ft*	*Azimuth Adjustment* *°*	*Placement* *ft*		*C_AA_A Front* *ft^2*	*C_AA_A Side* *ft^2*	*Weight* *K*
						1" Ice	2.34	1.76	0.16
						2" Ice			
RADIO 4449 B12/B71	B	From Leg	4.00	0.0000	180.00	No Ice	1.65	1.16	0.07
			0.00			1/2"	1.81	1.30	0.09
			2.00			Ice	1.98	1.45	0.11
						1" Ice	2.34	1.76	0.16
						2" Ice			
RADIO 4449 B12/B71	C	From Leg	4.00	0.0000	180.00	No Ice	1.65	1.16	0.07
			0.00			1/2"	1.81	1.30	0.09
			2.00			Ice	1.98	1.45	0.11
						1" Ice	2.34	1.76	0.16
						2" Ice			
6' x 2" Mount Pipe	A	From Leg	4.00	0.0000	180.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
6' x 2" Mount Pipe	B	From Leg	4.00	0.0000	180.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
6' x 2" Mount Pipe	C	From Leg	4.00	0.0000	180.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
13' horizontal Pipe [# P2.5 STD]	A	From Leg	4.00	0.0000	180.00	No Ice	3.74	3.74	0.29
			0.00			1/2"	5.07	5.07	0.31
			0.00			Ice	6.42	6.42	0.35
						1" Ice	8.87	8.87	0.45
						2" Ice			
13' horizontal Pipe [# P2.5 STD]	B	From Leg	4.00	0.0000	180.00	No Ice	3.74	3.74	0.29
			0.00			1/2"	5.07	5.07	0.31
			0.00			Ice	6.42	6.42	0.35
						1" Ice	8.87	8.87	0.45
						2" Ice			
13' horizontal Pipe [# P2.5 STD]	C	From Leg	4.00	0.0000	180.00	No Ice	3.74	3.74	0.29
			0.00			1/2"	5.07	5.07	0.31
			0.00			Ice	6.42	6.42	0.35
						1" Ice	8.87	8.87	0.45
						2" Ice			
Reinforcement Kit [# PRK-SFS-L]	C	None		0.0000	180.00	No Ice	11.84	11.84	0.28
						1/2"	16.96	16.96	0.30
						Ice	22.08	22.08	0.32
						1" Ice	32.32	32.32	0.36
						2" Ice			
Reinforcement Kit [# PRK-SFS-L]	C	None		0.0000	180.00	No Ice	11.84	11.84	0.28
						1/2"	16.96	16.96	0.30
						Ice	22.08	22.08	0.32
						1" Ice	32.32	32.32	0.36
						2" Ice			
Side Arm Mount [SO 102-3]	C	None		0.0000	181.50	No Ice	3.60	3.60	0.07
						1/2"	4.18	4.18	0.11
						Ice	4.75	4.75	0.14
						1" Ice	5.90	5.90	0.20
						2" Ice			
Side Arm Mount [SO 102-3]	C	None		0.0000	181.75	No Ice	3.60	3.60	0.07
						1/2"	4.18	4.18	0.11
						Ice	4.75	4.75	0.14
						1" Ice	5.90	5.90	0.20
						2" Ice			
T-Arm Mount [TA 701-3]	C	None		0.0000	180.00	No Ice	23.94	23.94	1.09
						1/2"	30.04	30.04	1.48
						Ice	36.16	36.16	1.95

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice 2" Ice	48.72	48.72	3.16
******									
P65-17-XLH-RR w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.48 8.17 8.88 10.33	5.29 5.96 6.64 8.05	0.09 0.17 0.26 0.49
P65-17-XLH-RR w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.48 8.17 8.88 10.33	5.29 5.96 6.64 8.05	0.09 0.17 0.26 0.49
AM-X-CD-14-65-00T-RET w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.99 3.30 3.62 4.28	2.14 2.43 2.73 3.36	0.05 0.10 0.14 0.27
(2) 7770.00 w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
(2) 7770.00 w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
(2) 7770.00 w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
RRUS-11	A	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.78 2.99 3.21 3.66	1.19 1.33 1.49 1.83	0.05 0.07 0.09 0.15
RRUS-11	B	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.78 2.99 3.21 3.66	1.19 1.33 1.49 1.83	0.05 0.07 0.09 0.15
RRUS-11	C	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.78 2.99 3.21 3.66	1.19 1.33 1.49 1.83	0.05 0.07 0.09 0.15
(2) LGP21401	A	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.21 0.27 0.35 0.52	0.01 0.02 0.03 0.05
(2) LGP21401	B	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.21 0.27 0.35 0.52	0.01 0.02 0.03 0.05
(2) LGP21401	C	From Leg	4.00 0.00 2.00	0.0000	168.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.21 0.27 0.35 0.52	0.01 0.02 0.03 0.05
(2) LGP21901	A	From Leg	4.00 0.00	0.0000	168.00	No Ice 1/2"	0.23 0.29	0.16 0.21	0.01 0.01

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* *ft* *ft* *ft*	*Azimuth Adjustment* *°*	*Placement* *ft*		C_AA_A *Front* *ft²*	C_AA_A *Side* *ft²*	*Weight* *K*
			2.00			Ice	0.36	0.28	0.01
						1" Ice	0.53	0.42	0.02
						2" Ice			
(2) LGP21901	B	From Leg	4.00	0.0000	168.00	No Ice	0.23	0.16	0.01
			0.00			1/2"	0.29	0.21	0.01
			2.00			Ice	0.36	0.28	0.01
						1" Ice	0.53	0.42	0.02
						2" Ice			
(2) LGP21901	C	From Leg	4.00	0.0000	168.00	No Ice	0.23	0.16	0.01
			0.00			1/2"	0.29	0.21	0.01
			2.00			Ice	0.36	0.28	0.01
						1" Ice	0.53	0.42	0.02
						2" Ice			
DC6-48-60-18-8F	A	From Leg	1.00	0.0000	168.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			2.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
Platform Mount [LP 303-1]	C	None		0.0000	168.00	No Ice	14.69	14.69	1.25
						1/2"	18.01	18.01	1.57
						Ice	21.34	21.34	1.94
						1" Ice	28.08	28.08	2.85
						2" Ice			
******									
(2) SBNHH-1D65B w/ Mount Pipe	A	From Leg	4.00	0.0000	160.00	No Ice	4.09	3.30	0.07
			0.00			1/2"	4.49	3.68	0.13
			0.00			Ice	4.89	4.07	0.20
						1" Ice	5.72	4.87	0.39
						2" Ice			
(2) SBNHH-1D65B w/ Mount Pipe	B	From Leg	4.00	0.0000	160.00	No Ice	4.09	3.30	0.07
			0.00			1/2"	4.49	3.68	0.13
			0.00			Ice	4.89	4.07	0.20
						1" Ice	5.72	4.87	0.39
						2" Ice			
(2) SBNHH-1D65B w/ Mount Pipe	C	From Leg	4.00	0.0000	160.00	No Ice	4.09	3.30	0.07
			0.00			1/2"	4.49	3.68	0.13
			0.00			Ice	4.89	4.07	0.20
						1" Ice	5.72	4.87	0.39
						2" Ice			
(2) 6' x 2" Mount Pipe	A	From Leg	4.00	0.0000	160.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
(2) 6' x 2" Mount Pipe	B	From Leg	4.00	0.0000	160.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
(2) 6' x 2" Mount Pipe	C	From Leg	4.00	0.0000	160.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
Platform Mount [LP 714-1]	C	None		0.0000	160.00	No Ice	37.51	37.51	1.60
						1/2"	41.70	41.70	2.50
						Ice	45.89	45.89	3.46
						1" Ice	54.29	54.29	5.58
						2" Ice			
***									
MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	160.00	No Ice	4.91	2.68	0.10
			0.00			1/2"	5.26	3.14	0.14
			0.00			Ice	5.61	3.62	0.18
						1" Ice	6.36	4.63	0.29
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
MT6407-77A w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
MT6407-77A w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.91 5.26 5.61 6.36	2.68 3.14 3.62 4.63	0.10 0.14 0.18 0.29
RF4439D-25A	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4439D-25A	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4439D-25A	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.25 1.39 1.54 1.87	0.07 0.09 0.11 0.17
RF4440D-13A	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.13 1.27 1.41 1.72	0.07 0.09 0.11 0.16
RF4440D-13A	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.13 1.27 1.41 1.72	0.07 0.09 0.11 0.16
RF4440D-13A	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.87 2.03 2.21 2.59	1.13 1.27 1.41 1.72	0.07 0.09 0.11 0.16
RVZDC-6627-PF-48_CCIV2	C	From Leg	1.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.06 4.32 4.58 5.14	3.10 3.34 3.58 4.09	0.03 0.07 0.11 0.20
Mount Reinforcement Specifications	C	None		0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	28.63 37.31 45.80 62.38	28.63 37.31 45.80 62.38	0.28 0.67 0.94 1.63

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

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	190.5 - 143.17	Pole	Max Tension	21	0.00	-0.00	-0.00
			Max. Compression	26	-38.27	-0.94	-1.34
			Max. Mx	8	-15.28	-537.48	-0.58
			Max. My	14	-15.31	-0.55	-535.74
			Max. Vy	8	20.20	-537.48	-0.58
			Max. Vx	14	20.11	-0.55	-535.74
			Max. Torque	25			-0.62
L2	143.17 - 93.753	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-54.38	-1.64	-6.17
			Max. Mx	8	-26.30	-1609.54	-1.97
			Max. My	14	-26.37	-1.10	-1591.71
			Max. Vy	8	24.97	-1609.54	-1.97
			Max. Vx	14	24.29	-1.10	-1591.71
			Max. Torque	25			-0.39
L3	93.753 - 46.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-74.50	-2.41	-12.02
			Max. Mx	8	-40.62	-2871.08	-3.67

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	-40.66	-1.67	-2817.17
			Max. Vy	8	29.70	-2871.08	-3.67
			Max. Vx	14	28.82	-1.67	-2817.17
			Max. Torque	13			0.39
L4	46.083 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-101.63	-3.07	-18.35
			Max. Mx	8	-60.88	-4577.04	-5.67
			Max. My	14	-60.88	-2.27	-4477.77
			Max. Vy	8	34.39	-4577.04	-5.67
			Max. Vx	14	33.53	-2.27	-4477.77
			Max. Torque	13			0.39

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	33	101.63	0.03	-16.91
	Max. H_x	21	45.68	34.35	0.01
	Max. H_z	3	45.68	0.01	33.49
	Max. M_x	2	4469.15	0.01	33.49
	Max. M_z	8	4577.04	-34.35	-0.01
	Max. Torsion	13	0.39	-16.74	-29.00
	Min. Vert	25	45.68	16.74	29.00
	Min. H_x	9	45.68	-34.35	-0.01
	Min. H_z	15	45.68	-0.01	-33.49
	Min. M_x	14	-4477.77	-0.01	-33.49
	Min. M_z	20	-4575.16	34.35	0.01
	Min. Torsion	25	-0.39	16.74	29.00

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	50.75	0.00	0.00	3.41	-0.73	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	60.91	-0.01	-33.49	-4469.15	0.40	0.32
0.9 Dead+1.0 Wind 0 deg - No Ice	45.68	-0.01	-33.49	-4399.70	0.62	0.32
1.2 Dead+1.0 Wind 30 deg - No Ice	60.91	16.73	-29.00	-3869.17	-2235.76	0.17
0.9 Dead+1.0 Wind 30 deg - No Ice	45.68	16.73	-29.00	-3809.20	-2200.27	0.17
1.2 Dead+1.0 Wind 60 deg - No Ice	60.91	28.99	-16.74	-2231.26	-3873.10	-0.03
0.9 Dead+1.0 Wind 60 deg - No Ice	45.68	28.99	-16.74	-2197.13	-3811.78	-0.03
1.2 Dead+1.0 Wind 90 deg - No Ice	60.91	34.35	0.01	5.67	-4577.04	-0.22
0.9 Dead+1.0 Wind 90 deg - No Ice	45.68	34.35	0.01	4.51	-4504.99	-0.22
1.2 Dead+1.0 Wind 120 deg - No Ice	60.91	29.34	16.95	2270.20	-3922.86	-0.35
0.9 Dead+1.0 Wind 120 deg - No Ice	45.68	29.34	16.95	2233.37	-3860.84	-0.35
1.2 Dead+1.0 Wind 150 deg - No Ice	60.91	16.74	29.00	3879.12	-2238.05	-0.39
0.9 Dead+1.0 Wind 150 deg - No Ice	45.68	16.74	29.00	3816.88	-2202.52	-0.39
1.2 Dead+1.0 Wind 180 deg - No Ice	60.91	0.01	33.49	4477.77	-2.27	-0.32
0.9 Dead+1.0 Wind 180 deg - No Ice	45.68	0.01	33.49	4406.07	-2.00	-0.32

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 210 deg - No Ice	60.91	-16.73	29.00	3877.80	2233.87	-0.17
0.9 Dead+1.0 Wind 210 deg - No Ice	45.68	-16.73	29.00	3815.58	2198.88	-0.17
1.2 Dead+1.0 Wind 240 deg - No Ice	60.91	-28.99	16.74	2239.91	3871.20	0.03
0.9 Dead+1.0 Wind 240 deg - No Ice	45.68	-28.99	16.74	2203.53	3810.39	0.03
1.2 Dead+1.0 Wind 270 deg - No Ice	60.91	-34.35	-0.01	3.00	4575.16	0.22
0.9 Dead+1.0 Wind 270 deg - No Ice	45.68	-34.35	-0.01	1.89	4503.61	0.22
1.2 Dead+1.0 Wind 300 deg - No Ice	60.91	-29.34	-16.95	-2261.54	3921.00	0.35
0.9 Dead+1.0 Wind 300 deg - No Ice	45.68	-29.34	-16.95	-2226.98	3859.48	0.35
1.2 Dead+1.0 Wind 330 deg - No Ice	60.91	-16.74	-29.00	-3870.49	2236.19	0.39
0.9 Dead+1.0 Wind 330 deg - No Ice	45.68	-16.74	-29.00	-3810.50	2201.15	0.39
1.2 Dead+1.0 Ice+1.0 Temp	101.63	0.00	0.00	18.35	-3.07	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	101.63	0.03	-16.91	-2630.66	-7.97	-0.30
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	101.63	8.49	-14.66	-2278.19	-1334.72	-0.17
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	101.63	14.68	-8.48	-1310.28	-2304.64	0.01
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	101.63	16.94	-0.03	13.65	-2657.83	0.18
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	101.63	14.66	8.43	1338.88	-2299.77	0.31
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	101.63	8.45	14.63	2310.32	-1326.28	0.35
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	101.63	-0.03	16.91	2667.62	1.76	0.30
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	101.63	-8.49	14.66	2315.18	1328.49	0.16
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	101.63	-14.68	8.48	1347.30	2298.44	-0.01
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	101.63	-16.94	0.03	23.37	2651.66	-0.18
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	101.63	-14.66	-8.43	-1301.89	2293.61	-0.31
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	101.63	-8.45	-14.63	-2273.35	1320.10	-0.35
Dead+Wind 0 deg - Service	50.75	-0.00	-8.59	-1133.79	-0.44	0.08
Dead+Wind 30 deg - Service	50.75	4.29	-7.43	-981.24	-568.97	0.04
Dead+Wind 60 deg - Service	50.75	7.43	-4.29	-564.81	-985.26	-0.01
Dead+Wind 90 deg - Service	50.75	8.81	0.00	3.92	-1164.35	-0.06
Dead+Wind 120 deg - Service	50.75	7.52	4.34	579.70	-997.98	-0.09
Dead+Wind 150 deg - Service	50.75	4.29	7.44	988.75	-569.57	-0.10
Dead+Wind 180 deg - Service	50.75	0.00	8.59	1140.94	-1.12	-0.08
Dead+Wind 210 deg - Service	50.75	-4.29	7.43	988.39	567.41	-0.04
Dead+Wind 240 deg - Service	50.75	-7.43	4.29	571.97	983.70	0.01
Dead+Wind 270 deg - Service	50.75	-8.81	-0.00	3.24	1162.79	0.06
Dead+Wind 300 deg - Service	50.75	-7.52	-4.34	-572.55	996.42	0.09
Dead+Wind 330 deg - Service	50.75	-4.29	-7.44	-981.58	568.00	0.10

Solution Summary

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
1	0.00	-50.75	0.00	0.00	50.75	0.00	0.000%
2	-0.01	-60.91	-33.49	0.01	60.91	33.49	0.000%
3	-0.01	-45.68	-33.49	0.01	45.68	33.49	0.000%
4	16.73	-60.91	-29.00	-16.73	60.91	29.00	0.000%
5	16.73	-45.68	-29.00	-16.73	45.68	29.00	0.000%
6	28.99	-60.91	-16.74	-28.99	60.91	16.74	0.000%
7	28.99	-45.68	-16.74	-28.99	45.68	16.74	0.000%
8	34.35	-60.91	0.01	-34.35	60.91	-0.01	0.000%
9	34.35	-45.68	0.01	-34.35	45.68	-0.01	0.000%
10	29.34	-60.91	16.95	-29.34	60.91	-16.95	0.000%
11	29.34	-45.68	16.95	-29.34	45.68	-16.95	0.000%
12	16.74	-60.91	29.00	-16.74	60.91	-29.00	0.000%
13	16.74	-45.68	29.00	-16.74	45.68	-29.00	0.000%
14	0.01	-60.91	33.49	-0.01	60.91	-33.49	0.000%
15	0.01	-45.68	33.49	-0.01	45.68	-33.49	0.000%
16	-16.73	-60.91	29.00	16.73	60.91	-29.00	0.000%
17	-16.73	-45.68	29.00	16.73	45.68	-29.00	0.000%
18	-28.99	-60.91	16.74	28.99	60.91	-16.74	0.000%
19	-28.99	-45.68	16.74	28.99	45.68	-16.74	0.000%
20	-34.35	-60.91	-0.01	34.35	60.91	0.01	0.000%
21	-34.35	-45.68	-0.01	34.35	45.68	0.01	0.000%
22	-29.34	-60.91	-16.95	29.34	60.91	16.95	0.000%
23	-29.34	-45.68	-16.95	29.34	45.68	16.95	0.000%
24	-16.74	-60.91	-29.00	16.74	60.91	29.00	0.000%
25	-16.74	-45.68	-29.00	16.74	45.68	29.00	0.000%
26	0.00	-101.63	0.00	-0.00	101.63	-0.00	0.000%
27	0.03	-101.63	-16.91	-0.03	101.63	16.91	0.000%
28	8.49	-101.63	-14.66	-8.49	101.63	14.66	0.000%
29	14.68	-101.63	-8.48	-14.68	101.63	8.48	0.000%
30	16.94	-101.63	-0.03	-16.94	101.63	0.03	0.000%
31	14.66	-101.63	8.43	-14.66	101.63	-8.43	0.000%
32	8.45	-101.63	14.63	-8.45	101.63	-14.63	0.000%
33	-0.03	-101.63	16.91	0.03	101.63	-16.91	0.000%
34	-8.49	-101.63	14.66	8.49	101.63	-14.66	0.000%
35	-14.68	-101.63	8.48	14.68	101.63	-8.48	0.000%
36	-16.94	-101.63	0.03	16.94	101.63	-0.03	0.000%
37	-14.66	-101.63	-8.43	14.66	101.63	8.43	0.000%
38	-8.45	-101.63	-14.63	8.45	101.63	14.63	0.000%
39	-0.00	-50.75	-8.59	0.00	50.75	8.59	0.000%
40	4.29	-50.75	-7.43	-4.29	50.75	7.43	0.000%
41	7.43	-50.75	-4.29	-7.43	50.75	4.29	0.000%
42	8.81	-50.75	0.00	-8.81	50.75	-0.00	0.000%
43	7.52	-50.75	4.34	-7.52	50.75	-4.34	0.000%
44	4.29	-50.75	7.44	-4.29	50.75	-7.44	0.000%
45	0.00	-50.75	8.59	-0.00	50.75	-8.59	0.000%
46	-4.29	-50.75	7.43	4.29	50.75	-7.43	0.000%
47	-7.43	-50.75	4.29	7.43	50.75	-4.29	0.000%
48	-8.81	-50.75	-0.00	8.81	50.75	0.00	0.000%
49	-7.52	-50.75	-4.34	7.52	50.75	4.34	0.000%
50	-4.29	-50.75	-7.44	4.29	50.75	7.44	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	0.00003542
3	Yes	4	0.00000001	0.00092666
4	Yes	6	0.00000001	0.00026166
5	Yes	6	0.00000001	0.00008297
6	Yes	6	0.00000001	0.00026103
7	Yes	6	0.00000001	0.00008276
8	Yes	5	0.00000001	0.00002706
9	Yes	4	0.00000001	0.00091918

10	Yes	6	0.00000001	0.00026581
11	Yes	6	0.00000001	0.00008368
12	Yes	6	0.00000001	0.00026338
13	Yes	6	0.00000001	0.00008345
14	Yes	5	0.00000001	0.00004012
15	Yes	4	0.00000001	0.00094143
16	Yes	6	0.00000001	0.00026091
17	Yes	6	0.00000001	0.00008263
18	Yes	6	0.00000001	0.00026148
19	Yes	6	0.00000001	0.00008282
20	Yes	5	0.00000001	0.00002893
21	Yes	4	0.00000001	0.00092421
22	Yes	6	0.00000001	0.00026719
23	Yes	6	0.00000001	0.00008436
24	Yes	6	0.00000001	0.00025993
25	Yes	6	0.00000001	0.00008231
26	Yes	4	0.00000001	0.00008314
27	Yes	6	0.00000001	0.00035401
28	Yes	7	0.00000001	0.00020391
29	Yes	7	0.00000001	0.00020359
30	Yes	6	0.00000001	0.00035771
31	Yes	7	0.00000001	0.00020809
32	Yes	7	0.00000001	0.00020542
33	Yes	6	0.00000001	0.00035831
34	Yes	7	0.00000001	0.00020752
35	Yes	7	0.00000001	0.00020805
36	Yes	6	0.00000001	0.00035728
37	Yes	7	0.00000001	0.00019981
38	Yes	7	0.00000001	0.00020224
39	Yes	4	0.00000001	0.00017186
40	Yes	4	0.00000001	0.00098213
41	Yes	4	0.00000001	0.00097526
42	Yes	4	0.00000001	0.00017597
43	Yes	5	0.00000001	0.00007054
44	Yes	5	0.00000001	0.00007023
45	Yes	4	0.00000001	0.00017376
46	Yes	4	0.00000001	0.00097646
47	Yes	4	0.00000001	0.00098285
48	Yes	4	0.00000001	0.00017549
49	Yes	5	0.00000001	0.00007111
50	Yes	4	0.00000001	0.00096101

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	190.5 - 143.17	40.805	42	2.1749	0.0014
L2	146.753 - 93.753	22.625	42	1.6400	0.0005
L3	99.083 - 46.083	9.556	42	0.9751	0.0002
L4	53 - 0	2.598	42	0.4595	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
191.00	(4) DB844H90-XY w/ Mount Pipe	42	40.805	2.1749	0.0014	25936
190.50	Lightning Rod 5/8" x 6'	42	40.805	2.1749	0.0014	25936
181.75	Side Arm Mount [SO 102-3]	42	36.921	2.0729	0.0012	14820
181.50	Side Arm Mount [SO 102-3]	42	36.810	2.0700	0.0012	14408
180.00	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	42	36.149	2.0524	0.0011	12350
168.00	P65-17-XLH-RR w/ Mount Pipe	42	30.967	1.9096	0.0009	5762
160.00	(2) SBNHH-1D65B w/ Mount Pipe	42	27.668	1.8113	0.0007	4250

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	190.5 - 143.17	160.462	8	8.5681	0.0052
L2	146.753 - 93.753	89.044	8	6.4630	0.0020
L3	99.083 - 46.083	37.613	8	3.8416	0.0007
L4	53 - 0	10.220	8	1.8088	0.0002

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
191.00	(4) DB844H90-XY w/ Mount Pipe	8	160.462	8.5681	0.0052	6848
190.50	Lightning Rod 5/8" x 6'	8	160.462	8.5681	0.0052	6848
181.75	Side Arm Mount [SO 102-3]	8	145.209	8.1669	0.0045	3912
181.50	Side Arm Mount [SO 102-3]	8	144.775	8.1554	0.0045	3803
180.00	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	8	142.179	8.0862	0.0044	3259
168.00	P65-17-XLH-RR w/ Mount Pipe	8	121.822	7.5245	0.0034	1517
160.00	(2) SBNHH-1D65B w/ Mount Pipe	8	108.862	7.1375	0.0029	1116

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	190.5 - 143.17 (1)	TP27.778x14.75x0.25	47.33	0.00	0.0	21.0609	-15.27	1232.06	0.012
L2	143.17 - 93.753 (2)	TP40.88x26.2917x0.375	53.00	0.00	0.0	46.4649	-26.30	2718.20	0.010
L3	93.753 - 46.083 (3)	TP53.251x38.6629x0.375	53.00	0.00	0.0	60.6696	-40.62	3549.17	0.011
L4	46.083 - 0 (4)	TP65.185x50.5971x0.375	53.00	0.00	0.0	77.1401	-60.88	4512.70	0.013

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	190.5 - 143.17 (1)	TP27.778x14.75x0.25	538.99	828.94	0.650	0.00	828.94	0.000
L2	143.17 - 93.753 (2)	TP40.88x26.2917x0.375	1609.54	2703.68	0.595	0.00	2703.68	0.000
L3	93.753 - 46.083 (3)	TP53.251x38.6629x0.375	2871.08	4242.49	0.677	0.00	4242.49	0.000
L4	46.083 - 0 (4)	TP65.185x50.5971x0.375	4577.04	6161.17	0.743	0.00	6161.17	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	190.5 - 143.17 (1)	TP27.778x14.75x0.25	20.26	369.62	0.055	0.35	859.14	0.000
L2	143.17 - 93.753 (2)	TP40.88x26.2917x0.375	24.97	815.46	0.031	0.22	2787.84	0.000
L3	93.753 - 46.083 (3)	TP53.251x38.6629x0.375	29.70	1064.75	0.028	0.22	4752.93	0.000
L4	46.083 - 0 (4)	TP65.185x50.5971x0.375	34.39	1353.81	0.025	0.22	7683.86	0.000

Pole Interaction Design Data

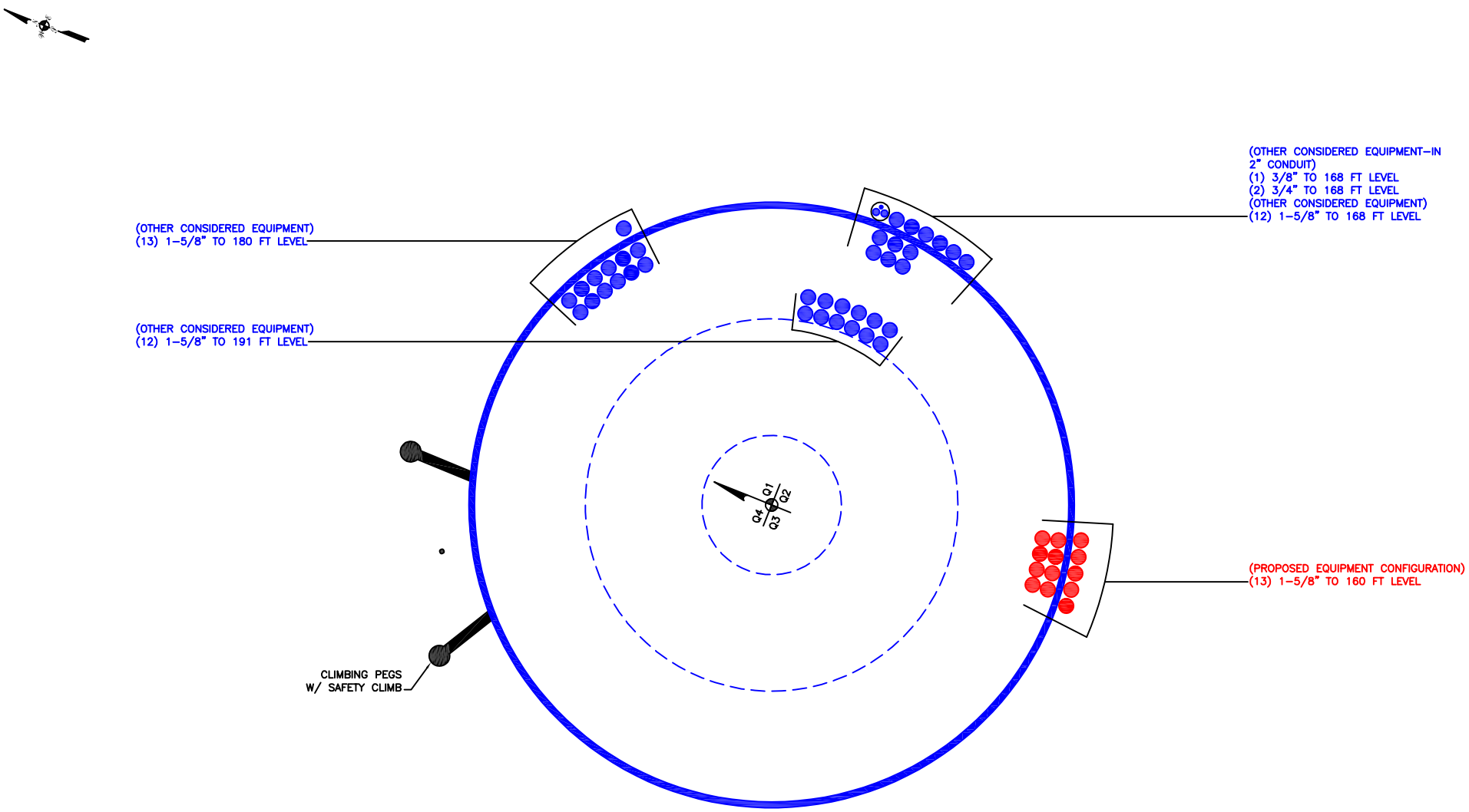
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	190.5 - 143.17 (1)	0.012	0.650	0.000	0.055	0.000	0.666	1.050	4.8.2
L2	143.17 - 93.753 (2)	0.010	0.595	0.000	0.031	0.000	0.606	1.050	4.8.2
L3	93.753 - 46.083 (3)	0.011	0.677	0.000	0.028	0.000	0.689	1.050	4.8.2
L4	46.083 - 0 (4)	0.013	0.743	0.000	0.025	0.000	0.757	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	190.5 - 143.17	Pole	TP27.778x14.75x0.25	1	-15.27	1293.66	63.4	Pass
L2	143.17 - 93.753	Pole	TP40.88x26.2917x0.375	2	-26.30	2854.11	57.7	Pass
L3	93.753 - 46.083	Pole	TP53.251x38.6629x0.375	3	-40.62	3726.63	65.6	Pass
L4	46.083 - 0	Pole	TP65.185x50.5971x0.375	4	-60.88	4738.33	72.1	Pass
							Summary	
						Pole (L4)	72.1	Pass
						RATING =	**72.1**	**Pass**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 801485 TOWER ID: C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

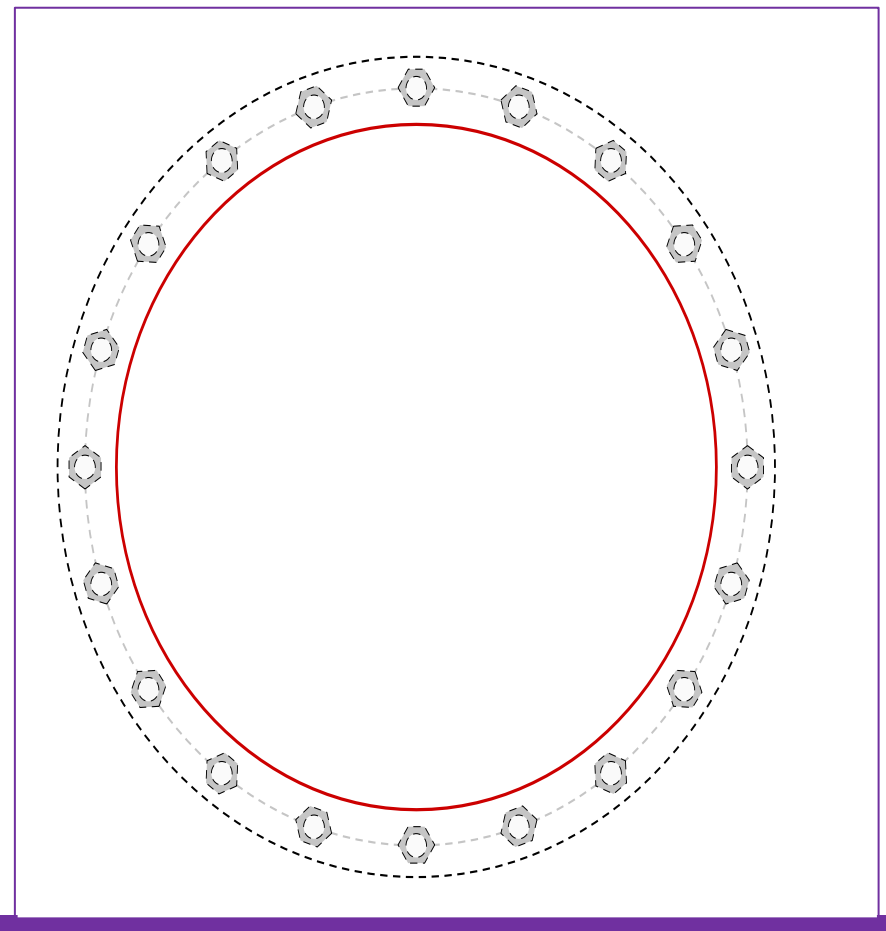
Monopole Base Plate Connection

Site Info	
BU #	801485
Site Name	T Suffield 1 CAC 80148
Order #	588826 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.5

Applied Loads	
Moment (kip-ft)	4577.04
Axial Force (kips)	60.88
Shear Force (kips)	34.39

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(20) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 72" BC

Base Plate Data

78" OD x 2.75" Plate (A633 Gr. E; Fy=60 ksi, Fu=70 ksi)

Stiffener Data

N/A

Pole Data

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

Analysis Results

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

Pu_t = 149.46	ϕPn_t = 243.75	**Stress Rating**
Vu = 1.72	ϕVn = 149.1	**58.4%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	17.6	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**31.0%**	**Pass**

Pier and Pad Foundation

BU # :	801485
Site Name:	CT Suffield 1 CAC
App. Number:	588826 Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions

Compression, P_{comp}:	60.91	kips
Base Shear, Vu_comp:	34.35	kips
Moment, M_u:	4577.04	ft-kips
Tower Height, **H**:	190.5	ft
BP Dist. Above Fdn, bp_{dist}:	3.75	in

Foundation Analysis Checks

	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	413.16	34.35	**7.9%**	**Pass**
Bearing Pressure (ksf)	9.00	1.80	**19.1%**	**Pass**
*Overturning (kip*ft)*	13146.93	4828.22	**36.7%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	7881.27	4645.74	**56.1%**	**Pass**
Pier Compression (kip)	23994.73	79.01	**0.3%**	**Pass**
*Pad Flexure (kip*ft)*	8302.75	1681.01	**19.3%**	**Pass**
Pad Shear - 1-way (kips)	1744.90	176.54	**9.6%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.016	**9.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	13203.03	2787.44	**20.1%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Structural Rating*:	**56.1%**
Soil Rating*:	**36.7%**

Pier Properties

Pier Shape:	Circular	
Pier Diameter, **dpier**:	8	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	9	
Pier Rebar Quantity, **mc**:	43	
Pier Tie/Spiral Size, **St**:	5	
Pier Tie/Spiral Quantity, **mt**:	9	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	6.5	ft
Pad Width, W_1:	32	ft
Pad Thickness, **T**:	5	ft
Pad Rebar Size (Top dir.2), Sp_{top2}:	9	
Pad Rebar Quantity (Top dir. 2), mp_{top2}:	42	
Pad Rebar Size (Bottom dir. 2), Sp_2:	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	34	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	3	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties

Total Soil Unit Weight, γ:	120	pcf
Ultimate Gross Bearing, Qult:	12.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	30	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:		
Neglected Depth, **N**:	2.00	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	7	ft

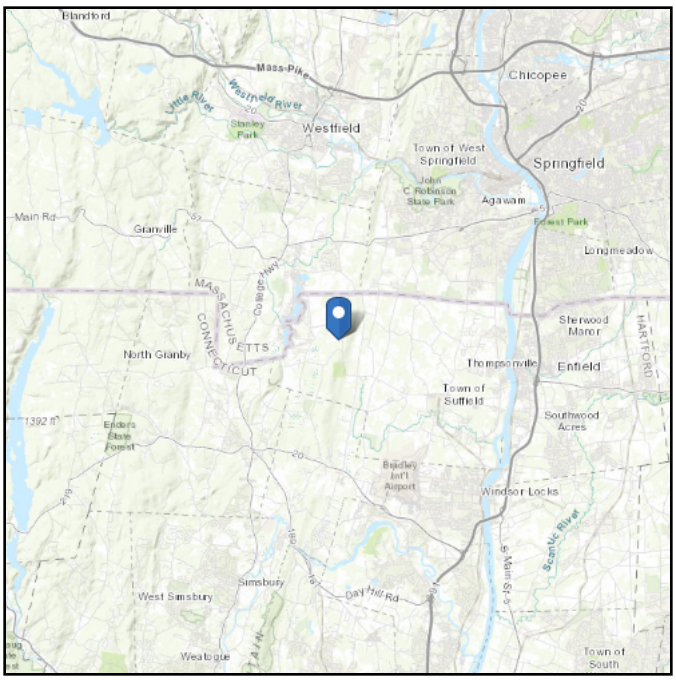
<--Toggle between Gross and Net

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 370.57 ft (NAVD 88)
Latitude: 42.011611
Longitude: -72.728778



Wind

Results:

Wind Speed:	115 Vmph
10-year MRI	75 Vmph
25-year MRI	83 Vmph
50-year MRI	89 Vmph
100-year MRI	96 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Tue Sep 28 2021

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

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

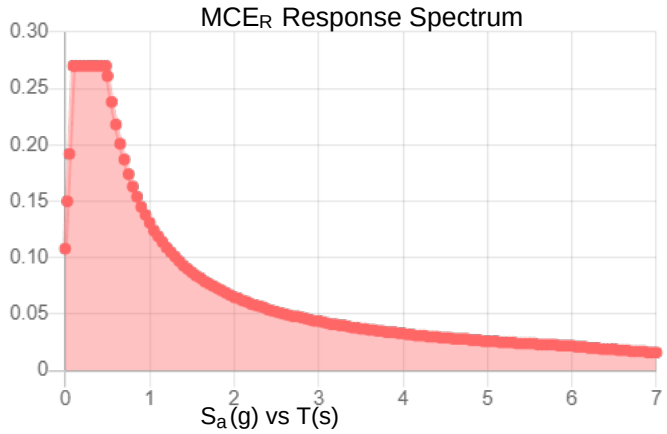
Seismic

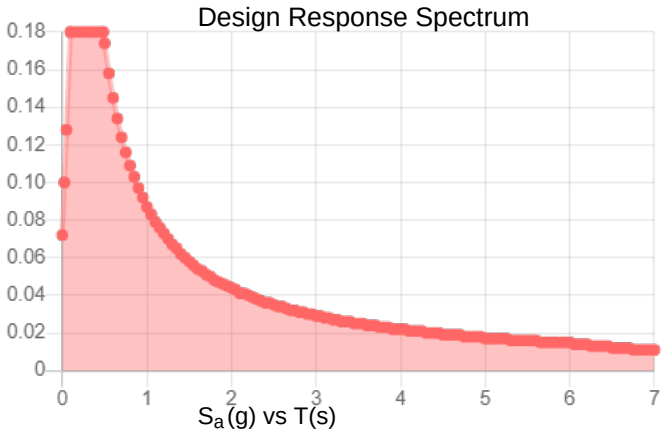
Site Soil Class: D - Default (see Section 11.4.3)

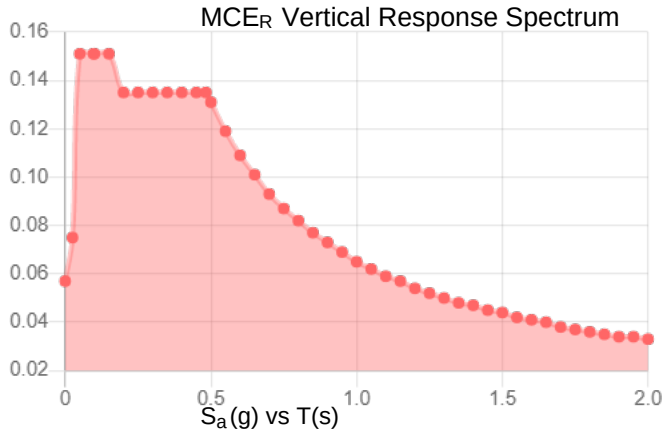
Results:

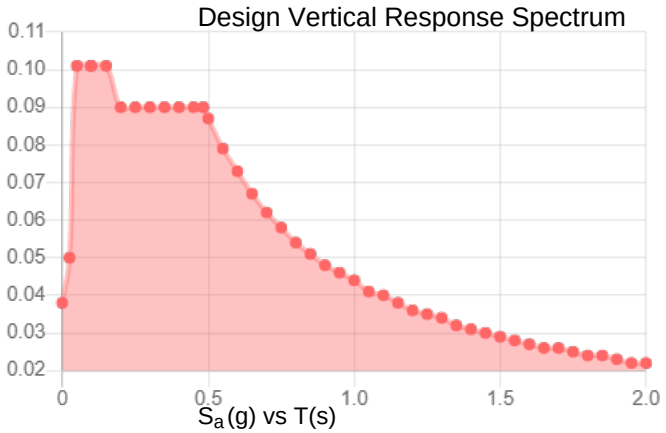
S_S :	0.169	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.088
F_v :	2.4	PGA_M :	0.141
S_{MS} :	0.27	F_{PGA} :	1.6
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.18	C_v :	0.7

Seismic Design Category B









Data Accessed: Tue Sep 28 2021

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

Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Tue Sep 28 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 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Exhibit E

Mount Analysis

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
(856) 797-0412
peter.albano@colliersengineering.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10101704
Maser Consulting Connecticut Project #: 21777319A

September 17, 2021

Site Information	*Site ID:*	*467729-VZW / SUFFIELD W CT*
	Site Name:	*SUFFIELD W CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*2715 MOUNTAIN RD.* *Suffield, Connecticut 06078* *Hartford County*
	Latitude:	*42.011611°*
	Longitude:	*-72.728778°*
Structure Information	*Tower Type:*	*160-Ft Self Support*
	Mount Type:	*13.17-Ft Platform*

FUZE ID # 16272417

Analysis Results

Platform: **65.6% 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
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Devin Castillo

STATE OF CONNECTICUT
JUSTIN PETER LINETTE
No. 31965
LICENSED PROFESSIONAL ENGINEER

Digitally signed by Justin Linette
Date: 2021.09.17 13:47:34-04'00'

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: 675067, dated August 30, 2021*
Mount Mapping Report	*Roaming Networks INC, Site ID: PSLC: 467729, Dated March 30, 2021*
Previous Mount Analysis Report	*Maser Consulting Connecticut Project #: 21777319A dated September 7, 2021*
Construction Drawings	*Maser Consulting Connecticut Project #: 21944516A dated September 17, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	115 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.987
Seismic Parameters:	S_S:	0.169
	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
158.00	160.00	6	Andrew	SBNHH-1D65B	Retained
		3	Samsung	MT6407-77A	Added
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4440d-13A	
		3	Samsung	RF4439d-25A	

The recent mount mapping did not report existing OVP units. However, 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.

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 in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. 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
Mod Bracing	*41.1%*	*Pass*
Mod Kickers	*9.7%*	*Pass*
Mod Support Rail	*20.8%*	*Pass*
Ovp Pipe	*11.0%*	*Pass*
Mount Pipe	*65.6%*	*Pass*
Face Horizontal	*37.5%*	*Pass*
Corner Plate	*50.1%*	*Pass*
Standoff Tab	*31.6%*	*Pass*
Standoff Brace	*64.1%*	*Pass*
Standoff	*28.2%*	*Pass*
Connection Check	*32.0%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**65.6%**

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


03/30/2021 15:24:05
-72.728986, 42.011693
SUFFIELD W CT


03/30/2021 18:38:22
-72.728986, 42.011693
SUFFIELD W CT

V3.0 Updated on 8-31-2020

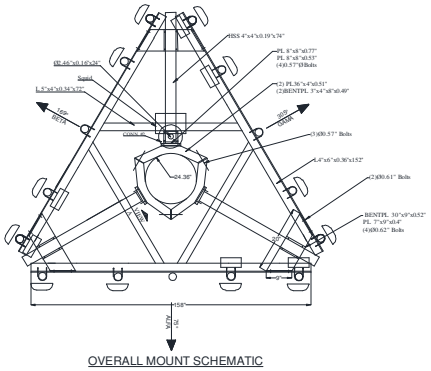
PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
N/A

Tower Owner:	CCI	**Mapping Date:**	03/30/2021
Site Name:	VZW: SUFFIELD W CT	**Tower Type:**	Monopole
Site Number or ID:	PSLC: 467729	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	159.86

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



OVERALL MOUNT SCHEMATIC

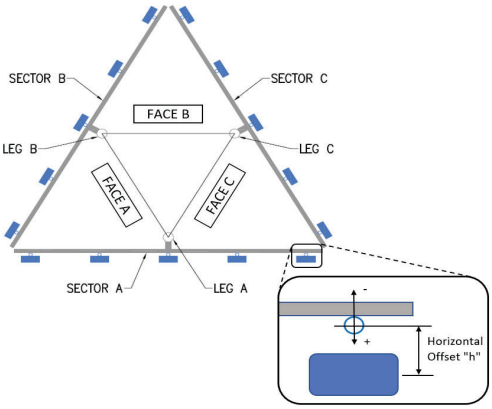
Mount Pipe Configuration and Geometries [Unit = Inches]

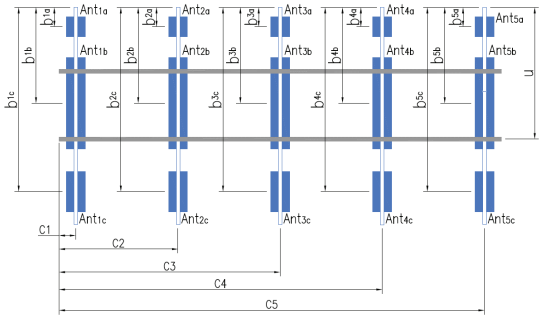
Sector / Position	Mount Pipe Size & Length		Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE Ø 2.38"x0.12"x72"	40.00	3.50	C1	PIPE Ø 2.38"x0.12"x72"	40.00	3.50
A2	PIPE Ø 2.38"x0.14"x84"	58.00	39.50	C2	PIPE Ø 2.38"x0.14"x84"	58.00	39.50
A3	PIPE Ø 2.38"x0.14"x72"	54.00	78.50	C3	PIPE Ø 2.38"x0.14"x72"	54.00	78.50
A4	PIPE Ø 2.38"x0.23"x84"	58.00	117.50	C4	PIPE Ø 2.38"x0.23"x84"	58.00	117.50
A5	PIPE Ø 2.38"x0.12"x72"	40.00	156.00	C5	PIPE Ø 2.38"x0.12"x72"	40.00	156.00
A6				C6			
B1	PIPE Ø 2.38"x0.12"x72"	40.00	3.50	D1			
B2	PIPE Ø 2.38"x0.14"x84"	58.00	39.50	D2			
B3	PIPE Ø 2.38"x0.14"x72"	54.00	78.50	D3			
B4	PIPE Ø 2.38"x0.23"x84"	58.00	117.50	D4			
B5	PIPE Ø 2.38"x0.12"x72"	40.00	156.00	D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	8.02
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	

Please enter additional infomation or comments below.

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	24.36



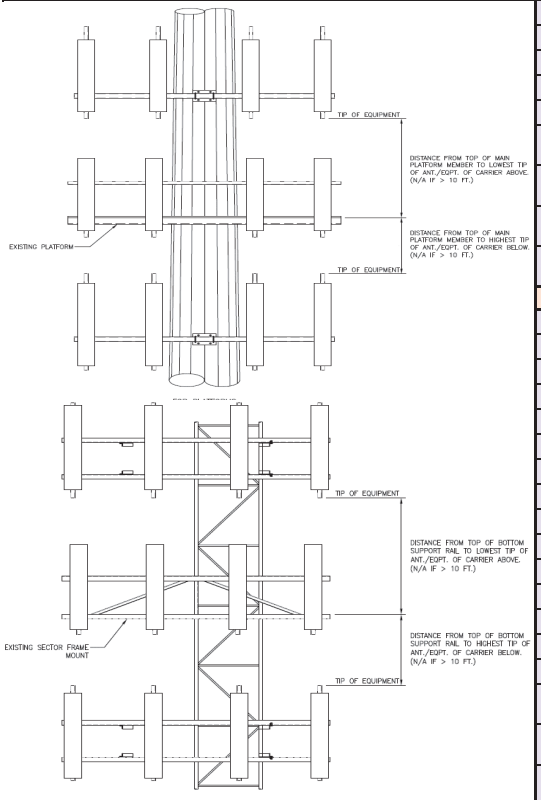


Antenna Layout (Looking Out From Tower)

Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	LPA-80063-6CF-EDIN	15.00	13.10	70.90		160.943	27.00	12.50	75.00	1,9
Ant_{1c}	B13 RRH 4x30	11.80	7.50	20.90		162.027	14.00	7.00		7,8
Ant_{2a}										
Ant_{2b}	SBNHH-1D65B	11.85	7.09	96.58		161.693	36.00	10.00	75.00	10,13
Ant_{2c}	B66a RRH 4x45	11.80	7.18	25.80		162.11	31.00	7.00		11,12
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	SBNHH-1D65B	11.85	7.09	96.58		161.693	36.00	9.00	75.00	4,5
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	LPA-80063-6CF-EDIN	15.00	13.10	70.90		160.902	27.50	13.50	75.00	14,15
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:	35.00	Deg	Leg A:	Deg
Sector B:	145.00	Deg	Leg B:	Deg
Sector C:	277.00	Deg	Leg C:	Deg
Sector D:		Deg	Leg D:	Deg

Climbing Facility Information		
Location:	85.00 Deg	Other
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was obstructed.
	Condition:	Good condition.



Sector B										
Ant_{1a}										
Ant_{1b}	LPA-80063-6CF-EDIN	15.00	13.10	70.90		160.943	27.00	12.50	169.00	1,9
Ant_{1c}	B13 RRH 4x30	11.80	7.50	20.90		162.027	14.00	7.00		7,8
Ant_{2a}										
Ant_{2b}	SBNHH-1D65B	11.85	7.09	96.58		161.693	36.00	10.00	169.00	10,13
Ant_{2c}	B66a RRH 4x45	11.80	7.18	25.80		162.11	31.00	7.00		11,12
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	SBNHH-1D65B	11.85	7.09	96.58		161.693	36.00	9.00	169.00	4,5
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	LPA-80063-6CF-EDIN	15.00	13.10	70.90		160.902	27.50	13.50	169.00	14,15
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	LPA-80063-6CF-EDIN	15.00	13.10	70.90		160.943	27.00	12.50	305.00	1,9
Ant_{1c}	B13 RRH 4x30	11.80	7.50	20.90		162.027	14.00	7.00		7,8
Ant_{2a}										
Ant_{2b}	SBNHH-1D65B	11.85	7.09	96.58		161.693	36.00	10.00	305.00	10,13
Ant_{2c}	B66a RRH 4x45	11.80	7.18	25.80		162.11	31.00	7.00		11,12
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	SBNHH-1D65B	11.85	7.09	96.58		161.693	36.00	9.00	305.00	4,5
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	LPA-80063-6CF-EDIN	15.00	13.10	70.90		160.902	27.50	13.50	305.00	14,15
Ant_{5c}										
Ant on Standoff										
Ant on Standoff	RRFDC-3315-PF-48	15.73	10.30	28.93						257,258
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

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

1		
2		
3		
4		
5		
6		
7		
8		

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

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

PAUL J. FORD & COMPANY

Antenna Mount Mapping Form (PATENT PENDING)

FCC # N/A

Tower Owner:	CCI	**Mapping Date:**	03/30/2021
Site Name:	VZW: SUFFIELD W CT	**Tower Type:**	Monopole
Site Number or ID:	PSLC: 467729	**Tower Height (Ft.):**	N/A
Mapping Contractor:	Roaming Networks Inc.	**Mount Elevation (Ft.):**	159.86

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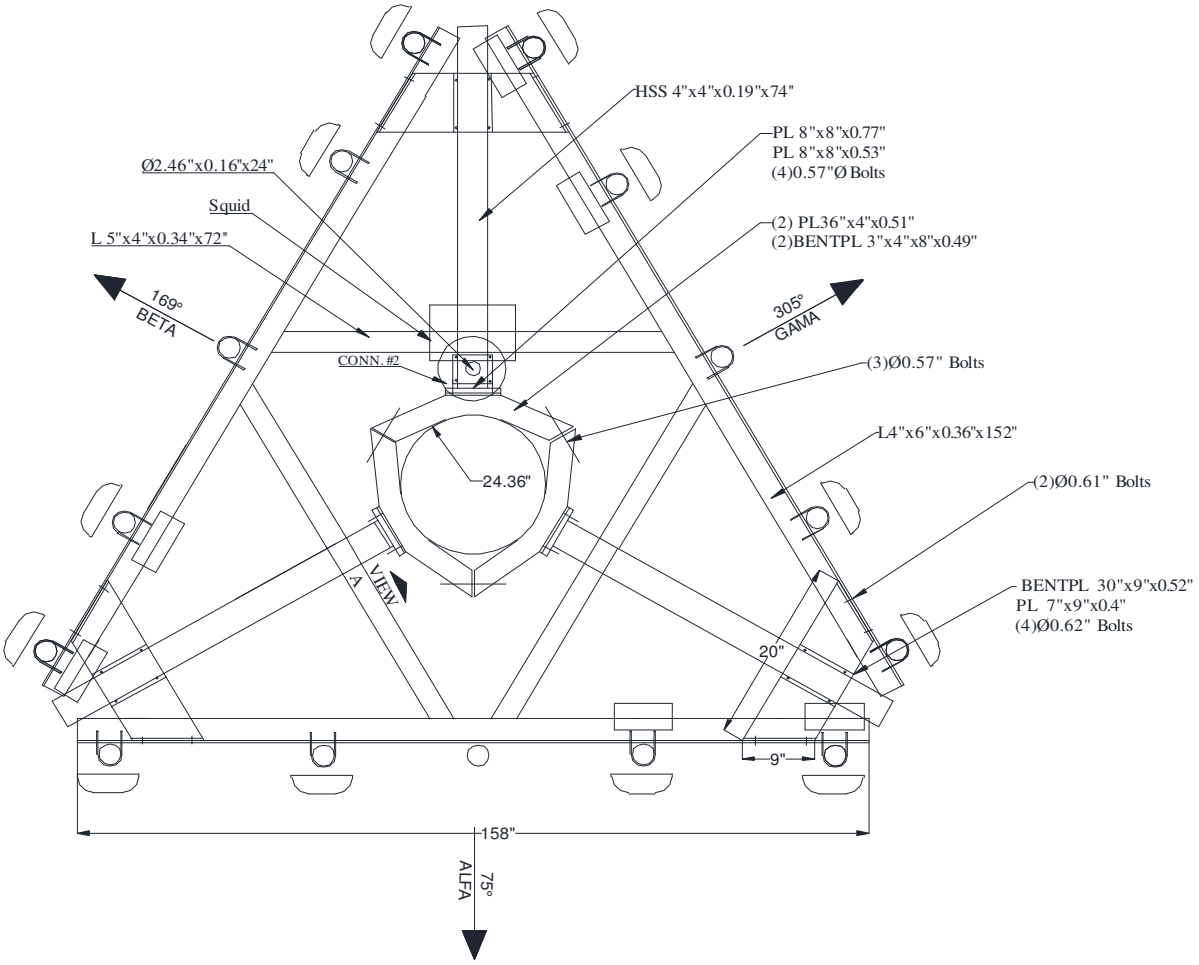
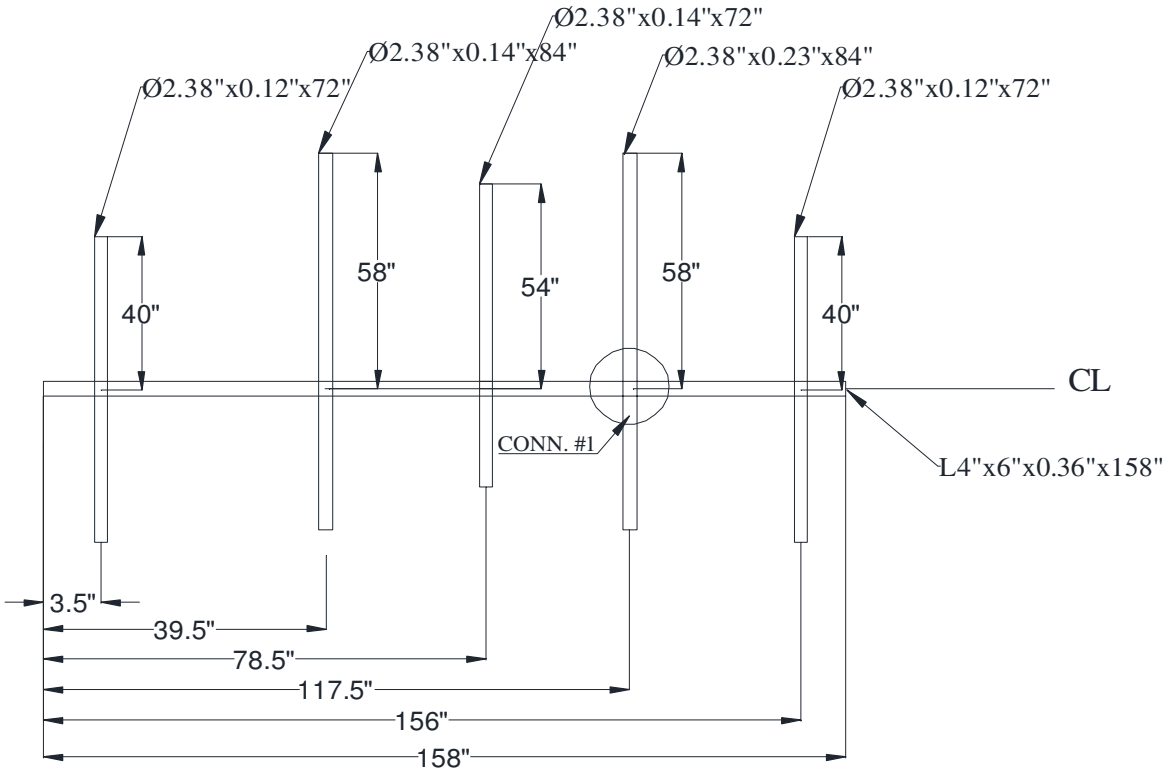
Please Insert Sketches of the Antenna Mount



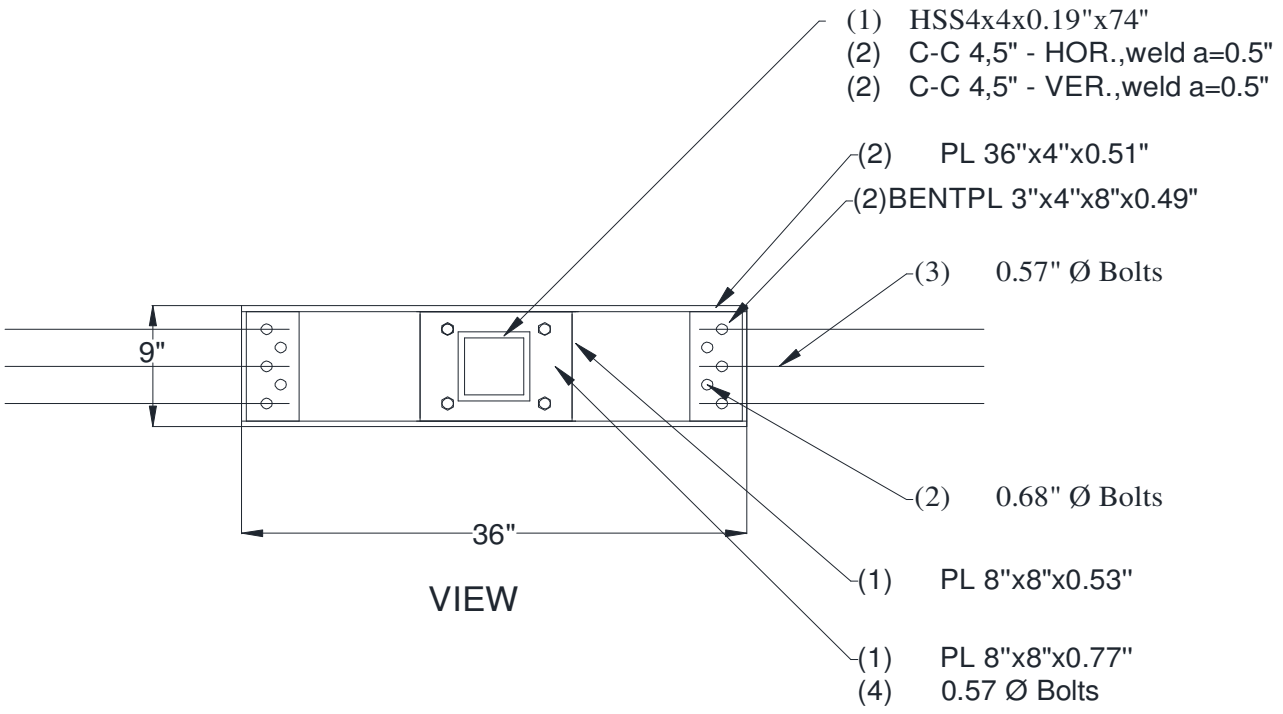
OVERALL MOUNT SCHEMATIC

Please Insert Sketches of the Antenna Mount, cont'd

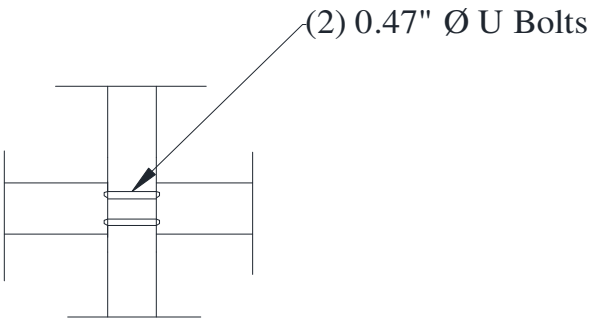


SECTOR A, B, C

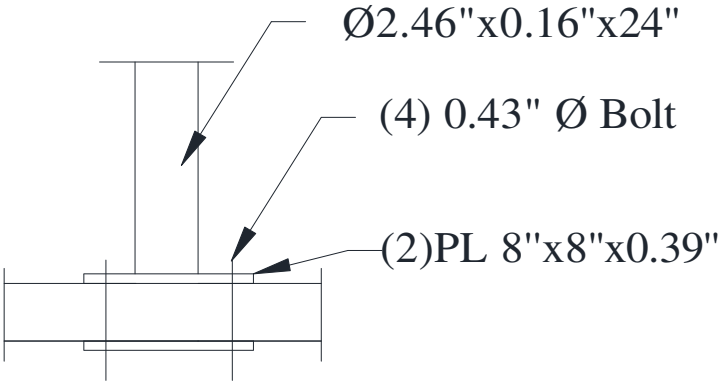
Please Insert Sketches of the Antenna Mount, cont'd



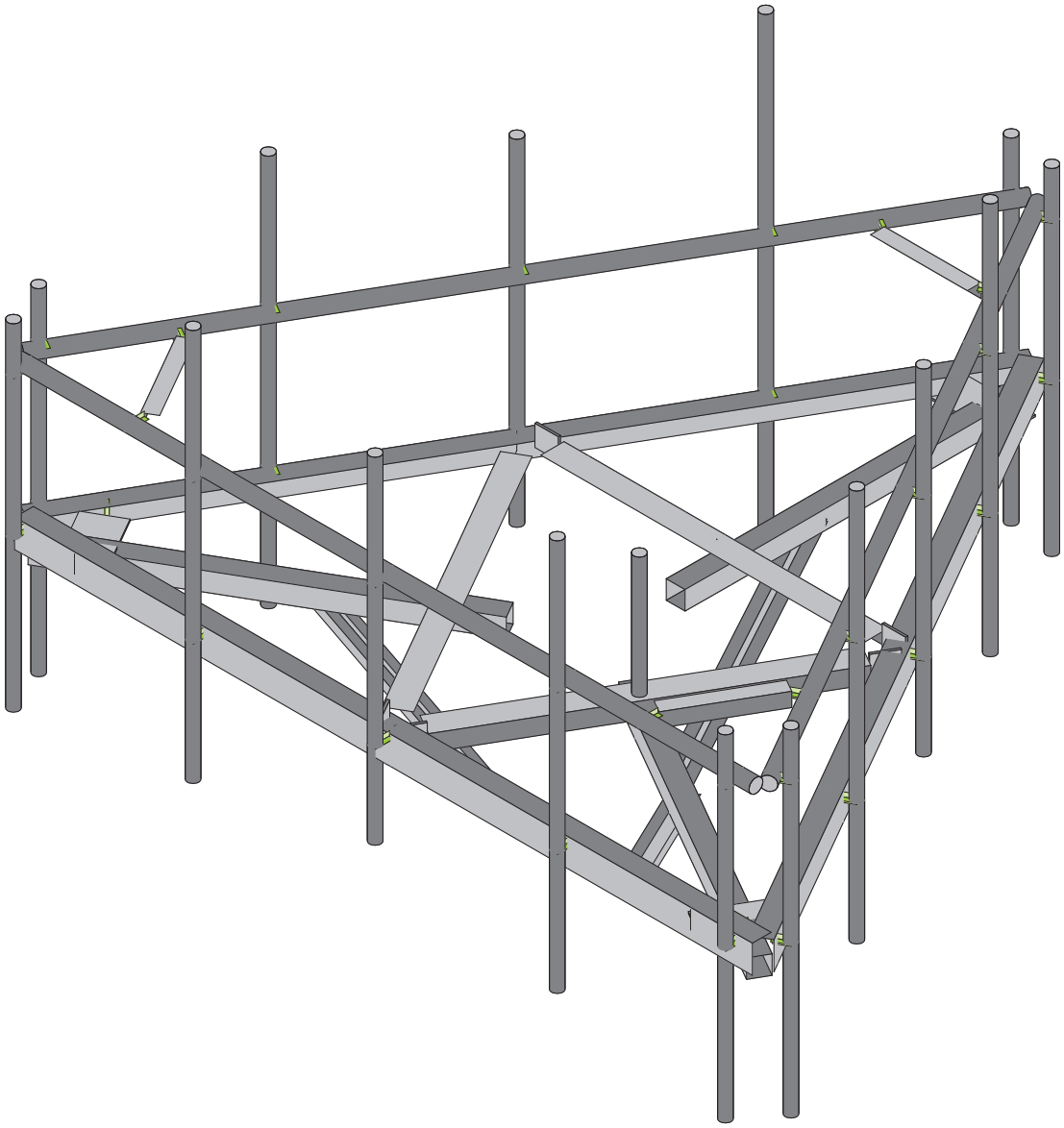
Please Insert Sketches of the Antenna Mount, cont'd



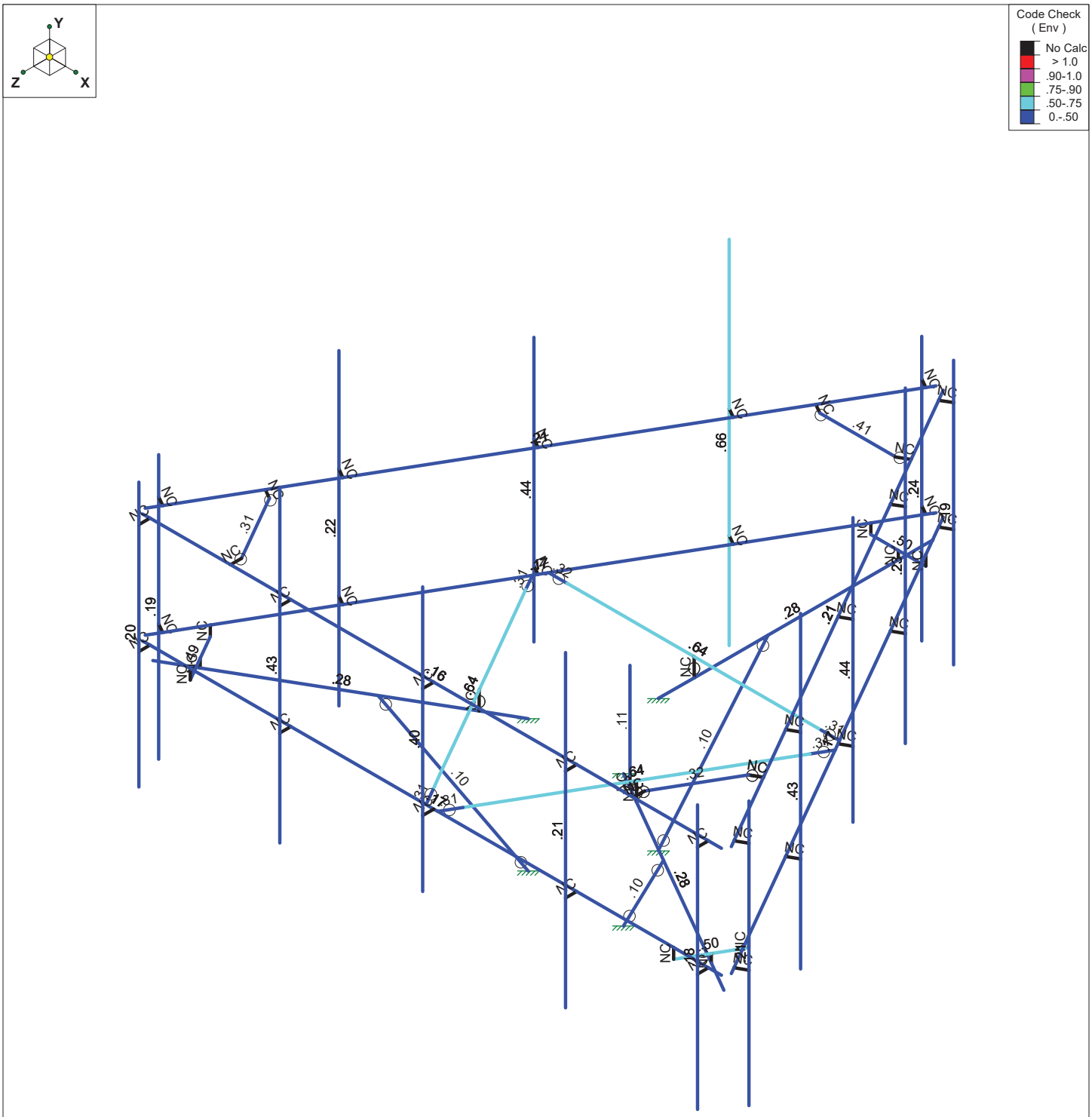
CONN.#1



CONN.#2

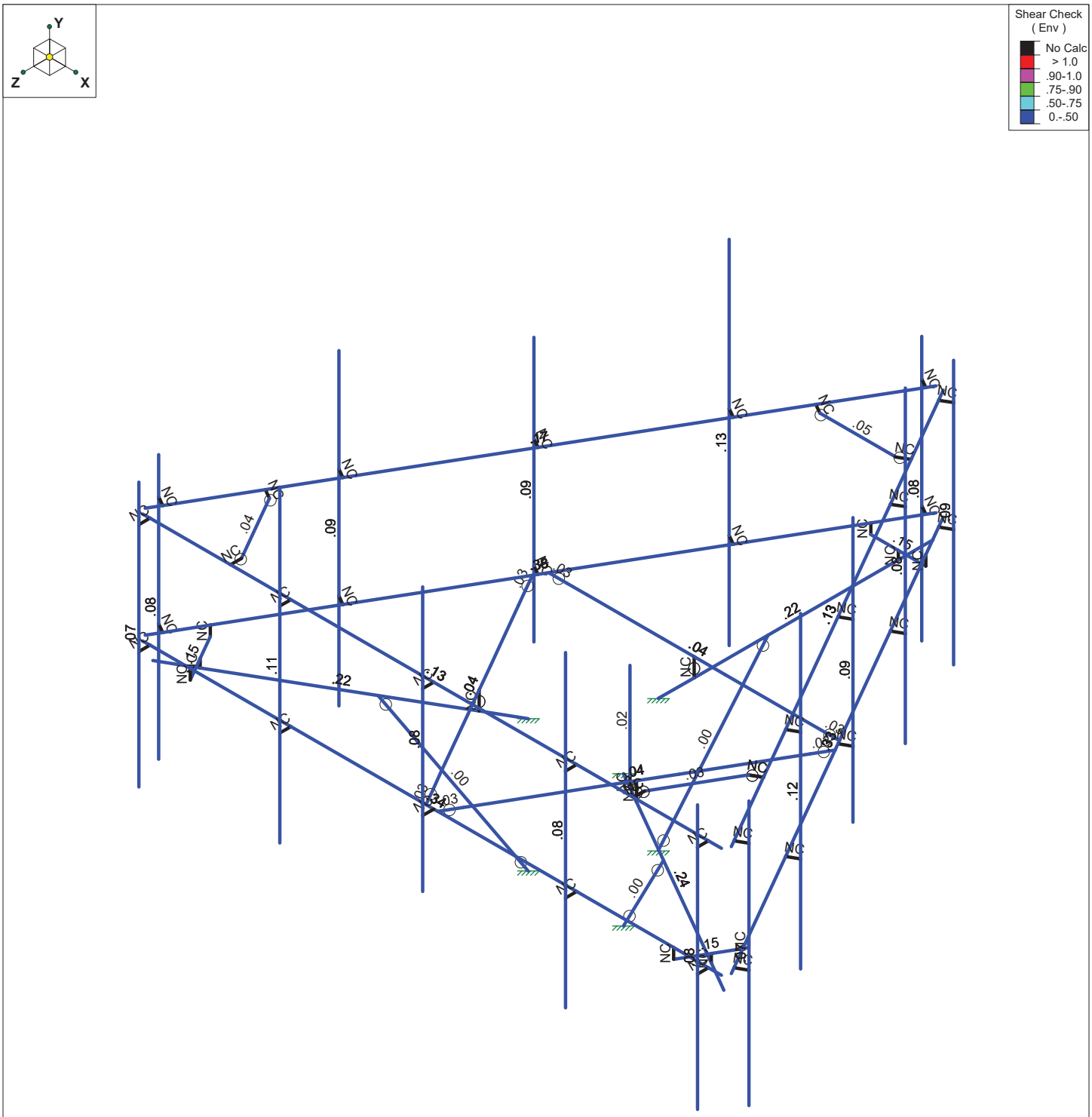


	467729-VZW_MT_LO_H	SK - 4
		Sept 17, 2021 at 1:12 PM
		MOD_Loaded_Base_467729-VZW...



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

	467729-VZW_MT_LO_H	SK - 5
		Sept 17, 2021 at 1:12 PM
		MOD_Loaded_Base_467729-VZW...



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

	467729-VZW_MT_LO_H	SK - 6
		Sept 17, 2021 at 1:12 PM
		MOD_Loaded_Base_467729-VZW...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut..	Area(M...	Surface...
1	Antenna D	None					75			
2	Antenna Di	None					75			
3	Antenna Wo (0 Deg)	None					75			
4	Antenna Wo (30 Deg)	None					75			
5	Antenna Wo (60 Deg)	None					75			
6	Antenna Wo (90 Deg)	None					75			
7	Antenna Wo (120 Deg)	None					75			
8	Antenna Wo (150 Deg)	None					75			
9	Antenna Wo (180 Deg)	None					75			
10	Antenna Wo (210 Deg)	None					75			
11	Antenna Wo (240 Deg)	None					75			
12	Antenna Wo (270 Deg)	None					75			
13	Antenna Wo (300 Deg)	None					75			
14	Antenna Wo (330 Deg)	None					75			
15	Antenna Wi (0 Deg)	None					75			
16	Antenna Wi (30 Deg)	None					75			
17	Antenna Wi (60 Deg)	None					75			
18	Antenna Wi (90 Deg)	None					75			
19	Antenna Wi (120 Deg)	None					75			
20	Antenna Wi (150 Deg)	None					75			
21	Antenna Wi (180 Deg)	None					75			
22	Antenna Wi (210 Deg)	None					75			
23	Antenna Wi (240 Deg)	None					75			
24	Antenna Wi (270 Deg)	None					75			
25	Antenna Wi (300 Deg)	None					75			
26	Antenna Wi (330 Deg)	None					75			
27	Antenna Wm (0 Deg)	None					75			
28	Antenna Wm (30 Deg)	None					75			
29	Antenna Wm (60 Deg)	None					75			
30	Antenna Wm (90 Deg)	None					75			
31	Antenna Wm (120 Deg)	None					75			
32	Antenna Wm (150 Deg)	None					75			
33	Antenna Wm (180 Deg)	None					75			
34	Antenna Wm (210 Deg)	None					75			
35	Antenna Wm (240 Deg)	None					75			
36	Antenna Wm (270 Deg)	None					75			
37	Antenna Wm (300 Deg)	None					75			
38	Antenna Wm (330 Deg)	None					75			
39	Structure D	None		-1					3	
40	Structure Di	None						43	3	
41	Structure Wo (0 Deg)	None						86		
42	Structure Wo (30 Deg)	None						86		
43	Structure Wo (60 Deg)	None						86		
44	Structure Wo (90 Deg)	None						86		
45	Structure Wo (120 Deg)	None						86		
46	Structure Wo (150 Deg)	None						86		
47	Structure Wo (180 Deg)	None						86		
48	Structure Wo (210 Deg)	None						86		
49	Structure Wo (240 Deg)	None						86		
50	Structure Wo (270 Deg)	None						86		
51	Structure Wo (300 Deg)	None						86		
52	Structure Wo (330 Deg)	None						86		
53	Structure Wi (0 Deg)	None						86		
54	Structure Wi (30 Deg)	None						86		
55	Structure Wi (60 Deg)	None						86		
56	Structure Wi (90 Deg)	None						86		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut..	Area(M...	Surface...
57	Structure Wi (120 Deg)	None						86		
58	Structure Wi (150 Deg)	None						86		
59	Structure Wi (180 Deg)	None						86		
60	Structure Wi (210 Deg)	None						86		
61	Structure Wi (240 Deg)	None						86		
62	Structure Wi (270 Deg)	None						86		
63	Structure Wi (300 Deg)	None						86		
64	Structure Wi (330 Deg)	None						86		
65	Structure Wm (0 Deg)	None						86		
66	Structure Wm (30 Deg)	None						86		
67	Structure Wm (60 Deg)	None						86		
68	Structure Wm (90 Deg)	None						86		
69	Structure Wm (120 Deg)	None						86		
70	Structure Wm (150 Deg)	None						86		
71	Structure Wm (180 Deg)	None						86		
72	Structure Wm (210 Deg)	None						86		
73	Structure Wm (240 Deg)	None						86		
74	Structure Wm (270 Deg)	None						86		
75	Structure Wm (300 Deg)	None						86		
76	Structure Wm (330 Deg)	None						86		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Area Loads	None						30		
82	BLC 40 Transient Area Loads	None						30		

Load Combinations

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

Load Combinations (Continued)

	Description	S...	P	Delta	S...	B...	F...	BLC	F...	BLC	F...	B...	F...	B...	F...	B...	F...	B...	F...	B...	F...	B...	F...	B...	F...	B...	F...
27	1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Y...		Y		1	1.2	39	1.2	77	1.5	29	1	67	1												
28	1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Y...		Y		1	1.2	39	1.2	77	1.5	30	1	68	1												
29	1.2D + 1.5Lm1 + 1.0Wm (120 D...	Y...		Y		1	1.2	39	1.2	77	1.5	31	1	69	1												
30	1.2D + 1.5Lm1 + 1.0Wm (150 D...	Y...		Y		1	1.2	39	1.2	77	1.5	32	1	70	1												
31	1.2D + 1.5Lm1 + 1.0Wm (180 D...	Y...		Y		1	1.2	39	1.2	77	1.5	33	1	71	1												
32	1.2D + 1.5Lm1 + 1.0Wm (210 D...	Y...		Y		1	1.2	39	1.2	77	1.5	34	1	72	1												
33	1.2D + 1.5Lm1 + 1.0Wm (240 D...	Y...		Y		1	1.2	39	1.2	77	1.5	35	1	73	1												
34	1.2D + 1.5Lm1 + 1.0Wm (270 D...	Y...		Y		1	1.2	39	1.2	77	1.5	36	1	74	1												
35	1.2D + 1.5Lm1 + 1.0Wm (300 D...	Y...		Y		1	1.2	39	1.2	77	1.5	37	1	75	1												
36	1.2D + 1.5Lm1 + 1.0Wm (330 D...	Y...		Y		1	1.2	39	1.2	77	1.5	38	1	76	1												
37	1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Y...		Y		1	1.2	39	1.2	78	1.5	27	1	65	1												
38	1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Y...		Y		1	1.2	39	1.2	78	1.5	28	1	66	1												
39	1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Y...		Y		1	1.2	39	1.2	78	1.5	29	1	67	1												
40	1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Y...		Y		1	1.2	39	1.2	78	1.5	30	1	68	1												
41	1.2D + 1.5Lm2 + 1.0Wm (120 D...	Y...		Y		1	1.2	39	1.2	78	1.5	31	1	69	1												
42	1.2D + 1.5Lm2 + 1.0Wm (150 D...	Y...		Y		1	1.2	39	1.2	78	1.5	32	1	70	1												
43	1.2D + 1.5Lm2 + 1.0Wm (180 D...	Y...		Y		1	1.2	39	1.2	78	1.5	33	1	71	1												
44	1.2D + 1.5Lm2 + 1.0Wm (210 D...	Y...		Y		1	1.2	39	1.2	78	1.5	34	1	72	1												
45	1.2D + 1.5Lm2 + 1.0Wm (240 D...	Y...		Y		1	1.2	39	1.2	78	1.5	35	1	73	1												
46	1.2D + 1.5Lm2 + 1.0Wm (270 D...	Y...		Y		1	1.2	39	1.2	78	1.5	36	1	74	1												
47	1.2D + 1.5Lm2 + 1.0Wm (300 D...	Y...		Y		1	1.2	39	1.2	78	1.5	37	1	75	1												
48	1.2D + 1.5Lm2 + 1.0Wm (330 D...	Y...		Y		1	1.2	39	1.2	78	1.5	38	1	76	1												
49	1.2D + 1.5Lv1	Y...		Y		1	1.2	39	1.2	79	1.5																
50	1.2D + 1.5Lv2	Y...		Y		1	1.2	39	1.2	80	1.5																
51	1.4D	Y...		Y		1	1.4	39	1.4																		
52	Seismic Mass			Y		1	1	39	1																		
53	1.2D + 1.0Ev + 1.0Eh (0 Deg)			Y		1	1.2	39	1.2	SX		SY	1	SZ	-1												
54	1.2D + 1.0Ev + 1.0Eh (30 Deg)			Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-....												
55	1.2D + 1.0Ev + 1.0Eh (60 Deg)			Y		1	1.2	39	1.2	SX	.8...	SY	1	SZ	-.5												
56	1.2D + 1.0Ev + 1.0Eh (90 Deg)			Y		1	1.2	39	1.2	SX	1	SY	1	SZ													
57	1.2D + 1.0Ev + 1.0Eh (120 Deg)			Y		1	1.2	39	1.2	SX	.8...	SY	1	SZ	.5												
58	1.2D + 1.0Ev + 1.0Eh (150 Deg)			Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.8...												
59	1.2D + 1.0Ev + 1.0Eh (180 Deg)			Y		1	1.2	39	1.2	SX		SY	1	SZ	1												
60	1.2D + 1.0Ev + 1.0Eh (210 Deg)			Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.8...												
61	1.2D + 1.0Ev + 1.0Eh (240 Deg)			Y		1	1.2	39	1.2	SX	-....	SY	1	SZ	.5												
62	1.2D + 1.0Ev + 1.0Eh (270 Deg)			Y		1	1.2	39	1.2	SX	-1	SY	1	SZ													
63	1.2D + 1.0Ev + 1.0Eh (300 Deg)			Y		1	1.2	39	1.2	SX	-....	SY	1	SZ	-.5												
64	1.2D + 1.0Ev + 1.0Eh (330 Deg)			Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-....												

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N141A	6.583334	0	3.897114	0	
2	N142A	-6.583333	0	3.897114	0	
3	N152B	0.	0	-0.	0	
4	N153A	0.	-0.416667	-1.25	0	
5	N154A	0.	-0.416667	-7.5	0	
6	N155	0.135417	0	3.897114	0	
7	N156	-0.135416	0	3.897114	0	
8	N158	3.307292	0	-2.065832	0	
9	N159	3.442708	0	-1.831284	0	
10	N161	-3.442708	0	-1.831282	0	
11	N162	-3.307292	0	-2.065831	0	
12	N161B	-2.890625	0	-2.065831	0	
13	N162A	2.890625	0	-2.065832	0	
14	N163	0.	0	-2.065831	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N164	0.	-0.416667	-2.065831	0	
16	N168	0.625463	0	-6.710895	0	
17	N169	-0.625462	0	-6.710895	0	
18	N168A	0.	-0.229167	-6.710895	0	
19	N169A	0.625463	-0.229167	-6.710895	0	
20	N170	-0.625462	-0.229167	-6.710895	0	
21	N170A	0.	-0.416667	-6.710895	0	
22	N171	-1.082532	-0.416667	0.625	0	
23	N172	-6.495191	-0.416667	3.75	0	
24	N175	-0.34375	0	3.53627	0	
25	N176	-3.234375	0	-1.470439	0	
26	N177	-1.789062	0	1.032916	0	
27	N178	-1.789062	-0.416667	1.032916	0	
28	N179	-6.124537	0	2.813781	0	
29	N180	-5.499075	0	3.897114	0	
30	N181	-5.811806	-0.229167	3.355448	0	
31	N182	-6.124538	-0.229167	2.813781	0	
32	N183	-5.499075	-0.229167	3.897114	0	
33	N184	-5.811806	-0.416667	3.355448	0	
34	N185	1.082532	-0.416667	0.625	0	
35	N186	6.495191	-0.416667	3.75	0	
36	N189	3.234375	0	-1.470439	0	
37	N190	0.34375	0	3.53627	0	
38	N191	1.789062	0	1.032916	0	
39	N192	1.789062	-0.416667	1.032916	0	
40	N193	5.499074	0	3.897114	0	
41	N194	6.124538	0	2.813781	0	
42	N195	5.811806	-0.229167	3.355448	0	
43	N196	5.499074	-0.229167	3.897115	0	
44	N197	6.124537	-0.229167	2.813781	0	
45	N198	5.811806	-0.416667	3.355448	0	
46	N140	-1.434455	0	1.647114	0	
47	N141	-0.568429	0	3.147114	0	
48	N142	1.434455	0	1.647114	0	
49	N143	0.56843	0	3.147114	0	
50	N138	2.14367	0	0.418717	0	
51	N139	3.009695	0	-1.081283	0	
52	N140A	0.709215	0	-2.065831	0	
53	N141B	2.441266	0	-2.065832	0	
54	N142B	-0.709215	0	-2.065831	0	
55	N143A	-2.441266	0	-2.065831	0	
56	N144	-2.14367	0	0.418717	0	
57	N145	-3.009696	0	-1.081283	0	
58	N142C	0.083333	0	-7.649891	0	
59	N143B	6.666666	0	3.752777	0	
60	N145A	-6.666667	0	3.752777	0	
61	N146	-0.083333	0	-7.649891	0	
62	N62	6.291667	0	3.897114	0	
63	N63	3.291667	0	3.897114	0	
64	N64	0.041667	0	3.897114	0	
65	N65	-3.208333	0	3.897114	0	
66	N66	-6.416666	0	3.897114	0	
67	N67	6.291667	0	4.147114	0	
68	N68	3.291667	0	4.147114	0	
69	N69	0.041667	0	4.147114	0	
70	N70	-3.208333	0	4.147114	0	
71	N71	-6.416666	0	4.147114	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N72	6.291667	3.333333	4.147114	0	
73	N73	-6.416666	3.333333	4.147114	0	
74	N74	6.291667	-2.666667	4.147114	0	
75	N75	-6.416666	-2.666667	4.147114	0	
76	N76	3.291667	4.833333	4.147114	0	
77	N77	-3.208333	4.833333	4.147114	0	
78	N78	3.291667	-2.166667	4.147114	0	
79	N79	-3.208333	-2.166667	4.147114	0	
80	N80	0.041667	4.5	4.147114	0	
81	N81	0.041667	-1.5	4.147114	0	
82	N83	0.229167	0	-7.3973	0	
83	N84	1.729167	0	-4.799224	0	
84	N85	3.354167	0	-1.984642	0	
85	N86	4.979167	0	0.829941	0	
86	N87	6.583334	0	3.608439	0	
87	N88	0.445673	0	-7.5223	0	
88	N89	1.945673	0	-4.924224	0	
89	N90	3.570673	0	-2.109642	0	
90	N91	5.195673	0	0.704941	0	
91	N92	6.79984	0	3.483439	0	
92	N93	0.445673	3.333333	-7.5223	0	
93	N94	6.79984	3.333333	3.483439	0	
94	N95	0.445673	-2.666667	-7.5223	0	
95	N96	6.79984	-2.666667	3.483439	0	
96	N97	1.945673	4.833333	-4.924224	0	
97	N98	5.195673	4.833333	0.704941	0	
98	N99	1.945673	-2.166667	-4.924224	0	
99	N100	5.195673	-2.166667	0.704941	0	
100	N101	3.570673	4.5	-2.109642	0	
101	N102	3.570673	-1.5	-2.109642	0	
102	N104	-6.520833	0	3.500186	0	
103	N105	-5.020833	0	0.90211	0	
104	N106	-3.395833	0	-1.912473	0	
105	N107	-1.770833	0	-4.727055	0	
106	N108	-0.166666	0	-7.505554	0	
107	N109	-6.737339	0	3.375186	0	
108	N110	-5.237339	0	0.77711	0	
109	N111	-3.612339	0	-2.037473	0	
110	N112	-1.987339	0	-4.852055	0	
111	N113	-0.383173	0	-7.630554	0	
112	N114	-6.737339	3.333333	3.375186	0	
113	N115	-0.383173	3.333333	-7.630554	0	
114	N116	-6.737339	-2.666667	3.375186	0	
115	N117	-0.383173	-2.666667	-7.630554	0	
116	N118	-5.237339	4.833333	0.77711	0	
117	N119	-1.987339	5.833333	-4.852055	0	
118	N120	-5.237339	-2.166667	0.77711	0	
119	N121	-1.987339	-2.166667	-4.852055	0	
120	N122	-3.612339	4.5	-2.037473	0	
121	N123	-3.612339	-1.5	-2.037473	0	
122	N126	1.443376	-0.416667	0.833333	0	
123	N123A	1.443376	-0.166667	0.833333	0	
124	N124	1.443376	2	0.833333	0	
125	N125	6.583334	2.5	3.897114	0	
126	N126A	-6.583333	2.5	3.897114	0	
127	N127	0.	2.5	-0.	0	
128	N134	0.083333	2.5	-7.649891	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N135	6.666666	2.5	3.752777	0	
130	N136	-6.666667	2.5	3.752777	0	
131	N137	-0.083333	2.5	-7.649891	0	
132	N138A	6.291667	2.5	3.897114	0	
133	N139A	3.291667	2.5	3.897114	0	
134	N140B	0.041667	2.5	3.897114	0	
135	N141C	-3.208333	2.5	3.897114	0	
136	N142D	-6.416666	2.5	3.897114	0	
137	N143C	6.291667	2.5	4.147114	0	
138	N144A	3.291667	2.5	4.147114	0	
139	N145B	0.041667	2.5	4.147114	0	
140	N146A	-3.208333	2.5	4.147114	0	
141	N147	-6.416666	2.5	4.147114	0	
142	N148	0.229167	2.5	-7.3973	0	
143	N149	1.729167	2.5	-4.799224	0	
144	N150	3.354167	2.5	-1.984642	0	
145	N151	4.979167	2.5	0.829941	0	
146	N152	6.583334	2.5	3.608439	0	
147	N153	0.445673	2.5	-7.5223	0	
148	N154	1.945673	2.5	-4.924224	0	
149	N155A	3.570673	2.5	-2.109642	0	
150	N156A	5.195673	2.5	0.704941	0	
151	N157	6.79984	2.5	3.483439	0	
152	N158A	-6.520833	2.5	3.500186	0	
153	N159A	-5.020833	2.5	0.90211	0	
154	N160	-3.395833	2.5	-1.912473	0	
155	N161A	-1.770833	2.5	-4.727055	0	
156	N162B	-0.166666	2.5	-7.505554	0	
157	N163A	-6.737339	2.5	3.375186	0	
158	N164A	-5.237339	2.5	0.77711	0	
159	N165	-3.612339	2.5	-2.037473	0	
160	N166	-1.987339	2.5	-4.852055	0	
161	N167	-0.383173	2.5	-7.630554	0	
162	N162C	-4.583333	2.5	3.897114	0	
163	N163B	4.583334	2.5	3.897114	0	
164	N164B	-4.583333	2.5	3.647114	0	
165	N165A	4.583334	2.5	3.647114	0	
166	N174A	0.	-0.416667	-3.75	0	
167	N175B	0.	-3.416667	-1.25	0	
168	N177A	-3.247595	-0.416667	1.875	0	
169	N178A	-1.082531	-3.416667	0.625	0	
170	N180A	3.247596	-0.416667	1.875	0	
171	N181A	1.082532	-3.416667	0.625	0	
172	N180B	5.666666	2.5	2.020726	0	
173	N182A	5.45016	2.5	2.145726	0	
174	N185A	-5.666667	2.5	2.020726	0	
175	N187	-5.45016	2.5	2.145726	0	
176	N180C	-1.083333	2.5	-5.91784	0	
177	N181B	-0.866827	2.5	-5.79284	0	
178	N182B	1.083333	2.5	-5.91784	0	
179	N183A	0.866827	2.5	-5.79284	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [i...	Izz [i...	J [in4]
1	TES Plate	PL1/2X10	Beam	Pipe	A53 Gr.B	Typical	5	.104	41.667	.404
2	Mount Pipe	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Pipe Vertical	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Support Rail	L3X3X4	Beam	RECT	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Support Rail Plate	PL1/2x6	Beam	RECT	A36 Gr.36	Typical	3	.063	9	.237
6	Standoff Tab	PL1/2X4.5	Beam	RECT	A36 Gr.36	Typical	2.25	.047	3.797	.174
7	Corner Plate	PL3/8X8	Beam	RECT	A36 Gr.36	Typical	3	.035	16	.136
8	Standoff	HSS4X4X3	Beam	Tube	A500 Gr.B ...	Typical	2.58	6.21	6.21	10
9	Standoff Brace	L5X3.5X6	Beam	Single Angle	A36 Gr.36	Typical	3.05	3.15	7.75	.15
10	Face Horizontal	L6X4X6	Beam	Single Angle	A36 Gr.36	Typical	3.61	4.86	13.4	.177
11	OVP Pipe	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
12	TES STANDOFF ...	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
13	MOD Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
14	MOD Bracing	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
15	MOD Kickers	LL3x3x3x0	Beam	Double Angle (No Gap)	A36 Gr.36	Typical	2.18	3.35	1.9	.027
16	TES KICKERS	L3X3X4	Beam	Double Angle (No Gap)	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M73	N142A	N141A		180	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
2	M76	N153A	N154A			Standoff	Beam	Tube	A500 Gr.B...	Typical
3	M77	N161B	N162A		90	Standoff Brace	Beam	Single Angle	A36 Gr.36	Typical
4	M78	N162	N161B			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
5	M79	N162A	N158			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
6	M80	N164	N163			RIGID	None	None	RIGID	Typical
7	M81	N170	N169			RIGID	None	None	RIGID	Typical
8	M82	N169A	N168			RIGID	None	None	RIGID	Typical
9	M83	N170A	N168A			RIGID	None	None	RIGID	Typical
10	M84	N170	N169A		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
11	M85	N171	N172			Standoff	Beam	Tube	A500 Gr.B...	Typical
12	M86	N175	N176		90	Standoff Brace	Beam	Single Angle	A36 Gr.36	Typical
13	M87	N156	N175			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
14	M88	N176	N161			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
15	M89	N178	N177			RIGID	None	None	RIGID	Typical
16	M90	N183	N180			RIGID	None	None	RIGID	Typical
17	M91	N182	N179			RIGID	None	None	RIGID	Typical
18	M92	N184	N181			RIGID	None	None	RIGID	Typical
19	M93	N183	N182		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
20	M94	N185	N186			Standoff	Beam	Tube	A500 Gr.B...	Typical
21	M95	N189	N190		90	Standoff Brace	Beam	Single Angle	A36 Gr.36	Typical
22	M96	N159	N189			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
23	M97	N190	N155			Standoff Tab	Beam	RECT	A36 Gr.36	Typical
24	M98	N192	N191			RIGID	None	None	RIGID	Typical
25	M99	N197	N194			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
26	M100	N196	N193			RIGID	None	None	RIGID	Typical
27	M101	N198	N195			RIGID	None	None	RIGID	Typical
28	M102	N197	N196		90	Corner Plate	Beam	RECT	A36 Gr.36	Typical
29	M71	N143B	N142C		180	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
30	M72	N146	N145A		180	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
31	M31	N66	N71			RIGID	None	None	RIGID	Typical
32	M32	N65	N70			RIGID	None	None	RIGID	Typical
33	M33	N64	N69			RIGID	None	None	RIGID	Typical
34	M34	N63	N68			RIGID	None	None	RIGID	Typical
35	M35	N62	N67			RIGID	None	None	RIGID	Typical
36	MP5A	N73	N75			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
37	MP1A	N72	N74			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
38	MP4A	N77	N79			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
39	MP2A	N76	N78			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
40	MP3A	N80	N81			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
41	M41	N87	N92			RIGID	None	None	RIGID	Typical
42	M42	N86	N91			RIGID	None	None	RIGID	Typical
43	M43	N85	N90			RIGID	None	None	RIGID	Typical
44	M44	N84	N89			RIGID	None	None	RIGID	Typical
45	M45	N83	N88			RIGID	None	None	RIGID	Typical
46	MP5C	N94	N96			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
47	MP1C	N93	N95			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
48	MP4C	N98	N100			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
49	MP2C	N97	N99			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
50	MP3C	N101	N102			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
51	M51	N108	N113			RIGID	None	None	RIGID	Typical
52	M52	N107	N112			RIGID	None	None	RIGID	Typical
53	M53	N106	N111			RIGID	None	None	RIGID	Typical
54	M54	N105	N110			RIGID	None	None	RIGID	Typical
55	M55	N104	N109			RIGID	None	None	RIGID	Typical
56	MP5B	N115	N117			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
57	MP1B	N114	N116			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
58	MP4B	N119	N121			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
59	MP2B	N118	N120			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
60	MP3B	N122	N123			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
61	M61	N123A	N126			RIGID	None	None	RIGID	Typical
62	M62	N124	N123A			OVP Pipe	Beam	Pipe	A53 Gr.B	Typical
63	M63	N126A	N125		180	MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
64	M65	N135	N134		180	MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
65	M66	N137	N136		180	MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
66	M67	N142D	N147			RIGID	None	None	RIGID	Typical
67	M68	N141C	N146A			RIGID	None	None	RIGID	Typical
68	M69	N140B	N145B			RIGID	None	None	RIGID	Typical
69	M70	N139A	N144A			RIGID	None	None	RIGID	Typical
70	M71A	N138A	N143C			RIGID	None	None	RIGID	Typical
71	M72A	N152	N157			RIGID	None	None	RIGID	Typical
72	M73A	N151	N156A			RIGID	None	None	RIGID	Typical
73	M74	N150	N155A			RIGID	None	None	RIGID	Typical
74	M75	N149	N154			RIGID	None	None	RIGID	Typical
75	M76A	N148	N153			RIGID	None	None	RIGID	Typical
76	M77A	N162B	N167			RIGID	None	None	RIGID	Typical
77	M78A	N161A	N166			RIGID	None	None	RIGID	Typical
78	M79A	N160	N165			RIGID	None	None	RIGID	Typical
79	M80A	N159A	N164A			RIGID	None	None	RIGID	Typical
80	M81A	N158A	N163A			RIGID	None	None	RIGID	Typical
81	M81B	N162C	N164B			RIGID	None	None	RIGID	Typical
82	M82A	N163B	N165A			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
83	M87A	N164B	N187		90	MOD Bracing	Beam	Single Angle	A36 Gr.36	Typical
84	M90A	N175B	N174A			MOD Kickers	Beam	Double Angle (...	A36 Gr.36	Typical
85	M91A	N178A	N177A			MOD Kickers	Beam	Double Angle (...	A36 Gr.36	Typical
86	M92A	N181A	N180A			MOD Kickers	Beam	Double Angle (...	A36 Gr.36	Typical
87	M93A	N180B	N182A			RIGID	None	None	RIGID	Typical
88	M96A	N185A	N187			RIGID	None	None	RIGID	Typical
89	M89A	N180B	N182A			RIGID	None	None	RIGID	Typical
90	M90B	N182A	N165A		90	MOD Bracing	Beam	Single Angle	A36 Gr.36	Typical
91	M91B	N163B	N165A			RIGID	None	None	RIGID	Typical
92	M92B	N180C	N181B			RIGID	None	None	RIGID	Typical
93	M93B	N181B	N183A		90	MOD Bracing	Beam	Single Angle	A36 Gr.36	Typical
94	M94A	N182B	N183A			RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp b...	L-tor...	Kyy	Kzz	Cb	Function
1	M73	Face Horizontal	13.167			Lbyy						Lateral
2	M76	Standoff	6.25			Lbyy						Lateral
3	M77	Standoff Brace	5.781			Lbyy						Lateral
4	M78	Standoff Tab	.417			Lbyy						Lateral
5	M79	Standoff Tab	.417			Lbyy						Lateral
6	M84	Corner Plate	1.251			Lbyy						Lateral
7	M85	Standoff	6.25			Lbyy						Lateral
8	M86	Standoff Brace	5.781			Lbyy						Lateral
9	M87	Standoff Tab	.417			Lbyy						Lateral
10	M88	Standoff Tab	.417			Lbyy						Lateral
11	M93	Corner Plate	1.251			Lbyy						Lateral
12	M94	Standoff	6.25			Lbyy						Lateral
13	M95	Standoff Brace	5.781			Lbyy						Lateral
14	M96	Standoff Tab	.417			Lbyy						Lateral
15	M97	Standoff Tab	.417			Lbyy						Lateral
16	M102	Corner Plate	1.251			Lbyy						Lateral
17	M71	Face Horizontal	13.167			Lbyy						Lateral
18	M72	Face Horizontal	13.167			Lbyy						Lateral
19	MP5A	Mount Pipe	6			Lbyy						Lateral
20	MP1A	Mount Pipe	6			Lbyy						Lateral
21	MP4A	Mount Pipe	7			Lbyy						Lateral
22	MP2A	Mount Pipe	7			Lbyy						Lateral
23	MP3A	Mount Pipe	6			Lbyy						Lateral
24	MP5C	Mount Pipe	6			Lbyy						Lateral
25	MP1C	Mount Pipe	6			Lbyy						Lateral
26	MP4C	Mount Pipe	7			Lbyy						Lateral
27	MP2C	Mount Pipe	7			Lbyy						Lateral
28	MP3C	Mount Pipe	6			Lbyy						Lateral
29	MP5B	Mount Pipe	6			Lbyy						Lateral
30	MP1B	Mount Pipe	6			Lbyy						Lateral
31	MP4B	Mount Pipe	8			Lbyy						Lateral
32	MP2B	Mount Pipe	7			Lbyy						Lateral
33	MP3B	Mount Pipe	6			Lbyy						Lateral
34	M62	OVP Pipe	2.167			Lbyy						Lateral
35	M63	MOD Support Rail	13.167			Lbyy						Lateral
36	M65	MOD Support Rail	13.167			Lbyy						Lateral
37	M66	MOD Support Rail	13.167			Lbyy						Lateral
38	M87A	MOD Bracing	1.734			Lbyy						Lateral
39	M90A	MOD Kickers	3.905			Lbyy						Lateral
40	M91A	MOD Kickers	3.905			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp b...	L-tor...	Kyy	Kzz	Cb	Function
41	M92A	MOD Kickers	3.905			Lbyy						Lateral
42	M90B	MOD Bracing	1.734			Lbyy						Lateral
43	M93B	MOD Bracing	1.734			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-20	.5
2	MP4A	My	.01	.5
3	MP4A	Mz	-.011	.5
4	MP4A	Y	-20	5.5
5	MP4A	My	.01	5.5
6	MP4A	Mz	-.011	5.5
7	MP4B	Y	-20	.5
8	MP4B	My	.004	.5
9	MP4B	Mz	.014	.5
10	MP4B	Y	-20	5.5
11	MP4B	My	.004	5.5
12	MP4B	Mz	.014	5.5
13	MP4C	Y	-20	.5
14	MP4C	My	-.014	.5
15	MP4C	Mz	-.003	.5
16	MP4C	Y	-20	5.5
17	MP4C	My	-.014	5.5
18	MP4C	Mz	-.003	5.5
19	MP4A	Y	-20	.5
20	MP4A	My	.01	.5
21	MP4A	Mz	.011	.5
22	MP4A	Y	-20	5.5
23	MP4A	My	.01	5.5
24	MP4A	Mz	.011	5.5
25	MP4B	Y	-20	.5
26	MP4B	My	-.014	.5
27	MP4B	Mz	.003	.5
28	MP4B	Y	-20	5.5
29	MP4B	My	-.014	5.5
30	MP4B	Mz	.003	5.5
31	MP4C	Y	-20	.5
32	MP4C	My	.004	.5
33	MP4C	Mz	-.014	.5
34	MP4C	Y	-20	5.5
35	MP4C	My	.004	5.5
36	MP4C	Mz	-.014	5.5
37	MP1A	Y	-43.55	2
38	MP1A	My	-.022	2
39	MP1A	Mz	0	2
40	MP1A	Y	-43.55	4
41	MP1A	My	-.022	4
42	MP1A	Mz	0	4
43	MP1B	Y	-43.55	2
44	MP1B	My	.011	2
45	MP1B	Mz	-.019	2
46	MP1B	Y	-43.55	4
47	MP1B	My	.011	4
48	MP1B	Mz	-.019	4
49	MP1C	Y	-43.55	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP1C	My	.011	2
51	MP1C	Mz	.019	2
52	MP1C	Y	-43.55	4
53	MP1C	My	.011	4
54	MP1C	Mz	.019	4
55	M62	Y	-32	1
56	M62	My	0	1
57	M62	Mz	0	1
58	MP4A	Y	-70.3	1
59	MP4A	My	.035	1
60	MP4A	Mz	0	1
61	MP4B	Y	-70.3	1
62	MP4B	My	-.018	1
63	MP4B	Mz	.03	1
64	MP4C	Y	-70.3	1
65	MP4C	My	-.018	1
66	MP4C	Mz	-.03	1
67	MP3A	Y	-74.7	1
68	MP3A	My	.037	1
69	MP3A	Mz	0	1
70	MP3B	Y	-74.7	1
71	MP3B	My	-.019	1
72	MP3B	Mz	.032	1
73	MP3C	Y	-74.7	1
74	MP3C	My	-.019	1
75	MP3C	Mz	-.032	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-97.943	.5
2	MP4A	My	.049	.5
3	MP4A	Mz	-.053	.5
4	MP4A	Y	-97.943	5.5
5	MP4A	My	.049	5.5
6	MP4A	Mz	-.053	5.5
7	MP4B	Y	-97.943	.5
8	MP4B	My	.021	.5
9	MP4B	Mz	.069	.5
10	MP4B	Y	-97.943	5.5
11	MP4B	My	.021	5.5
12	MP4B	Mz	.069	5.5
13	MP4C	Y	-97.943	.5
14	MP4C	My	-.07	.5
15	MP4C	Mz	-.016	.5
16	MP4C	Y	-97.943	5.5
17	MP4C	My	-.07	5.5
18	MP4C	Mz	-.016	5.5
19	MP4A	Y	-97.943	.5
20	MP4A	My	.049	.5
21	MP4A	Mz	.053	.5
22	MP4A	Y	-97.943	5.5
23	MP4A	My	.049	5.5
24	MP4A	Mz	.053	5.5
25	MP4B	Y	-97.943	.5
26	MP4B	My	-.07	.5
27	MP4B	Mz	.016	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP4B	Y	-97.943	5.5
29	MP4B	My	-.07	5.5
30	MP4B	Mz	.016	5.5
31	MP4C	Y	-97.943	.5
32	MP4C	My	.021	.5
33	MP4C	Mz	-.069	.5
34	MP4C	Y	-97.943	5.5
35	MP4C	My	.021	5.5
36	MP4C	Mz	-.069	5.5
37	MP1A	Y	-57.387	2
38	MP1A	My	-.029	2
39	MP1A	Mz	0	2
40	MP1A	Y	-57.387	4
41	MP1A	My	-.029	4
42	MP1A	Mz	0	4
43	MP1B	Y	-57.387	2
44	MP1B	My	.014	2
45	MP1B	Mz	-.025	2
46	MP1B	Y	-57.387	4
47	MP1B	My	.014	4
48	MP1B	Mz	-.025	4
49	MP1C	Y	-57.387	2
50	MP1C	My	.014	2
51	MP1C	Mz	.025	2
52	MP1C	Y	-57.387	4
53	MP1C	My	.014	4
54	MP1C	Mz	.025	4
55	M62	Y	-140.344	1
56	M62	My	0	1
57	M62	Mz	0	1
58	MP4A	Y	-69.609	1
59	MP4A	My	.035	1
60	MP4A	Mz	0	1
61	MP4B	Y	-69.609	1
62	MP4B	My	-.017	1
63	MP4B	Mz	.03	1
64	MP4C	Y	-69.609	1
65	MP4C	My	-.017	1
66	MP4C	Mz	-.03	1
67	MP3A	Y	-72.961	1
68	MP3A	My	.036	1
69	MP3A	Mz	0	1
70	MP3B	Y	-72.961	1
71	MP3B	My	-.018	1
72	MP3B	Mz	.032	1
73	MP3C	Y	-72.961	1
74	MP3C	My	-.018	1
75	MP3C	Mz	-.032	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.5
2	MP4A	Z	-162.391	.5
3	MP4A	Mx	.088	.5
4	MP4A	X	0	5.5
5	MP4A	Z	-162.391	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP4A	Mx	.088	5.5
7	MP4B	X	0	.5
8	MP4B	Z	-121.14	.5
9	MP4B	Mx	-.085	.5
10	MP4B	X	0	5.5
11	MP4B	Z	-121.14	5.5
12	MP4B	Mx	-.085	5.5
13	MP4C	X	0	.5
14	MP4C	Z	-121.14	.5
15	MP4C	Mx	.02	.5
16	MP4C	X	0	5.5
17	MP4C	Z	-121.14	5.5
18	MP4C	Mx	.02	5.5
19	MP4A	X	0	.5
20	MP4A	Z	-162.391	.5
21	MP4A	Mx	-.088	.5
22	MP4A	X	0	5.5
23	MP4A	Z	-162.391	5.5
24	MP4A	Mx	-.088	5.5
25	MP4B	X	0	.5
26	MP4B	Z	-121.14	.5
27	MP4B	Mx	-.02	.5
28	MP4B	X	0	5.5
29	MP4B	Z	-121.14	5.5
30	MP4B	Mx	-.02	5.5
31	MP4C	X	0	.5
32	MP4C	Z	-121.14	.5
33	MP4C	Mx	.085	.5
34	MP4C	X	0	5.5
35	MP4C	Z	-121.14	5.5
36	MP4C	Mx	.085	5.5
37	MP1A	X	0	2
38	MP1A	Z	-93.534	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	-93.534	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	-50.847	2
45	MP1B	Mx	.022	2
46	MP1B	X	0	4
47	MP1B	Z	-50.847	4
48	MP1B	Mx	.022	4
49	MP1C	X	0	2
50	MP1C	Z	-50.847	2
51	MP1C	Mx	-.022	2
52	MP1C	X	0	4
53	MP1C	Z	-50.847	4
54	MP1C	Mx	-.022	4
55	M62	X	0	1
56	M62	Z	-132.863	1
57	M62	Mx	0	1
58	MP4A	X	0	1
59	MP4A	Z	-74.429	1
60	MP4A	Mx	0	1
61	MP4B	X	0	1
62	MP4B	Z	-52.563	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP4B	Mx	-.023	1
64	MP4C	X	0	1
65	MP4C	Z	-52.563	1
66	MP4C	Mx	.023	1
67	MP3A	X	0	1
68	MP3A	Z	-74.429	1
69	MP3A	Mx	0	1
70	MP3B	X	0	1
71	MP3B	Z	-55.921	1
72	MP3B	Mx	-.024	1
73	MP3C	X	0	1
74	MP3C	Z	-55.921	1
75	MP3C	Mx	.024	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	74.32	.5
2	MP4A	Z	-128.727	.5
3	MP4A	Mx	.107	.5
4	MP4A	X	74.32	5.5
5	MP4A	Z	-128.727	5.5
6	MP4A	Mx	.107	5.5
7	MP4B	X	53.695	.5
8	MP4B	Z	-93.003	.5
9	MP4B	Mx	-.054	.5
10	MP4B	X	53.695	5.5
11	MP4B	Z	-93.003	5.5
12	MP4B	Mx	-.054	5.5
13	MP4C	X	74.32	.5
14	MP4C	Z	-128.727	.5
15	MP4C	Mx	-.033	.5
16	MP4C	X	74.32	5.5
17	MP4C	Z	-128.727	5.5
18	MP4C	Mx	-.033	5.5
19	MP4A	X	74.32	.5
20	MP4A	Z	-128.727	.5
21	MP4A	Mx	-.033	.5
22	MP4A	X	74.32	5.5
23	MP4A	Z	-128.727	5.5
24	MP4A	Mx	-.033	5.5
25	MP4B	X	53.695	.5
26	MP4B	Z	-93.003	.5
27	MP4B	Mx	-.054	.5
28	MP4B	X	53.695	5.5
29	MP4B	Z	-93.003	5.5
30	MP4B	Mx	-.054	5.5
31	MP4C	X	74.32	.5
32	MP4C	Z	-128.727	.5
33	MP4C	Mx	.107	.5
34	MP4C	X	74.32	5.5
35	MP4C	Z	-128.727	5.5
36	MP4C	Mx	.107	5.5
37	MP1A	X	39.653	2
38	MP1A	Z	-68.68	2
39	MP1A	Mx	-.02	2
40	MP1A	X	39.653	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP1A	Z	-68.68	4
42	MP1A	Mx	-.02	4
43	MP1B	X	18.309	2
44	MP1B	Z	-31.712	2
45	MP1B	Mx	.018	2
46	MP1B	X	18.309	4
47	MP1B	Z	-31.712	4
48	MP1B	Mx	.018	4
49	MP1C	X	39.653	2
50	MP1C	Z	-68.68	2
51	MP1C	Mx	-.02	2
52	MP1C	X	39.653	4
53	MP1C	Z	-68.68	4
54	MP1C	Mx	-.02	4
55	M62	X	61.643	1
56	M62	Z	-106.769	1
57	M62	Mx	0	1
58	MP4A	X	33.57	1
59	MP4A	Z	-58.145	1
60	MP4A	Mx	.017	1
61	MP4B	X	22.637	1
62	MP4B	Z	-39.209	1
63	MP4B	Mx	-.023	1
64	MP4C	X	33.57	1
65	MP4C	Z	-58.145	1
66	MP4C	Mx	.017	1
67	MP3A	X	34.13	1
68	MP3A	Z	-59.115	1
69	MP3A	Mx	.017	1
70	MP3B	X	24.876	1
71	MP3B	Z	-43.087	1
72	MP3B	Mx	-.025	1
73	MP3C	X	34.13	1
74	MP3C	Z	-59.115	1
75	MP3C	Mx	.017	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	104.911	.5
2	MP4A	Z	-60.57	.5
3	MP4A	Mx	.085	.5
4	MP4A	X	104.911	5.5
5	MP4A	Z	-60.57	5.5
6	MP4A	Mx	.085	5.5
7	MP4B	X	104.911	.5
8	MP4B	Z	-60.57	.5
9	MP4B	Mx	-.02	.5
10	MP4B	X	104.911	5.5
11	MP4B	Z	-60.57	5.5
12	MP4B	Mx	-.02	5.5
13	MP4C	X	140.635	.5
14	MP4C	Z	-81.195	.5
15	MP4C	Mx	-.088	.5
16	MP4C	X	140.635	5.5
17	MP4C	Z	-81.195	5.5
18	MP4C	Mx	-.088	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP4A	X	104.911	.5
20	MP4A	Z	-60.57	.5
21	MP4A	Mx	.02	.5
22	MP4A	X	104.911	5.5
23	MP4A	Z	-60.57	5.5
24	MP4A	Mx	.02	5.5
25	MP4B	X	104.911	.5
26	MP4B	Z	-60.57	.5
27	MP4B	Mx	-.085	.5
28	MP4B	X	104.911	5.5
29	MP4B	Z	-60.57	5.5
30	MP4B	Mx	-.085	5.5
31	MP4C	X	140.635	.5
32	MP4C	Z	-81.195	.5
33	MP4C	Mx	.088	.5
34	MP4C	X	140.635	5.5
35	MP4C	Z	-81.195	5.5
36	MP4C	Mx	.088	5.5
37	MP1A	X	44.035	2
38	MP1A	Z	-25.424	2
39	MP1A	Mx	-.022	2
40	MP1A	X	44.035	4
41	MP1A	Z	-25.424	4
42	MP1A	Mx	-.022	4
43	MP1B	X	44.035	2
44	MP1B	Z	-25.424	2
45	MP1B	Mx	.022	2
46	MP1B	X	44.035	4
47	MP1B	Z	-25.424	4
48	MP1B	Mx	.022	4
49	MP1C	X	81.003	2
50	MP1C	Z	-46.767	2
51	MP1C	Mx	0	2
52	MP1C	X	81.003	4
53	MP1C	Z	-46.767	4
54	MP1C	Mx	0	4
55	M62	X	115.063	1
56	M62	Z	-66.431	1
57	M62	Mx	0	1
58	MP4A	X	45.521	1
59	MP4A	Z	-26.282	1
60	MP4A	Mx	.023	1
61	MP4B	X	45.521	1
62	MP4B	Z	-26.282	1
63	MP4B	Mx	-.023	1
64	MP4C	X	64.458	1
65	MP4C	Z	-37.215	1
66	MP4C	Mx	0	1
67	MP3A	X	48.429	1
68	MP3A	Z	-27.961	1
69	MP3A	Mx	.024	1
70	MP3B	X	48.429	1
71	MP3B	Z	-27.961	1
72	MP3B	Mx	-.024	1
73	MP3C	X	64.458	1
74	MP3C	Z	-37.215	1
75	MP3C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	107.39	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	.054	.5
4	MP4A	X	107.39	5.5
5	MP4A	Z	0	5.5
6	MP4A	Mx	.054	5.5
7	MP4B	X	148.641	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	.033	.5
10	MP4B	X	148.641	5.5
11	MP4B	Z	0	5.5
12	MP4B	Mx	.033	5.5
13	MP4C	X	148.641	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	-.107	.5
16	MP4C	X	148.641	5.5
17	MP4C	Z	0	5.5
18	MP4C	Mx	-.107	5.5
19	MP4A	X	107.39	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	.054	.5
22	MP4A	X	107.39	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	.054	5.5
25	MP4B	X	148.641	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	-.107	.5
28	MP4B	X	148.641	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	-.107	5.5
31	MP4C	X	148.641	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	.033	.5
34	MP4C	X	148.641	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	.033	5.5
37	MP1A	X	36.618	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.018	2
40	MP1A	X	36.618	4
41	MP1A	Z	0	4
42	MP1A	Mx	-.018	4
43	MP1B	X	79.305	2
44	MP1B	Z	0	2
45	MP1B	Mx	.02	2
46	MP1B	X	79.305	4
47	MP1B	Z	0	4
48	MP1B	Mx	.02	4
49	MP1C	X	79.305	2
50	MP1C	Z	0	2
51	MP1C	Mx	.02	2
52	MP1C	X	79.305	4
53	MP1C	Z	0	4
54	MP1C	Mx	.02	4
55	M62	X	152.018	1
56	M62	Z	0	1
57	M62	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	45.274	1
59	MP4A	Z	0	1
60	MP4A	Mx	.023	1
61	MP4B	X	67.14	1
62	MP4B	Z	0	1
63	MP4B	Mx	-.017	1
64	MP4C	X	67.14	1
65	MP4C	Z	0	1
66	MP4C	Mx	-.017	1
67	MP3A	X	49.752	1
68	MP3A	Z	0	1
69	MP3A	Mx	.025	1
70	MP3B	X	68.26	1
71	MP3B	Z	0	1
72	MP3B	Mx	-.017	1
73	MP3C	X	68.26	1
74	MP3C	Z	0	1
75	MP3C	Mx	-.017	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	104.911	.5
2	MP4A	Z	60.57	.5
3	MP4A	Mx	.02	.5
4	MP4A	X	104.911	5.5
5	MP4A	Z	60.57	5.5
6	MP4A	Mx	.02	5.5
7	MP4B	X	140.635	.5
8	MP4B	Z	81.195	.5
9	MP4B	Mx	.088	.5
10	MP4B	X	140.635	5.5
11	MP4B	Z	81.195	5.5
12	MP4B	Mx	.088	5.5
13	MP4C	X	104.911	.5
14	MP4C	Z	60.57	.5
15	MP4C	Mx	-.085	.5
16	MP4C	X	104.911	5.5
17	MP4C	Z	60.57	5.5
18	MP4C	Mx	-.085	5.5
19	MP4A	X	104.911	.5
20	MP4A	Z	60.57	.5
21	MP4A	Mx	.085	.5
22	MP4A	X	104.911	5.5
23	MP4A	Z	60.57	5.5
24	MP4A	Mx	.085	5.5
25	MP4B	X	140.635	.5
26	MP4B	Z	81.195	.5
27	MP4B	Mx	-.088	.5
28	MP4B	X	140.635	5.5
29	MP4B	Z	81.195	5.5
30	MP4B	Mx	-.088	5.5
31	MP4C	X	104.911	.5
32	MP4C	Z	60.57	.5
33	MP4C	Mx	-.02	.5
34	MP4C	X	104.911	5.5
35	MP4C	Z	60.57	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP4C	Mx	-.02	5.5
37	MP1A	X	44.035	2
38	MP1A	Z	25.424	2
39	MP1A	Mx	-.022	2
40	MP1A	X	44.035	4
41	MP1A	Z	25.424	4
42	MP1A	Mx	-.022	4
43	MP1B	X	81.003	2
44	MP1B	Z	46.767	2
45	MP1B	Mx	0	2
46	MP1B	X	81.003	4
47	MP1B	Z	46.767	4
48	MP1B	Mx	0	4
49	MP1C	X	44.035	2
50	MP1C	Z	25.424	2
51	MP1C	Mx	.022	2
52	MP1C	X	44.035	4
53	MP1C	Z	25.424	4
54	MP1C	Mx	.022	4
55	M62	X	139.945	1
56	M62	Z	80.797	1
57	M62	Mx	0	1
58	MP4A	X	45.521	1
59	MP4A	Z	26.282	1
60	MP4A	Mx	.023	1
61	MP4B	X	64.458	1
62	MP4B	Z	37.215	1
63	MP4B	Mx	0	1
64	MP4C	X	45.521	1
65	MP4C	Z	26.282	1
66	MP4C	Mx	-.023	1
67	MP3A	X	48.429	1
68	MP3A	Z	27.961	1
69	MP3A	Mx	.024	1
70	MP3B	X	64.458	1
71	MP3B	Z	37.215	1
72	MP3B	Mx	0	1
73	MP3C	X	48.429	1
74	MP3C	Z	27.961	1
75	MP3C	Mx	-.024	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	74.32	.5
2	MP4A	Z	128.727	.5
3	MP4A	Mx	-.033	.5
4	MP4A	X	74.32	5.5
5	MP4A	Z	128.727	5.5
6	MP4A	Mx	-.033	5.5
7	MP4B	X	74.32	.5
8	MP4B	Z	128.727	.5
9	MP4B	Mx	.107	.5
10	MP4B	X	74.32	5.5
11	MP4B	Z	128.727	5.5
12	MP4B	Mx	.107	5.5
13	MP4C	X	53.695	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP4C	Z	93.003	.5
15	MP4C	Mx	-.054	.5
16	MP4C	X	53.695	5.5
17	MP4C	Z	93.003	5.5
18	MP4C	Mx	-.054	5.5
19	MP4A	X	74.32	.5
20	MP4A	Z	128.727	.5
21	MP4A	Mx	.107	.5
22	MP4A	X	74.32	5.5
23	MP4A	Z	128.727	5.5
24	MP4A	Mx	.107	5.5
25	MP4B	X	74.32	.5
26	MP4B	Z	128.727	.5
27	MP4B	Mx	-.033	.5
28	MP4B	X	74.32	5.5
29	MP4B	Z	128.727	5.5
30	MP4B	Mx	-.033	5.5
31	MP4C	X	53.695	.5
32	MP4C	Z	93.003	.5
33	MP4C	Mx	-.054	.5
34	MP4C	X	53.695	5.5
35	MP4C	Z	93.003	5.5
36	MP4C	Mx	-.054	5.5
37	MP1A	X	39.653	2
38	MP1A	Z	68.68	2
39	MP1A	Mx	-.02	2
40	MP1A	X	39.653	4
41	MP1A	Z	68.68	4
42	MP1A	Mx	-.02	4
43	MP1B	X	39.653	2
44	MP1B	Z	68.68	2
45	MP1B	Mx	-.02	2
46	MP1B	X	39.653	4
47	MP1B	Z	68.68	4
48	MP1B	Mx	-.02	4
49	MP1C	X	18.309	2
50	MP1C	Z	31.712	2
51	MP1C	Mx	.018	2
52	MP1C	X	18.309	4
53	MP1C	Z	31.712	4
54	MP1C	Mx	.018	4
55	M62	X	76.009	1
56	M62	Z	131.651	1
57	M62	Mx	0	1
58	MP4A	X	33.57	1
59	MP4A	Z	58.145	1
60	MP4A	Mx	.017	1
61	MP4B	X	33.57	1
62	MP4B	Z	58.145	1
63	MP4B	Mx	.017	1
64	MP4C	X	22.637	1
65	MP4C	Z	39.209	1
66	MP4C	Mx	-.023	1
67	MP3A	X	34.13	1
68	MP3A	Z	59.115	1
69	MP3A	Mx	.017	1
70	MP3B	X	34.13	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP3B	Z	59.115	1
72	MP3B	Mx	.017	1
73	MP3C	X	24.876	1
74	MP3C	Z	43.087	1
75	MP3C	Mx	-.025	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.5
2	MP4A	Z	162.391	.5
3	MP4A	Mx	-.088	.5
4	MP4A	X	0	5.5
5	MP4A	Z	162.391	5.5
6	MP4A	Mx	-.088	5.5
7	MP4B	X	0	.5
8	MP4B	Z	121.14	.5
9	MP4B	Mx	.085	.5
10	MP4B	X	0	5.5
11	MP4B	Z	121.14	5.5
12	MP4B	Mx	.085	5.5
13	MP4C	X	0	.5
14	MP4C	Z	121.14	.5
15	MP4C	Mx	-.02	.5
16	MP4C	X	0	5.5
17	MP4C	Z	121.14	5.5
18	MP4C	Mx	-.02	5.5
19	MP4A	X	0	.5
20	MP4A	Z	162.391	.5
21	MP4A	Mx	.088	.5
22	MP4A	X	0	5.5
23	MP4A	Z	162.391	5.5
24	MP4A	Mx	.088	5.5
25	MP4B	X	0	.5
26	MP4B	Z	121.14	.5
27	MP4B	Mx	.02	.5
28	MP4B	X	0	5.5
29	MP4B	Z	121.14	5.5
30	MP4B	Mx	.02	5.5
31	MP4C	X	0	.5
32	MP4C	Z	121.14	.5
33	MP4C	Mx	-.085	.5
34	MP4C	X	0	5.5
35	MP4C	Z	121.14	5.5
36	MP4C	Mx	-.085	5.5
37	MP1A	X	0	2
38	MP1A	Z	93.534	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	93.534	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	50.847	2
45	MP1B	Mx	-.022	2
46	MP1B	X	0	4
47	MP1B	Z	50.847	4
48	MP1B	Mx	-.022	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP1C	X	0	2
50	MP1C	Z	50.847	2
51	MP1C	Mx	.022	2
52	MP1C	X	0	4
53	MP1C	Z	50.847	4
54	MP1C	Mx	.022	4
55	M62	X	0	1
56	M62	Z	132.863	1
57	M62	Mx	0	1
58	MP4A	X	0	1
59	MP4A	Z	74.429	1
60	MP4A	Mx	0	1
61	MP4B	X	0	1
62	MP4B	Z	52.563	1
63	MP4B	Mx	.023	1
64	MP4C	X	0	1
65	MP4C	Z	52.563	1
66	MP4C	Mx	-.023	1
67	MP3A	X	0	1
68	MP3A	Z	74.429	1
69	MP3A	Mx	0	1
70	MP3B	X	0	1
71	MP3B	Z	55.921	1
72	MP3B	Mx	.024	1
73	MP3C	X	0	1
74	MP3C	Z	55.921	1
75	MP3C	Mx	-.024	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-74.32	.5
2	MP4A	Z	128.727	.5
3	MP4A	Mx	-.107	.5
4	MP4A	X	-74.32	5.5
5	MP4A	Z	128.727	5.5
6	MP4A	Mx	-.107	5.5
7	MP4B	X	-53.695	.5
8	MP4B	Z	93.003	.5
9	MP4B	Mx	.054	.5
10	MP4B	X	-53.695	5.5
11	MP4B	Z	93.003	5.5
12	MP4B	Mx	.054	5.5
13	MP4C	X	-74.32	.5
14	MP4C	Z	128.727	.5
15	MP4C	Mx	.033	.5
16	MP4C	X	-74.32	5.5
17	MP4C	Z	128.727	5.5
18	MP4C	Mx	.033	5.5
19	MP4A	X	-74.32	.5
20	MP4A	Z	128.727	.5
21	MP4A	Mx	.033	.5
22	MP4A	X	-74.32	5.5
23	MP4A	Z	128.727	5.5
24	MP4A	Mx	.033	5.5
25	MP4B	X	-53.695	.5
26	MP4B	Z	93.003	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP4B	Mx	.054	.5
28	MP4B	X	-53.695	5.5
29	MP4B	Z	93.003	5.5
30	MP4B	Mx	.054	5.5
31	MP4C	X	-74.32	.5
32	MP4C	Z	128.727	.5
33	MP4C	Mx	-.107	.5
34	MP4C	X	-74.32	5.5
35	MP4C	Z	128.727	5.5
36	MP4C	Mx	-.107	5.5
37	MP1A	X	-39.653	2
38	MP1A	Z	68.68	2
39	MP1A	Mx	.02	2
40	MP1A	X	-39.653	4
41	MP1A	Z	68.68	4
42	MP1A	Mx	.02	4
43	MP1B	X	-18.309	2
44	MP1B	Z	31.712	2
45	MP1B	Mx	-.018	2
46	MP1B	X	-18.309	4
47	MP1B	Z	31.712	4
48	MP1B	Mx	-.018	4
49	MP1C	X	-39.653	2
50	MP1C	Z	68.68	2
51	MP1C	Mx	.02	2
52	MP1C	X	-39.653	4
53	MP1C	Z	68.68	4
54	MP1C	Mx	.02	4
55	M62	X	-61.643	1
56	M62	Z	106.769	1
57	M62	Mx	0	1
58	MP4A	X	-33.57	1
59	MP4A	Z	58.145	1
60	MP4A	Mx	-.017	1
61	MP4B	X	-22.637	1
62	MP4B	Z	39.209	1
63	MP4B	Mx	.023	1
64	MP4C	X	-33.57	1
65	MP4C	Z	58.145	1
66	MP4C	Mx	-.017	1
67	MP3A	X	-34.13	1
68	MP3A	Z	59.115	1
69	MP3A	Mx	-.017	1
70	MP3B	X	-24.876	1
71	MP3B	Z	43.087	1
72	MP3B	Mx	.025	1
73	MP3C	X	-34.13	1
74	MP3C	Z	59.115	1
75	MP3C	Mx	-.017	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-104.911	.5
2	MP4A	Z	60.57	.5
3	MP4A	Mx	-.085	.5
4	MP4A	X	-104.911	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP4A	Z	60.57	5.5
6	MP4A	Mx	-.085	5.5
7	MP4B	X	-104.911	.5
8	MP4B	Z	60.57	.5
9	MP4B	Mx	.02	.5
10	MP4B	X	-104.911	5.5
11	MP4B	Z	60.57	5.5
12	MP4B	Mx	.02	5.5
13	MP4C	X	-140.635	.5
14	MP4C	Z	81.195	.5
15	MP4C	Mx	.088	.5
16	MP4C	X	-140.635	5.5
17	MP4C	Z	81.195	5.5
18	MP4C	Mx	.088	5.5
19	MP4A	X	-104.911	.5
20	MP4A	Z	60.57	.5
21	MP4A	Mx	-.02	.5
22	MP4A	X	-104.911	5.5
23	MP4A	Z	60.57	5.5
24	MP4A	Mx	-.02	5.5
25	MP4B	X	-104.911	.5
26	MP4B	Z	60.57	.5
27	MP4B	Mx	.085	.5
28	MP4B	X	-104.911	5.5
29	MP4B	Z	60.57	5.5
30	MP4B	Mx	.085	5.5
31	MP4C	X	-140.635	.5
32	MP4C	Z	81.195	.5
33	MP4C	Mx	-.088	.5
34	MP4C	X	-140.635	5.5
35	MP4C	Z	81.195	5.5
36	MP4C	Mx	-.088	5.5
37	MP1A	X	-44.035	2
38	MP1A	Z	25.424	2
39	MP1A	Mx	.022	2
40	MP1A	X	-44.035	4
41	MP1A	Z	25.424	4
42	MP1A	Mx	.022	4
43	MP1B	X	-44.035	2
44	MP1B	Z	25.424	2
45	MP1B	Mx	-.022	2
46	MP1B	X	-44.035	4
47	MP1B	Z	25.424	4
48	MP1B	Mx	-.022	4
49	MP1C	X	-81.003	2
50	MP1C	Z	46.767	2
51	MP1C	Mx	0	2
52	MP1C	X	-81.003	4
53	MP1C	Z	46.767	4
54	MP1C	Mx	0	4
55	M62	X	-115.063	1
56	M62	Z	66.431	1
57	M62	Mx	0	1
58	MP4A	X	-45.521	1
59	MP4A	Z	26.282	1
60	MP4A	Mx	-.023	1
61	MP4B	X	-45.521	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP4B	Z	26.282	1
63	MP4B	Mx	.023	1
64	MP4C	X	-64.458	1
65	MP4C	Z	37.215	1
66	MP4C	Mx	0	1
67	MP3A	X	-48.429	1
68	MP3A	Z	27.961	1
69	MP3A	Mx	-.024	1
70	MP3B	X	-48.429	1
71	MP3B	Z	27.961	1
72	MP3B	Mx	.024	1
73	MP3C	X	-64.458	1
74	MP3C	Z	37.215	1
75	MP3C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-107.39	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	-.054	.5
4	MP4A	X	-107.39	5.5
5	MP4A	Z	0	5.5
6	MP4A	Mx	-.054	5.5
7	MP4B	X	-148.641	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	-.033	.5
10	MP4B	X	-148.641	5.5
11	MP4B	Z	0	5.5
12	MP4B	Mx	-.033	5.5
13	MP4C	X	-148.641	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	.107	.5
16	MP4C	X	-148.641	5.5
17	MP4C	Z	0	5.5
18	MP4C	Mx	.107	5.5
19	MP4A	X	-107.39	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	-.054	.5
22	MP4A	X	-107.39	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	-.054	5.5
25	MP4B	X	-148.641	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	.107	.5
28	MP4B	X	-148.641	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	.107	5.5
31	MP4C	X	-148.641	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	-.033	.5
34	MP4C	X	-148.641	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	-.033	5.5
37	MP1A	X	-36.618	2
38	MP1A	Z	0	2
39	MP1A	Mx	.018	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	X	-36.618	4
41	MP1A	Z	0	4
42	MP1A	Mx	.018	4
43	MP1B	X	-79.305	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.02	2
46	MP1B	X	-79.305	4
47	MP1B	Z	0	4
48	MP1B	Mx	-.02	4
49	MP1C	X	-79.305	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.02	2
52	MP1C	X	-79.305	4
53	MP1C	Z	0	4
54	MP1C	Mx	-.02	4
55	M62	X	-152.018	1
56	M62	Z	0	1
57	M62	Mx	0	1
58	MP4A	X	-45.274	1
59	MP4A	Z	0	1
60	MP4A	Mx	-.023	1
61	MP4B	X	-67.14	1
62	MP4B	Z	0	1
63	MP4B	Mx	.017	1
64	MP4C	X	-67.14	1
65	MP4C	Z	0	1
66	MP4C	Mx	.017	1
67	MP3A	X	-49.752	1
68	MP3A	Z	0	1
69	MP3A	Mx	-.025	1
70	MP3B	X	-68.26	1
71	MP3B	Z	0	1
72	MP3B	Mx	.017	1
73	MP3C	X	-68.26	1
74	MP3C	Z	0	1
75	MP3C	Mx	.017	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-104.911	.5
2	MP4A	Z	-60.57	.5
3	MP4A	Mx	-.02	.5
4	MP4A	X	-104.911	5.5
5	MP4A	Z	-60.57	5.5
6	MP4A	Mx	-.02	5.5
7	MP4B	X	-140.635	.5
8	MP4B	Z	-81.195	.5
9	MP4B	Mx	-.088	.5
10	MP4B	X	-140.635	5.5
11	MP4B	Z	-81.195	5.5
12	MP4B	Mx	-.088	5.5
13	MP4C	X	-104.911	.5
14	MP4C	Z	-60.57	.5
15	MP4C	Mx	.085	.5
16	MP4C	X	-104.911	5.5
17	MP4C	Z	-60.57	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4C	Mx	.085	5.5
19	MP4A	X	-104.911	.5
20	MP4A	Z	-60.57	.5
21	MP4A	Mx	-.085	.5
22	MP4A	X	-104.911	5.5
23	MP4A	Z	-60.57	5.5
24	MP4A	Mx	-.085	5.5
25	MP4B	X	-140.635	.5
26	MP4B	Z	-81.195	.5
27	MP4B	Mx	.088	.5
28	MP4B	X	-140.635	5.5
29	MP4B	Z	-81.195	5.5
30	MP4B	Mx	.088	5.5
31	MP4C	X	-104.911	.5
32	MP4C	Z	-60.57	.5
33	MP4C	Mx	.02	.5
34	MP4C	X	-104.911	5.5
35	MP4C	Z	-60.57	5.5
36	MP4C	Mx	.02	5.5
37	MP1A	X	-44.035	2
38	MP1A	Z	-25.424	2
39	MP1A	Mx	.022	2
40	MP1A	X	-44.035	4
41	MP1A	Z	-25.424	4
42	MP1A	Mx	.022	4
43	MP1B	X	-81.003	2
44	MP1B	Z	-46.767	2
45	MP1B	Mx	0	2
46	MP1B	X	-81.003	4
47	MP1B	Z	-46.767	4
48	MP1B	Mx	0	4
49	MP1C	X	-44.035	2
50	MP1C	Z	-25.424	2
51	MP1C	Mx	-.022	2
52	MP1C	X	-44.035	4
53	MP1C	Z	-25.424	4
54	MP1C	Mx	-.022	4
55	M62	X	-139.945	1
56	M62	Z	-80.797	1
57	M62	Mx	0	1
58	MP4A	X	-45.521	1
59	MP4A	Z	-26.282	1
60	MP4A	Mx	-.023	1
61	MP4B	X	-64.458	1
62	MP4B	Z	-37.215	1
63	MP4B	Mx	0	1
64	MP4C	X	-45.521	1
65	MP4C	Z	-26.282	1
66	MP4C	Mx	.023	1
67	MP3A	X	-48.429	1
68	MP3A	Z	-27.961	1
69	MP3A	Mx	-.024	1
70	MP3B	X	-64.458	1
71	MP3B	Z	-37.215	1
72	MP3B	Mx	0	1
73	MP3C	X	-48.429	1
74	MP3C	Z	-27.961	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP3C	Mx	.024	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-74.32	.5
2	MP4A	Z	-128.727	.5
3	MP4A	Mx	.033	.5
4	MP4A	X	-74.32	5.5
5	MP4A	Z	-128.727	5.5
6	MP4A	Mx	.033	5.5
7	MP4B	X	-74.32	.5
8	MP4B	Z	-128.727	.5
9	MP4B	Mx	-.107	.5
10	MP4B	X	-74.32	5.5
11	MP4B	Z	-128.727	5.5
12	MP4B	Mx	-.107	5.5
13	MP4C	X	-53.695	.5
14	MP4C	Z	-93.003	.5
15	MP4C	Mx	.054	.5
16	MP4C	X	-53.695	5.5
17	MP4C	Z	-93.003	5.5
18	MP4C	Mx	.054	5.5
19	MP4A	X	-74.32	.5
20	MP4A	Z	-128.727	.5
21	MP4A	Mx	-.107	.5
22	MP4A	X	-74.32	5.5
23	MP4A	Z	-128.727	5.5
24	MP4A	Mx	-.107	5.5
25	MP4B	X	-74.32	.5
26	MP4B	Z	-128.727	.5
27	MP4B	Mx	.033	.5
28	MP4B	X	-74.32	5.5
29	MP4B	Z	-128.727	5.5
30	MP4B	Mx	.033	5.5
31	MP4C	X	-53.695	.5
32	MP4C	Z	-93.003	.5
33	MP4C	Mx	.054	.5
34	MP4C	X	-53.695	5.5
35	MP4C	Z	-93.003	5.5
36	MP4C	Mx	.054	5.5
37	MP1A	X	-39.653	2
38	MP1A	Z	-68.68	2
39	MP1A	Mx	.02	2
40	MP1A	X	-39.653	4
41	MP1A	Z	-68.68	4
42	MP1A	Mx	.02	4
43	MP1B	X	-39.653	2
44	MP1B	Z	-68.68	2
45	MP1B	Mx	.02	2
46	MP1B	X	-39.653	4
47	MP1B	Z	-68.68	4
48	MP1B	Mx	.02	4
49	MP1C	X	-18.309	2
50	MP1C	Z	-31.712	2
51	MP1C	Mx	-.018	2
52	MP1C	X	-18.309	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1C	Z	-31.712	4
54	MP1C	Mx	-.018	4
55	M62	X	-76.009	1
56	M62	Z	-131.651	1
57	M62	Mx	0	1
58	MP4A	X	-33.57	1
59	MP4A	Z	-58.145	1
60	MP4A	Mx	-.017	1
61	MP4B	X	-33.57	1
62	MP4B	Z	-58.145	1
63	MP4B	Mx	-.017	1
64	MP4C	X	-22.637	1
65	MP4C	Z	-39.209	1
66	MP4C	Mx	.023	1
67	MP3A	X	-34.13	1
68	MP3A	Z	-59.115	1
69	MP3A	Mx	-.017	1
70	MP3B	X	-34.13	1
71	MP3B	Z	-59.115	1
72	MP3B	Mx	-.017	1
73	MP3C	X	-24.876	1
74	MP3C	Z	-43.087	1
75	MP3C	Mx	.025	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.5
2	MP4A	Z	-35.616	.5
3	MP4A	Mx	.019	.5
4	MP4A	X	0	5.5
5	MP4A	Z	-35.616	5.5
6	MP4A	Mx	.019	5.5
7	MP4B	X	0	.5
8	MP4B	Z	-27.701	.5
9	MP4B	Mx	-.019	.5
10	MP4B	X	0	5.5
11	MP4B	Z	-27.701	5.5
12	MP4B	Mx	-.019	5.5
13	MP4C	X	0	.5
14	MP4C	Z	-27.701	.5
15	MP4C	Mx	.004	.5
16	MP4C	X	0	5.5
17	MP4C	Z	-27.701	5.5
18	MP4C	Mx	.004	5.5
19	MP4A	X	0	.5
20	MP4A	Z	-35.616	.5
21	MP4A	Mx	-.019	.5
22	MP4A	X	0	5.5
23	MP4A	Z	-35.616	5.5
24	MP4A	Mx	-.019	5.5
25	MP4B	X	0	.5
26	MP4B	Z	-27.701	.5
27	MP4B	Mx	-.004	.5
28	MP4B	X	0	5.5
29	MP4B	Z	-27.701	5.5
30	MP4B	Mx	-.004	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP4C	X	0	.5
32	MP4C	Z	-27.701	.5
33	MP4C	Mx	.019	.5
34	MP4C	X	0	5.5
35	MP4C	Z	-27.701	5.5
36	MP4C	Mx	.019	5.5
37	MP1A	X	0	2
38	MP1A	Z	-21.226	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	-21.226	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	-12.389	2
45	MP1B	Mx	.005	2
46	MP1B	X	0	4
47	MP1B	Z	-12.389	4
48	MP1B	Mx	.005	4
49	MP1C	X	0	2
50	MP1C	Z	-12.389	2
51	MP1C	Mx	-.005	2
52	MP1C	X	0	4
53	MP1C	Z	-12.389	4
54	MP1C	Mx	-.005	4
55	M62	X	0	1
56	M62	Z	-31.087	1
57	M62	Mx	0	1
58	MP4A	X	0	1
59	MP4A	Z	-18.407	1
60	MP4A	Mx	0	1
61	MP4B	X	0	1
62	MP4B	Z	-13.678	1
63	MP4B	Mx	-.006	1
64	MP4C	X	0	1
65	MP4C	Z	-13.678	1
66	MP4C	Mx	.006	1
67	MP3A	X	0	1
68	MP3A	Z	-18.407	1
69	MP3A	Mx	0	1
70	MP3B	X	0	1
71	MP3B	Z	-14.399	1
72	MP3B	Mx	-.006	1
73	MP3C	X	0	1
74	MP3C	Z	-14.399	1
75	MP3C	Mx	.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	16.489	.5
2	MP4A	Z	-28.559	.5
3	MP4A	Mx	.024	.5
4	MP4A	X	16.489	5.5
5	MP4A	Z	-28.559	5.5
6	MP4A	Mx	.024	5.5
7	MP4B	X	12.531	.5
8	MP4B	Z	-21.704	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP4B	Mx	-.013	.5
10	MP4B	X	12.531	5.5
11	MP4B	Z	-21.704	5.5
12	MP4B	Mx	-.013	5.5
13	MP4C	X	16.489	.5
14	MP4C	Z	-28.559	.5
15	MP4C	Mx	-.007	.5
16	MP4C	X	16.489	5.5
17	MP4C	Z	-28.559	5.5
18	MP4C	Mx	-.007	5.5
19	MP4A	X	16.489	.5
20	MP4A	Z	-28.559	.5
21	MP4A	Mx	-.007	.5
22	MP4A	X	16.489	5.5
23	MP4A	Z	-28.559	5.5
24	MP4A	Mx	-.007	5.5
25	MP4B	X	12.531	.5
26	MP4B	Z	-21.704	.5
27	MP4B	Mx	-.013	.5
28	MP4B	X	12.531	5.5
29	MP4B	Z	-21.704	5.5
30	MP4B	Mx	-.013	5.5
31	MP4C	X	16.489	.5
32	MP4C	Z	-28.559	.5
33	MP4C	Mx	.024	.5
34	MP4C	X	16.489	5.5
35	MP4C	Z	-28.559	5.5
36	MP4C	Mx	.024	5.5
37	MP1A	X	9.14	2
38	MP1A	Z	-15.831	2
39	MP1A	Mx	-.005	2
40	MP1A	X	9.14	4
41	MP1A	Z	-15.831	4
42	MP1A	Mx	-.005	4
43	MP1B	X	4.721	2
44	MP1B	Z	-8.178	2
45	MP1B	Mx	.005	2
46	MP1B	X	4.721	4
47	MP1B	Z	-8.178	4
48	MP1B	Mx	.005	4
49	MP1C	X	9.14	2
50	MP1C	Z	-15.831	2
51	MP1C	Mx	-.005	2
52	MP1C	X	9.14	4
53	MP1C	Z	-15.831	4
54	MP1C	Mx	-.005	4
55	M62	X	14.579	1
56	M62	Z	-25.252	1
57	M62	Mx	0	1
58	MP4A	X	8.415	1
59	MP4A	Z	-14.576	1
60	MP4A	Mx	.004	1
61	MP4B	X	6.051	1
62	MP4B	Z	-10.48	1
63	MP4B	Mx	-.006	1
64	MP4C	X	8.415	1
65	MP4C	Z	-14.576	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP4C	Mx	.004	1
67	MP3A	X	8.536	1
68	MP3A	Z	-14.784	1
69	MP3A	Mx	.004	1
70	MP3B	X	6.532	1
71	MP3B	Z	-11.313	1
72	MP3B	Mx	-.007	1
73	MP3C	X	8.536	1
74	MP3C	Z	-14.784	1
75	MP3C	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	23.989	.5
2	MP4A	Z	-13.85	.5
3	MP4A	Mx	.019	.5
4	MP4A	X	23.989	5.5
5	MP4A	Z	-13.85	5.5
6	MP4A	Mx	.019	5.5
7	MP4B	X	23.989	.5
8	MP4B	Z	-13.85	.5
9	MP4B	Mx	-.004	.5
10	MP4B	X	23.989	5.5
11	MP4B	Z	-13.85	5.5
12	MP4B	Mx	-.004	5.5
13	MP4C	X	30.844	.5
14	MP4C	Z	-17.808	.5
15	MP4C	Mx	-.019	.5
16	MP4C	X	30.844	5.5
17	MP4C	Z	-17.808	5.5
18	MP4C	Mx	-.019	5.5
19	MP4A	X	23.989	.5
20	MP4A	Z	-13.85	.5
21	MP4A	Mx	.004	.5
22	MP4A	X	23.989	5.5
23	MP4A	Z	-13.85	5.5
24	MP4A	Mx	.004	5.5
25	MP4B	X	23.989	.5
26	MP4B	Z	-13.85	.5
27	MP4B	Mx	-.019	.5
28	MP4B	X	23.989	5.5
29	MP4B	Z	-13.85	5.5
30	MP4B	Mx	-.019	5.5
31	MP4C	X	30.844	.5
32	MP4C	Z	-17.808	.5
33	MP4C	Mx	.019	.5
34	MP4C	X	30.844	5.5
35	MP4C	Z	-17.808	5.5
36	MP4C	Mx	.019	5.5
37	MP1A	X	10.729	2
38	MP1A	Z	-6.194	2
39	MP1A	Mx	-.005	2
40	MP1A	X	10.729	4
41	MP1A	Z	-6.194	4
42	MP1A	Mx	-.005	4
43	MP1B	X	10.729	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1B	Z	-6.194	2
45	MP1B	Mx	.005	2
46	MP1B	X	10.729	4
47	MP1B	Z	-6.194	4
48	MP1B	Mx	.005	4
49	MP1C	X	18.383	2
50	MP1C	Z	-10.613	2
51	MP1C	Mx	0	2
52	MP1C	X	18.383	4
53	MP1C	Z	-10.613	4
54	MP1C	Mx	0	4
55	M62	X	26.922	1
56	M62	Z	-15.543	1
57	M62	Mx	0	1
58	MP4A	X	11.845	1
59	MP4A	Z	-6.839	1
60	MP4A	Mx	.006	1
61	MP4B	X	11.845	1
62	MP4B	Z	-6.839	1
63	MP4B	Mx	-.006	1
64	MP4C	X	15.941	1
65	MP4C	Z	-9.204	1
66	MP4C	Mx	0	1
67	MP3A	X	12.47	1
68	MP3A	Z	-7.2	1
69	MP3A	Mx	.006	1
70	MP3B	X	12.47	1
71	MP3B	Z	-7.2	1
72	MP3B	Mx	-.006	1
73	MP3C	X	15.941	1
74	MP3C	Z	-9.204	1
75	MP3C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	25.062	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	.013	.5
4	MP4A	X	25.062	5.5
5	MP4A	Z	0	5.5
6	MP4A	Mx	.013	5.5
7	MP4B	X	32.977	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	.007	.5
10	MP4B	X	32.977	5.5
11	MP4B	Z	0	5.5
12	MP4B	Mx	.007	5.5
13	MP4C	X	32.977	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	-.024	.5
16	MP4C	X	32.977	5.5
17	MP4C	Z	0	5.5
18	MP4C	Mx	-.024	5.5
19	MP4A	X	25.062	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	.013	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	25.062	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	.013	5.5
25	MP4B	X	32.977	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	-.024	.5
28	MP4B	X	32.977	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	-.024	5.5
31	MP4C	X	32.977	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	.007	.5
34	MP4C	X	32.977	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	.007	5.5
37	MP1A	X	9.443	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.005	2
40	MP1A	X	9.443	4
41	MP1A	Z	0	4
42	MP1A	Mx	-.005	4
43	MP1B	X	18.281	2
44	MP1B	Z	0	2
45	MP1B	Mx	.005	2
46	MP1B	X	18.281	4
47	MP1B	Z	0	4
48	MP1B	Mx	.005	4
49	MP1C	X	18.281	2
50	MP1C	Z	0	2
51	MP1C	Mx	.005	2
52	MP1C	X	18.281	4
53	MP1C	Z	0	4
54	MP1C	Mx	.005	4
55	M62	X	34.944	1
56	M62	Z	0	1
57	M62	Mx	0	1
58	MP4A	X	12.101	1
59	MP4A	Z	0	1
60	MP4A	Mx	.006	1
61	MP4B	X	16.831	1
62	MP4B	Z	0	1
63	MP4B	Mx	-.004	1
64	MP4C	X	16.831	1
65	MP4C	Z	0	1
66	MP4C	Mx	-.004	1
67	MP3A	X	13.063	1
68	MP3A	Z	0	1
69	MP3A	Mx	.007	1
70	MP3B	X	17.071	1
71	MP3B	Z	0	1
72	MP3B	Mx	-.004	1
73	MP3C	X	17.071	1
74	MP3C	Z	0	1
75	MP3C	Mx	-.004	1

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	23.989	.5
2	MP4A	Z	13.85	.5
3	MP4A	Mx	.004	.5
4	MP4A	X	23.989	5.5
5	MP4A	Z	13.85	5.5
6	MP4A	Mx	.004	5.5
7	MP4B	X	30.844	.5
8	MP4B	Z	17.808	.5
9	MP4B	Mx	.019	.5
10	MP4B	X	30.844	5.5
11	MP4B	Z	17.808	5.5
12	MP4B	Mx	.019	5.5
13	MP4C	X	23.989	.5
14	MP4C	Z	13.85	.5
15	MP4C	Mx	-.019	.5
16	MP4C	X	23.989	5.5
17	MP4C	Z	13.85	5.5
18	MP4C	Mx	-.019	5.5
19	MP4A	X	23.989	.5
20	MP4A	Z	13.85	.5
21	MP4A	Mx	.019	.5
22	MP4A	X	23.989	5.5
23	MP4A	Z	13.85	5.5
24	MP4A	Mx	.019	5.5
25	MP4B	X	30.844	.5
26	MP4B	Z	17.808	.5
27	MP4B	Mx	-.019	.5
28	MP4B	X	30.844	5.5
29	MP4B	Z	17.808	5.5
30	MP4B	Mx	-.019	5.5
31	MP4C	X	23.989	.5
32	MP4C	Z	13.85	.5
33	MP4C	Mx	-.004	.5
34	MP4C	X	23.989	5.5
35	MP4C	Z	13.85	5.5
36	MP4C	Mx	-.004	5.5
37	MP1A	X	10.729	2
38	MP1A	Z	6.194	2
39	MP1A	Mx	-.005	2
40	MP1A	X	10.729	4
41	MP1A	Z	6.194	4
42	MP1A	Mx	-.005	4
43	MP1B	X	18.383	2
44	MP1B	Z	10.613	2
45	MP1B	Mx	0	2
46	MP1B	X	18.383	4
47	MP1B	Z	10.613	4
48	MP1B	Mx	0	4
49	MP1C	X	10.729	2
50	MP1C	Z	6.194	2
51	MP1C	Mx	.005	2
52	MP1C	X	10.729	4
53	MP1C	Z	6.194	4
54	MP1C	Mx	.005	4
55	M62	X	31.932	1
56	M62	Z	18.436	1
57	M62	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	11.845	1
59	MP4A	Z	6.839	1
60	MP4A	Mx	.006	1
61	MP4B	X	15.941	1
62	MP4B	Z	9.204	1
63	MP4B	Mx	0	1
64	MP4C	X	11.845	1
65	MP4C	Z	6.839	1
66	MP4C	Mx	-.006	1
67	MP3A	X	12.47	1
68	MP3A	Z	7.2	1
69	MP3A	Mx	.006	1
70	MP3B	X	15.941	1
71	MP3B	Z	9.204	1
72	MP3B	Mx	0	1
73	MP3C	X	12.47	1
74	MP3C	Z	7.2	1
75	MP3C	Mx	-.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	16.489	.5
2	MP4A	Z	28.559	.5
3	MP4A	Mx	-.007	.5
4	MP4A	X	16.489	5.5
5	MP4A	Z	28.559	5.5
6	MP4A	Mx	-.007	5.5
7	MP4B	X	16.489	.5
8	MP4B	Z	28.559	.5
9	MP4B	Mx	.024	.5
10	MP4B	X	16.489	5.5
11	MP4B	Z	28.559	5.5
12	MP4B	Mx	.024	5.5
13	MP4C	X	12.531	.5
14	MP4C	Z	21.704	.5
15	MP4C	Mx	-.013	.5
16	MP4C	X	12.531	5.5
17	MP4C	Z	21.704	5.5
18	MP4C	Mx	-.013	5.5
19	MP4A	X	16.489	.5
20	MP4A	Z	28.559	.5
21	MP4A	Mx	.024	.5
22	MP4A	X	16.489	5.5
23	MP4A	Z	28.559	5.5
24	MP4A	Mx	.024	5.5
25	MP4B	X	16.489	.5
26	MP4B	Z	28.559	.5
27	MP4B	Mx	-.007	.5
28	MP4B	X	16.489	5.5
29	MP4B	Z	28.559	5.5
30	MP4B	Mx	-.007	5.5
31	MP4C	X	12.531	.5
32	MP4C	Z	21.704	.5
33	MP4C	Mx	-.013	.5
34	MP4C	X	12.531	5.5
35	MP4C	Z	21.704	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP4C	Mx	-.013	5.5
37	MP1A	X	9.14	2
38	MP1A	Z	15.831	2
39	MP1A	Mx	-.005	2
40	MP1A	X	9.14	4
41	MP1A	Z	15.831	4
42	MP1A	Mx	-.005	4
43	MP1B	X	9.14	2
44	MP1B	Z	15.831	2
45	MP1B	Mx	-.005	2
46	MP1B	X	9.14	4
47	MP1B	Z	15.831	4
48	MP1B	Mx	-.005	4
49	MP1C	X	4.721	2
50	MP1C	Z	8.178	2
51	MP1C	Mx	.005	2
52	MP1C	X	4.721	4
53	MP1C	Z	8.178	4
54	MP1C	Mx	.005	4
55	M62	X	17.472	1
56	M62	Z	30.262	1
57	M62	Mx	0	1
58	MP4A	X	8.415	1
59	MP4A	Z	14.576	1
60	MP4A	Mx	.004	1
61	MP4B	X	8.415	1
62	MP4B	Z	14.576	1
63	MP4B	Mx	.004	1
64	MP4C	X	6.051	1
65	MP4C	Z	10.48	1
66	MP4C	Mx	-.006	1
67	MP3A	X	8.536	1
68	MP3A	Z	14.784	1
69	MP3A	Mx	.004	1
70	MP3B	X	8.536	1
71	MP3B	Z	14.784	1
72	MP3B	Mx	.004	1
73	MP3C	X	6.532	1
74	MP3C	Z	11.313	1
75	MP3C	Mx	-.007	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.5
2	MP4A	Z	35.616	.5
3	MP4A	Mx	-.019	.5
4	MP4A	X	0	5.5
5	MP4A	Z	35.616	5.5
6	MP4A	Mx	-.019	5.5
7	MP4B	X	0	.5
8	MP4B	Z	27.701	.5
9	MP4B	Mx	.019	.5
10	MP4B	X	0	5.5
11	MP4B	Z	27.701	5.5
12	MP4B	Mx	.019	5.5
13	MP4C	X	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP4C	Z	27.701	.5
15	MP4C	Mx	-.004	.5
16	MP4C	X	0	5.5
17	MP4C	Z	27.701	5.5
18	MP4C	Mx	-.004	5.5
19	MP4A	X	0	.5
20	MP4A	Z	35.616	.5
21	MP4A	Mx	.019	.5
22	MP4A	X	0	5.5
23	MP4A	Z	35.616	5.5
24	MP4A	Mx	.019	5.5
25	MP4B	X	0	.5
26	MP4B	Z	27.701	.5
27	MP4B	Mx	.004	.5
28	MP4B	X	0	5.5
29	MP4B	Z	27.701	5.5
30	MP4B	Mx	.004	5.5
31	MP4C	X	0	.5
32	MP4C	Z	27.701	.5
33	MP4C	Mx	-.019	.5
34	MP4C	X	0	5.5
35	MP4C	Z	27.701	5.5
36	MP4C	Mx	-.019	5.5
37	MP1A	X	0	2
38	MP1A	Z	21.226	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	21.226	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	12.389	2
45	MP1B	Mx	-.005	2
46	MP1B	X	0	4
47	MP1B	Z	12.389	4
48	MP1B	Mx	-.005	4
49	MP1C	X	0	2
50	MP1C	Z	12.389	2
51	MP1C	Mx	.005	2
52	MP1C	X	0	4
53	MP1C	Z	12.389	4
54	MP1C	Mx	.005	4
55	M62	X	0	1
56	M62	Z	31.087	1
57	M62	Mx	0	1
58	MP4A	X	0	1
59	MP4A	Z	18.407	1
60	MP4A	Mx	0	1
61	MP4B	X	0	1
62	MP4B	Z	13.678	1
63	MP4B	Mx	.006	1
64	MP4C	X	0	1
65	MP4C	Z	13.678	1
66	MP4C	Mx	-.006	1
67	MP3A	X	0	1
68	MP3A	Z	18.407	1
69	MP3A	Mx	0	1
70	MP3B	X	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP3B	Z	14.399	1
72	MP3B	Mx	.006	1
73	MP3C	X	0	1
74	MP3C	Z	14.399	1
75	MP3C	Mx	-.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-16.489	.5
2	MP4A	Z	28.559	.5
3	MP4A	Mx	-.024	.5
4	MP4A	X	-16.489	5.5
5	MP4A	Z	28.559	5.5
6	MP4A	Mx	-.024	5.5
7	MP4B	X	-12.531	.5
8	MP4B	Z	21.704	.5
9	MP4B	Mx	.013	.5
10	MP4B	X	-12.531	5.5
11	MP4B	Z	21.704	5.5
12	MP4B	Mx	.013	5.5
13	MP4C	X	-16.489	.5
14	MP4C	Z	28.559	.5
15	MP4C	Mx	.007	.5
16	MP4C	X	-16.489	5.5
17	MP4C	Z	28.559	5.5
18	MP4C	Mx	.007	5.5
19	MP4A	X	-16.489	.5
20	MP4A	Z	28.559	.5
21	MP4A	Mx	.007	.5
22	MP4A	X	-16.489	5.5
23	MP4A	Z	28.559	5.5
24	MP4A	Mx	.007	5.5
25	MP4B	X	-12.531	.5
26	MP4B	Z	21.704	.5
27	MP4B	Mx	.013	.5
28	MP4B	X	-12.531	5.5
29	MP4B	Z	21.704	5.5
30	MP4B	Mx	.013	5.5
31	MP4C	X	-16.489	.5
32	MP4C	Z	28.559	.5
33	MP4C	Mx	-.024	.5
34	MP4C	X	-16.489	5.5
35	MP4C	Z	28.559	5.5
36	MP4C	Mx	-.024	5.5
37	MP1A	X	-9.14	2
38	MP1A	Z	15.831	2
39	MP1A	Mx	.005	2
40	MP1A	X	-9.14	4
41	MP1A	Z	15.831	4
42	MP1A	Mx	.005	4
43	MP1B	X	-4.721	2
44	MP1B	Z	8.178	2
45	MP1B	Mx	-.005	2
46	MP1B	X	-4.721	4
47	MP1B	Z	8.178	4
48	MP1B	Mx	-.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP1C	X	-9.14	2
50	MP1C	Z	15.831	2
51	MP1C	Mx	.005	2
52	MP1C	X	-9.14	4
53	MP1C	Z	15.831	4
54	MP1C	Mx	.005	4
55	M62	X	-14.579	1
56	M62	Z	25.252	1
57	M62	Mx	0	1
58	MP4A	X	-8.415	1
59	MP4A	Z	14.576	1
60	MP4A	Mx	-.004	1
61	MP4B	X	-6.051	1
62	MP4B	Z	10.48	1
63	MP4B	Mx	.006	1
64	MP4C	X	-8.415	1
65	MP4C	Z	14.576	1
66	MP4C	Mx	-.004	1
67	MP3A	X	-8.536	1
68	MP3A	Z	14.784	1
69	MP3A	Mx	-.004	1
70	MP3B	X	-6.532	1
71	MP3B	Z	11.313	1
72	MP3B	Mx	.007	1
73	MP3C	X	-8.536	1
74	MP3C	Z	14.784	1
75	MP3C	Mx	-.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-23.989	.5
2	MP4A	Z	13.85	.5
3	MP4A	Mx	-.019	.5
4	MP4A	X	-23.989	5.5
5	MP4A	Z	13.85	5.5
6	MP4A	Mx	-.019	5.5
7	MP4B	X	-23.989	.5
8	MP4B	Z	13.85	.5
9	MP4B	Mx	.004	.5
10	MP4B	X	-23.989	5.5
11	MP4B	Z	13.85	5.5
12	MP4B	Mx	.004	5.5
13	MP4C	X	-30.844	.5
14	MP4C	Z	17.808	.5
15	MP4C	Mx	.019	.5
16	MP4C	X	-30.844	5.5
17	MP4C	Z	17.808	5.5
18	MP4C	Mx	.019	5.5
19	MP4A	X	-23.989	.5
20	MP4A	Z	13.85	.5
21	MP4A	Mx	-.004	.5
22	MP4A	X	-23.989	5.5
23	MP4A	Z	13.85	5.5
24	MP4A	Mx	-.004	5.5
25	MP4B	X	-23.989	.5
26	MP4B	Z	13.85	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP4B	Mx	.019	.5
28	MP4B	X	-23.989	5.5
29	MP4B	Z	13.85	5.5
30	MP4B	Mx	.019	5.5
31	MP4C	X	-30.844	.5
32	MP4C	Z	17.808	.5
33	MP4C	Mx	-.019	.5
34	MP4C	X	-30.844	5.5
35	MP4C	Z	17.808	5.5
36	MP4C	Mx	-.019	5.5
37	MP1A	X	-10.729	2
38	MP1A	Z	6.194	2
39	MP1A	Mx	.005	2
40	MP1A	X	-10.729	4
41	MP1A	Z	6.194	4
42	MP1A	Mx	.005	4
43	MP1B	X	-10.729	2
44	MP1B	Z	6.194	2
45	MP1B	Mx	-.005	2
46	MP1B	X	-10.729	4
47	MP1B	Z	6.194	4
48	MP1B	Mx	-.005	4
49	MP1C	X	-18.383	2
50	MP1C	Z	10.613	2
51	MP1C	Mx	0	2
52	MP1C	X	-18.383	4
53	MP1C	Z	10.613	4
54	MP1C	Mx	0	4
55	M62	X	-26.922	1
56	M62	Z	15.543	1
57	M62	Mx	0	1
58	MP4A	X	-11.845	1
59	MP4A	Z	6.839	1
60	MP4A	Mx	-.006	1
61	MP4B	X	-11.845	1
62	MP4B	Z	6.839	1
63	MP4B	Mx	.006	1
64	MP4C	X	-15.941	1
65	MP4C	Z	9.204	1
66	MP4C	Mx	0	1
67	MP3A	X	-12.47	1
68	MP3A	Z	7.2	1
69	MP3A	Mx	-.006	1
70	MP3B	X	-12.47	1
71	MP3B	Z	7.2	1
72	MP3B	Mx	.006	1
73	MP3C	X	-15.941	1
74	MP3C	Z	9.204	1
75	MP3C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-25.062	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	-.013	.5
4	MP4A	X	-25.062	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP4A	Z	0	5.5
6	MP4A	Mx	-.013	5.5
7	MP4B	X	-32.977	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	-.007	.5
10	MP4B	X	-32.977	5.5
11	MP4B	Z	0	5.5
12	MP4B	Mx	-.007	5.5
13	MP4C	X	-32.977	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	.024	.5
16	MP4C	X	-32.977	5.5
17	MP4C	Z	0	5.5
18	MP4C	Mx	.024	5.5
19	MP4A	X	-25.062	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	-.013	.5
22	MP4A	X	-25.062	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	-.013	5.5
25	MP4B	X	-32.977	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	.024	.5
28	MP4B	X	-32.977	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	.024	5.5
31	MP4C	X	-32.977	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	-.007	.5
34	MP4C	X	-32.977	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	-.007	5.5
37	MP1A	X	-9.443	2
38	MP1A	Z	0	2
39	MP1A	Mx	.005	2
40	MP1A	X	-9.443	4
41	MP1A	Z	0	4
42	MP1A	Mx	.005	4
43	MP1B	X	-18.281	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.005	2
46	MP1B	X	-18.281	4
47	MP1B	Z	0	4
48	MP1B	Mx	-.005	4
49	MP1C	X	-18.281	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.005	2
52	MP1C	X	-18.281	4
53	MP1C	Z	0	4
54	MP1C	Mx	-.005	4
55	M62	X	-34.944	1
56	M62	Z	0	1
57	M62	Mx	0	1
58	MP4A	X	-12.101	1
59	MP4A	Z	0	1
60	MP4A	Mx	-.006	1
61	MP4B	X	-16.831	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP4B	Z	0	1
63	MP4B	Mx	.004	1
64	MP4C	X	-16.831	1
65	MP4C	Z	0	1
66	MP4C	Mx	.004	1
67	MP3A	X	-13.063	1
68	MP3A	Z	0	1
69	MP3A	Mx	-.007	1
70	MP3B	X	-17.071	1
71	MP3B	Z	0	1
72	MP3B	Mx	.004	1
73	MP3C	X	-17.071	1
74	MP3C	Z	0	1
75	MP3C	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-23.989	.5
2	MP4A	Z	-13.85	.5
3	MP4A	Mx	-.004	.5
4	MP4A	X	-23.989	5.5
5	MP4A	Z	-13.85	5.5
6	MP4A	Mx	-.004	5.5
7	MP4B	X	-30.844	.5
8	MP4B	Z	-17.808	.5
9	MP4B	Mx	-.019	.5
10	MP4B	X	-30.844	5.5
11	MP4B	Z	-17.808	5.5
12	MP4B	Mx	-.019	5.5
13	MP4C	X	-23.989	.5
14	MP4C	Z	-13.85	.5
15	MP4C	Mx	.019	.5
16	MP4C	X	-23.989	5.5
17	MP4C	Z	-13.85	5.5
18	MP4C	Mx	.019	5.5
19	MP4A	X	-23.989	.5
20	MP4A	Z	-13.85	.5
21	MP4A	Mx	-.019	.5
22	MP4A	X	-23.989	5.5
23	MP4A	Z	-13.85	5.5
24	MP4A	Mx	-.019	5.5
25	MP4B	X	-30.844	.5
26	MP4B	Z	-17.808	.5
27	MP4B	Mx	.019	.5
28	MP4B	X	-30.844	5.5
29	MP4B	Z	-17.808	5.5
30	MP4B	Mx	.019	5.5
31	MP4C	X	-23.989	.5
32	MP4C	Z	-13.85	.5
33	MP4C	Mx	.004	.5
34	MP4C	X	-23.989	5.5
35	MP4C	Z	-13.85	5.5
36	MP4C	Mx	.004	5.5
37	MP1A	X	-10.729	2
38	MP1A	Z	-6.194	2
39	MP1A	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	X	-10.729	4
41	MP1A	Z	-6.194	4
42	MP1A	Mx	.005	4
43	MP1B	X	-18.383	2
44	MP1B	Z	-10.613	2
45	MP1B	Mx	0	2
46	MP1B	X	-18.383	4
47	MP1B	Z	-10.613	4
48	MP1B	Mx	0	4
49	MP1C	X	-10.729	2
50	MP1C	Z	-6.194	2
51	MP1C	Mx	-.005	2
52	MP1C	X	-10.729	4
53	MP1C	Z	-6.194	4
54	MP1C	Mx	-.005	4
55	M62	X	-31.932	1
56	M62	Z	-18.436	1
57	M62	Mx	0	1
58	MP4A	X	-11.845	1
59	MP4A	Z	-6.839	1
60	MP4A	Mx	-.006	1
61	MP4B	X	-15.941	1
62	MP4B	Z	-9.204	1
63	MP4B	Mx	0	1
64	MP4C	X	-11.845	1
65	MP4C	Z	-6.839	1
66	MP4C	Mx	.006	1
67	MP3A	X	-12.47	1
68	MP3A	Z	-7.2	1
69	MP3A	Mx	-.006	1
70	MP3B	X	-15.941	1
71	MP3B	Z	-9.204	1
72	MP3B	Mx	0	1
73	MP3C	X	-12.47	1
74	MP3C	Z	-7.2	1
75	MP3C	Mx	.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-16.489	.5
2	MP4A	Z	-28.559	.5
3	MP4A	Mx	.007	.5
4	MP4A	X	-16.489	5.5
5	MP4A	Z	-28.559	5.5
6	MP4A	Mx	.007	5.5
7	MP4B	X	-16.489	.5
8	MP4B	Z	-28.559	.5
9	MP4B	Mx	-.024	.5
10	MP4B	X	-16.489	5.5
11	MP4B	Z	-28.559	5.5
12	MP4B	Mx	-.024	5.5
13	MP4C	X	-12.531	.5
14	MP4C	Z	-21.704	.5
15	MP4C	Mx	.013	.5
16	MP4C	X	-12.531	5.5
17	MP4C	Z	-21.704	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4C	Mx	.013	5.5
19	MP4A	X	-16.489	.5
20	MP4A	Z	-28.559	.5
21	MP4A	Mx	-.024	.5
22	MP4A	X	-16.489	5.5
23	MP4A	Z	-28.559	5.5
24	MP4A	Mx	-.024	5.5
25	MP4B	X	-16.489	.5
26	MP4B	Z	-28.559	.5
27	MP4B	Mx	.007	.5
28	MP4B	X	-16.489	5.5
29	MP4B	Z	-28.559	5.5
30	MP4B	Mx	.007	5.5
31	MP4C	X	-12.531	.5
32	MP4C	Z	-21.704	.5
33	MP4C	Mx	.013	.5
34	MP4C	X	-12.531	5.5
35	MP4C	Z	-21.704	5.5
36	MP4C	Mx	.013	5.5
37	MP1A	X	-9.14	2
38	MP1A	Z	-15.831	2
39	MP1A	Mx	.005	2
40	MP1A	X	-9.14	4
41	MP1A	Z	-15.831	4
42	MP1A	Mx	.005	4
43	MP1B	X	-9.14	2
44	MP1B	Z	-15.831	2
45	MP1B	Mx	.005	2
46	MP1B	X	-9.14	4
47	MP1B	Z	-15.831	4
48	MP1B	Mx	.005	4
49	MP1C	X	-4.721	2
50	MP1C	Z	-8.178	2
51	MP1C	Mx	-.005	2
52	MP1C	X	-4.721	4
53	MP1C	Z	-8.178	4
54	MP1C	Mx	-.005	4
55	M62	X	-17.472	1
56	M62	Z	-30.262	1
57	M62	Mx	0	1
58	MP4A	X	-8.415	1
59	MP4A	Z	-14.576	1
60	MP4A	Mx	-.004	1
61	MP4B	X	-8.415	1
62	MP4B	Z	-14.576	1
63	MP4B	Mx	-.004	1
64	MP4C	X	-6.051	1
65	MP4C	Z	-10.48	1
66	MP4C	Mx	.006	1
67	MP3A	X	-8.536	1
68	MP3A	Z	-14.784	1
69	MP3A	Mx	-.004	1
70	MP3B	X	-8.536	1
71	MP3B	Z	-14.784	1
72	MP3B	Mx	-.004	1
73	MP3C	X	-6.532	1
74	MP3C	Z	-11.313	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP3C	Mx	.007	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.5
2	MP4A	Z	-11.051	.5
3	MP4A	Mx	.006	.5
4	MP4A	X	0	5.5
5	MP4A	Z	-11.051	5.5
6	MP4A	Mx	.006	5.5
7	MP4B	X	0	.5
8	MP4B	Z	-8.244	.5
9	MP4B	Mx	-.006	.5
10	MP4B	X	0	5.5
11	MP4B	Z	-8.244	5.5
12	MP4B	Mx	-.006	5.5
13	MP4C	X	0	.5
14	MP4C	Z	-8.244	.5
15	MP4C	Mx	.001	.5
16	MP4C	X	0	5.5
17	MP4C	Z	-8.244	5.5
18	MP4C	Mx	.001	5.5
19	MP4A	X	0	.5
20	MP4A	Z	-11.051	.5
21	MP4A	Mx	-.006	.5
22	MP4A	X	0	5.5
23	MP4A	Z	-11.051	5.5
24	MP4A	Mx	-.006	5.5
25	MP4B	X	0	.5
26	MP4B	Z	-8.244	.5
27	MP4B	Mx	-.001	.5
28	MP4B	X	0	5.5
29	MP4B	Z	-8.244	5.5
30	MP4B	Mx	-.001	5.5
31	MP4C	X	0	.5
32	MP4C	Z	-8.244	.5
33	MP4C	Mx	.006	.5
34	MP4C	X	0	5.5
35	MP4C	Z	-8.244	5.5
36	MP4C	Mx	.006	5.5
37	MP1A	X	0	2
38	MP1A	Z	-6.365	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	-6.365	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	-3.46	2
45	MP1B	Mx	.001	2
46	MP1B	X	0	4
47	MP1B	Z	-3.46	4
48	MP1B	Mx	.001	4
49	MP1C	X	0	2
50	MP1C	Z	-3.46	2
51	MP1C	Mx	-.001	2
52	MP1C	X	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP1C	Z	-3.46	4
54	MP1C	Mx	-.001	4
55	M62	X	0	1
56	M62	Z	-9.042	1
57	M62	Mx	0	1
58	MP4A	X	0	1
59	MP4A	Z	-5.065	1
60	MP4A	Mx	0	1
61	MP4B	X	0	1
62	MP4B	Z	-3.577	1
63	MP4B	Mx	-.002	1
64	MP4C	X	0	1
65	MP4C	Z	-3.577	1
66	MP4C	Mx	.002	1
67	MP3A	X	0	1
68	MP3A	Z	-5.065	1
69	MP3A	Mx	0	1
70	MP3B	X	0	1
71	MP3B	Z	-3.806	1
72	MP3B	Mx	-.002	1
73	MP3C	X	0	1
74	MP3C	Z	-3.806	1
75	MP3C	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	5.058	.5
2	MP4A	Z	-8.76	.5
3	MP4A	Mx	.007	.5
4	MP4A	X	5.058	5.5
5	MP4A	Z	-8.76	5.5
6	MP4A	Mx	.007	5.5
7	MP4B	X	3.654	.5
8	MP4B	Z	-6.329	.5
9	MP4B	Mx	-.004	.5
10	MP4B	X	3.654	5.5
11	MP4B	Z	-6.329	5.5
12	MP4B	Mx	-.004	5.5
13	MP4C	X	5.058	.5
14	MP4C	Z	-8.76	.5
15	MP4C	Mx	-.002	.5
16	MP4C	X	5.058	5.5
17	MP4C	Z	-8.76	5.5
18	MP4C	Mx	-.002	5.5
19	MP4A	X	5.058	.5
20	MP4A	Z	-8.76	.5
21	MP4A	Mx	-.002	.5
22	MP4A	X	5.058	5.5
23	MP4A	Z	-8.76	5.5
24	MP4A	Mx	-.002	5.5
25	MP4B	X	3.654	.5
26	MP4B	Z	-6.329	.5
27	MP4B	Mx	-.004	.5
28	MP4B	X	3.654	5.5
29	MP4B	Z	-6.329	5.5
30	MP4B	Mx	-.004	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP4C	X	5.058	.5
32	MP4C	Z	-8.76	.5
33	MP4C	Mx	.007	.5
34	MP4C	X	5.058	5.5
35	MP4C	Z	-8.76	5.5
36	MP4C	Mx	.007	5.5
37	MP1A	X	2.698	2
38	MP1A	Z	-4.674	2
39	MP1A	Mx	-.001	2
40	MP1A	X	2.698	4
41	MP1A	Z	-4.674	4
42	MP1A	Mx	-.001	4
43	MP1B	X	1.246	2
44	MP1B	Z	-2.158	2
45	MP1B	Mx	.001	2
46	MP1B	X	1.246	4
47	MP1B	Z	-2.158	4
48	MP1B	Mx	.001	4
49	MP1C	X	2.698	2
50	MP1C	Z	-4.674	2
51	MP1C	Mx	-.001	2
52	MP1C	X	2.698	4
53	MP1C	Z	-4.674	4
54	MP1C	Mx	-.001	4
55	M62	X	4.195	1
56	M62	Z	-7.266	1
57	M62	Mx	0	1
58	MP4A	X	2.285	1
59	MP4A	Z	-3.957	1
60	MP4A	Mx	.001	1
61	MP4B	X	1.541	1
62	MP4B	Z	-2.668	1
63	MP4B	Mx	-.002	1
64	MP4C	X	2.285	1
65	MP4C	Z	-3.957	1
66	MP4C	Mx	.001	1
67	MP3A	X	2.323	1
68	MP3A	Z	-4.023	1
69	MP3A	Mx	.001	1
70	MP3B	X	1.693	1
71	MP3B	Z	-2.932	1
72	MP3B	Mx	-.002	1
73	MP3C	X	2.323	1
74	MP3C	Z	-4.023	1
75	MP3C	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	7.139	.5
2	MP4A	Z	-4.122	.5
3	MP4A	Mx	.006	.5
4	MP4A	X	7.139	5.5
5	MP4A	Z	-4.122	5.5
6	MP4A	Mx	.006	5.5
7	MP4B	X	7.139	.5
8	MP4B	Z	-4.122	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP4B	Mx	-.001	.5
10	MP4B	X	7.139	5.5
11	MP4B	Z	-4.122	5.5
12	MP4B	Mx	-.001	5.5
13	MP4C	X	9.571	.5
14	MP4C	Z	-5.526	.5
15	MP4C	Mx	-.006	.5
16	MP4C	X	9.571	5.5
17	MP4C	Z	-5.526	5.5
18	MP4C	Mx	-.006	5.5
19	MP4A	X	7.139	.5
20	MP4A	Z	-4.122	.5
21	MP4A	Mx	.001	.5
22	MP4A	X	7.139	5.5
23	MP4A	Z	-4.122	5.5
24	MP4A	Mx	.001	5.5
25	MP4B	X	7.139	.5
26	MP4B	Z	-4.122	.5
27	MP4B	Mx	-.006	.5
28	MP4B	X	7.139	5.5
29	MP4B	Z	-4.122	5.5
30	MP4B	Mx	-.006	5.5
31	MP4C	X	9.571	.5
32	MP4C	Z	-5.526	.5
33	MP4C	Mx	.006	.5
34	MP4C	X	9.571	5.5
35	MP4C	Z	-5.526	5.5
36	MP4C	Mx	.006	5.5
37	MP1A	X	2.997	2
38	MP1A	Z	-1.73	2
39	MP1A	Mx	-.001	2
40	MP1A	X	2.997	4
41	MP1A	Z	-1.73	4
42	MP1A	Mx	-.001	4
43	MP1B	X	2.997	2
44	MP1B	Z	-1.73	2
45	MP1B	Mx	.001	2
46	MP1B	X	2.997	4
47	MP1B	Z	-1.73	4
48	MP1B	Mx	.001	4
49	MP1C	X	5.512	2
50	MP1C	Z	-3.183	2
51	MP1C	Mx	0	2
52	MP1C	X	5.512	4
53	MP1C	Z	-3.183	4
54	MP1C	Mx	0	4
55	M62	X	7.83	1
56	M62	Z	-4.521	1
57	M62	Mx	0	1
58	MP4A	X	3.098	1
59	MP4A	Z	-1.789	1
60	MP4A	Mx	.002	1
61	MP4B	X	3.098	1
62	MP4B	Z	-1.789	1
63	MP4B	Mx	-.002	1
64	MP4C	X	4.387	1
65	MP4C	Z	-2.533	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP4C	Mx	0	1
67	MP3A	X	3.296	1
68	MP3A	Z	-1.903	1
69	MP3A	Mx	.002	1
70	MP3B	X	3.296	1
71	MP3B	Z	-1.903	1
72	MP3B	Mx	-.002	1
73	MP3C	X	4.387	1
74	MP3C	Z	-2.533	1
75	MP3C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	7.308	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	.004	.5
4	MP4A	X	7.308	5.5
5	MP4A	Z	0	5.5
6	MP4A	Mx	.004	5.5
7	MP4B	X	10.115	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	.002	.5
10	MP4B	X	10.115	5.5
11	MP4B	Z	0	5.5
12	MP4B	Mx	.002	5.5
13	MP4C	X	10.115	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	-.007	.5
16	MP4C	X	10.115	5.5
17	MP4C	Z	0	5.5
18	MP4C	Mx	-.007	5.5
19	MP4A	X	7.308	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	.004	.5
22	MP4A	X	7.308	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	.004	5.5
25	MP4B	X	10.115	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	-.007	.5
28	MP4B	X	10.115	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	-.007	5.5
31	MP4C	X	10.115	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	.002	.5
34	MP4C	X	10.115	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	.002	5.5
37	MP1A	X	2.492	2
38	MP1A	Z	0	2
39	MP1A	Mx	-.001	2
40	MP1A	X	2.492	4
41	MP1A	Z	0	4
42	MP1A	Mx	-.001	4
43	MP1B	X	5.397	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1B	Z	0	2
45	MP1B	Mx	.001	2
46	MP1B	X	5.397	4
47	MP1B	Z	0	4
48	MP1B	Mx	.001	4
49	MP1C	X	5.397	2
50	MP1C	Z	0	2
51	MP1C	Mx	.001	2
52	MP1C	X	5.397	4
53	MP1C	Z	0	4
54	MP1C	Mx	.001	4
55	M62	X	10.345	1
56	M62	Z	0	1
57	M62	Mx	0	1
58	MP4A	X	3.081	1
59	MP4A	Z	0	1
60	MP4A	Mx	.002	1
61	MP4B	X	4.569	1
62	MP4B	Z	0	1
63	MP4B	Mx	-.001	1
64	MP4C	X	4.569	1
65	MP4C	Z	0	1
66	MP4C	Mx	-.001	1
67	MP3A	X	3.386	1
68	MP3A	Z	0	1
69	MP3A	Mx	.002	1
70	MP3B	X	4.645	1
71	MP3B	Z	0	1
72	MP3B	Mx	-.001	1
73	MP3C	X	4.645	1
74	MP3C	Z	0	1
75	MP3C	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	7.139	.5
2	MP4A	Z	4.122	.5
3	MP4A	Mx	.001	.5
4	MP4A	X	7.139	5.5
5	MP4A	Z	4.122	5.5
6	MP4A	Mx	.001	5.5
7	MP4B	X	9.571	.5
8	MP4B	Z	5.526	.5
9	MP4B	Mx	.006	.5
10	MP4B	X	9.571	5.5
11	MP4B	Z	5.526	5.5
12	MP4B	Mx	.006	5.5
13	MP4C	X	7.139	.5
14	MP4C	Z	4.122	.5
15	MP4C	Mx	-.006	.5
16	MP4C	X	7.139	5.5
17	MP4C	Z	4.122	5.5
18	MP4C	Mx	-.006	5.5
19	MP4A	X	7.139	.5
20	MP4A	Z	4.122	.5
21	MP4A	Mx	.006	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	7.139	5.5
23	MP4A	Z	4.122	5.5
24	MP4A	Mx	.006	5.5
25	MP4B	X	9.571	.5
26	MP4B	Z	5.526	.5
27	MP4B	Mx	-.006	.5
28	MP4B	X	9.571	5.5
29	MP4B	Z	5.526	5.5
30	MP4B	Mx	-.006	5.5
31	MP4C	X	7.139	.5
32	MP4C	Z	4.122	.5
33	MP4C	Mx	-.001	.5
34	MP4C	X	7.139	5.5
35	MP4C	Z	4.122	5.5
36	MP4C	Mx	-.001	5.5
37	MP1A	X	2.997	2
38	MP1A	Z	1.73	2
39	MP1A	Mx	-.001	2
40	MP1A	X	2.997	4
41	MP1A	Z	1.73	4
42	MP1A	Mx	-.001	4
43	MP1B	X	5.512	2
44	MP1B	Z	3.183	2
45	MP1B	Mx	0	2
46	MP1B	X	5.512	4
47	MP1B	Z	3.183	4
48	MP1B	Mx	0	4
49	MP1C	X	2.997	2
50	MP1C	Z	1.73	2
51	MP1C	Mx	.001	2
52	MP1C	X	2.997	4
53	MP1C	Z	1.73	4
54	MP1C	Mx	.001	4
55	M62	X	9.524	1
56	M62	Z	5.498	1
57	M62	Mx	0	1
58	MP4A	X	3.098	1
59	MP4A	Z	1.789	1
60	MP4A	Mx	.002	1
61	MP4B	X	4.387	1
62	MP4B	Z	2.533	1
63	MP4B	Mx	0	1
64	MP4C	X	3.098	1
65	MP4C	Z	1.789	1
66	MP4C	Mx	-.002	1
67	MP3A	X	3.296	1
68	MP3A	Z	1.903	1
69	MP3A	Mx	.002	1
70	MP3B	X	4.387	1
71	MP3B	Z	2.533	1
72	MP3B	Mx	0	1
73	MP3C	X	3.296	1
74	MP3C	Z	1.903	1
75	MP3C	Mx	-.002	1

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	5.058	.5
2	MP4A	Z	8.76	.5
3	MP4A	Mx	-.002	.5
4	MP4A	X	5.058	5.5
5	MP4A	Z	8.76	5.5
6	MP4A	Mx	-.002	5.5
7	MP4B	X	5.058	.5
8	MP4B	Z	8.76	.5
9	MP4B	Mx	.007	.5
10	MP4B	X	5.058	5.5
11	MP4B	Z	8.76	5.5
12	MP4B	Mx	.007	5.5
13	MP4C	X	3.654	.5
14	MP4C	Z	6.329	.5
15	MP4C	Mx	-.004	.5
16	MP4C	X	3.654	5.5
17	MP4C	Z	6.329	5.5
18	MP4C	Mx	-.004	5.5
19	MP4A	X	5.058	.5
20	MP4A	Z	8.76	.5
21	MP4A	Mx	.007	.5
22	MP4A	X	5.058	5.5
23	MP4A	Z	8.76	5.5
24	MP4A	Mx	.007	5.5
25	MP4B	X	5.058	.5
26	MP4B	Z	8.76	.5
27	MP4B	Mx	-.002	.5
28	MP4B	X	5.058	5.5
29	MP4B	Z	8.76	5.5
30	MP4B	Mx	-.002	5.5
31	MP4C	X	3.654	.5
32	MP4C	Z	6.329	.5
33	MP4C	Mx	-.004	.5
34	MP4C	X	3.654	5.5
35	MP4C	Z	6.329	5.5
36	MP4C	Mx	-.004	5.5
37	MP1A	X	2.698	2
38	MP1A	Z	4.674	2
39	MP1A	Mx	-.001	2
40	MP1A	X	2.698	4
41	MP1A	Z	4.674	4
42	MP1A	Mx	-.001	4
43	MP1B	X	2.698	2
44	MP1B	Z	4.674	2
45	MP1B	Mx	-.001	2
46	MP1B	X	2.698	4
47	MP1B	Z	4.674	4
48	MP1B	Mx	-.001	4
49	MP1C	X	1.246	2
50	MP1C	Z	2.158	2
51	MP1C	Mx	.001	2
52	MP1C	X	1.246	4
53	MP1C	Z	2.158	4
54	MP1C	Mx	.001	4
55	M62	X	5.173	1
56	M62	Z	8.959	1
57	M62	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	2.285	1
59	MP4A	Z	3.957	1
60	MP4A	Mx	.001	1
61	MP4B	X	2.285	1
62	MP4B	Z	3.957	1
63	MP4B	Mx	.001	1
64	MP4C	X	1.541	1
65	MP4C	Z	2.668	1
66	MP4C	Mx	-.002	1
67	MP3A	X	2.323	1
68	MP3A	Z	4.023	1
69	MP3A	Mx	.001	1
70	MP3B	X	2.323	1
71	MP3B	Z	4.023	1
72	MP3B	Mx	.001	1
73	MP3C	X	1.693	1
74	MP3C	Z	2.932	1
75	MP3C	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.5
2	MP4A	Z	11.051	.5
3	MP4A	Mx	-.006	.5
4	MP4A	X	0	5.5
5	MP4A	Z	11.051	5.5
6	MP4A	Mx	-.006	5.5
7	MP4B	X	0	.5
8	MP4B	Z	8.244	.5
9	MP4B	Mx	.006	.5
10	MP4B	X	0	5.5
11	MP4B	Z	8.244	5.5
12	MP4B	Mx	.006	5.5
13	MP4C	X	0	.5
14	MP4C	Z	8.244	.5
15	MP4C	Mx	-.001	.5
16	MP4C	X	0	5.5
17	MP4C	Z	8.244	5.5
18	MP4C	Mx	-.001	5.5
19	MP4A	X	0	.5
20	MP4A	Z	11.051	.5
21	MP4A	Mx	.006	.5
22	MP4A	X	0	5.5
23	MP4A	Z	11.051	5.5
24	MP4A	Mx	.006	5.5
25	MP4B	X	0	.5
26	MP4B	Z	8.244	.5
27	MP4B	Mx	.001	.5
28	MP4B	X	0	5.5
29	MP4B	Z	8.244	5.5
30	MP4B	Mx	.001	5.5
31	MP4C	X	0	.5
32	MP4C	Z	8.244	.5
33	MP4C	Mx	-.006	.5
34	MP4C	X	0	5.5
35	MP4C	Z	8.244	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP4C	Mx	-.006	5.5
37	MP1A	X	0	2
38	MP1A	Z	6.365	2
39	MP1A	Mx	0	2
40	MP1A	X	0	4
41	MP1A	Z	6.365	4
42	MP1A	Mx	0	4
43	MP1B	X	0	2
44	MP1B	Z	3.46	2
45	MP1B	Mx	-.001	2
46	MP1B	X	0	4
47	MP1B	Z	3.46	4
48	MP1B	Mx	-.001	4
49	MP1C	X	0	2
50	MP1C	Z	3.46	2
51	MP1C	Mx	.001	2
52	MP1C	X	0	4
53	MP1C	Z	3.46	4
54	MP1C	Mx	.001	4
55	M62	X	0	1
56	M62	Z	9.042	1
57	M62	Mx	0	1
58	MP4A	X	0	1
59	MP4A	Z	5.065	1
60	MP4A	Mx	0	1
61	MP4B	X	0	1
62	MP4B	Z	3.577	1
63	MP4B	Mx	.002	1
64	MP4C	X	0	1
65	MP4C	Z	3.577	1
66	MP4C	Mx	-.002	1
67	MP3A	X	0	1
68	MP3A	Z	5.065	1
69	MP3A	Mx	0	1
70	MP3B	X	0	1
71	MP3B	Z	3.806	1
72	MP3B	Mx	.002	1
73	MP3C	X	0	1
74	MP3C	Z	3.806	1
75	MP3C	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-5.058	.5
2	MP4A	Z	8.76	.5
3	MP4A	Mx	-.007	.5
4	MP4A	X	-5.058	5.5
5	MP4A	Z	8.76	5.5
6	MP4A	Mx	-.007	5.5
7	MP4B	X	-3.654	.5
8	MP4B	Z	6.329	.5
9	MP4B	Mx	.004	.5
10	MP4B	X	-3.654	5.5
11	MP4B	Z	6.329	5.5
12	MP4B	Mx	.004	5.5
13	MP4C	X	-5.058	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP4C	Z	8.76	.5
15	MP4C	Mx	.002	.5
16	MP4C	X	-5.058	5.5
17	MP4C	Z	8.76	5.5
18	MP4C	Mx	.002	5.5
19	MP4A	X	-5.058	.5
20	MP4A	Z	8.76	.5
21	MP4A	Mx	.002	.5
22	MP4A	X	-5.058	5.5
23	MP4A	Z	8.76	5.5
24	MP4A	Mx	.002	5.5
25	MP4B	X	-3.654	.5
26	MP4B	Z	6.329	.5
27	MP4B	Mx	.004	.5
28	MP4B	X	-3.654	5.5
29	MP4B	Z	6.329	5.5
30	MP4B	Mx	.004	5.5
31	MP4C	X	-5.058	.5
32	MP4C	Z	8.76	.5
33	MP4C	Mx	-.007	.5
34	MP4C	X	-5.058	5.5
35	MP4C	Z	8.76	5.5
36	MP4C	Mx	-.007	5.5
37	MP1A	X	-2.698	2
38	MP1A	Z	4.674	2
39	MP1A	Mx	.001	2
40	MP1A	X	-2.698	4
41	MP1A	Z	4.674	4
42	MP1A	Mx	.001	4
43	MP1B	X	-1.246	2
44	MP1B	Z	2.158	2
45	MP1B	Mx	-.001	2
46	MP1B	X	-1.246	4
47	MP1B	Z	2.158	4
48	MP1B	Mx	-.001	4
49	MP1C	X	-2.698	2
50	MP1C	Z	4.674	2
51	MP1C	Mx	.001	2
52	MP1C	X	-2.698	4
53	MP1C	Z	4.674	4
54	MP1C	Mx	.001	4
55	M62	X	-4.195	1
56	M62	Z	7.266	1
57	M62	Mx	0	1
58	MP4A	X	-2.285	1
59	MP4A	Z	3.957	1
60	MP4A	Mx	-.001	1
61	MP4B	X	-1.541	1
62	MP4B	Z	2.668	1
63	MP4B	Mx	.002	1
64	MP4C	X	-2.285	1
65	MP4C	Z	3.957	1
66	MP4C	Mx	-.001	1
67	MP3A	X	-2.323	1
68	MP3A	Z	4.023	1
69	MP3A	Mx	-.001	1
70	MP3B	X	-1.693	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP3B	Z	2.932	1
72	MP3B	Mx	.002	1
73	MP3C	X	-2.323	1
74	MP3C	Z	4.023	1
75	MP3C	Mx	-.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-7.139	.5
2	MP4A	Z	4.122	.5
3	MP4A	Mx	-.006	.5
4	MP4A	X	-7.139	5.5
5	MP4A	Z	4.122	5.5
6	MP4A	Mx	-.006	5.5
7	MP4B	X	-7.139	.5
8	MP4B	Z	4.122	.5
9	MP4B	Mx	.001	.5
10	MP4B	X	-7.139	5.5
11	MP4B	Z	4.122	5.5
12	MP4B	Mx	.001	5.5
13	MP4C	X	-9.571	.5
14	MP4C	Z	5.526	.5
15	MP4C	Mx	.006	.5
16	MP4C	X	-9.571	5.5
17	MP4C	Z	5.526	5.5
18	MP4C	Mx	.006	5.5
19	MP4A	X	-7.139	.5
20	MP4A	Z	4.122	.5
21	MP4A	Mx	-.001	.5
22	MP4A	X	-7.139	5.5
23	MP4A	Z	4.122	5.5
24	MP4A	Mx	-.001	5.5
25	MP4B	X	-7.139	.5
26	MP4B	Z	4.122	.5
27	MP4B	Mx	.006	.5
28	MP4B	X	-7.139	5.5
29	MP4B	Z	4.122	5.5
30	MP4B	Mx	.006	5.5
31	MP4C	X	-9.571	.5
32	MP4C	Z	5.526	.5
33	MP4C	Mx	-.006	.5
34	MP4C	X	-9.571	5.5
35	MP4C	Z	5.526	5.5
36	MP4C	Mx	-.006	5.5
37	MP1A	X	-2.997	2
38	MP1A	Z	1.73	2
39	MP1A	Mx	.001	2
40	MP1A	X	-2.997	4
41	MP1A	Z	1.73	4
42	MP1A	Mx	.001	4
43	MP1B	X	-2.997	2
44	MP1B	Z	1.73	2
45	MP1B	Mx	-.001	2
46	MP1B	X	-2.997	4
47	MP1B	Z	1.73	4
48	MP1B	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP1C	X	-5.512	2
50	MP1C	Z	3.183	2
51	MP1C	Mx	0	2
52	MP1C	X	-5.512	4
53	MP1C	Z	3.183	4
54	MP1C	Mx	0	4
55	M62	X	-7.83	1
56	M62	Z	4.521	1
57	M62	Mx	0	1
58	MP4A	X	-3.098	1
59	MP4A	Z	1.789	1
60	MP4A	Mx	-.002	1
61	MP4B	X	-3.098	1
62	MP4B	Z	1.789	1
63	MP4B	Mx	.002	1
64	MP4C	X	-4.387	1
65	MP4C	Z	2.533	1
66	MP4C	Mx	0	1
67	MP3A	X	-3.296	1
68	MP3A	Z	1.903	1
69	MP3A	Mx	-.002	1
70	MP3B	X	-3.296	1
71	MP3B	Z	1.903	1
72	MP3B	Mx	.002	1
73	MP3C	X	-4.387	1
74	MP3C	Z	2.533	1
75	MP3C	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-7.308	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	-.004	.5
4	MP4A	X	-7.308	5.5
5	MP4A	Z	0	5.5
6	MP4A	Mx	-.004	5.5
7	MP4B	X	-10.115	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	-.002	.5
10	MP4B	X	-10.115	5.5
11	MP4B	Z	0	5.5
12	MP4B	Mx	-.002	5.5
13	MP4C	X	-10.115	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	.007	.5
16	MP4C	X	-10.115	5.5
17	MP4C	Z	0	5.5
18	MP4C	Mx	.007	5.5
19	MP4A	X	-7.308	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	-.004	.5
22	MP4A	X	-7.308	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	-.004	5.5
25	MP4B	X	-10.115	.5
26	MP4B	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP4B	Mx	.007	.5
28	MP4B	X	-10.115	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	.007	5.5
31	MP4C	X	-10.115	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	-.002	.5
34	MP4C	X	-10.115	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	-.002	5.5
37	MP1A	X	-2.492	2
38	MP1A	Z	0	2
39	MP1A	Mx	.001	2
40	MP1A	X	-2.492	4
41	MP1A	Z	0	4
42	MP1A	Mx	.001	4
43	MP1B	X	-5.397	2
44	MP1B	Z	0	2
45	MP1B	Mx	-.001	2
46	MP1B	X	-5.397	4
47	MP1B	Z	0	4
48	MP1B	Mx	-.001	4
49	MP1C	X	-5.397	2
50	MP1C	Z	0	2
51	MP1C	Mx	-.001	2
52	MP1C	X	-5.397	4
53	MP1C	Z	0	4
54	MP1C	Mx	-.001	4
55	M62	X	-10.345	1
56	M62	Z	0	1
57	M62	Mx	0	1
58	MP4A	X	-3.081	1
59	MP4A	Z	0	1
60	MP4A	Mx	-.002	1
61	MP4B	X	-4.569	1
62	MP4B	Z	0	1
63	MP4B	Mx	.001	1
64	MP4C	X	-4.569	1
65	MP4C	Z	0	1
66	MP4C	Mx	.001	1
67	MP3A	X	-3.386	1
68	MP3A	Z	0	1
69	MP3A	Mx	-.002	1
70	MP3B	X	-4.645	1
71	MP3B	Z	0	1
72	MP3B	Mx	.001	1
73	MP3C	X	-4.645	1
74	MP3C	Z	0	1
75	MP3C	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-7.139	.5
2	MP4A	Z	-4.122	.5
3	MP4A	Mx	-.001	.5
4	MP4A	X	-7.139	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP4A	Z	-4.122	5.5
6	MP4A	Mx	-.001	5.5
7	MP4B	X	-9.571	.5
8	MP4B	Z	-5.526	.5
9	MP4B	Mx	-.006	.5
10	MP4B	X	-9.571	5.5
11	MP4B	Z	-5.526	5.5
12	MP4B	Mx	-.006	5.5
13	MP4C	X	-7.139	.5
14	MP4C	Z	-4.122	.5
15	MP4C	Mx	.006	.5
16	MP4C	X	-7.139	5.5
17	MP4C	Z	-4.122	5.5
18	MP4C	Mx	.006	5.5
19	MP4A	X	-7.139	.5
20	MP4A	Z	-4.122	.5
21	MP4A	Mx	-.006	.5
22	MP4A	X	-7.139	5.5
23	MP4A	Z	-4.122	5.5
24	MP4A	Mx	-.006	5.5
25	MP4B	X	-9.571	.5
26	MP4B	Z	-5.526	.5
27	MP4B	Mx	.006	.5
28	MP4B	X	-9.571	5.5
29	MP4B	Z	-5.526	5.5
30	MP4B	Mx	.006	5.5
31	MP4C	X	-7.139	.5
32	MP4C	Z	-4.122	.5
33	MP4C	Mx	.001	.5
34	MP4C	X	-7.139	5.5
35	MP4C	Z	-4.122	5.5
36	MP4C	Mx	.001	5.5
37	MP1A	X	-2.997	2
38	MP1A	Z	-1.73	2
39	MP1A	Mx	.001	2
40	MP1A	X	-2.997	4
41	MP1A	Z	-1.73	4
42	MP1A	Mx	.001	4
43	MP1B	X	-5.512	2
44	MP1B	Z	-3.183	2
45	MP1B	Mx	0	2
46	MP1B	X	-5.512	4
47	MP1B	Z	-3.183	4
48	MP1B	Mx	0	4
49	MP1C	X	-2.997	2
50	MP1C	Z	-1.73	2
51	MP1C	Mx	-.001	2
52	MP1C	X	-2.997	4
53	MP1C	Z	-1.73	4
54	MP1C	Mx	-.001	4
55	M62	X	-9.524	1
56	M62	Z	-5.498	1
57	M62	Mx	0	1
58	MP4A	X	-3.098	1
59	MP4A	Z	-1.789	1
60	MP4A	Mx	-.002	1
61	MP4B	X	-4.387	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP4B	Z	-2.533	1
63	MP4B	Mx	0	1
64	MP4C	X	-3.098	1
65	MP4C	Z	-1.789	1
66	MP4C	Mx	.002	1
67	MP3A	X	-3.296	1
68	MP3A	Z	-1.903	1
69	MP3A	Mx	-.002	1
70	MP3B	X	-4.387	1
71	MP3B	Z	-2.533	1
72	MP3B	Mx	0	1
73	MP3C	X	-3.296	1
74	MP3C	Z	-1.903	1
75	MP3C	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-5.058	.5
2	MP4A	Z	-8.76	.5
3	MP4A	Mx	.002	.5
4	MP4A	X	-5.058	5.5
5	MP4A	Z	-8.76	5.5
6	MP4A	Mx	.002	5.5
7	MP4B	X	-5.058	.5
8	MP4B	Z	-8.76	.5
9	MP4B	Mx	-.007	.5
10	MP4B	X	-5.058	5.5
11	MP4B	Z	-8.76	5.5
12	MP4B	Mx	-.007	5.5
13	MP4C	X	-3.654	.5
14	MP4C	Z	-6.329	.5
15	MP4C	Mx	.004	.5
16	MP4C	X	-3.654	5.5
17	MP4C	Z	-6.329	5.5
18	MP4C	Mx	.004	5.5
19	MP4A	X	-5.058	.5
20	MP4A	Z	-8.76	.5
21	MP4A	Mx	-.007	.5
22	MP4A	X	-5.058	5.5
23	MP4A	Z	-8.76	5.5
24	MP4A	Mx	-.007	5.5
25	MP4B	X	-5.058	.5
26	MP4B	Z	-8.76	.5
27	MP4B	Mx	.002	.5
28	MP4B	X	-5.058	5.5
29	MP4B	Z	-8.76	5.5
30	MP4B	Mx	.002	5.5
31	MP4C	X	-3.654	.5
32	MP4C	Z	-6.329	.5
33	MP4C	Mx	.004	.5
34	MP4C	X	-3.654	5.5
35	MP4C	Z	-6.329	5.5
36	MP4C	Mx	.004	5.5
37	MP1A	X	-2.698	2
38	MP1A	Z	-4.674	2
39	MP1A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP1A	X	-2.698	4
41	MP1A	Z	-4.674	4
42	MP1A	Mx	.001	4
43	MP1B	X	-2.698	2
44	MP1B	Z	-4.674	2
45	MP1B	Mx	.001	2
46	MP1B	X	-2.698	4
47	MP1B	Z	-4.674	4
48	MP1B	Mx	.001	4
49	MP1C	X	-1.246	2
50	MP1C	Z	-2.158	2
51	MP1C	Mx	-.001	2
52	MP1C	X	-1.246	4
53	MP1C	Z	-2.158	4
54	MP1C	Mx	-.001	4
55	M62	X	-5.173	1
56	M62	Z	-8.959	1
57	M62	Mx	0	1
58	MP4A	X	-2.285	1
59	MP4A	Z	-3.957	1
60	MP4A	Mx	-.001	1
61	MP4B	X	-2.285	1
62	MP4B	Z	-3.957	1
63	MP4B	Mx	-.001	1
64	MP4C	X	-1.541	1
65	MP4C	Z	-2.668	1
66	MP4C	Mx	.002	1
67	MP3A	X	-2.323	1
68	MP3A	Z	-4.023	1
69	MP3A	Mx	-.001	1
70	MP3B	X	-2.323	1
71	MP3B	Z	-4.023	1
72	MP3B	Mx	-.001	1
73	MP3C	X	-1.693	1
74	MP3C	Z	-2.932	1
75	MP3C	Mx	.002	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M35	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M32	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M73	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M73	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	Y	-19.215	-19.215	0	%100
2	M76	Y	-15.884	-15.884	0	%100
3	M77	Y	-16.841	-16.841	0	%100
4	M78	Y	-8.85	-8.85	0	%100
5	M79	Y	-8.85	-8.85	0	%100
6	M84	Y	-20.925	-20.925	0	%100
7	M85	Y	-15.884	-15.884	0	%100
8	M86	Y	-16.841	-16.841	0	%100
9	M87	Y	-8.85	-8.85	0	%100
10	M88	Y	-8.85	-8.85	0	%100
11	M93	Y	-20.925	-20.925	0	%100
12	M94	Y	-15.884	-15.884	0	%100
13	M95	Y	-16.841	-16.841	0	%100
14	M96	Y	-8.85	-8.85	0	%100
15	M97	Y	-8.85	-8.85	0	%100
16	M102	Y	-20.925	-20.925	0	%100
17	M71	Y	-19.215	-19.215	0	%100
18	M72	Y	-19.215	-19.215	0	%100
19	MP5A	Y	-8.85	-8.85	0	%100
20	MP1A	Y	-8.85	-8.85	0	%100
21	MP4A	Y	-8.85	-8.85	0	%100
22	MP2A	Y	-8.85	-8.85	0	%100
23	MP3A	Y	-8.85	-8.85	0	%100
24	MP5C	Y	-8.85	-8.85	0	%100
25	MP1C	Y	-8.85	-8.85	0	%100
26	MP4C	Y	-8.85	-8.85	0	%100
27	MP2C	Y	-8.85	-8.85	0	%100
28	MP3C	Y	-8.85	-8.85	0	%100
29	MP5B	Y	-8.85	-8.85	0	%100
30	MP1B	Y	-8.85	-8.85	0	%100
31	MP4B	Y	-8.85	-8.85	0	%100
32	MP2B	Y	-8.85	-8.85	0	%100
33	MP3B	Y	-8.85	-8.85	0	%100
34	M62	Y	-8.85	-8.85	0	%100
35	M63	Y	-9.922	-9.922	0	%100
36	M65	Y	-9.922	-9.922	0	%100
37	M66	Y	-9.922	-9.922	0	%100
38	M87A	Y	-12.853	-12.853	0	%100
39	M90A	Y	-12.853	-12.853	0	%100
40	M91A	Y	-12.853	-12.853	0	%100
41	M92A	Y	-12.853	-12.853	0	%100
42	M90B	Y	-12.853	-12.853	0	%100
43	M93B	Y	-12.853	-12.853	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	-39.802	-39.802	0	%100
3	M76	X	0	0	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	-18.913	-18.913	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	-5.514	-5.514	0	%100
9	M79	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
10	M79	Z	-5.514	-5.514	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	-1.493	-1.493	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	-12.26	-12.26	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	-4.728	-4.728	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	-1.379	-1.379	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	-1.379	-1.379	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	-.373	-.373	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	-12.26	-12.26	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	-4.728	-4.728	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	-1.379	-1.379	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	-1.379	-1.379	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	-.373	-.373	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	-9.95	-9.95	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	-9.95	-9.95	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	-9.453	-9.453	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-9.453	-9.453	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-9.453	-9.453	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	-9.453	-9.453	0	%100
45	MP3A	X	0	0	0	%100
46	MP3A	Z	-9.453	-9.453	0	%100
47	MP5C	X	0	0	0	%100
48	MP5C	Z	-9.453	-9.453	0	%100
49	MP1C	X	0	0	0	%100
50	MP1C	Z	-9.453	-9.453	0	%100
51	MP4C	X	0	0	0	%100
52	MP4C	Z	-9.453	-9.453	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	-9.453	-9.453	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	-9.453	-9.453	0	%100
57	MP5B	X	0	0	0	%100
58	MP5B	Z	-9.453	-9.453	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	-9.453	-9.453	0	%100
61	MP4B	X	0	0	0	%100
62	MP4B	Z	-9.453	-9.453	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-9.453	-9.453	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	-9.453	-9.453	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
67	M62	X	0	0	0	%100
68	M62	Z	-6.993	-6.993	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	-11.443	-11.443	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	-2.861	-2.861	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	-2.861	-2.861	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	-3.475	-3.475	0	%100
77	M90A	X	0	0	0	%100
78	M90A	Z	-9.909	-9.909	0	%100
79	M91A	X	0	0	0	%100
80	M91A	Z	-15.07	-15.07	0	%100
81	M92A	X	0	0	0	%100
82	M92A	Z	-15.07	-15.07	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	-3.475	-3.475	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	-13.902	-13.902	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	14.926	14.926	0	%100
2	M73	Z	-25.852	-25.852	0	%100
3	M76	X	2.043	2.043	0	%100
4	M76	Z	-3.539	-3.539	0	%100
5	M77	X	7.092	7.092	0	%100
6	M77	Z	-12.284	-12.284	0	%100
7	M78	X	2.068	2.068	0	%100
8	M78	Z	-3.582	-3.582	0	%100
9	M79	X	2.068	2.068	0	%100
10	M79	Z	-3.582	-3.582	0	%100
11	M84	X	.56	.56	0	%100
12	M84	Z	-.969	-.969	0	%100
13	M85	X	2.043	2.043	0	%100
14	M85	Z	-3.539	-3.539	0	%100
15	M86	X	7.092	7.092	0	%100
16	M86	Z	-12.284	-12.284	0	%100
17	M87	X	2.068	2.068	0	%100
18	M87	Z	-3.582	-3.582	0	%100
19	M88	X	2.068	2.068	0	%100
20	M88	Z	-3.582	-3.582	0	%100
21	M93	X	.56	.56	0	%100
22	M93	Z	-.969	-.969	0	%100
23	M94	X	8.173	8.173	0	%100
24	M94	Z	-14.156	-14.156	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	14.926	14.926	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
34	M71	Z	-25.852	-25.852	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	4.726	4.726	0	%100
38	MP5A	Z	-8.186	-8.186	0	%100
39	MP1A	X	4.726	4.726	0	%100
40	MP1A	Z	-8.186	-8.186	0	%100
41	MP4A	X	4.726	4.726	0	%100
42	MP4A	Z	-8.186	-8.186	0	%100
43	MP2A	X	4.726	4.726	0	%100
44	MP2A	Z	-8.186	-8.186	0	%100
45	MP3A	X	4.726	4.726	0	%100
46	MP3A	Z	-8.186	-8.186	0	%100
47	MP5C	X	4.726	4.726	0	%100
48	MP5C	Z	-8.186	-8.186	0	%100
49	MP1C	X	4.726	4.726	0	%100
50	MP1C	Z	-8.186	-8.186	0	%100
51	MP4C	X	4.726	4.726	0	%100
52	MP4C	Z	-8.186	-8.186	0	%100
53	MP2C	X	4.726	4.726	0	%100
54	MP2C	Z	-8.186	-8.186	0	%100
55	MP3C	X	4.726	4.726	0	%100
56	MP3C	Z	-8.186	-8.186	0	%100
57	MP5B	X	4.726	4.726	0	%100
58	MP5B	Z	-8.186	-8.186	0	%100
59	MP1B	X	4.726	4.726	0	%100
60	MP1B	Z	-8.186	-8.186	0	%100
61	MP4B	X	4.726	4.726	0	%100
62	MP4B	Z	-8.186	-8.186	0	%100
63	MP2B	X	4.726	4.726	0	%100
64	MP2B	Z	-8.186	-8.186	0	%100
65	MP3B	X	4.726	4.726	0	%100
66	MP3B	Z	-8.186	-8.186	0	%100
67	M62	X	3.496	3.496	0	%100
68	M62	Z	-6.056	-6.056	0	%100
69	M63	X	4.291	4.291	0	%100
70	M63	Z	-7.432	-7.432	0	%100
71	M65	X	4.291	4.291	0	%100
72	M65	Z	-7.432	-7.432	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	5.213	5.213	0	%100
76	M87A	Z	-9.029	-9.029	0	%100
77	M90A	X	5.815	5.815	0	%100
78	M90A	Z	-10.071	-10.071	0	%100
79	M91A	X	5.815	5.815	0	%100
80	M91A	Z	-10.071	-10.071	0	%100
81	M92A	X	8.395	8.395	0	%100
82	M92A	Z	-14.54	-14.54	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	5.213	5.213	0	%100
86	M93B	Z	-9.029	-9.029	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	8.617	8.617	0	%100
2	M73	Z	-4.975	-4.975	0	%100
3	M76	X	10.617	10.617	0	%100
4	M76	Z	-6.13	-6.13	0	%100
5	M77	X	4.095	4.095	0	%100
6	M77	Z	-2.364	-2.364	0	%100
7	M78	X	1.194	1.194	0	%100
8	M78	Z	-.689	-.689	0	%100
9	M79	X	1.194	1.194	0	%100
10	M79	Z	-.689	-.689	0	%100
11	M84	X	.323	.323	0	%100
12	M84	Z	-.187	-.187	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	16.379	16.379	0	%100
16	M86	Z	-9.456	-9.456	0	%100
17	M87	X	4.775	4.775	0	%100
18	M87	Z	-2.757	-2.757	0	%100
19	M88	X	4.775	4.775	0	%100
20	M88	Z	-2.757	-2.757	0	%100
21	M93	X	1.293	1.293	0	%100
22	M93	Z	-.746	-.746	0	%100
23	M94	X	10.617	10.617	0	%100
24	M94	Z	-6.13	-6.13	0	%100
25	M95	X	4.095	4.095	0	%100
26	M95	Z	-2.364	-2.364	0	%100
27	M96	X	1.194	1.194	0	%100
28	M96	Z	-.689	-.689	0	%100
29	M97	X	1.194	1.194	0	%100
30	M97	Z	-.689	-.689	0	%100
31	M102	X	.323	.323	0	%100
32	M102	Z	-.187	-.187	0	%100
33	M71	X	34.469	34.469	0	%100
34	M71	Z	-19.901	-19.901	0	%100
35	M72	X	8.617	8.617	0	%100
36	M72	Z	-4.975	-4.975	0	%100
37	MP5A	X	8.186	8.186	0	%100
38	MP5A	Z	-4.726	-4.726	0	%100
39	MP1A	X	8.186	8.186	0	%100
40	MP1A	Z	-4.726	-4.726	0	%100
41	MP4A	X	8.186	8.186	0	%100
42	MP4A	Z	-4.726	-4.726	0	%100
43	MP2A	X	8.186	8.186	0	%100
44	MP2A	Z	-4.726	-4.726	0	%100
45	MP3A	X	8.186	8.186	0	%100
46	MP3A	Z	-4.726	-4.726	0	%100
47	MP5C	X	8.186	8.186	0	%100
48	MP5C	Z	-4.726	-4.726	0	%100
49	MP1C	X	8.186	8.186	0	%100
50	MP1C	Z	-4.726	-4.726	0	%100
51	MP4C	X	8.186	8.186	0	%100
52	MP4C	Z	-4.726	-4.726	0	%100
53	MP2C	X	8.186	8.186	0	%100
54	MP2C	Z	-4.726	-4.726	0	%100
55	MP3C	X	8.186	8.186	0	%100
56	MP3C	Z	-4.726	-4.726	0	%100
57	MP5B	X	8.186	8.186	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
58	MP5B	Z	-4.726	-4.726	0	%100
59	MP1B	X	8.186	8.186	0	%100
60	MP1B	Z	-4.726	-4.726	0	%100
61	MP4B	X	8.186	8.186	0	%100
62	MP4B	Z	-4.726	-4.726	0	%100
63	MP2B	X	8.186	8.186	0	%100
64	MP2B	Z	-4.726	-4.726	0	%100
65	MP3B	X	8.186	8.186	0	%100
66	MP3B	Z	-4.726	-4.726	0	%100
67	M62	X	6.056	6.056	0	%100
68	M62	Z	-3.496	-3.496	0	%100
69	M63	X	2.477	2.477	0	%100
70	M63	Z	-1.43	-1.43	0	%100
71	M65	X	9.91	9.91	0	%100
72	M65	Z	-5.721	-5.721	0	%100
73	M66	X	2.477	2.477	0	%100
74	M66	Z	-1.43	-1.43	0	%100
75	M87A	X	12.039	12.039	0	%100
76	M87A	Z	-6.951	-6.951	0	%100
77	M90A	X	13.051	13.051	0	%100
78	M90A	Z	-7.535	-7.535	0	%100
79	M91A	X	8.581	8.581	0	%100
80	M91A	Z	-4.954	-4.954	0	%100
81	M92A	X	13.051	13.051	0	%100
82	M92A	Z	-7.535	-7.535	0	%100
83	M90B	X	3.01	3.01	0	%100
84	M90B	Z	-1.738	-1.738	0	%100
85	M93B	X	3.01	3.01	0	%100
86	M93B	Z	-1.738	-1.738	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M76	X	16.346	16.346	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	0	0	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	0	0	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	0	0	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	0	0	0	%100
13	M85	X	4.087	4.087	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	14.185	14.185	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	4.136	4.136	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	4.136	4.136	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	1.119	1.119	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	4.087	4.087	0	%100
24	M94	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
25	M95	X	14.185	14.185	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	4.136	4.136	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	4.136	4.136	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	1.119	1.119	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	29.851	29.851	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	29.851	29.851	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	9.453	9.453	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1A	X	9.453	9.453	0	%100
40	MP1A	Z	0	0	0	%100
41	MP4A	X	9.453	9.453	0	%100
42	MP4A	Z	0	0	0	%100
43	MP2A	X	9.453	9.453	0	%100
44	MP2A	Z	0	0	0	%100
45	MP3A	X	9.453	9.453	0	%100
46	MP3A	Z	0	0	0	%100
47	MP5C	X	9.453	9.453	0	%100
48	MP5C	Z	0	0	0	%100
49	MP1C	X	9.453	9.453	0	%100
50	MP1C	Z	0	0	0	%100
51	MP4C	X	9.453	9.453	0	%100
52	MP4C	Z	0	0	0	%100
53	MP2C	X	9.453	9.453	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	9.453	9.453	0	%100
56	MP3C	Z	0	0	0	%100
57	MP5B	X	9.453	9.453	0	%100
58	MP5B	Z	0	0	0	%100
59	MP1B	X	9.453	9.453	0	%100
60	MP1B	Z	0	0	0	%100
61	MP4B	X	9.453	9.453	0	%100
62	MP4B	Z	0	0	0	%100
63	MP2B	X	9.453	9.453	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	9.453	9.453	0	%100
66	MP3B	Z	0	0	0	%100
67	M62	X	6.993	6.993	0	%100
68	M62	Z	0	0	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	0	0	0	%100
71	M65	X	8.582	8.582	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	8.582	8.582	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	10.426	10.426	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	16.79	16.79	0	%100
78	M90A	Z	0	0	0	%100
79	M91A	X	11.629	11.629	0	%100
80	M91A	Z	0	0	0	%100
81	M92A	X	11.629	11.629	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
82	M92A	Z	0	0	0	%100
83	M90B	X	10.426	10.426	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	8.617	8.617	0	%100
2	M73	Z	4.975	4.975	0	%100
3	M76	X	10.617	10.617	0	%100
4	M76	Z	6.13	6.13	0	%100
5	M77	X	4.095	4.095	0	%100
6	M77	Z	2.364	2.364	0	%100
7	M78	X	1.194	1.194	0	%100
8	M78	Z	.689	.689	0	%100
9	M79	X	1.194	1.194	0	%100
10	M79	Z	.689	.689	0	%100
11	M84	X	.323	.323	0	%100
12	M84	Z	.187	.187	0	%100
13	M85	X	10.617	10.617	0	%100
14	M85	Z	6.13	6.13	0	%100
15	M86	X	4.095	4.095	0	%100
16	M86	Z	2.364	2.364	0	%100
17	M87	X	1.194	1.194	0	%100
18	M87	Z	.689	.689	0	%100
19	M88	X	1.194	1.194	0	%100
20	M88	Z	.689	.689	0	%100
21	M93	X	.323	.323	0	%100
22	M93	Z	.187	.187	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	16.379	16.379	0	%100
26	M95	Z	9.456	9.456	0	%100
27	M96	X	4.775	4.775	0	%100
28	M96	Z	2.757	2.757	0	%100
29	M97	X	4.775	4.775	0	%100
30	M97	Z	2.757	2.757	0	%100
31	M102	X	1.293	1.293	0	%100
32	M102	Z	.746	.746	0	%100
33	M71	X	8.617	8.617	0	%100
34	M71	Z	4.975	4.975	0	%100
35	M72	X	34.469	34.469	0	%100
36	M72	Z	19.901	19.901	0	%100
37	MP5A	X	8.186	8.186	0	%100
38	MP5A	Z	4.726	4.726	0	%100
39	MP1A	X	8.186	8.186	0	%100
40	MP1A	Z	4.726	4.726	0	%100
41	MP4A	X	8.186	8.186	0	%100
42	MP4A	Z	4.726	4.726	0	%100
43	MP2A	X	8.186	8.186	0	%100
44	MP2A	Z	4.726	4.726	0	%100
45	MP3A	X	8.186	8.186	0	%100
46	MP3A	Z	4.726	4.726	0	%100
47	MP5C	X	8.186	8.186	0	%100
48	MP5C	Z	4.726	4.726	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
49	MP1C	X	8.186	8.186	0	%100
50	MP1C	Z	4.726	4.726	0	%100
51	MP4C	X	8.186	8.186	0	%100
52	MP4C	Z	4.726	4.726	0	%100
53	MP2C	X	8.186	8.186	0	%100
54	MP2C	Z	4.726	4.726	0	%100
55	MP3C	X	8.186	8.186	0	%100
56	MP3C	Z	4.726	4.726	0	%100
57	MP5B	X	8.186	8.186	0	%100
58	MP5B	Z	4.726	4.726	0	%100
59	MP1B	X	8.186	8.186	0	%100
60	MP1B	Z	4.726	4.726	0	%100
61	MP4B	X	8.186	8.186	0	%100
62	MP4B	Z	4.726	4.726	0	%100
63	MP2B	X	8.186	8.186	0	%100
64	MP2B	Z	4.726	4.726	0	%100
65	MP3B	X	8.186	8.186	0	%100
66	MP3B	Z	4.726	4.726	0	%100
67	M62	X	6.056	6.056	0	%100
68	M62	Z	3.496	3.496	0	%100
69	M63	X	2.477	2.477	0	%100
70	M63	Z	1.43	1.43	0	%100
71	M65	X	2.477	2.477	0	%100
72	M65	Z	1.43	1.43	0	%100
73	M66	X	9.91	9.91	0	%100
74	M66	Z	5.721	5.721	0	%100
75	M87A	X	3.01	3.01	0	%100
76	M87A	Z	1.738	1.738	0	%100
77	M90A	X	13.051	13.051	0	%100
78	M90A	Z	7.535	7.535	0	%100
79	M91A	X	13.051	13.051	0	%100
80	M91A	Z	7.535	7.535	0	%100
81	M92A	X	8.581	8.581	0	%100
82	M92A	Z	4.954	4.954	0	%100
83	M90B	X	12.039	12.039	0	%100
84	M90B	Z	6.951	6.951	0	%100
85	M93B	X	3.01	3.01	0	%100
86	M93B	Z	1.738	1.738	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	14.926	14.926	0	%100
2	M73	Z	25.852	25.852	0	%100
3	M76	X	2.043	2.043	0	%100
4	M76	Z	3.539	3.539	0	%100
5	M77	X	7.092	7.092	0	%100
6	M77	Z	12.284	12.284	0	%100
7	M78	X	2.068	2.068	0	%100
8	M78	Z	3.582	3.582	0	%100
9	M79	X	2.068	2.068	0	%100
10	M79	Z	3.582	3.582	0	%100
11	M84	X	.56	.56	0	%100
12	M84	Z	.969	.969	0	%100
13	M85	X	8.173	8.173	0	%100
14	M85	Z	14.156	14.156	0	%100
15	M86	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
16	M86	Z	0	0	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	2.043	2.043	0	%100
24	M94	Z	3.539	3.539	0	%100
25	M95	X	7.092	7.092	0	%100
26	M95	Z	12.284	12.284	0	%100
27	M96	X	2.068	2.068	0	%100
28	M96	Z	3.582	3.582	0	%100
29	M97	X	2.068	2.068	0	%100
30	M97	Z	3.582	3.582	0	%100
31	M102	X	.56	.56	0	%100
32	M102	Z	.969	.969	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	14.926	14.926	0	%100
36	M72	Z	25.852	25.852	0	%100
37	MP5A	X	4.726	4.726	0	%100
38	MP5A	Z	8.186	8.186	0	%100
39	MP1A	X	4.726	4.726	0	%100
40	MP1A	Z	8.186	8.186	0	%100
41	MP4A	X	4.726	4.726	0	%100
42	MP4A	Z	8.186	8.186	0	%100
43	MP2A	X	4.726	4.726	0	%100
44	MP2A	Z	8.186	8.186	0	%100
45	MP3A	X	4.726	4.726	0	%100
46	MP3A	Z	8.186	8.186	0	%100
47	MP5C	X	4.726	4.726	0	%100
48	MP5C	Z	8.186	8.186	0	%100
49	MP1C	X	4.726	4.726	0	%100
50	MP1C	Z	8.186	8.186	0	%100
51	MP4C	X	4.726	4.726	0	%100
52	MP4C	Z	8.186	8.186	0	%100
53	MP2C	X	4.726	4.726	0	%100
54	MP2C	Z	8.186	8.186	0	%100
55	MP3C	X	4.726	4.726	0	%100
56	MP3C	Z	8.186	8.186	0	%100
57	MP5B	X	4.726	4.726	0	%100
58	MP5B	Z	8.186	8.186	0	%100
59	MP1B	X	4.726	4.726	0	%100
60	MP1B	Z	8.186	8.186	0	%100
61	MP4B	X	4.726	4.726	0	%100
62	MP4B	Z	8.186	8.186	0	%100
63	MP2B	X	4.726	4.726	0	%100
64	MP2B	Z	8.186	8.186	0	%100
65	MP3B	X	4.726	4.726	0	%100
66	MP3B	Z	8.186	8.186	0	%100
67	M62	X	3.496	3.496	0	%100
68	M62	Z	6.056	6.056	0	%100
69	M63	X	4.291	4.291	0	%100
70	M63	Z	7.432	7.432	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
73	M66	X	4.291	4.291	0	%100
74	M66	Z	7.432	7.432	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	5.815	5.815	0	%100
78	M90A	Z	10.071	10.071	0	%100
79	M91A	X	8.395	8.395	0	%100
80	M91A	Z	14.54	14.54	0	%100
81	M92A	X	5.815	5.815	0	%100
82	M92A	Z	10.071	10.071	0	%100
83	M90B	X	5.213	5.213	0	%100
84	M90B	Z	9.029	9.029	0	%100
85	M93B	X	5.213	5.213	0	%100
86	M93B	Z	9.029	9.029	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	39.802	39.802	0	%100
3	M76	X	0	0	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	18.913	18.913	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	5.514	5.514	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	5.514	5.514	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	1.493	1.493	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	12.26	12.26	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	4.728	4.728	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	1.379	1.379	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	1.379	1.379	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	.373	.373	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	12.26	12.26	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	4.728	4.728	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	1.379	1.379	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	1.379	1.379	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	.373	.373	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	9.95	9.95	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	9.95	9.95	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	9.453	9.453	0	%100
39	MP1A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
40	MP1A	Z	9.453	9.453	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	9.453	9.453	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	9.453	9.453	0	%100
45	MP3A	X	0	0	0	%100
46	MP3A	Z	9.453	9.453	0	%100
47	MP5C	X	0	0	0	%100
48	MP5C	Z	9.453	9.453	0	%100
49	MP1C	X	0	0	0	%100
50	MP1C	Z	9.453	9.453	0	%100
51	MP4C	X	0	0	0	%100
52	MP4C	Z	9.453	9.453	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	9.453	9.453	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	9.453	9.453	0	%100
57	MP5B	X	0	0	0	%100
58	MP5B	Z	9.453	9.453	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	9.453	9.453	0	%100
61	MP4B	X	0	0	0	%100
62	MP4B	Z	9.453	9.453	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	9.453	9.453	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	9.453	9.453	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	6.993	6.993	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	11.443	11.443	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	2.861	2.861	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	2.861	2.861	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	3.475	3.475	0	%100
77	M90A	X	0	0	0	%100
78	M90A	Z	9.909	9.909	0	%100
79	M91A	X	0	0	0	%100
80	M91A	Z	15.07	15.07	0	%100
81	M92A	X	0	0	0	%100
82	M92A	Z	15.07	15.07	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	3.475	3.475	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	13.902	13.902	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-14.926	-14.926	0	%100
2	M73	Z	25.852	25.852	0	%100
3	M76	X	-2.043	-2.043	0	%100
4	M76	Z	3.539	3.539	0	%100
5	M77	X	-7.092	-7.092	0	%100
6	M77	Z	12.284	12.284	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
7	M78	X	-2.068	-2.068	0	%100
8	M78	Z	3.582	3.582	0	%100
9	M79	X	-2.068	-2.068	0	%100
10	M79	Z	3.582	3.582	0	%100
11	M84	X	-.56	-.56	0	%100
12	M84	Z	.969	.969	0	%100
13	M85	X	-2.043	-2.043	0	%100
14	M85	Z	3.539	3.539	0	%100
15	M86	X	-7.092	-7.092	0	%100
16	M86	Z	12.284	12.284	0	%100
17	M87	X	-2.068	-2.068	0	%100
18	M87	Z	3.582	3.582	0	%100
19	M88	X	-2.068	-2.068	0	%100
20	M88	Z	3.582	3.582	0	%100
21	M93	X	-.56	-.56	0	%100
22	M93	Z	.969	.969	0	%100
23	M94	X	-8.173	-8.173	0	%100
24	M94	Z	14.156	14.156	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	-14.926	-14.926	0	%100
34	M71	Z	25.852	25.852	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	-4.726	-4.726	0	%100
38	MP5A	Z	8.186	8.186	0	%100
39	MP1A	X	-4.726	-4.726	0	%100
40	MP1A	Z	8.186	8.186	0	%100
41	MP4A	X	-4.726	-4.726	0	%100
42	MP4A	Z	8.186	8.186	0	%100
43	MP2A	X	-4.726	-4.726	0	%100
44	MP2A	Z	8.186	8.186	0	%100
45	MP3A	X	-4.726	-4.726	0	%100
46	MP3A	Z	8.186	8.186	0	%100
47	MP5C	X	-4.726	-4.726	0	%100
48	MP5C	Z	8.186	8.186	0	%100
49	MP1C	X	-4.726	-4.726	0	%100
50	MP1C	Z	8.186	8.186	0	%100
51	MP4C	X	-4.726	-4.726	0	%100
52	MP4C	Z	8.186	8.186	0	%100
53	MP2C	X	-4.726	-4.726	0	%100
54	MP2C	Z	8.186	8.186	0	%100
55	MP3C	X	-4.726	-4.726	0	%100
56	MP3C	Z	8.186	8.186	0	%100
57	MP5B	X	-4.726	-4.726	0	%100
58	MP5B	Z	8.186	8.186	0	%100
59	MP1B	X	-4.726	-4.726	0	%100
60	MP1B	Z	8.186	8.186	0	%100
61	MP4B	X	-4.726	-4.726	0	%100
62	MP4B	Z	8.186	8.186	0	%100
63	MP2B	X	-4.726	-4.726	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
64	MP2B	Z	8.186	8.186	0	%100
65	MP3B	X	-4.726	-4.726	0	%100
66	MP3B	Z	8.186	8.186	0	%100
67	M62	X	-3.496	-3.496	0	%100
68	M62	Z	6.056	6.056	0	%100
69	M63	X	-4.291	-4.291	0	%100
70	M63	Z	7.432	7.432	0	%100
71	M65	X	-4.291	-4.291	0	%100
72	M65	Z	7.432	7.432	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	-5.213	-5.213	0	%100
76	M87A	Z	9.029	9.029	0	%100
77	M90A	X	-5.815	-5.815	0	%100
78	M90A	Z	10.071	10.071	0	%100
79	M91A	X	-5.815	-5.815	0	%100
80	M91A	Z	10.071	10.071	0	%100
81	M92A	X	-8.395	-8.395	0	%100
82	M92A	Z	14.54	14.54	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	-5.213	-5.213	0	%100
86	M93B	Z	9.029	9.029	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-8.617	-8.617	0	%100
2	M73	Z	4.975	4.975	0	%100
3	M76	X	-10.617	-10.617	0	%100
4	M76	Z	6.13	6.13	0	%100
5	M77	X	-4.095	-4.095	0	%100
6	M77	Z	2.364	2.364	0	%100
7	M78	X	-1.194	-1.194	0	%100
8	M78	Z	.689	.689	0	%100
9	M79	X	-1.194	-1.194	0	%100
10	M79	Z	.689	.689	0	%100
11	M84	X	-.323	-.323	0	%100
12	M84	Z	.187	.187	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	-16.379	-16.379	0	%100
16	M86	Z	9.456	9.456	0	%100
17	M87	X	-4.775	-4.775	0	%100
18	M87	Z	2.757	2.757	0	%100
19	M88	X	-4.775	-4.775	0	%100
20	M88	Z	2.757	2.757	0	%100
21	M93	X	-1.293	-1.293	0	%100
22	M93	Z	.746	.746	0	%100
23	M94	X	-10.617	-10.617	0	%100
24	M94	Z	6.13	6.13	0	%100
25	M95	X	-4.095	-4.095	0	%100
26	M95	Z	2.364	2.364	0	%100
27	M96	X	-1.194	-1.194	0	%100
28	M96	Z	.689	.689	0	%100
29	M97	X	-1.194	-1.194	0	%100
30	M97	Z	.689	.689	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
31	M102	X	-.323	-.323	0	%100
32	M102	Z	.187	.187	0	%100
33	M71	X	-34.469	-34.469	0	%100
34	M71	Z	19.901	19.901	0	%100
35	M72	X	-8.617	-8.617	0	%100
36	M72	Z	4.975	4.975	0	%100
37	MP5A	X	-8.186	-8.186	0	%100
38	MP5A	Z	4.726	4.726	0	%100
39	MP1A	X	-8.186	-8.186	0	%100
40	MP1A	Z	4.726	4.726	0	%100
41	MP4A	X	-8.186	-8.186	0	%100
42	MP4A	Z	4.726	4.726	0	%100
43	MP2A	X	-8.186	-8.186	0	%100
44	MP2A	Z	4.726	4.726	0	%100
45	MP3A	X	-8.186	-8.186	0	%100
46	MP3A	Z	4.726	4.726	0	%100
47	MP5C	X	-8.186	-8.186	0	%100
48	MP5C	Z	4.726	4.726	0	%100
49	MP1C	X	-8.186	-8.186	0	%100
50	MP1C	Z	4.726	4.726	0	%100
51	MP4C	X	-8.186	-8.186	0	%100
52	MP4C	Z	4.726	4.726	0	%100
53	MP2C	X	-8.186	-8.186	0	%100
54	MP2C	Z	4.726	4.726	0	%100
55	MP3C	X	-8.186	-8.186	0	%100
56	MP3C	Z	4.726	4.726	0	%100
57	MP5B	X	-8.186	-8.186	0	%100
58	MP5B	Z	4.726	4.726	0	%100
59	MP1B	X	-8.186	-8.186	0	%100
60	MP1B	Z	4.726	4.726	0	%100
61	MP4B	X	-8.186	-8.186	0	%100
62	MP4B	Z	4.726	4.726	0	%100
63	MP2B	X	-8.186	-8.186	0	%100
64	MP2B	Z	4.726	4.726	0	%100
65	MP3B	X	-8.186	-8.186	0	%100
66	MP3B	Z	4.726	4.726	0	%100
67	M62	X	-6.056	-6.056	0	%100
68	M62	Z	3.496	3.496	0	%100
69	M63	X	-2.477	-2.477	0	%100
70	M63	Z	1.43	1.43	0	%100
71	M65	X	-9.91	-9.91	0	%100
72	M65	Z	5.721	5.721	0	%100
73	M66	X	-2.477	-2.477	0	%100
74	M66	Z	1.43	1.43	0	%100
75	M87A	X	-12.039	-12.039	0	%100
76	M87A	Z	6.951	6.951	0	%100
77	M90A	X	-13.051	-13.051	0	%100
78	M90A	Z	7.535	7.535	0	%100
79	M91A	X	-8.581	-8.581	0	%100
80	M91A	Z	4.954	4.954	0	%100
81	M92A	X	-13.051	-13.051	0	%100
82	M92A	Z	7.535	7.535	0	%100
83	M90B	X	-3.01	-3.01	0	%100
84	M90B	Z	1.738	1.738	0	%100
85	M93B	X	-3.01	-3.01	0	%100
86	M93B	Z	1.738	1.738	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M76	X	-16.346	-16.346	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	0	0	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	0	0	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	0	0	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	0	0	0	%100
13	M85	X	-4.087	-4.087	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	-14.185	-14.185	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	-4.136	-4.136	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	-4.136	-4.136	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	-1.119	-1.119	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	-4.087	-4.087	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	-14.185	-14.185	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	-4.136	-4.136	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	-4.136	-4.136	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	-1.119	-1.119	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	-29.851	-29.851	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	-29.851	-29.851	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	-9.453	-9.453	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1A	X	-9.453	-9.453	0	%100
40	MP1A	Z	0	0	0	%100
41	MP4A	X	-9.453	-9.453	0	%100
42	MP4A	Z	0	0	0	%100
43	MP2A	X	-9.453	-9.453	0	%100
44	MP2A	Z	0	0	0	%100
45	MP3A	X	-9.453	-9.453	0	%100
46	MP3A	Z	0	0	0	%100
47	MP5C	X	-9.453	-9.453	0	%100
48	MP5C	Z	0	0	0	%100
49	MP1C	X	-9.453	-9.453	0	%100
50	MP1C	Z	0	0	0	%100
51	MP4C	X	-9.453	-9.453	0	%100
52	MP4C	Z	0	0	0	%100
53	MP2C	X	-9.453	-9.453	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	-9.453	-9.453	0	%100
56	MP3C	Z	0	0	0	%100
57	MP5B	X	-9.453	-9.453	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
58	MP5B	Z	0	0	0	%100
59	MP1B	X	-9.453	-9.453	0	%100
60	MP1B	Z	0	0	0	%100
61	MP4B	X	-9.453	-9.453	0	%100
62	MP4B	Z	0	0	0	%100
63	MP2B	X	-9.453	-9.453	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	-9.453	-9.453	0	%100
66	MP3B	Z	0	0	0	%100
67	M62	X	-6.993	-6.993	0	%100
68	M62	Z	0	0	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	0	0	0	%100
71	M65	X	-8.582	-8.582	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	-8.582	-8.582	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	-10.426	-10.426	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	-16.79	-16.79	0	%100
78	M90A	Z	0	0	0	%100
79	M91A	X	-11.629	-11.629	0	%100
80	M91A	Z	0	0	0	%100
81	M92A	X	-11.629	-11.629	0	%100
82	M92A	Z	0	0	0	%100
83	M90B	X	-10.426	-10.426	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-8.617	-8.617	0	%100
2	M73	Z	-4.975	-4.975	0	%100
3	M76	X	-10.617	-10.617	0	%100
4	M76	Z	-6.13	-6.13	0	%100
5	M77	X	-4.095	-4.095	0	%100
6	M77	Z	-2.364	-2.364	0	%100
7	M78	X	-1.194	-1.194	0	%100
8	M78	Z	-.689	-.689	0	%100
9	M79	X	-1.194	-1.194	0	%100
10	M79	Z	-.689	-.689	0	%100
11	M84	X	-.323	-.323	0	%100
12	M84	Z	-.187	-.187	0	%100
13	M85	X	-10.617	-10.617	0	%100
14	M85	Z	-6.13	-6.13	0	%100
15	M86	X	-4.095	-4.095	0	%100
16	M86	Z	-2.364	-2.364	0	%100
17	M87	X	-1.194	-1.194	0	%100
18	M87	Z	-.689	-.689	0	%100
19	M88	X	-1.194	-1.194	0	%100
20	M88	Z	-.689	-.689	0	%100
21	M93	X	-.323	-.323	0	%100
22	M93	Z	-.187	-.187	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
25	M95	X	-16.379	-16.379	0	%100
26	M95	Z	-9.456	-9.456	0	%100
27	M96	X	-4.775	-4.775	0	%100
28	M96	Z	-2.757	-2.757	0	%100
29	M97	X	-4.775	-4.775	0	%100
30	M97	Z	-2.757	-2.757	0	%100
31	M102	X	-1.293	-1.293	0	%100
32	M102	Z	-.746	-.746	0	%100
33	M71	X	-8.617	-8.617	0	%100
34	M71	Z	-4.975	-4.975	0	%100
35	M72	X	-34.469	-34.469	0	%100
36	M72	Z	-19.901	-19.901	0	%100
37	MP5A	X	-8.186	-8.186	0	%100
38	MP5A	Z	-4.726	-4.726	0	%100
39	MP1A	X	-8.186	-8.186	0	%100
40	MP1A	Z	-4.726	-4.726	0	%100
41	MP4A	X	-8.186	-8.186	0	%100
42	MP4A	Z	-4.726	-4.726	0	%100
43	MP2A	X	-8.186	-8.186	0	%100
44	MP2A	Z	-4.726	-4.726	0	%100
45	MP3A	X	-8.186	-8.186	0	%100
46	MP3A	Z	-4.726	-4.726	0	%100
47	MP5C	X	-8.186	-8.186	0	%100
48	MP5C	Z	-4.726	-4.726	0	%100
49	MP1C	X	-8.186	-8.186	0	%100
50	MP1C	Z	-4.726	-4.726	0	%100
51	MP4C	X	-8.186	-8.186	0	%100
52	MP4C	Z	-4.726	-4.726	0	%100
53	MP2C	X	-8.186	-8.186	0	%100
54	MP2C	Z	-4.726	-4.726	0	%100
55	MP3C	X	-8.186	-8.186	0	%100
56	MP3C	Z	-4.726	-4.726	0	%100
57	MP5B	X	-8.186	-8.186	0	%100
58	MP5B	Z	-4.726	-4.726	0	%100
59	MP1B	X	-8.186	-8.186	0	%100
60	MP1B	Z	-4.726	-4.726	0	%100
61	MP4B	X	-8.186	-8.186	0	%100
62	MP4B	Z	-4.726	-4.726	0	%100
63	MP2B	X	-8.186	-8.186	0	%100
64	MP2B	Z	-4.726	-4.726	0	%100
65	MP3B	X	-8.186	-8.186	0	%100
66	MP3B	Z	-4.726	-4.726	0	%100
67	M62	X	-6.056	-6.056	0	%100
68	M62	Z	-3.496	-3.496	0	%100
69	M63	X	-2.477	-2.477	0	%100
70	M63	Z	-1.43	-1.43	0	%100
71	M65	X	-2.477	-2.477	0	%100
72	M65	Z	-1.43	-1.43	0	%100
73	M66	X	-9.91	-9.91	0	%100
74	M66	Z	-5.721	-5.721	0	%100
75	M87A	X	-3.01	-3.01	0	%100
76	M87A	Z	-1.738	-1.738	0	%100
77	M90A	X	-13.051	-13.051	0	%100
78	M90A	Z	-7.535	-7.535	0	%100
79	M91A	X	-13.051	-13.051	0	%100
80	M91A	Z	-7.535	-7.535	0	%100
81	M92A	X	-8.581	-8.581	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
82	M92A	Z	-4.954	-4.954	0	%100
83	M90B	X	-12.039	-12.039	0	%100
84	M90B	Z	-6.951	-6.951	0	%100
85	M93B	X	-3.01	-3.01	0	%100
86	M93B	Z	-1.738	-1.738	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-14.926	-14.926	0	%100
2	M73	Z	-25.852	-25.852	0	%100
3	M76	X	-2.043	-2.043	0	%100
4	M76	Z	-3.539	-3.539	0	%100
5	M77	X	-7.092	-7.092	0	%100
6	M77	Z	-12.284	-12.284	0	%100
7	M78	X	-2.068	-2.068	0	%100
8	M78	Z	-3.582	-3.582	0	%100
9	M79	X	-2.068	-2.068	0	%100
10	M79	Z	-3.582	-3.582	0	%100
11	M84	X	-.56	-.56	0	%100
12	M84	Z	-.969	-.969	0	%100
13	M85	X	-8.173	-8.173	0	%100
14	M85	Z	-14.156	-14.156	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	-2.043	-2.043	0	%100
24	M94	Z	-3.539	-3.539	0	%100
25	M95	X	-7.092	-7.092	0	%100
26	M95	Z	-12.284	-12.284	0	%100
27	M96	X	-2.068	-2.068	0	%100
28	M96	Z	-3.582	-3.582	0	%100
29	M97	X	-2.068	-2.068	0	%100
30	M97	Z	-3.582	-3.582	0	%100
31	M102	X	-.56	-.56	0	%100
32	M102	Z	-.969	-.969	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	-14.926	-14.926	0	%100
36	M72	Z	-25.852	-25.852	0	%100
37	MP5A	X	-4.726	-4.726	0	%100
38	MP5A	Z	-8.186	-8.186	0	%100
39	MP1A	X	-4.726	-4.726	0	%100
40	MP1A	Z	-8.186	-8.186	0	%100
41	MP4A	X	-4.726	-4.726	0	%100
42	MP4A	Z	-8.186	-8.186	0	%100
43	MP2A	X	-4.726	-4.726	0	%100
44	MP2A	Z	-8.186	-8.186	0	%100
45	MP3A	X	-4.726	-4.726	0	%100
46	MP3A	Z	-8.186	-8.186	0	%100
47	MP5C	X	-4.726	-4.726	0	%100
48	MP5C	Z	-8.186	-8.186	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
49	MP1C	X	-4.726	-4.726	0	%100
50	MP1C	Z	-8.186	-8.186	0	%100
51	MP4C	X	-4.726	-4.726	0	%100
52	MP4C	Z	-8.186	-8.186	0	%100
53	MP2C	X	-4.726	-4.726	0	%100
54	MP2C	Z	-8.186	-8.186	0	%100
55	MP3C	X	-4.726	-4.726	0	%100
56	MP3C	Z	-8.186	-8.186	0	%100
57	MP5B	X	-4.726	-4.726	0	%100
58	MP5B	Z	-8.186	-8.186	0	%100
59	MP1B	X	-4.726	-4.726	0	%100
60	MP1B	Z	-8.186	-8.186	0	%100
61	MP4B	X	-4.726	-4.726	0	%100
62	MP4B	Z	-8.186	-8.186	0	%100
63	MP2B	X	-4.726	-4.726	0	%100
64	MP2B	Z	-8.186	-8.186	0	%100
65	MP3B	X	-4.726	-4.726	0	%100
66	MP3B	Z	-8.186	-8.186	0	%100
67	M62	X	-3.496	-3.496	0	%100
68	M62	Z	-6.056	-6.056	0	%100
69	M63	X	-4.291	-4.291	0	%100
70	M63	Z	-7.432	-7.432	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	-4.291	-4.291	0	%100
74	M66	Z	-7.432	-7.432	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	-5.815	-5.815	0	%100
78	M90A	Z	-10.071	-10.071	0	%100
79	M91A	X	-8.395	-8.395	0	%100
80	M91A	Z	-14.54	-14.54	0	%100
81	M92A	X	-5.815	-5.815	0	%100
82	M92A	Z	-10.071	-10.071	0	%100
83	M90B	X	-5.213	-5.213	0	%100
84	M90B	Z	-9.029	-9.029	0	%100
85	M93B	X	-5.213	-5.213	0	%100
86	M93B	Z	-9.029	-9.029	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	-10.164	-10.164	0	%100
3	M76	X	0	0	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	-5.96	-5.96	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	-2.582	-2.582	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	-2.582	-2.582	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	-1.909	-1.909	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	-4.165	-4.165	0	%100
15	M86	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
16	M86	Z	-1.49	-1.49	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	-.646	-.646	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	-.646	-.646	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	-.477	-.477	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	-4.165	-4.165	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	-1.49	-1.49	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	-.646	-.646	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	-.646	-.646	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	-.477	-.477	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	-2.541	-2.541	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	-2.541	-2.541	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	-4.208	-4.208	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-4.208	-4.208	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-4.375	-4.375	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	-4.375	-4.375	0	%100
45	MP3A	X	0	0	0	%100
46	MP3A	Z	-4.208	-4.208	0	%100
47	MP5C	X	0	0	0	%100
48	MP5C	Z	-4.208	-4.208	0	%100
49	MP1C	X	0	0	0	%100
50	MP1C	Z	-4.208	-4.208	0	%100
51	MP4C	X	0	0	0	%100
52	MP4C	Z	-4.375	-4.375	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	-4.375	-4.375	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	-4.208	-4.208	0	%100
57	MP5B	X	0	0	0	%100
58	MP5B	Z	-4.208	-4.208	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	-4.208	-4.208	0	%100
61	MP4B	X	0	0	0	%100
62	MP4B	Z	-4.427	-4.427	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-4.375	-4.375	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	-4.208	-4.208	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	-3.102	-3.102	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	-4.803	-4.803	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	-1.201	-1.201	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
73	M66	X	0	0	0	%100
74	M66	Z	-1.201	-1.201	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	-1.084	-1.084	0	%100
77	M90A	X	0	0	0	%100
78	M90A	Z	-3.095	-3.095	0	%100
79	M91A	X	0	0	0	%100
80	M91A	Z	-4.707	-4.707	0	%100
81	M92A	X	0	0	0	%100
82	M92A	Z	-4.707	-4.707	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	-1.084	-1.084	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	-4.335	-4.335	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	3.811	3.811	0	%100
2	M73	Z	-6.602	-6.602	0	%100
3	M76	X	.694	.694	0	%100
4	M76	Z	-1.202	-1.202	0	%100
5	M77	X	2.235	2.235	0	%100
6	M77	Z	-3.871	-3.871	0	%100
7	M78	X	.968	.968	0	%100
8	M78	Z	-1.677	-1.677	0	%100
9	M79	X	.968	.968	0	%100
10	M79	Z	-1.677	-1.677	0	%100
11	M84	X	.716	.716	0	%100
12	M84	Z	-1.24	-1.24	0	%100
13	M85	X	.694	.694	0	%100
14	M85	Z	-1.202	-1.202	0	%100
15	M86	X	2.235	2.235	0	%100
16	M86	Z	-3.871	-3.871	0	%100
17	M87	X	.968	.968	0	%100
18	M87	Z	-1.677	-1.677	0	%100
19	M88	X	.968	.968	0	%100
20	M88	Z	-1.677	-1.677	0	%100
21	M93	X	.716	.716	0	%100
22	M93	Z	-1.24	-1.24	0	%100
23	M94	X	2.776	2.776	0	%100
24	M94	Z	-4.809	-4.809	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	3.811	3.811	0	%100
34	M71	Z	-6.602	-6.602	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	2.104	2.104	0	%100
38	MP5A	Z	-3.644	-3.644	0	%100
39	MP1A	X	2.104	2.104	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
40	MP1A	Z	-3.644	-3.644	0	%100
41	MP4A	X	2.188	2.188	0	%100
42	MP4A	Z	-3.789	-3.789	0	%100
43	MP2A	X	2.188	2.188	0	%100
44	MP2A	Z	-3.789	-3.789	0	%100
45	MP3A	X	2.104	2.104	0	%100
46	MP3A	Z	-3.644	-3.644	0	%100
47	MP5C	X	2.104	2.104	0	%100
48	MP5C	Z	-3.644	-3.644	0	%100
49	MP1C	X	2.104	2.104	0	%100
50	MP1C	Z	-3.644	-3.644	0	%100
51	MP4C	X	2.188	2.188	0	%100
52	MP4C	Z	-3.789	-3.789	0	%100
53	MP2C	X	2.188	2.188	0	%100
54	MP2C	Z	-3.789	-3.789	0	%100
55	MP3C	X	2.104	2.104	0	%100
56	MP3C	Z	-3.644	-3.644	0	%100
57	MP5B	X	2.104	2.104	0	%100
58	MP5B	Z	-3.644	-3.644	0	%100
59	MP1B	X	2.104	2.104	0	%100
60	MP1B	Z	-3.644	-3.644	0	%100
61	MP4B	X	2.213	2.213	0	%100
62	MP4B	Z	-3.834	-3.834	0	%100
63	MP2B	X	2.188	2.188	0	%100
64	MP2B	Z	-3.789	-3.789	0	%100
65	MP3B	X	2.104	2.104	0	%100
66	MP3B	Z	-3.644	-3.644	0	%100
67	M62	X	1.551	1.551	0	%100
68	M62	Z	-2.686	-2.686	0	%100
69	M63	X	1.801	1.801	0	%100
70	M63	Z	-3.12	-3.12	0	%100
71	M65	X	1.801	1.801	0	%100
72	M65	Z	-3.12	-3.12	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	1.626	1.626	0	%100
76	M87A	Z	-2.816	-2.816	0	%100
77	M90A	X	1.816	1.816	0	%100
78	M90A	Z	-3.146	-3.146	0	%100
79	M91A	X	1.816	1.816	0	%100
80	M91A	Z	-3.146	-3.146	0	%100
81	M92A	X	2.622	2.622	0	%100
82	M92A	Z	-4.542	-4.542	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	1.626	1.626	0	%100
86	M93B	Z	-2.816	-2.816	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	2.201	2.201	0	%100
2	M73	Z	-1.27	-1.27	0	%100
3	M76	X	3.607	3.607	0	%100
4	M76	Z	-2.082	-2.082	0	%100
5	M77	X	1.29	1.29	0	%100
6	M77	Z	-.745	-.745	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
7	M78	X	.559	.559	0	%100
8	M78	Z	-.323	-.323	0	%100
9	M79	X	.559	.559	0	%100
10	M79	Z	-.323	-.323	0	%100
11	M84	X	.413	.413	0	%100
12	M84	Z	-.239	-.239	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	5.161	5.161	0	%100
16	M86	Z	-2.98	-2.98	0	%100
17	M87	X	2.236	2.236	0	%100
18	M87	Z	-1.291	-1.291	0	%100
19	M88	X	2.236	2.236	0	%100
20	M88	Z	-1.291	-1.291	0	%100
21	M93	X	1.653	1.653	0	%100
22	M93	Z	-.955	-.955	0	%100
23	M94	X	3.607	3.607	0	%100
24	M94	Z	-2.082	-2.082	0	%100
25	M95	X	1.29	1.29	0	%100
26	M95	Z	-.745	-.745	0	%100
27	M96	X	.559	.559	0	%100
28	M96	Z	-.323	-.323	0	%100
29	M97	X	.559	.559	0	%100
30	M97	Z	-.323	-.323	0	%100
31	M102	X	.413	.413	0	%100
32	M102	Z	-.239	-.239	0	%100
33	M71	X	8.802	8.802	0	%100
34	M71	Z	-5.082	-5.082	0	%100
35	M72	X	2.201	2.201	0	%100
36	M72	Z	-1.27	-1.27	0	%100
37	MP5A	X	3.644	3.644	0	%100
38	MP5A	Z	-2.104	-2.104	0	%100
39	MP1A	X	3.644	3.644	0	%100
40	MP1A	Z	-2.104	-2.104	0	%100
41	MP4A	X	3.789	3.789	0	%100
42	MP4A	Z	-2.188	-2.188	0	%100
43	MP2A	X	3.789	3.789	0	%100
44	MP2A	Z	-2.188	-2.188	0	%100
45	MP3A	X	3.644	3.644	0	%100
46	MP3A	Z	-2.104	-2.104	0	%100
47	MP5C	X	3.644	3.644	0	%100
48	MP5C	Z	-2.104	-2.104	0	%100
49	MP1C	X	3.644	3.644	0	%100
50	MP1C	Z	-2.104	-2.104	0	%100
51	MP4C	X	3.789	3.789	0	%100
52	MP4C	Z	-2.188	-2.188	0	%100
53	MP2C	X	3.789	3.789	0	%100
54	MP2C	Z	-2.188	-2.188	0	%100
55	MP3C	X	3.644	3.644	0	%100
56	MP3C	Z	-2.104	-2.104	0	%100
57	MP5B	X	3.644	3.644	0	%100
58	MP5B	Z	-2.104	-2.104	0	%100
59	MP1B	X	3.644	3.644	0	%100
60	MP1B	Z	-2.104	-2.104	0	%100
61	MP4B	X	3.834	3.834	0	%100
62	MP4B	Z	-2.213	-2.213	0	%100
63	MP2B	X	3.789	3.789	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
64	MP2B	Z	-2.188	-2.188	0	%100
65	MP3B	X	3.644	3.644	0	%100
66	MP3B	Z	-2.104	-2.104	0	%100
67	M62	X	2.686	2.686	0	%100
68	M62	Z	-1.551	-1.551	0	%100
69	M63	X	1.04	1.04	0	%100
70	M63	Z	-.6	-.6	0	%100
71	M65	X	4.16	4.16	0	%100
72	M65	Z	-2.401	-2.401	0	%100
73	M66	X	1.04	1.04	0	%100
74	M66	Z	-.6	-.6	0	%100
75	M87A	X	3.755	3.755	0	%100
76	M87A	Z	-2.168	-2.168	0	%100
77	M90A	X	4.077	4.077	0	%100
78	M90A	Z	-2.354	-2.354	0	%100
79	M91A	X	2.68	2.68	0	%100
80	M91A	Z	-1.548	-1.548	0	%100
81	M92A	X	4.077	4.077	0	%100
82	M92A	Z	-2.354	-2.354	0	%100
83	M90B	X	.939	.939	0	%100
84	M90B	Z	-.542	-.542	0	%100
85	M93B	X	.939	.939	0	%100
86	M93B	Z	-.542	-.542	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M76	X	5.553	5.553	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	0	0	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	0	0	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	0	0	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	0	0	0	%100
13	M85	X	1.388	1.388	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	4.47	4.47	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	1.937	1.937	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	1.937	1.937	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	1.432	1.432	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	1.388	1.388	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	4.47	4.47	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	1.937	1.937	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	1.937	1.937	0	%100
30	M97	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
31	M102	X	1.432	1.432	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	7.623	7.623	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	7.623	7.623	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	4.208	4.208	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1A	X	4.208	4.208	0	%100
40	MP1A	Z	0	0	0	%100
41	MP4A	X	4.375	4.375	0	%100
42	MP4A	Z	0	0	0	%100
43	MP2A	X	4.375	4.375	0	%100
44	MP2A	Z	0	0	0	%100
45	MP3A	X	4.208	4.208	0	%100
46	MP3A	Z	0	0	0	%100
47	MP5C	X	4.208	4.208	0	%100
48	MP5C	Z	0	0	0	%100
49	MP1C	X	4.208	4.208	0	%100
50	MP1C	Z	0	0	0	%100
51	MP4C	X	4.375	4.375	0	%100
52	MP4C	Z	0	0	0	%100
53	MP2C	X	4.375	4.375	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	4.208	4.208	0	%100
56	MP3C	Z	0	0	0	%100
57	MP5B	X	4.208	4.208	0	%100
58	MP5B	Z	0	0	0	%100
59	MP1B	X	4.208	4.208	0	%100
60	MP1B	Z	0	0	0	%100
61	MP4B	X	4.427	4.427	0	%100
62	MP4B	Z	0	0	0	%100
63	MP2B	X	4.375	4.375	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	4.208	4.208	0	%100
66	MP3B	Z	0	0	0	%100
67	M62	X	3.102	3.102	0	%100
68	M62	Z	0	0	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	0	0	0	%100
71	M65	X	3.602	3.602	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	3.602	3.602	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	3.252	3.252	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	5.245	5.245	0	%100
78	M90A	Z	0	0	0	%100
79	M91A	X	3.632	3.632	0	%100
80	M91A	Z	0	0	0	%100
81	M92A	X	3.632	3.632	0	%100
82	M92A	Z	0	0	0	%100
83	M90B	X	3.252	3.252	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	2.201	2.201	0	%100
2	M73	Z	1.27	1.27	0	%100
3	M76	X	3.607	3.607	0	%100
4	M76	Z	2.082	2.082	0	%100
5	M77	X	1.29	1.29	0	%100
6	M77	Z	.745	.745	0	%100
7	M78	X	.559	.559	0	%100
8	M78	Z	.323	.323	0	%100
9	M79	X	.559	.559	0	%100
10	M79	Z	.323	.323	0	%100
11	M84	X	.413	.413	0	%100
12	M84	Z	.239	.239	0	%100
13	M85	X	3.607	3.607	0	%100
14	M85	Z	2.082	2.082	0	%100
15	M86	X	1.29	1.29	0	%100
16	M86	Z	.745	.745	0	%100
17	M87	X	.559	.559	0	%100
18	M87	Z	.323	.323	0	%100
19	M88	X	.559	.559	0	%100
20	M88	Z	.323	.323	0	%100
21	M93	X	.413	.413	0	%100
22	M93	Z	.239	.239	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	5.161	5.161	0	%100
26	M95	Z	2.98	2.98	0	%100
27	M96	X	2.236	2.236	0	%100
28	M96	Z	1.291	1.291	0	%100
29	M97	X	2.236	2.236	0	%100
30	M97	Z	1.291	1.291	0	%100
31	M102	X	1.653	1.653	0	%100
32	M102	Z	.955	.955	0	%100
33	M71	X	2.201	2.201	0	%100
34	M71	Z	1.27	1.27	0	%100
35	M72	X	8.802	8.802	0	%100
36	M72	Z	5.082	5.082	0	%100
37	MP5A	X	3.644	3.644	0	%100
38	MP5A	Z	2.104	2.104	0	%100
39	MP1A	X	3.644	3.644	0	%100
40	MP1A	Z	2.104	2.104	0	%100
41	MP4A	X	3.789	3.789	0	%100
42	MP4A	Z	2.188	2.188	0	%100
43	MP2A	X	3.789	3.789	0	%100
44	MP2A	Z	2.188	2.188	0	%100
45	MP3A	X	3.644	3.644	0	%100
46	MP3A	Z	2.104	2.104	0	%100
47	MP5C	X	3.644	3.644	0	%100
48	MP5C	Z	2.104	2.104	0	%100
49	MP1C	X	3.644	3.644	0	%100
50	MP1C	Z	2.104	2.104	0	%100
51	MP4C	X	3.789	3.789	0	%100
52	MP4C	Z	2.188	2.188	0	%100
53	MP2C	X	3.789	3.789	0	%100
54	MP2C	Z	2.188	2.188	0	%100
55	MP3C	X	3.644	3.644	0	%100
56	MP3C	Z	2.104	2.104	0	%100
57	MP5B	X	3.644	3.644	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
58	MP5B	Z	2.104	2.104	0	%100
59	MP1B	X	3.644	3.644	0	%100
60	MP1B	Z	2.104	2.104	0	%100
61	MP4B	X	3.834	3.834	0	%100
62	MP4B	Z	2.213	2.213	0	%100
63	MP2B	X	3.789	3.789	0	%100
64	MP2B	Z	2.188	2.188	0	%100
65	MP3B	X	3.644	3.644	0	%100
66	MP3B	Z	2.104	2.104	0	%100
67	M62	X	2.686	2.686	0	%100
68	M62	Z	1.551	1.551	0	%100
69	M63	X	1.04	1.04	0	%100
70	M63	Z	.6	.6	0	%100
71	M65	X	1.04	1.04	0	%100
72	M65	Z	.6	.6	0	%100
73	M66	X	4.16	4.16	0	%100
74	M66	Z	2.401	2.401	0	%100
75	M87A	X	.939	.939	0	%100
76	M87A	Z	.542	.542	0	%100
77	M90A	X	4.077	4.077	0	%100
78	M90A	Z	2.354	2.354	0	%100
79	M91A	X	4.077	4.077	0	%100
80	M91A	Z	2.354	2.354	0	%100
81	M92A	X	2.68	2.68	0	%100
82	M92A	Z	1.548	1.548	0	%100
83	M90B	X	3.755	3.755	0	%100
84	M90B	Z	2.168	2.168	0	%100
85	M93B	X	.939	.939	0	%100
86	M93B	Z	.542	.542	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	3.811	3.811	0	%100
2	M73	Z	6.602	6.602	0	%100
3	M76	X	.694	.694	0	%100
4	M76	Z	1.202	1.202	0	%100
5	M77	X	2.235	2.235	0	%100
6	M77	Z	3.871	3.871	0	%100
7	M78	X	.968	.968	0	%100
8	M78	Z	1.677	1.677	0	%100
9	M79	X	.968	.968	0	%100
10	M79	Z	1.677	1.677	0	%100
11	M84	X	.716	.716	0	%100
12	M84	Z	1.24	1.24	0	%100
13	M85	X	2.776	2.776	0	%100
14	M85	Z	4.809	4.809	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	.694	.694	0	%100
24	M94	Z	1.202	1.202	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
25	M95	X	2.235	2.235	0	%100
26	M95	Z	3.871	3.871	0	%100
27	M96	X	.968	.968	0	%100
28	M96	Z	1.677	1.677	0	%100
29	M97	X	.968	.968	0	%100
30	M97	Z	1.677	1.677	0	%100
31	M102	X	.716	.716	0	%100
32	M102	Z	1.24	1.24	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	3.811	3.811	0	%100
36	M72	Z	6.602	6.602	0	%100
37	MP5A	X	2.104	2.104	0	%100
38	MP5A	Z	3.644	3.644	0	%100
39	MP1A	X	2.104	2.104	0	%100
40	MP1A	Z	3.644	3.644	0	%100
41	MP4A	X	2.188	2.188	0	%100
42	MP4A	Z	3.789	3.789	0	%100
43	MP2A	X	2.188	2.188	0	%100
44	MP2A	Z	3.789	3.789	0	%100
45	MP3A	X	2.104	2.104	0	%100
46	MP3A	Z	3.644	3.644	0	%100
47	MP5C	X	2.104	2.104	0	%100
48	MP5C	Z	3.644	3.644	0	%100
49	MP1C	X	2.104	2.104	0	%100
50	MP1C	Z	3.644	3.644	0	%100
51	MP4C	X	2.188	2.188	0	%100
52	MP4C	Z	3.789	3.789	0	%100
53	MP2C	X	2.188	2.188	0	%100
54	MP2C	Z	3.789	3.789	0	%100
55	MP3C	X	2.104	2.104	0	%100
56	MP3C	Z	3.644	3.644	0	%100
57	MP5B	X	2.104	2.104	0	%100
58	MP5B	Z	3.644	3.644	0	%100
59	MP1B	X	2.104	2.104	0	%100
60	MP1B	Z	3.644	3.644	0	%100
61	MP4B	X	2.213	2.213	0	%100
62	MP4B	Z	3.834	3.834	0	%100
63	MP2B	X	2.188	2.188	0	%100
64	MP2B	Z	3.789	3.789	0	%100
65	MP3B	X	2.104	2.104	0	%100
66	MP3B	Z	3.644	3.644	0	%100
67	M62	X	1.551	1.551	0	%100
68	M62	Z	2.686	2.686	0	%100
69	M63	X	1.801	1.801	0	%100
70	M63	Z	3.12	3.12	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	1.801	1.801	0	%100
74	M66	Z	3.12	3.12	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	1.816	1.816	0	%100
78	M90A	Z	3.146	3.146	0	%100
79	M91A	X	2.622	2.622	0	%100
80	M91A	Z	4.542	4.542	0	%100
81	M92A	X	1.816	1.816	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
82	M92A	Z	3.146	3.146	0	%100
83	M90B	X	1.626	1.626	0	%100
84	M90B	Z	2.816	2.816	0	%100
85	M93B	X	1.626	1.626	0	%100
86	M93B	Z	2.816	2.816	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	10.164	10.164	0	%100
3	M76	X	0	0	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	5.96	5.96	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	2.582	2.582	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	2.582	2.582	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	1.909	1.909	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	4.165	4.165	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	1.49	1.49	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	.646	.646	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	.646	.646	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	.477	.477	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	4.165	4.165	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	1.49	1.49	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	.646	.646	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	.646	.646	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	.477	.477	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	2.541	2.541	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	2.541	2.541	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	4.208	4.208	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	4.208	4.208	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	4.375	4.375	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	4.375	4.375	0	%100
45	MP3A	X	0	0	0	%100
46	MP3A	Z	4.208	4.208	0	%100
47	MP5C	X	0	0	0	%100
48	MP5C	Z	4.208	4.208	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
49	MP1C	X	0	0	0	%100
50	MP1C	Z	4.208	4.208	0	%100
51	MP4C	X	0	0	0	%100
52	MP4C	Z	4.375	4.375	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	4.375	4.375	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	4.208	4.208	0	%100
57	MP5B	X	0	0	0	%100
58	MP5B	Z	4.208	4.208	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	4.208	4.208	0	%100
61	MP4B	X	0	0	0	%100
62	MP4B	Z	4.427	4.427	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	4.375	4.375	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	4.208	4.208	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	3.102	3.102	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	4.803	4.803	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	1.201	1.201	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	1.201	1.201	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	1.084	1.084	0	%100
77	M90A	X	0	0	0	%100
78	M90A	Z	3.095	3.095	0	%100
79	M91A	X	0	0	0	%100
80	M91A	Z	4.707	4.707	0	%100
81	M92A	X	0	0	0	%100
82	M92A	Z	4.707	4.707	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	1.084	1.084	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	4.335	4.335	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-3.811	-3.811	0	%100
2	M73	Z	6.602	6.602	0	%100
3	M76	X	-.694	-.694	0	%100
4	M76	Z	1.202	1.202	0	%100
5	M77	X	-2.235	-2.235	0	%100
6	M77	Z	3.871	3.871	0	%100
7	M78	X	-.968	-.968	0	%100
8	M78	Z	1.677	1.677	0	%100
9	M79	X	-.968	-.968	0	%100
10	M79	Z	1.677	1.677	0	%100
11	M84	X	-.716	-.716	0	%100
12	M84	Z	1.24	1.24	0	%100
13	M85	X	-.694	-.694	0	%100
14	M85	Z	1.202	1.202	0	%100
15	M86	X	-2.235	-2.235	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
16	M86	Z	3.871	3.871	0	%100
17	M87	X	-.968	-.968	0	%100
18	M87	Z	1.677	1.677	0	%100
19	M88	X	-.968	-.968	0	%100
20	M88	Z	1.677	1.677	0	%100
21	M93	X	-.716	-.716	0	%100
22	M93	Z	1.24	1.24	0	%100
23	M94	X	-2.776	-2.776	0	%100
24	M94	Z	4.809	4.809	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	-3.811	-3.811	0	%100
34	M71	Z	6.602	6.602	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	-2.104	-2.104	0	%100
38	MP5A	Z	3.644	3.644	0	%100
39	MP1A	X	-2.104	-2.104	0	%100
40	MP1A	Z	3.644	3.644	0	%100
41	MP4A	X	-2.188	-2.188	0	%100
42	MP4A	Z	3.789	3.789	0	%100
43	MP2A	X	-2.188	-2.188	0	%100
44	MP2A	Z	3.789	3.789	0	%100
45	MP3A	X	-2.104	-2.104	0	%100
46	MP3A	Z	3.644	3.644	0	%100
47	MP5C	X	-2.104	-2.104	0	%100
48	MP5C	Z	3.644	3.644	0	%100
49	MP1C	X	-2.104	-2.104	0	%100
50	MP1C	Z	3.644	3.644	0	%100
51	MP4C	X	-2.188	-2.188	0	%100
52	MP4C	Z	3.789	3.789	0	%100
53	MP2C	X	-2.188	-2.188	0	%100
54	MP2C	Z	3.789	3.789	0	%100
55	MP3C	X	-2.104	-2.104	0	%100
56	MP3C	Z	3.644	3.644	0	%100
57	MP5B	X	-2.104	-2.104	0	%100
58	MP5B	Z	3.644	3.644	0	%100
59	MP1B	X	-2.104	-2.104	0	%100
60	MP1B	Z	3.644	3.644	0	%100
61	MP4B	X	-2.213	-2.213	0	%100
62	MP4B	Z	3.834	3.834	0	%100
63	MP2B	X	-2.188	-2.188	0	%100
64	MP2B	Z	3.789	3.789	0	%100
65	MP3B	X	-2.104	-2.104	0	%100
66	MP3B	Z	3.644	3.644	0	%100
67	M62	X	-1.551	-1.551	0	%100
68	M62	Z	2.686	2.686	0	%100
69	M63	X	-1.801	-1.801	0	%100
70	M63	Z	3.12	3.12	0	%100
71	M65	X	-1.801	-1.801	0	%100
72	M65	Z	3.12	3.12	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
73	M66	X	0	0	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	-1.626	-1.626	0	%100
76	M87A	Z	2.816	2.816	0	%100
77	M90A	X	-1.816	-1.816	0	%100
78	M90A	Z	3.146	3.146	0	%100
79	M91A	X	-1.816	-1.816	0	%100
80	M91A	Z	3.146	3.146	0	%100
81	M92A	X	-2.622	-2.622	0	%100
82	M92A	Z	4.542	4.542	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	-1.626	-1.626	0	%100
86	M93B	Z	2.816	2.816	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-2.201	-2.201	0	%100
2	M73	Z	1.27	1.27	0	%100
3	M76	X	-3.607	-3.607	0	%100
4	M76	Z	2.082	2.082	0	%100
5	M77	X	-1.29	-1.29	0	%100
6	M77	Z	.745	.745	0	%100
7	M78	X	-.559	-.559	0	%100
8	M78	Z	.323	.323	0	%100
9	M79	X	-.559	-.559	0	%100
10	M79	Z	.323	.323	0	%100
11	M84	X	-.413	-.413	0	%100
12	M84	Z	.239	.239	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	-5.161	-5.161	0	%100
16	M86	Z	2.98	2.98	0	%100
17	M87	X	-2.236	-2.236	0	%100
18	M87	Z	1.291	1.291	0	%100
19	M88	X	-2.236	-2.236	0	%100
20	M88	Z	1.291	1.291	0	%100
21	M93	X	-1.653	-1.653	0	%100
22	M93	Z	.955	.955	0	%100
23	M94	X	-3.607	-3.607	0	%100
24	M94	Z	2.082	2.082	0	%100
25	M95	X	-1.29	-1.29	0	%100
26	M95	Z	.745	.745	0	%100
27	M96	X	-.559	-.559	0	%100
28	M96	Z	.323	.323	0	%100
29	M97	X	-.559	-.559	0	%100
30	M97	Z	.323	.323	0	%100
31	M102	X	-.413	-.413	0	%100
32	M102	Z	.239	.239	0	%100
33	M71	X	-8.802	-8.802	0	%100
34	M71	Z	5.082	5.082	0	%100
35	M72	X	-2.201	-2.201	0	%100
36	M72	Z	1.27	1.27	0	%100
37	MP5A	X	-3.644	-3.644	0	%100
38	MP5A	Z	2.104	2.104	0	%100
39	MP1A	X	-3.644	-3.644	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
40	MP1A	Z	2.104	2.104	0	%100
41	MP4A	X	-3.789	-3.789	0	%100
42	MP4A	Z	2.188	2.188	0	%100
43	MP2A	X	-3.789	-3.789	0	%100
44	MP2A	Z	2.188	2.188	0	%100
45	MP3A	X	-3.644	-3.644	0	%100
46	MP3A	Z	2.104	2.104	0	%100
47	MP5C	X	-3.644	-3.644	0	%100
48	MP5C	Z	2.104	2.104	0	%100
49	MP1C	X	-3.644	-3.644	0	%100
50	MP1C	Z	2.104	2.104	0	%100
51	MP4C	X	-3.789	-3.789	0	%100
52	MP4C	Z	2.188	2.188	0	%100
53	MP2C	X	-3.789	-3.789	0	%100
54	MP2C	Z	2.188	2.188	0	%100
55	MP3C	X	-3.644	-3.644	0	%100
56	MP3C	Z	2.104	2.104	0	%100
57	MP5B	X	-3.644	-3.644	0	%100
58	MP5B	Z	2.104	2.104	0	%100
59	MP1B	X	-3.644	-3.644	0	%100
60	MP1B	Z	2.104	2.104	0	%100
61	MP4B	X	-3.834	-3.834	0	%100
62	MP4B	Z	2.213	2.213	0	%100
63	MP2B	X	-3.789	-3.789	0	%100
64	MP2B	Z	2.188	2.188	0	%100
65	MP3B	X	-3.644	-3.644	0	%100
66	MP3B	Z	2.104	2.104	0	%100
67	M62	X	-2.686	-2.686	0	%100
68	M62	Z	1.551	1.551	0	%100
69	M63	X	-1.04	-1.04	0	%100
70	M63	Z	.6	.6	0	%100
71	M65	X	-4.16	-4.16	0	%100
72	M65	Z	2.401	2.401	0	%100
73	M66	X	-1.04	-1.04	0	%100
74	M66	Z	.6	.6	0	%100
75	M87A	X	-3.755	-3.755	0	%100
76	M87A	Z	2.168	2.168	0	%100
77	M90A	X	-4.077	-4.077	0	%100
78	M90A	Z	2.354	2.354	0	%100
79	M91A	X	-2.68	-2.68	0	%100
80	M91A	Z	1.548	1.548	0	%100
81	M92A	X	-4.077	-4.077	0	%100
82	M92A	Z	2.354	2.354	0	%100
83	M90B	X	-.939	-.939	0	%100
84	M90B	Z	.542	.542	0	%100
85	M93B	X	-.939	-.939	0	%100
86	M93B	Z	.542	.542	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M76	X	-5.553	-5.553	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
7	M78	X	0	0	0	%100
8	M78	Z	0	0	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	0	0	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	0	0	0	%100
13	M85	X	-1.388	-1.388	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	-4.47	-4.47	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	-1.937	-1.937	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	-1.937	-1.937	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	-1.432	-1.432	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	-1.388	-1.388	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	-4.47	-4.47	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	-1.937	-1.937	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	-1.937	-1.937	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	-1.432	-1.432	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	-7.623	-7.623	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	-7.623	-7.623	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	-4.208	-4.208	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1A	X	-4.208	-4.208	0	%100
40	MP1A	Z	0	0	0	%100
41	MP4A	X	-4.375	-4.375	0	%100
42	MP4A	Z	0	0	0	%100
43	MP2A	X	-4.375	-4.375	0	%100
44	MP2A	Z	0	0	0	%100
45	MP3A	X	-4.208	-4.208	0	%100
46	MP3A	Z	0	0	0	%100
47	MP5C	X	-4.208	-4.208	0	%100
48	MP5C	Z	0	0	0	%100
49	MP1C	X	-4.208	-4.208	0	%100
50	MP1C	Z	0	0	0	%100
51	MP4C	X	-4.375	-4.375	0	%100
52	MP4C	Z	0	0	0	%100
53	MP2C	X	-4.375	-4.375	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	-4.208	-4.208	0	%100
56	MP3C	Z	0	0	0	%100
57	MP5B	X	-4.208	-4.208	0	%100
58	MP5B	Z	0	0	0	%100
59	MP1B	X	-4.208	-4.208	0	%100
60	MP1B	Z	0	0	0	%100
61	MP4B	X	-4.427	-4.427	0	%100
62	MP4B	Z	0	0	0	%100
63	MP2B	X	-4.375	-4.375	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
64	MP2B	Z	0	0	0	%100
65	MP3B	X	-4.208	-4.208	0	%100
66	MP3B	Z	0	0	0	%100
67	M62	X	-3.102	-3.102	0	%100
68	M62	Z	0	0	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	0	0	0	%100
71	M65	X	-3.602	-3.602	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	-3.602	-3.602	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	-3.252	-3.252	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	-5.245	-5.245	0	%100
78	M90A	Z	0	0	0	%100
79	M91A	X	-3.632	-3.632	0	%100
80	M91A	Z	0	0	0	%100
81	M92A	X	-3.632	-3.632	0	%100
82	M92A	Z	0	0	0	%100
83	M90B	X	-3.252	-3.252	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-2.201	-2.201	0	%100
2	M73	Z	-1.27	-1.27	0	%100
3	M76	X	-3.607	-3.607	0	%100
4	M76	Z	-2.082	-2.082	0	%100
5	M77	X	-1.29	-1.29	0	%100
6	M77	Z	-.745	-.745	0	%100
7	M78	X	-.559	-.559	0	%100
8	M78	Z	-.323	-.323	0	%100
9	M79	X	-.559	-.559	0	%100
10	M79	Z	-.323	-.323	0	%100
11	M84	X	-.413	-.413	0	%100
12	M84	Z	-.239	-.239	0	%100
13	M85	X	-3.607	-3.607	0	%100
14	M85	Z	-2.082	-2.082	0	%100
15	M86	X	-1.29	-1.29	0	%100
16	M86	Z	-.745	-.745	0	%100
17	M87	X	-.559	-.559	0	%100
18	M87	Z	-.323	-.323	0	%100
19	M88	X	-.559	-.559	0	%100
20	M88	Z	-.323	-.323	0	%100
21	M93	X	-.413	-.413	0	%100
22	M93	Z	-.239	-.239	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	-5.161	-5.161	0	%100
26	M95	Z	-2.98	-2.98	0	%100
27	M96	X	-2.236	-2.236	0	%100
28	M96	Z	-1.291	-1.291	0	%100
29	M97	X	-2.236	-2.236	0	%100
30	M97	Z	-1.291	-1.291	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
31	M102	X	-1.653	-1.653	0	%100
32	M102	Z	-.955	-.955	0	%100
33	M71	X	-2.201	-2.201	0	%100
34	M71	Z	-1.27	-1.27	0	%100
35	M72	X	-8.802	-8.802	0	%100
36	M72	Z	-5.082	-5.082	0	%100
37	MP5A	X	-3.644	-3.644	0	%100
38	MP5A	Z	-2.104	-2.104	0	%100
39	MP1A	X	-3.644	-3.644	0	%100
40	MP1A	Z	-2.104	-2.104	0	%100
41	MP4A	X	-3.789	-3.789	0	%100
42	MP4A	Z	-2.188	-2.188	0	%100
43	MP2A	X	-3.789	-3.789	0	%100
44	MP2A	Z	-2.188	-2.188	0	%100
45	MP3A	X	-3.644	-3.644	0	%100
46	MP3A	Z	-2.104	-2.104	0	%100
47	MP5C	X	-3.644	-3.644	0	%100
48	MP5C	Z	-2.104	-2.104	0	%100
49	MP1C	X	-3.644	-3.644	0	%100
50	MP1C	Z	-2.104	-2.104	0	%100
51	MP4C	X	-3.789	-3.789	0	%100
52	MP4C	Z	-2.188	-2.188	0	%100
53	MP2C	X	-3.789	-3.789	0	%100
54	MP2C	Z	-2.188	-2.188	0	%100
55	MP3C	X	-3.644	-3.644	0	%100
56	MP3C	Z	-2.104	-2.104	0	%100
57	MP5B	X	-3.644	-3.644	0	%100
58	MP5B	Z	-2.104	-2.104	0	%100
59	MP1B	X	-3.644	-3.644	0	%100
60	MP1B	Z	-2.104	-2.104	0	%100
61	MP4B	X	-3.834	-3.834	0	%100
62	MP4B	Z	-2.213	-2.213	0	%100
63	MP2B	X	-3.789	-3.789	0	%100
64	MP2B	Z	-2.188	-2.188	0	%100
65	MP3B	X	-3.644	-3.644	0	%100
66	MP3B	Z	-2.104	-2.104	0	%100
67	M62	X	-2.686	-2.686	0	%100
68	M62	Z	-1.551	-1.551	0	%100
69	M63	X	-1.04	-1.04	0	%100
70	M63	Z	-.6	-.6	0	%100
71	M65	X	-1.04	-1.04	0	%100
72	M65	Z	-.6	-.6	0	%100
73	M66	X	-4.16	-4.16	0	%100
74	M66	Z	-2.401	-2.401	0	%100
75	M87A	X	-.939	-.939	0	%100
76	M87A	Z	-.542	-.542	0	%100
77	M90A	X	-4.077	-4.077	0	%100
78	M90A	Z	-2.354	-2.354	0	%100
79	M91A	X	-4.077	-4.077	0	%100
80	M91A	Z	-2.354	-2.354	0	%100
81	M92A	X	-2.68	-2.68	0	%100
82	M92A	Z	-1.548	-1.548	0	%100
83	M90B	X	-3.755	-3.755	0	%100
84	M90B	Z	-2.168	-2.168	0	%100
85	M93B	X	-.939	-.939	0	%100
86	M93B	Z	-.542	-.542	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-3.811	-3.811	0	%100
2	M73	Z	-6.602	-6.602	0	%100
3	M76	X	-.694	-.694	0	%100
4	M76	Z	-1.202	-1.202	0	%100
5	M77	X	-2.235	-2.235	0	%100
6	M77	Z	-3.871	-3.871	0	%100
7	M78	X	-.968	-.968	0	%100
8	M78	Z	-1.677	-1.677	0	%100
9	M79	X	-.968	-.968	0	%100
10	M79	Z	-1.677	-1.677	0	%100
11	M84	X	-.716	-.716	0	%100
12	M84	Z	-1.24	-1.24	0	%100
13	M85	X	-2.776	-2.776	0	%100
14	M85	Z	-4.809	-4.809	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	-.694	-.694	0	%100
24	M94	Z	-1.202	-1.202	0	%100
25	M95	X	-2.235	-2.235	0	%100
26	M95	Z	-3.871	-3.871	0	%100
27	M96	X	-.968	-.968	0	%100
28	M96	Z	-1.677	-1.677	0	%100
29	M97	X	-.968	-.968	0	%100
30	M97	Z	-1.677	-1.677	0	%100
31	M102	X	-.716	-.716	0	%100
32	M102	Z	-1.24	-1.24	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	-3.811	-3.811	0	%100
36	M72	Z	-6.602	-6.602	0	%100
37	MP5A	X	-2.104	-2.104	0	%100
38	MP5A	Z	-3.644	-3.644	0	%100
39	MP1A	X	-2.104	-2.104	0	%100
40	MP1A	Z	-3.644	-3.644	0	%100
41	MP4A	X	-2.188	-2.188	0	%100
42	MP4A	Z	-3.789	-3.789	0	%100
43	MP2A	X	-2.188	-2.188	0	%100
44	MP2A	Z	-3.789	-3.789	0	%100
45	MP3A	X	-2.104	-2.104	0	%100
46	MP3A	Z	-3.644	-3.644	0	%100
47	MP5C	X	-2.104	-2.104	0	%100
48	MP5C	Z	-3.644	-3.644	0	%100
49	MP1C	X	-2.104	-2.104	0	%100
50	MP1C	Z	-3.644	-3.644	0	%100
51	MP4C	X	-2.188	-2.188	0	%100
52	MP4C	Z	-3.789	-3.789	0	%100
53	MP2C	X	-2.188	-2.188	0	%100
54	MP2C	Z	-3.789	-3.789	0	%100
55	MP3C	X	-2.104	-2.104	0	%100
56	MP3C	Z	-3.644	-3.644	0	%100
57	MP5B	X	-2.104	-2.104	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
58	MP5B	Z	-3.644	-3.644	0	%100
59	MP1B	X	-2.104	-2.104	0	%100
60	MP1B	Z	-3.644	-3.644	0	%100
61	MP4B	X	-2.213	-2.213	0	%100
62	MP4B	Z	-3.834	-3.834	0	%100
63	MP2B	X	-2.188	-2.188	0	%100
64	MP2B	Z	-3.789	-3.789	0	%100
65	MP3B	X	-2.104	-2.104	0	%100
66	MP3B	Z	-3.644	-3.644	0	%100
67	M62	X	-1.551	-1.551	0	%100
68	M62	Z	-2.686	-2.686	0	%100
69	M63	X	-1.801	-1.801	0	%100
70	M63	Z	-3.12	-3.12	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	-1.801	-1.801	0	%100
74	M66	Z	-3.12	-3.12	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	-1.816	-1.816	0	%100
78	M90A	Z	-3.146	-3.146	0	%100
79	M91A	X	-2.622	-2.622	0	%100
80	M91A	Z	-4.542	-4.542	0	%100
81	M92A	X	-1.816	-1.816	0	%100
82	M92A	Z	-3.146	-3.146	0	%100
83	M90B	X	-1.626	-1.626	0	%100
84	M90B	Z	-2.816	-2.816	0	%100
85	M93B	X	-1.626	-1.626	0	%100
86	M93B	Z	-2.816	-2.816	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	-2.709	-2.709	0	%100
3	M76	X	0	0	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	-1.287	-1.287	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	-.375	-.375	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	-.375	-.375	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	-.102	-.102	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	-.834	-.834	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	-.322	-.322	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	-.094	-.094	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	-.094	-.094	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	-.025	-.025	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	-.834	-.834	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
25	M95	X	0	0	0	%100
26	M95	Z	-.322	-.322	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	-.094	-.094	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	-.094	-.094	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	-.025	-.025	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	-.677	-.677	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	-.677	-.677	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	-.643	-.643	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	-.643	-.643	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	-.643	-.643	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	-.643	-.643	0	%100
45	MP3A	X	0	0	0	%100
46	MP3A	Z	-.643	-.643	0	%100
47	MP5C	X	0	0	0	%100
48	MP5C	Z	-.643	-.643	0	%100
49	MP1C	X	0	0	0	%100
50	MP1C	Z	-.643	-.643	0	%100
51	MP4C	X	0	0	0	%100
52	MP4C	Z	-.643	-.643	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	-.643	-.643	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	-.643	-.643	0	%100
57	MP5B	X	0	0	0	%100
58	MP5B	Z	-.643	-.643	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	-.643	-.643	0	%100
61	MP4B	X	0	0	0	%100
62	MP4B	Z	-.643	-.643	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-.643	-.643	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	-.643	-.643	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	-.476	-.476	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	-.779	-.779	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	-.195	-.195	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	-.195	-.195	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	-.237	-.237	0	%100
77	M90A	X	0	0	0	%100
78	M90A	Z	-.674	-.674	0	%100
79	M91A	X	0	0	0	%100
80	M91A	Z	-1.026	-1.026	0	%100
81	M92A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
82	M92A	Z	-1.026	-1.026	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	-.237	-.237	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	-.946	-.946	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	1.016	1.016	0	%100
2	M73	Z	-1.759	-1.759	0	%100
3	M76	X	.139	.139	0	%100
4	M76	Z	-.241	-.241	0	%100
5	M77	X	.483	.483	0	%100
6	M77	Z	-.836	-.836	0	%100
7	M78	X	.141	.141	0	%100
8	M78	Z	-.244	-.244	0	%100
9	M79	X	.141	.141	0	%100
10	M79	Z	-.244	-.244	0	%100
11	M84	X	.038	.038	0	%100
12	M84	Z	-.066	-.066	0	%100
13	M85	X	.139	.139	0	%100
14	M85	Z	-.241	-.241	0	%100
15	M86	X	.483	.483	0	%100
16	M86	Z	-.836	-.836	0	%100
17	M87	X	.141	.141	0	%100
18	M87	Z	-.244	-.244	0	%100
19	M88	X	.141	.141	0	%100
20	M88	Z	-.244	-.244	0	%100
21	M93	X	.038	.038	0	%100
22	M93	Z	-.066	-.066	0	%100
23	M94	X	.556	.556	0	%100
24	M94	Z	-.963	-.963	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	1.016	1.016	0	%100
34	M71	Z	-1.759	-1.759	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	.322	.322	0	%100
38	MP5A	Z	-.557	-.557	0	%100
39	MP1A	X	.322	.322	0	%100
40	MP1A	Z	-.557	-.557	0	%100
41	MP4A	X	.322	.322	0	%100
42	MP4A	Z	-.557	-.557	0	%100
43	MP2A	X	.322	.322	0	%100
44	MP2A	Z	-.557	-.557	0	%100
45	MP3A	X	.322	.322	0	%100
46	MP3A	Z	-.557	-.557	0	%100
47	MP5C	X	.322	.322	0	%100
48	MP5C	Z	-.557	-.557	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
49	MP1C	X	.322	.322	0	%100
50	MP1C	Z	-.557	-.557	0	%100
51	MP4C	X	.322	.322	0	%100
52	MP4C	Z	-.557	-.557	0	%100
53	MP2C	X	.322	.322	0	%100
54	MP2C	Z	-.557	-.557	0	%100
55	MP3C	X	.322	.322	0	%100
56	MP3C	Z	-.557	-.557	0	%100
57	MP5B	X	.322	.322	0	%100
58	MP5B	Z	-.557	-.557	0	%100
59	MP1B	X	.322	.322	0	%100
60	MP1B	Z	-.557	-.557	0	%100
61	MP4B	X	.322	.322	0	%100
62	MP4B	Z	-.557	-.557	0	%100
63	MP2B	X	.322	.322	0	%100
64	MP2B	Z	-.557	-.557	0	%100
65	MP3B	X	.322	.322	0	%100
66	MP3B	Z	-.557	-.557	0	%100
67	M62	X	.238	.238	0	%100
68	M62	Z	-.412	-.412	0	%100
69	M63	X	.292	.292	0	%100
70	M63	Z	-.506	-.506	0	%100
71	M65	X	.292	.292	0	%100
72	M65	Z	-.506	-.506	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	.355	.355	0	%100
76	M87A	Z	-.614	-.614	0	%100
77	M90A	X	.396	.396	0	%100
78	M90A	Z	-.685	-.685	0	%100
79	M91A	X	.396	.396	0	%100
80	M91A	Z	-.685	-.685	0	%100
81	M92A	X	.571	.571	0	%100
82	M92A	Z	-.99	-.99	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	.355	.355	0	%100
86	M93B	Z	-.614	-.614	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	.586	.586	0	%100
2	M73	Z	-.339	-.339	0	%100
3	M76	X	.723	.723	0	%100
4	M76	Z	-.417	-.417	0	%100
5	M77	X	.279	.279	0	%100
6	M77	Z	-.161	-.161	0	%100
7	M78	X	.081	.081	0	%100
8	M78	Z	-.047	-.047	0	%100
9	M79	X	.081	.081	0	%100
10	M79	Z	-.047	-.047	0	%100
11	M84	X	.022	.022	0	%100
12	M84	Z	-.013	-.013	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	1.115	1.115	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
16	M86	Z	-.644	-.644	0	%100
17	M87	X	.325	.325	0	%100
18	M87	Z	-.188	-.188	0	%100
19	M88	X	.325	.325	0	%100
20	M88	Z	-.188	-.188	0	%100
21	M93	X	.088	.088	0	%100
22	M93	Z	-.051	-.051	0	%100
23	M94	X	.723	.723	0	%100
24	M94	Z	-.417	-.417	0	%100
25	M95	X	.279	.279	0	%100
26	M95	Z	-.161	-.161	0	%100
27	M96	X	.081	.081	0	%100
28	M96	Z	-.047	-.047	0	%100
29	M97	X	.081	.081	0	%100
30	M97	Z	-.047	-.047	0	%100
31	M102	X	.022	.022	0	%100
32	M102	Z	-.013	-.013	0	%100
33	M71	X	2.346	2.346	0	%100
34	M71	Z	-1.354	-1.354	0	%100
35	M72	X	.586	.586	0	%100
36	M72	Z	-.339	-.339	0	%100
37	MP5A	X	.557	.557	0	%100
38	MP5A	Z	-.322	-.322	0	%100
39	MP1A	X	.557	.557	0	%100
40	MP1A	Z	-.322	-.322	0	%100
41	MP4A	X	.557	.557	0	%100
42	MP4A	Z	-.322	-.322	0	%100
43	MP2A	X	.557	.557	0	%100
44	MP2A	Z	-.322	-.322	0	%100
45	MP3A	X	.557	.557	0	%100
46	MP3A	Z	-.322	-.322	0	%100
47	MP5C	X	.557	.557	0	%100
48	MP5C	Z	-.322	-.322	0	%100
49	MP1C	X	.557	.557	0	%100
50	MP1C	Z	-.322	-.322	0	%100
51	MP4C	X	.557	.557	0	%100
52	MP4C	Z	-.322	-.322	0	%100
53	MP2C	X	.557	.557	0	%100
54	MP2C	Z	-.322	-.322	0	%100
55	MP3C	X	.557	.557	0	%100
56	MP3C	Z	-.322	-.322	0	%100
57	MP5B	X	.557	.557	0	%100
58	MP5B	Z	-.322	-.322	0	%100
59	MP1B	X	.557	.557	0	%100
60	MP1B	Z	-.322	-.322	0	%100
61	MP4B	X	.557	.557	0	%100
62	MP4B	Z	-.322	-.322	0	%100
63	MP2B	X	.557	.557	0	%100
64	MP2B	Z	-.322	-.322	0	%100
65	MP3B	X	.557	.557	0	%100
66	MP3B	Z	-.322	-.322	0	%100
67	M62	X	.412	.412	0	%100
68	M62	Z	-.238	-.238	0	%100
69	M63	X	.169	.169	0	%100
70	M63	Z	-.097	-.097	0	%100
71	M65	X	.674	.674	0	%100
72	M65	Z	-.389	-.389	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
73	M66	X	.169	.169	0	%100
74	M66	Z	-.097	-.097	0	%100
75	M87A	X	.819	.819	0	%100
76	M87A	Z	-.473	-.473	0	%100
77	M90A	X	.888	.888	0	%100
78	M90A	Z	-.513	-.513	0	%100
79	M91A	X	.584	.584	0	%100
80	M91A	Z	-.337	-.337	0	%100
81	M92A	X	.888	.888	0	%100
82	M92A	Z	-.513	-.513	0	%100
83	M90B	X	.205	.205	0	%100
84	M90B	Z	-.118	-.118	0	%100
85	M93B	X	.205	.205	0	%100
86	M93B	Z	-.118	-.118	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M76	X	1.112	1.112	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	0	0	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	0	0	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	0	0	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	0	0	0	%100
13	M85	X	.278	.278	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	.965	.965	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	.281	.281	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	.281	.281	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	.076	.076	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	.278	.278	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	.965	.965	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	.281	.281	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	.281	.281	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	.076	.076	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	2.031	2.031	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	2.031	2.031	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	.643	.643	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1A	X	.643	.643	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
40	MP1A	Z	0	0	0	%100
41	MP4A	X	.643	.643	0	%100
42	MP4A	Z	0	0	0	%100
43	MP2A	X	.643	.643	0	%100
44	MP2A	Z	0	0	0	%100
45	MP3A	X	.643	.643	0	%100
46	MP3A	Z	0	0	0	%100
47	MP5C	X	.643	.643	0	%100
48	MP5C	Z	0	0	0	%100
49	MP1C	X	.643	.643	0	%100
50	MP1C	Z	0	0	0	%100
51	MP4C	X	.643	.643	0	%100
52	MP4C	Z	0	0	0	%100
53	MP2C	X	.643	.643	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	.643	.643	0	%100
56	MP3C	Z	0	0	0	%100
57	MP5B	X	.643	.643	0	%100
58	MP5B	Z	0	0	0	%100
59	MP1B	X	.643	.643	0	%100
60	MP1B	Z	0	0	0	%100
61	MP4B	X	.643	.643	0	%100
62	MP4B	Z	0	0	0	%100
63	MP2B	X	.643	.643	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	.643	.643	0	%100
66	MP3B	Z	0	0	0	%100
67	M62	X	.476	.476	0	%100
68	M62	Z	0	0	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	0	0	0	%100
71	M65	X	.584	.584	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	.584	.584	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	.71	.71	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	1.143	1.143	0	%100
78	M90A	Z	0	0	0	%100
79	M91A	X	.791	.791	0	%100
80	M91A	Z	0	0	0	%100
81	M92A	X	.791	.791	0	%100
82	M92A	Z	0	0	0	%100
83	M90B	X	.71	.71	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	.586	.586	0	%100
2	M73	Z	.339	.339	0	%100
3	M76	X	.723	.723	0	%100
4	M76	Z	.417	.417	0	%100
5	M77	X	.279	.279	0	%100
6	M77	Z	.161	.161	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
7	M78	X	.081	.081	0	%100
8	M78	Z	.047	.047	0	%100
9	M79	X	.081	.081	0	%100
10	M79	Z	.047	.047	0	%100
11	M84	X	.022	.022	0	%100
12	M84	Z	.013	.013	0	%100
13	M85	X	.723	.723	0	%100
14	M85	Z	.417	.417	0	%100
15	M86	X	.279	.279	0	%100
16	M86	Z	.161	.161	0	%100
17	M87	X	.081	.081	0	%100
18	M87	Z	.047	.047	0	%100
19	M88	X	.081	.081	0	%100
20	M88	Z	.047	.047	0	%100
21	M93	X	.022	.022	0	%100
22	M93	Z	.013	.013	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	1.115	1.115	0	%100
26	M95	Z	.644	.644	0	%100
27	M96	X	.325	.325	0	%100
28	M96	Z	.188	.188	0	%100
29	M97	X	.325	.325	0	%100
30	M97	Z	.188	.188	0	%100
31	M102	X	.088	.088	0	%100
32	M102	Z	.051	.051	0	%100
33	M71	X	.586	.586	0	%100
34	M71	Z	.339	.339	0	%100
35	M72	X	2.346	2.346	0	%100
36	M72	Z	1.354	1.354	0	%100
37	MP5A	X	.557	.557	0	%100
38	MP5A	Z	.322	.322	0	%100
39	MP1A	X	.557	.557	0	%100
40	MP1A	Z	.322	.322	0	%100
41	MP4A	X	.557	.557	0	%100
42	MP4A	Z	.322	.322	0	%100
43	MP2A	X	.557	.557	0	%100
44	MP2A	Z	.322	.322	0	%100
45	MP3A	X	.557	.557	0	%100
46	MP3A	Z	.322	.322	0	%100
47	MP5C	X	.557	.557	0	%100
48	MP5C	Z	.322	.322	0	%100
49	MP1C	X	.557	.557	0	%100
50	MP1C	Z	.322	.322	0	%100
51	MP4C	X	.557	.557	0	%100
52	MP4C	Z	.322	.322	0	%100
53	MP2C	X	.557	.557	0	%100
54	MP2C	Z	.322	.322	0	%100
55	MP3C	X	.557	.557	0	%100
56	MP3C	Z	.322	.322	0	%100
57	MP5B	X	.557	.557	0	%100
58	MP5B	Z	.322	.322	0	%100
59	MP1B	X	.557	.557	0	%100
60	MP1B	Z	.322	.322	0	%100
61	MP4B	X	.557	.557	0	%100
62	MP4B	Z	.322	.322	0	%100
63	MP2B	X	.557	.557	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
64	MP2B	Z	.322	.322	0	%100
65	MP3B	X	.557	.557	0	%100
66	MP3B	Z	.322	.322	0	%100
67	M62	X	.412	.412	0	%100
68	M62	Z	.238	.238	0	%100
69	M63	X	.169	.169	0	%100
70	M63	Z	.097	.097	0	%100
71	M65	X	.169	.169	0	%100
72	M65	Z	.097	.097	0	%100
73	M66	X	.674	.674	0	%100
74	M66	Z	.389	.389	0	%100
75	M87A	X	.205	.205	0	%100
76	M87A	Z	.118	.118	0	%100
77	M90A	X	.888	.888	0	%100
78	M90A	Z	.513	.513	0	%100
79	M91A	X	.888	.888	0	%100
80	M91A	Z	.513	.513	0	%100
81	M92A	X	.584	.584	0	%100
82	M92A	Z	.337	.337	0	%100
83	M90B	X	.819	.819	0	%100
84	M90B	Z	.473	.473	0	%100
85	M93B	X	.205	.205	0	%100
86	M93B	Z	.118	.118	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	1.016	1.016	0	%100
2	M73	Z	1.759	1.759	0	%100
3	M76	X	.139	.139	0	%100
4	M76	Z	.241	.241	0	%100
5	M77	X	.483	.483	0	%100
6	M77	Z	.836	.836	0	%100
7	M78	X	.141	.141	0	%100
8	M78	Z	.244	.244	0	%100
9	M79	X	.141	.141	0	%100
10	M79	Z	.244	.244	0	%100
11	M84	X	.038	.038	0	%100
12	M84	Z	.066	.066	0	%100
13	M85	X	.556	.556	0	%100
14	M85	Z	.963	.963	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	.139	.139	0	%100
24	M94	Z	.241	.241	0	%100
25	M95	X	.483	.483	0	%100
26	M95	Z	.836	.836	0	%100
27	M96	X	.141	.141	0	%100
28	M96	Z	.244	.244	0	%100
29	M97	X	.141	.141	0	%100
30	M97	Z	.244	.244	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
31	M102	X	.038	.038	0	%100
32	M102	Z	.066	.066	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	1.016	1.016	0	%100
36	M72	Z	1.759	1.759	0	%100
37	MP5A	X	.322	.322	0	%100
38	MP5A	Z	.557	.557	0	%100
39	MP1A	X	.322	.322	0	%100
40	MP1A	Z	.557	.557	0	%100
41	MP4A	X	.322	.322	0	%100
42	MP4A	Z	.557	.557	0	%100
43	MP2A	X	.322	.322	0	%100
44	MP2A	Z	.557	.557	0	%100
45	MP3A	X	.322	.322	0	%100
46	MP3A	Z	.557	.557	0	%100
47	MP5C	X	.322	.322	0	%100
48	MP5C	Z	.557	.557	0	%100
49	MP1C	X	.322	.322	0	%100
50	MP1C	Z	.557	.557	0	%100
51	MP4C	X	.322	.322	0	%100
52	MP4C	Z	.557	.557	0	%100
53	MP2C	X	.322	.322	0	%100
54	MP2C	Z	.557	.557	0	%100
55	MP3C	X	.322	.322	0	%100
56	MP3C	Z	.557	.557	0	%100
57	MP5B	X	.322	.322	0	%100
58	MP5B	Z	.557	.557	0	%100
59	MP1B	X	.322	.322	0	%100
60	MP1B	Z	.557	.557	0	%100
61	MP4B	X	.322	.322	0	%100
62	MP4B	Z	.557	.557	0	%100
63	MP2B	X	.322	.322	0	%100
64	MP2B	Z	.557	.557	0	%100
65	MP3B	X	.322	.322	0	%100
66	MP3B	Z	.557	.557	0	%100
67	M62	X	.238	.238	0	%100
68	M62	Z	.412	.412	0	%100
69	M63	X	.292	.292	0	%100
70	M63	Z	.506	.506	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	.292	.292	0	%100
74	M66	Z	.506	.506	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	.396	.396	0	%100
78	M90A	Z	.685	.685	0	%100
79	M91A	X	.571	.571	0	%100
80	M91A	Z	.99	.99	0	%100
81	M92A	X	.396	.396	0	%100
82	M92A	Z	.685	.685	0	%100
83	M90B	X	.355	.355	0	%100
84	M90B	Z	.614	.614	0	%100
85	M93B	X	.355	.355	0	%100
86	M93B	Z	.614	.614	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	2.709	2.709	0	%100
3	M76	X	0	0	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	1.287	1.287	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	.375	.375	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	.375	.375	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	.102	.102	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	.834	.834	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	.322	.322	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	.094	.094	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	.094	.094	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	.025	.025	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	.834	.834	0	%100
25	M95	X	0	0	0	%100
26	M95	Z	.322	.322	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	.094	.094	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	.094	.094	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	.025	.025	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	.677	.677	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	.677	.677	0	%100
37	MP5A	X	0	0	0	%100
38	MP5A	Z	.643	.643	0	%100
39	MP1A	X	0	0	0	%100
40	MP1A	Z	.643	.643	0	%100
41	MP4A	X	0	0	0	%100
42	MP4A	Z	.643	.643	0	%100
43	MP2A	X	0	0	0	%100
44	MP2A	Z	.643	.643	0	%100
45	MP3A	X	0	0	0	%100
46	MP3A	Z	.643	.643	0	%100
47	MP5C	X	0	0	0	%100
48	MP5C	Z	.643	.643	0	%100
49	MP1C	X	0	0	0	%100
50	MP1C	Z	.643	.643	0	%100
51	MP4C	X	0	0	0	%100
52	MP4C	Z	.643	.643	0	%100
53	MP2C	X	0	0	0	%100
54	MP2C	Z	.643	.643	0	%100
55	MP3C	X	0	0	0	%100
56	MP3C	Z	.643	.643	0	%100
57	MP5B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
58	MP5B	Z	.643	.643	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	.643	.643	0	%100
61	MP4B	X	0	0	0	%100
62	MP4B	Z	.643	.643	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	.643	.643	0	%100
65	MP3B	X	0	0	0	%100
66	MP3B	Z	.643	.643	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	.476	.476	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	.779	.779	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	.195	.195	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	.195	.195	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	.237	.237	0	%100
77	M90A	X	0	0	0	%100
78	M90A	Z	.674	.674	0	%100
79	M91A	X	0	0	0	%100
80	M91A	Z	1.026	1.026	0	%100
81	M92A	X	0	0	0	%100
82	M92A	Z	1.026	1.026	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	.237	.237	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	.946	.946	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-1.016	-1.016	0	%100
2	M73	Z	1.759	1.759	0	%100
3	M76	X	-.139	-.139	0	%100
4	M76	Z	.241	.241	0	%100
5	M77	X	-.483	-.483	0	%100
6	M77	Z	.836	.836	0	%100
7	M78	X	-.141	-.141	0	%100
8	M78	Z	.244	.244	0	%100
9	M79	X	-.141	-.141	0	%100
10	M79	Z	.244	.244	0	%100
11	M84	X	-.038	-.038	0	%100
12	M84	Z	.066	.066	0	%100
13	M85	X	-.139	-.139	0	%100
14	M85	Z	.241	.241	0	%100
15	M86	X	-.483	-.483	0	%100
16	M86	Z	.836	.836	0	%100
17	M87	X	-.141	-.141	0	%100
18	M87	Z	.244	.244	0	%100
19	M88	X	-.141	-.141	0	%100
20	M88	Z	.244	.244	0	%100
21	M93	X	-.038	-.038	0	%100
22	M93	Z	.066	.066	0	%100
23	M94	X	-.556	-.556	0	%100
24	M94	Z	.963	.963	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
25	M95	X	0	0	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	0	0	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	0	0	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	0	0	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	-1.016	-1.016	0	%100
34	M71	Z	1.759	1.759	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	-.322	-.322	0	%100
38	MP5A	Z	.557	.557	0	%100
39	MP1A	X	-.322	-.322	0	%100
40	MP1A	Z	.557	.557	0	%100
41	MP4A	X	-.322	-.322	0	%100
42	MP4A	Z	.557	.557	0	%100
43	MP2A	X	-.322	-.322	0	%100
44	MP2A	Z	.557	.557	0	%100
45	MP3A	X	-.322	-.322	0	%100
46	MP3A	Z	.557	.557	0	%100
47	MP5C	X	-.322	-.322	0	%100
48	MP5C	Z	.557	.557	0	%100
49	MP1C	X	-.322	-.322	0	%100
50	MP1C	Z	.557	.557	0	%100
51	MP4C	X	-.322	-.322	0	%100
52	MP4C	Z	.557	.557	0	%100
53	MP2C	X	-.322	-.322	0	%100
54	MP2C	Z	.557	.557	0	%100
55	MP3C	X	-.322	-.322	0	%100
56	MP3C	Z	.557	.557	0	%100
57	MP5B	X	-.322	-.322	0	%100
58	MP5B	Z	.557	.557	0	%100
59	MP1B	X	-.322	-.322	0	%100
60	MP1B	Z	.557	.557	0	%100
61	MP4B	X	-.322	-.322	0	%100
62	MP4B	Z	.557	.557	0	%100
63	MP2B	X	-.322	-.322	0	%100
64	MP2B	Z	.557	.557	0	%100
65	MP3B	X	-.322	-.322	0	%100
66	MP3B	Z	.557	.557	0	%100
67	M62	X	-.238	-.238	0	%100
68	M62	Z	.412	.412	0	%100
69	M63	X	-.292	-.292	0	%100
70	M63	Z	.506	.506	0	%100
71	M65	X	-.292	-.292	0	%100
72	M65	Z	.506	.506	0	%100
73	M66	X	0	0	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	-.355	-.355	0	%100
76	M87A	Z	.614	.614	0	%100
77	M90A	X	-.396	-.396	0	%100
78	M90A	Z	.685	.685	0	%100
79	M91A	X	-.396	-.396	0	%100
80	M91A	Z	.685	.685	0	%100
81	M92A	X	-.571	-.571	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
82	M92A	Z	.99	.99	0	%100
83	M90B	X	0	0	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	-.355	-.355	0	%100
86	M93B	Z	.614	.614	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-.586	-.586	0	%100
2	M73	Z	.339	.339	0	%100
3	M76	X	-.723	-.723	0	%100
4	M76	Z	.417	.417	0	%100
5	M77	X	-.279	-.279	0	%100
6	M77	Z	.161	.161	0	%100
7	M78	X	-.081	-.081	0	%100
8	M78	Z	.047	.047	0	%100
9	M79	X	-.081	-.081	0	%100
10	M79	Z	.047	.047	0	%100
11	M84	X	-.022	-.022	0	%100
12	M84	Z	.013	.013	0	%100
13	M85	X	0	0	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	-1.115	-1.115	0	%100
16	M86	Z	.644	.644	0	%100
17	M87	X	-.325	-.325	0	%100
18	M87	Z	.188	.188	0	%100
19	M88	X	-.325	-.325	0	%100
20	M88	Z	.188	.188	0	%100
21	M93	X	-.088	-.088	0	%100
22	M93	Z	.051	.051	0	%100
23	M94	X	-.723	-.723	0	%100
24	M94	Z	.417	.417	0	%100
25	M95	X	-.279	-.279	0	%100
26	M95	Z	.161	.161	0	%100
27	M96	X	-.081	-.081	0	%100
28	M96	Z	.047	.047	0	%100
29	M97	X	-.081	-.081	0	%100
30	M97	Z	.047	.047	0	%100
31	M102	X	-.022	-.022	0	%100
32	M102	Z	.013	.013	0	%100
33	M71	X	-2.346	-2.346	0	%100
34	M71	Z	1.354	1.354	0	%100
35	M72	X	-.586	-.586	0	%100
36	M72	Z	.339	.339	0	%100
37	MP5A	X	-.557	-.557	0	%100
38	MP5A	Z	.322	.322	0	%100
39	MP1A	X	-.557	-.557	0	%100
40	MP1A	Z	.322	.322	0	%100
41	MP4A	X	-.557	-.557	0	%100
42	MP4A	Z	.322	.322	0	%100
43	MP2A	X	-.557	-.557	0	%100
44	MP2A	Z	.322	.322	0	%100
45	MP3A	X	-.557	-.557	0	%100
46	MP3A	Z	.322	.322	0	%100
47	MP5C	X	-.557	-.557	0	%100
48	MP5C	Z	.322	.322	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
49	MP1C	X	-.557	-.557	0	%100
50	MP1C	Z	.322	.322	0	%100
51	MP4C	X	-.557	-.557	0	%100
52	MP4C	Z	.322	.322	0	%100
53	MP2C	X	-.557	-.557	0	%100
54	MP2C	Z	.322	.322	0	%100
55	MP3C	X	-.557	-.557	0	%100
56	MP3C	Z	.322	.322	0	%100
57	MP5B	X	-.557	-.557	0	%100
58	MP5B	Z	.322	.322	0	%100
59	MP1B	X	-.557	-.557	0	%100
60	MP1B	Z	.322	.322	0	%100
61	MP4B	X	-.557	-.557	0	%100
62	MP4B	Z	.322	.322	0	%100
63	MP2B	X	-.557	-.557	0	%100
64	MP2B	Z	.322	.322	0	%100
65	MP3B	X	-.557	-.557	0	%100
66	MP3B	Z	.322	.322	0	%100
67	M62	X	-.412	-.412	0	%100
68	M62	Z	.238	.238	0	%100
69	M63	X	-.169	-.169	0	%100
70	M63	Z	.097	.097	0	%100
71	M65	X	-.674	-.674	0	%100
72	M65	Z	.389	.389	0	%100
73	M66	X	-.169	-.169	0	%100
74	M66	Z	.097	.097	0	%100
75	M87A	X	-.819	-.819	0	%100
76	M87A	Z	.473	.473	0	%100
77	M90A	X	-.888	-.888	0	%100
78	M90A	Z	.513	.513	0	%100
79	M91A	X	-.584	-.584	0	%100
80	M91A	Z	.337	.337	0	%100
81	M92A	X	-.888	-.888	0	%100
82	M92A	Z	.513	.513	0	%100
83	M90B	X	-.205	-.205	0	%100
84	M90B	Z	.118	.118	0	%100
85	M93B	X	-.205	-.205	0	%100
86	M93B	Z	.118	.118	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	0	0	0	%100
2	M73	Z	0	0	0	%100
3	M76	X	-1.112	-1.112	0	%100
4	M76	Z	0	0	0	%100
5	M77	X	0	0	0	%100
6	M77	Z	0	0	0	%100
7	M78	X	0	0	0	%100
8	M78	Z	0	0	0	%100
9	M79	X	0	0	0	%100
10	M79	Z	0	0	0	%100
11	M84	X	0	0	0	%100
12	M84	Z	0	0	0	%100
13	M85	X	-.278	-.278	0	%100
14	M85	Z	0	0	0	%100
15	M86	X	-.965	-.965	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
16	M86	Z	0	0	0	%100
17	M87	X	-.281	-.281	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	-.281	-.281	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	-.076	-.076	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	-.278	-.278	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	-.965	-.965	0	%100
26	M95	Z	0	0	0	%100
27	M96	X	-.281	-.281	0	%100
28	M96	Z	0	0	0	%100
29	M97	X	-.281	-.281	0	%100
30	M97	Z	0	0	0	%100
31	M102	X	-.076	-.076	0	%100
32	M102	Z	0	0	0	%100
33	M71	X	-2.031	-2.031	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	-2.031	-2.031	0	%100
36	M72	Z	0	0	0	%100
37	MP5A	X	-.643	-.643	0	%100
38	MP5A	Z	0	0	0	%100
39	MP1A	X	-.643	-.643	0	%100
40	MP1A	Z	0	0	0	%100
41	MP4A	X	-.643	-.643	0	%100
42	MP4A	Z	0	0	0	%100
43	MP2A	X	-.643	-.643	0	%100
44	MP2A	Z	0	0	0	%100
45	MP3A	X	-.643	-.643	0	%100
46	MP3A	Z	0	0	0	%100
47	MP5C	X	-.643	-.643	0	%100
48	MP5C	Z	0	0	0	%100
49	MP1C	X	-.643	-.643	0	%100
50	MP1C	Z	0	0	0	%100
51	MP4C	X	-.643	-.643	0	%100
52	MP4C	Z	0	0	0	%100
53	MP2C	X	-.643	-.643	0	%100
54	MP2C	Z	0	0	0	%100
55	MP3C	X	-.643	-.643	0	%100
56	MP3C	Z	0	0	0	%100
57	MP5B	X	-.643	-.643	0	%100
58	MP5B	Z	0	0	0	%100
59	MP1B	X	-.643	-.643	0	%100
60	MP1B	Z	0	0	0	%100
61	MP4B	X	-.643	-.643	0	%100
62	MP4B	Z	0	0	0	%100
63	MP2B	X	-.643	-.643	0	%100
64	MP2B	Z	0	0	0	%100
65	MP3B	X	-.643	-.643	0	%100
66	MP3B	Z	0	0	0	%100
67	M62	X	-.476	-.476	0	%100
68	M62	Z	0	0	0	%100
69	M63	X	0	0	0	%100
70	M63	Z	0	0	0	%100
71	M65	X	-.584	-.584	0	%100
72	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
73	M66	X	-.584	-.584	0	%100
74	M66	Z	0	0	0	%100
75	M87A	X	-.71	-.71	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	-1.143	-1.143	0	%100
78	M90A	Z	0	0	0	%100
79	M91A	X	-.791	-.791	0	%100
80	M91A	Z	0	0	0	%100
81	M92A	X	-.791	-.791	0	%100
82	M92A	Z	0	0	0	%100
83	M90B	X	-.71	-.71	0	%100
84	M90B	Z	0	0	0	%100
85	M93B	X	0	0	0	%100
86	M93B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-.586	-.586	0	%100
2	M73	Z	-.339	-.339	0	%100
3	M76	X	-.723	-.723	0	%100
4	M76	Z	-.417	-.417	0	%100
5	M77	X	-.279	-.279	0	%100
6	M77	Z	-.161	-.161	0	%100
7	M78	X	-.081	-.081	0	%100
8	M78	Z	-.047	-.047	0	%100
9	M79	X	-.081	-.081	0	%100
10	M79	Z	-.047	-.047	0	%100
11	M84	X	-.022	-.022	0	%100
12	M84	Z	-.013	-.013	0	%100
13	M85	X	-.723	-.723	0	%100
14	M85	Z	-.417	-.417	0	%100
15	M86	X	-.279	-.279	0	%100
16	M86	Z	-.161	-.161	0	%100
17	M87	X	-.081	-.081	0	%100
18	M87	Z	-.047	-.047	0	%100
19	M88	X	-.081	-.081	0	%100
20	M88	Z	-.047	-.047	0	%100
21	M93	X	-.022	-.022	0	%100
22	M93	Z	-.013	-.013	0	%100
23	M94	X	0	0	0	%100
24	M94	Z	0	0	0	%100
25	M95	X	-1.115	-1.115	0	%100
26	M95	Z	-.644	-.644	0	%100
27	M96	X	-.325	-.325	0	%100
28	M96	Z	-.188	-.188	0	%100
29	M97	X	-.325	-.325	0	%100
30	M97	Z	-.188	-.188	0	%100
31	M102	X	-.088	-.088	0	%100
32	M102	Z	-.051	-.051	0	%100
33	M71	X	-.586	-.586	0	%100
34	M71	Z	-.339	-.339	0	%100
35	M72	X	-2.346	-2.346	0	%100
36	M72	Z	-1.354	-1.354	0	%100
37	MP5A	X	-.557	-.557	0	%100
38	MP5A	Z	-.322	-.322	0	%100
39	MP1A	X	-.557	-.557	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
40	MP1A	Z	-.322	-.322	0	%100
41	MP4A	X	-.557	-.557	0	%100
42	MP4A	Z	-.322	-.322	0	%100
43	MP2A	X	-.557	-.557	0	%100
44	MP2A	Z	-.322	-.322	0	%100
45	MP3A	X	-.557	-.557	0	%100
46	MP3A	Z	-.322	-.322	0	%100
47	MP5C	X	-.557	-.557	0	%100
48	MP5C	Z	-.322	-.322	0	%100
49	MP1C	X	-.557	-.557	0	%100
50	MP1C	Z	-.322	-.322	0	%100
51	MP4C	X	-.557	-.557	0	%100
52	MP4C	Z	-.322	-.322	0	%100
53	MP2C	X	-.557	-.557	0	%100
54	MP2C	Z	-.322	-.322	0	%100
55	MP3C	X	-.557	-.557	0	%100
56	MP3C	Z	-.322	-.322	0	%100
57	MP5B	X	-.557	-.557	0	%100
58	MP5B	Z	-.322	-.322	0	%100
59	MP1B	X	-.557	-.557	0	%100
60	MP1B	Z	-.322	-.322	0	%100
61	MP4B	X	-.557	-.557	0	%100
62	MP4B	Z	-.322	-.322	0	%100
63	MP2B	X	-.557	-.557	0	%100
64	MP2B	Z	-.322	-.322	0	%100
65	MP3B	X	-.557	-.557	0	%100
66	MP3B	Z	-.322	-.322	0	%100
67	M62	X	-.412	-.412	0	%100
68	M62	Z	-.238	-.238	0	%100
69	M63	X	-.169	-.169	0	%100
70	M63	Z	-.097	-.097	0	%100
71	M65	X	-.169	-.169	0	%100
72	M65	Z	-.097	-.097	0	%100
73	M66	X	-.674	-.674	0	%100
74	M66	Z	-.389	-.389	0	%100
75	M87A	X	-.205	-.205	0	%100
76	M87A	Z	-.118	-.118	0	%100
77	M90A	X	-.888	-.888	0	%100
78	M90A	Z	-.513	-.513	0	%100
79	M91A	X	-.888	-.888	0	%100
80	M91A	Z	-.513	-.513	0	%100
81	M92A	X	-.584	-.584	0	%100
82	M92A	Z	-.337	-.337	0	%100
83	M90B	X	-.819	-.819	0	%100
84	M90B	Z	-.473	-.473	0	%100
85	M93B	X	-.205	-.205	0	%100
86	M93B	Z	-.118	-.118	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	X	-1.016	-1.016	0	%100
2	M73	Z	-1.759	-1.759	0	%100
3	M76	X	-.139	-.139	0	%100
4	M76	Z	-.241	-.241	0	%100
5	M77	X	-.483	-.483	0	%100
6	M77	Z	-.836	-.836	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
7	M78	X	-.141	-.141	0	%100
8	M78	Z	-.244	-.244	0	%100
9	M79	X	-.141	-.141	0	%100
10	M79	Z	-.244	-.244	0	%100
11	M84	X	-.038	-.038	0	%100
12	M84	Z	-.066	-.066	0	%100
13	M85	X	-.556	-.556	0	%100
14	M85	Z	-.963	-.963	0	%100
15	M86	X	0	0	0	%100
16	M86	Z	0	0	0	%100
17	M87	X	0	0	0	%100
18	M87	Z	0	0	0	%100
19	M88	X	0	0	0	%100
20	M88	Z	0	0	0	%100
21	M93	X	0	0	0	%100
22	M93	Z	0	0	0	%100
23	M94	X	-.139	-.139	0	%100
24	M94	Z	-.241	-.241	0	%100
25	M95	X	-.483	-.483	0	%100
26	M95	Z	-.836	-.836	0	%100
27	M96	X	-.141	-.141	0	%100
28	M96	Z	-.244	-.244	0	%100
29	M97	X	-.141	-.141	0	%100
30	M97	Z	-.244	-.244	0	%100
31	M102	X	-.038	-.038	0	%100
32	M102	Z	-.066	-.066	0	%100
33	M71	X	0	0	0	%100
34	M71	Z	0	0	0	%100
35	M72	X	-1.016	-1.016	0	%100
36	M72	Z	-1.759	-1.759	0	%100
37	MP5A	X	-.322	-.322	0	%100
38	MP5A	Z	-.557	-.557	0	%100
39	MP1A	X	-.322	-.322	0	%100
40	MP1A	Z	-.557	-.557	0	%100
41	MP4A	X	-.322	-.322	0	%100
42	MP4A	Z	-.557	-.557	0	%100
43	MP2A	X	-.322	-.322	0	%100
44	MP2A	Z	-.557	-.557	0	%100
45	MP3A	X	-.322	-.322	0	%100
46	MP3A	Z	-.557	-.557	0	%100
47	MP5C	X	-.322	-.322	0	%100
48	MP5C	Z	-.557	-.557	0	%100
49	MP1C	X	-.322	-.322	0	%100
50	MP1C	Z	-.557	-.557	0	%100
51	MP4C	X	-.322	-.322	0	%100
52	MP4C	Z	-.557	-.557	0	%100
53	MP2C	X	-.322	-.322	0	%100
54	MP2C	Z	-.557	-.557	0	%100
55	MP3C	X	-.322	-.322	0	%100
56	MP3C	Z	-.557	-.557	0	%100
57	MP5B	X	-.322	-.322	0	%100
58	MP5B	Z	-.557	-.557	0	%100
59	MP1B	X	-.322	-.322	0	%100
60	MP1B	Z	-.557	-.557	0	%100
61	MP4B	X	-.322	-.322	0	%100
62	MP4B	Z	-.557	-.557	0	%100
63	MP2B	X	-.322	-.322	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
64	MP2B	Z	-.557	-.557	0	%100
65	MP3B	X	-.322	-.322	0	%100
66	MP3B	Z	-.557	-.557	0	%100
67	M62	X	-.238	-.238	0	%100
68	M62	Z	-.412	-.412	0	%100
69	M63	X	-.292	-.292	0	%100
70	M63	Z	-.506	-.506	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M66	X	-.292	-.292	0	%100
74	M66	Z	-.506	-.506	0	%100
75	M87A	X	0	0	0	%100
76	M87A	Z	0	0	0	%100
77	M90A	X	-.396	-.396	0	%100
78	M90A	Z	-.685	-.685	0	%100
79	M91A	X	-.571	-.571	0	%100
80	M91A	Z	-.99	-.99	0	%100
81	M92A	X	-.396	-.396	0	%100
82	M92A	Z	-.685	-.685	0	%100
83	M90B	X	-.355	-.355	0	%100
84	M90B	Z	-.614	-.614	0	%100
85	M93B	X	-.355	-.355	0	%100
86	M93B	Z	-.614	-.614	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	Y	-.285	-6.484	0	1.58
2	M73	Y	-6.484	-13.624	1.58	3.16
3	M73	Y	-13.624	-20.367	3.16	4.74
4	M73	Y	-20.367	-12.078	4.74	6.32
5	M73	Y	-12.078	-.285	6.32	7.9
6	M72	Y	-.418	-11.668	5.267	6.847
7	M72	Y	-11.668	-19.465	6.847	8.427
8	M72	Y	-19.465	-13.299	8.427	10.007
9	M72	Y	-13.299	-6.369	10.007	11.587
10	M72	Y	-6.369	-.418	11.587	13.167
11	M73	Y	-.351	-12.085	5.267	6.847
12	M73	Y	-12.085	-19.216	6.847	8.427
13	M73	Y	-19.216	-12.104	8.427	10.007
14	M73	Y	-12.104	-6.082	10.007	11.587
15	M73	Y	-6.082	-.513	11.587	13.167
16	M71	Y	-.286	-6.682	0	1.58
17	M71	Y	-6.682	-14.147	1.58	3.16
18	M71	Y	-14.147	-20.822	3.16	4.74
19	M71	Y	-20.822	-12.201	4.74	6.32
20	M71	Y	-12.201	-.286	6.32	7.9
21	M71	Y	-.285	-12.078	5.267	6.847
22	M71	Y	-12.078	-20.359	6.847	8.427
23	M71	Y	-20.359	-13.607	8.427	10.007
24	M71	Y	-13.607	-6.475	10.007	11.587
25	M71	Y	-6.475	-.285	11.587	13.167
26	M72	Y	-.38	-6.312	0	1.58
27	M72	Y	-6.312	-13.23	1.58	3.16
28	M72	Y	-13.23	-19.648	3.16	4.74
29	M72	Y	-19.648	-11.683	4.74	6.32
30	M72	Y	-11.683	-.38	6.32	7.9

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location...	End Location[f...
1	M73	Y	-.519	-11.816	0	1.58
2	M73	Y	-11.816	-24.826	1.58	3.16
3	M73	Y	-24.826	-37.114	3.16	4.74
4	M73	Y	-37.114	-22.009	4.74	6.32
5	M73	Y	-22.009	-.519	6.32	7.9
6	M72	Y	-.761	-21.261	5.267	6.847
7	M72	Y	-21.261	-35.47	6.847	8.427
8	M72	Y	-35.47	-24.234	8.427	10.007
9	M72	Y	-24.234	-11.607	10.007	11.587
10	M72	Y	-11.607	-.761	11.587	13.167
11	M73	Y	-.64	-22.022	5.267	6.847
12	M73	Y	-22.022	-35.015	6.847	8.427
13	M73	Y	-35.015	-22.057	8.427	10.007
14	M73	Y	-22.057	-11.082	10.007	11.587
15	M73	Y	-11.082	-.935	11.587	13.167
16	M71	Y	-.522	-12.176	0	1.58
17	M71	Y	-12.176	-25.778	1.58	3.16
18	M71	Y	-25.778	-37.943	3.16	4.74
19	M71	Y	-37.943	-22.234	4.74	6.32
20	M71	Y	-22.234	-.522	6.32	7.9
21	M71	Y	-.519	-22.009	5.267	6.847
22	M71	Y	-22.009	-37.099	6.847	8.427
23	M71	Y	-37.099	-24.796	8.427	10.007
24	M71	Y	-24.796	-11.799	10.007	11.587
25	M71	Y	-11.799	-.519	11.587	13.167
26	M72	Y	-.693	-11.503	0	1.58
27	M72	Y	-11.503	-24.107	1.58	3.16
28	M72	Y	-24.107	-35.802	3.16	4.74
29	M72	Y	-35.802	-21.289	4.74	6.32
30	M72	Y	-21.289	-.693	6.32	7.9

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N180	N179	N161	N156	Y	A-B	-.009
2	N193	N194	N159	N155	Y	A-B	-.009
3	N168	N169	N162	N158	Y	A-B	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N180	N179	N161	N156	Y	A-B	-.016
2	N193	N194	N159	N155	Y	A-B	-.016
3	N168	N169	N162	N158	Y	A-B	-.016

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [..	LC	MZ [k-ft]	LC
1	N153A	m...	3100.687	10	701.849	7	1516.404	1	.406	7	2.256	4	1.173	4
2		min	-3090.301	4	-839.128	1	-2278.544	7	-.566	1	-2.251	10	-1.19	10
3	N171	m...	1563.644	11	680.543	3	2962.393	12	1.092	12	2.31	12	.67	7
4		min	-2233.272	5	-814.511	9	-2582.25	6	-1.03	6	-2.3	6	-.533	1
5	N185	m...	2477.189	9	795.864	11	2912.874	2	1.196	2	2.314	8	.663	2
6		min	-1824.201	3	-839.985	5	-2521.647	8	-1.117	8	-2.31	2	-.756	8
7	N175B	m...	32.12	10	3799.61	13	303.116	7	0	51	0	10	0	4
8		min	-32.083	4	-369.607	7	-3125.306	13	0	1	0	4	0	10

Envelope Joint Reactions (Continued)

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [..	LC	MZ [k-ft]	LC
9	N178A	m...	255.636	3	3770.36	21	1550.412	21	0	12	0	42	0	42
10		min	-2685.51	21	-360.078	3	-147.576	3	0	42	0	12	0	12
11	N181A	m...	2708.096	17	3801.73	17	1563.593	17	0	2	0	2	0	2
12		min	-308.014	11	-432.681	11	-177.849	11	0	32	0	32	0	32
13	Totals:	m...	4990.644	10	9564.201	20	4971.458	1						
14		min	-4990.644	4	3641.085	3	-4971.457	7						

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

	Member	Shape	Code Ch...	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	...	Eqn
1	M73	L6X4X6	.170	3.292	24	.342	6.583	z	12	2472...	1169...	5.109	12.765	...	H2-1
2	M76	HSS4X...	.282	2.539	13	.216	0	z	10	9127...	1068...	12.662	12.662	...	H1-...
3	M77	L5X3.5...	.641	2.891	13	.039	2.891	z	23	6335...	98820	3.814	10.733	...	H2-1
4	M78	PL1/2X...	.316	.417	24	.030	.417	y	13	6843...	72900	.759	6.834	...	H1-...
5	M79	PL1/2X...	.310	0	24	.033	0	y	23	6843...	72900	.759	6.834	...	H1-...
6	M84	PL3/8X8	.500	.625	13	.148	1.251	y	23	3524...	97200	.759	16.2	...	H1-...
7	M85	HSS4X...	.279	2.539	21	.218	0	z	6	9127...	1068...	12.662	12.662	...	H1-...
8	M86	L5X3.5...	.640	2.891	21	.038	2.891	z	19	6335...	98820	3.814	10.733	...	H2-1
9	M87	PL1/2X...	.313	.417	21	.030	.417	y	21	6843...	72900	.759	6.834	...	H1-...
10	M88	PL1/2X...	.310	0	22	.032	0	y	19	6843...	72900	.759	6.834	...	H1-...
11	M93	PL3/8X8	.491	.625	22	.147	.625	y	18	3524...	97200	.759	16.2	...	H1-...
12	M94	HSS4X...	.280	2.539	17	.236	0	z	2	9127...	1068...	12.662	12.662	...	H1-...
13	M95	L5X3.5...	.640	2.891	17	.038	2.891	z	15	6335...	98820	3.814	10.733	...	H2-1
14	M96	PL1/2X...	.314	.417	17	.030	.417	y	17	6843...	72900	.759	6.834	...	H1-...
15	M97	PL1/2X...	.307	0	18	.032	0	y	15	6843...	72900	.759	6.834	...	H1-...
16	M102	PL3/8X8	.501	.625	29	.148	.625	y	14	3524...	97200	.759	16.2	...	H1-...
17	M71	L6X4X6	.170	3.292	20	.334	6.583	z	8	2472...	1169...	5.109	12.765	...	H2-1
18	M72	L6X4X6	.167	3.292	15	.375	6.583	z	4	2472...	1169...	5.109	12.678	...	H2-1
19	MP5A	PIPE_...	.196	.875	12	.073	3.313		12	2086...	32130	1.872	1.872	...	H1-...
20	MP1A	PIPE_...	.183	3.313	3	.079	1.938		3	2086...	32130	1.872	1.872	...	H1-...
21	MP4A	PIPE_...	.426	2.333	1	.114	2.333		7	1785...	32130	1.872	1.872	...	H1-...
22	MP2A	PIPE_...	.213	4.813	4	.078	4.813		6	1785...	32130	1.872	1.872	...	H1-...
23	MP3A	PIPE_...	.402	4.5	2	.084	4.5		10	2086...	32130	1.872	1.872	...	H1-...
24	MP5C	PIPE_...	.206	3.313	6	.070	3.313		8	2086...	32130	1.872	1.872	...	H1-...
25	MP1C	PIPE_...	.191	3.313	11	.093	1.938		11	2086...	32130	1.872	1.872	...	H1-...
26	MP4C	PIPE_...	.426	2.333	9	.118	2.333		3	1785...	32130	1.872	1.872	...	H1-...
27	MP2C	PIPE_...	.226	4.813	12	.076	4.813		2	1785...	32130	1.872	1.872	...	H1-...
28	MP3C	PIPE_...	.437	4.5	10	.094	4.5		12	2086...	32130	1.872	1.872	...	H1-...
29	MP5B	PIPE_...	.240	.875	5	.083	.875		4	2086...	32130	1.872	1.872	...	H1-...
30	MP1B	PIPE_...	.188	3.313	8	.082	1.938		7	2086...	32130	1.872	1.872	...	H1-...
31	MP4B	PIPE_...	.656	3.333	5	.130	3.333		11	1491...	32130	1.872	1.872	...	H1-...
32	MP2B	PIPE_...	.217	4.813	8	.092	4.813		10	1785...	32130	1.872	1.872	...	H1-...
33	MP3B	PIPE_...	.444	4.5	6	.091	4.5		4	2086...	32130	1.872	1.872	...	H1-...
34	M62	PIPE_...	.110	2.167	11	.018	2.167		11	3037...	32130	1.872	1.872	...	H1-...
35	M63	PIPE_...	.161	11.109	3	.127	2.057		7	1312...	50715	3.596	3.596	...	H1-...
36	M65	PIPE_...	.208	11.109	11	.131	2.057		3	1312...	50715	3.596	3.596	...	H1-...
37	M66	PIPE_...	.206	3.292	5	.172	2.057		11	1312...	50715	3.596	3.596	...	H1-...
38	M87A	L3X3X4	.306	1.734	1	.036	.018	y	12	4365...	46656	1.688	3.756	...	H2-1
39	M90A	LL3x3x...	.097	0	13	.002	3.905	z	10	5063...	70632	4.823	3.751	1	H1-...
40	M91A	LL3x3x...	.096	0	21	.002	0	z	6	5063...	70632	4.823	3.751	1	H1-...
41	M92A	LL3x3x...	.097	0	17	.002	3.905	z	2	5063...	70632	4.823	3.751	1	H1-...
42	M90B	L3X3X4	.315	1.734	9	.035	1.734	y	9	4365...	46656	1.688	3.756	...	H2-1
43	M93B	L3X3X4	.411	1.734	5	.045	1.734	y	5	4365...	46656	1.688	3.756	...	H2-1

Structure: 467729-VZW - SUFFIELD W CT

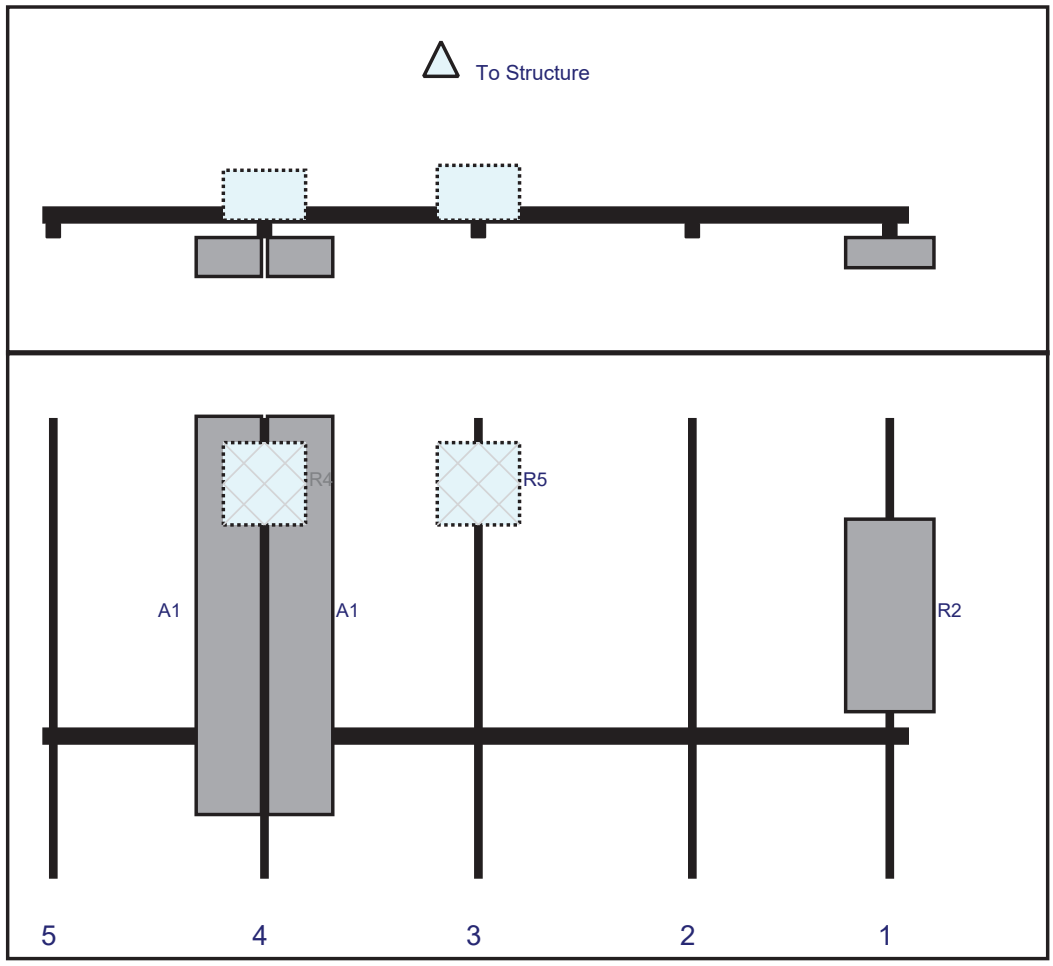
Sector: **A** 9/7/2021

Structure Type: Self Support 10046605

Mount Elev: 158.00 Page: 1

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	MT6407-77A	35.1	16.1	154.5	1	a	Front	36	0	Added	
R5	RF4439d-25A	15	15	79.5	3	a	Behind	12	0	Added	
A1	SBNHH-1D65B	72.6	11.9	40.5	4	a	Front	36	-6.5	Retained	03/30/2021
A1	SBNHH-1D65B	72.6	11.9	40.5	4	b	Front	36	6.5	Retained	03/30/2021
R4	RF4440d-13A	15	15	40.5	4	a	Behind	12	0	Added	

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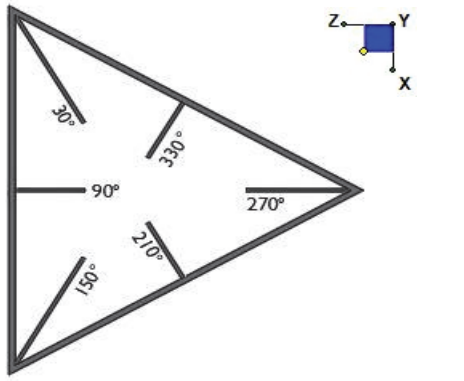
Client:	VERIZON WIRELESS	Date:	9/15/2021
Site Name:	SUFFIELD W CT		
Project No.	21777319A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

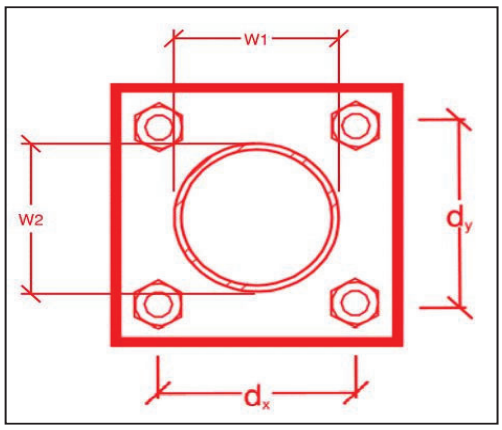
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N171	30
N185	150
N153A	270



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):	0.5
Required Tensile Strength (kips):	11.3
Required Shear Strength (kips):	10.2
Tensile Strength / bolt (kips):	13.3
Shear Strength / bolt (kips):	8.0
Tensile Capacity Overall:	**21.3%***
Shear Capacity Overall:	**32.0%**



**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):	0.75
Weld Size (1/16 in):	4
Phi*Rn (kip/in):	5.57
Required Weld Strength (kip/in):	1.75
Plate Bending Capacity:	**16.2%**
Weld Capacity:	**31.4%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)*:	0.3
$Phi*Mn_{xx}$ *(kip-in)*:	36.5
Mu_{yy} *(kip-in)*:	5.6
$Phi*Mn_{yy}$ *(kip-in)*:	36.5

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

---

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

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

Base Requirements:

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

Photo Requirements:

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

- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.

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

Material Certification:

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

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

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

OR

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

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

Comments:

Certifying Individual:

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

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

☐ Yes ☐ No

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

Issue:

1. Contractor to install safety climb cable guide (Site Pro 1, Part #: 120-203/317 or EOR approved equivalent in locations where wire rope is rubbing against mount to tower attachments. Contractor to provide photos of safety climb guide installation.

Response:

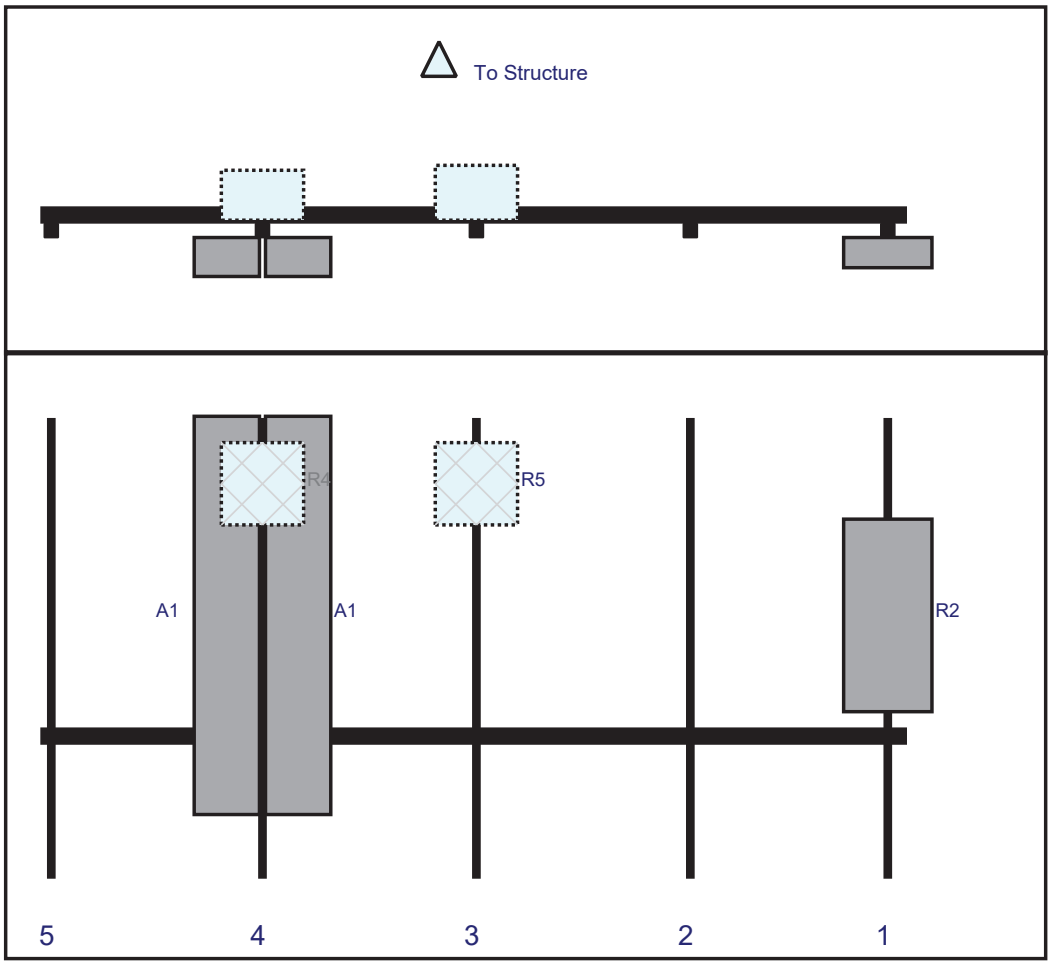
Contractor certifies that the climbing facility / safety climb was not damaged during installation:

☐ Yes ☐ No

Comments:

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
R2	MT6407-77A	35.1	16.1	154.5	1	a	Front	36	0	Added	
R5	RF4439d-25A	15	15	79.5	3	a	Behind	12	0	Added	
A1	SBNHH-1D65B	72.6	11.9	40.5	4	a	Front	36	-6.5	Retained	03/30/2021
A1	SBNHH-1D65B	72.6	11.9	40.5	4	b	Front	36	6.5	Retained	03/30/2021
R4	RF4440d-13A	15	15	40.5	4	a	Behind	12	0	Added	

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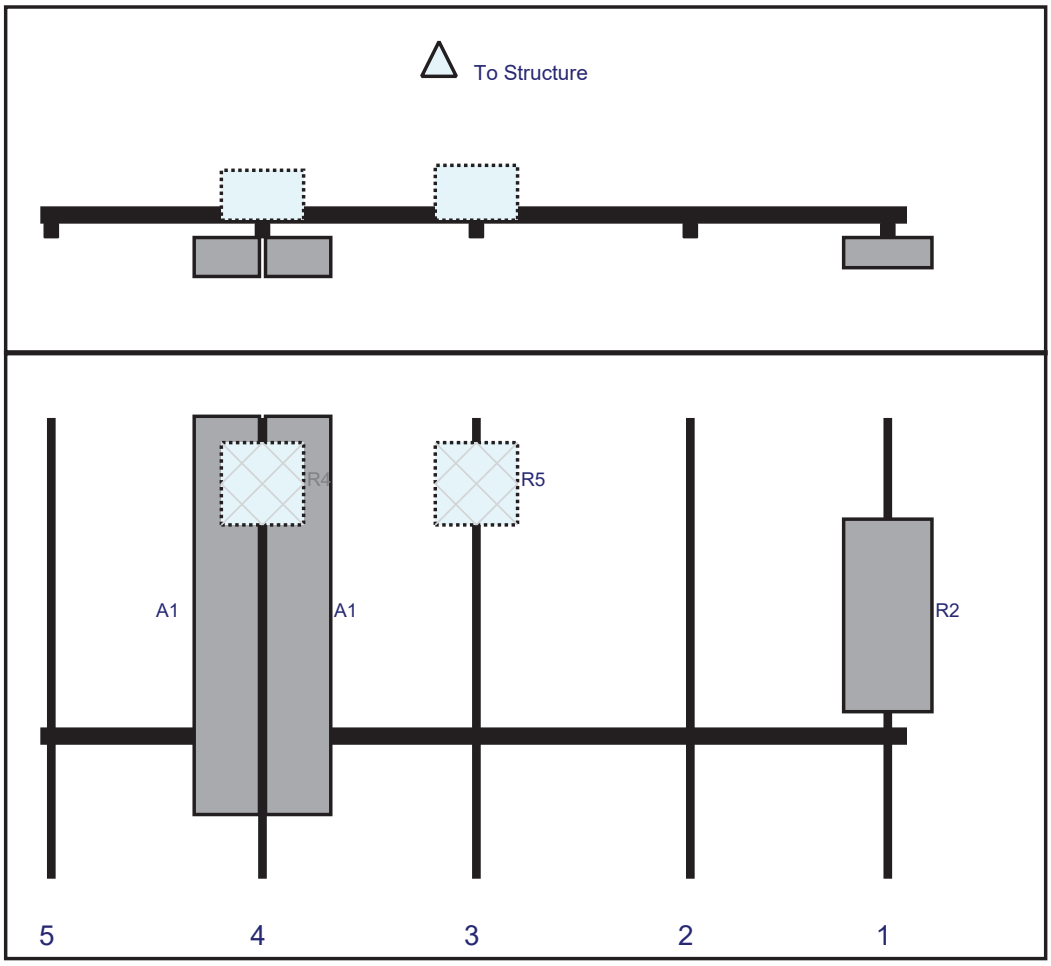
Plan View

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
R2	MT6407-77A	35.1	16.1	154.5	1	a	Front	36	0	Added	
R5	RF4439d-25A	15	15	79.5	3	a	Behind	12	0	Added	
A1	SBNHH-1D65B	72.6	11.9	40.5	4	a	Front	36	-6.5	Retained	03/30/2021
A1	SBNHH-1D65B	72.6	11.9	40.5	4	b	Front	36	6.5	Retained	03/30/2021
R4	RF4440d-13A	15	15	40.5	4	a	Behind	12	0	Added	

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MASER CONSULTING
— CONNECTICUT—

Maser Consulting Connecticut

Subject	TIA-222-H Adoption and Wind Speed Usage	
Site Information	*Site ID:*	*467729-VZW / SUFFIELD W CT*
	Site Name:	*SUFFIELD W CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*2715 Mountain Rd.* *Suffield, Connecticut 06078* *Hartford County*
	Latitude:	*42.011611°*
	Longitude:	*-72.728778°*
Structure Information	*Tower Type:*	*Self Support*
	Mount Type:	*13.17-Ft Platform*

To Whom It May Concern,

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

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

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

Digitally signed by Justin Linette
Date: 2021.09.17 13:47:55-04'00'

Justin Linette, PE
Technical Manager

Exhibit F

Power Density/RF Emissions Report

Site Name: ***SUFFIELD W CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	697	2788	160	0.0039	0.5007	0.78%
VZW CDMA	869	2	394	789	160	0.0011	0.5793	0.19%
VZW Cellular	869	4	826	3304	160	0.0046	0.5793	0.80%
VZW PCS	1980	4	1449	5796	160	0.0081	1.0000	0.81%
VZW AWS	2125	4	1554	6216	160	0.0087	1.0000	0.87%
VZW CBAND	3730	4	6531	26124	160	0.0367	1.0000	3.67%
Total Percentage of Maximum Permissible Exposure								7.13%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

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

Absolute worst case maximum values used.

Exhibit F

Recipient Mailings

UNITED STATES POSTAL SERVICE®

Click-N-Ship®

9405 5036 9930 0064 1871 42 0087 0000 0010 6078

usps.com
$8.70
US POSTAGE
Flat Rate Env

U.S. POSTAGE PAID
Click-N-Ship®

11/16/2021 Mailed from 01566

P

PRIORITY MAIL 2-DAY™

Expected Delivery Date: 11/19/21

Ref#: CR-801485

0006

C003

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

SHIP TO: MELISSA M MACK
FIRST SELECTWOMAN
83 MOUNTAIN RD
SUFFIELD CT 06078-2041

USPS TRACKING #

9405 5036 9930 0064 1871 42

Electronic Rate Approved #038555749

Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
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.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0064 1871 42

Trans. #:	548522820
Print Date:	11/16/2021
Ship Date:	11/16/2021
Expected Delivery Date:	11/19/2021

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

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

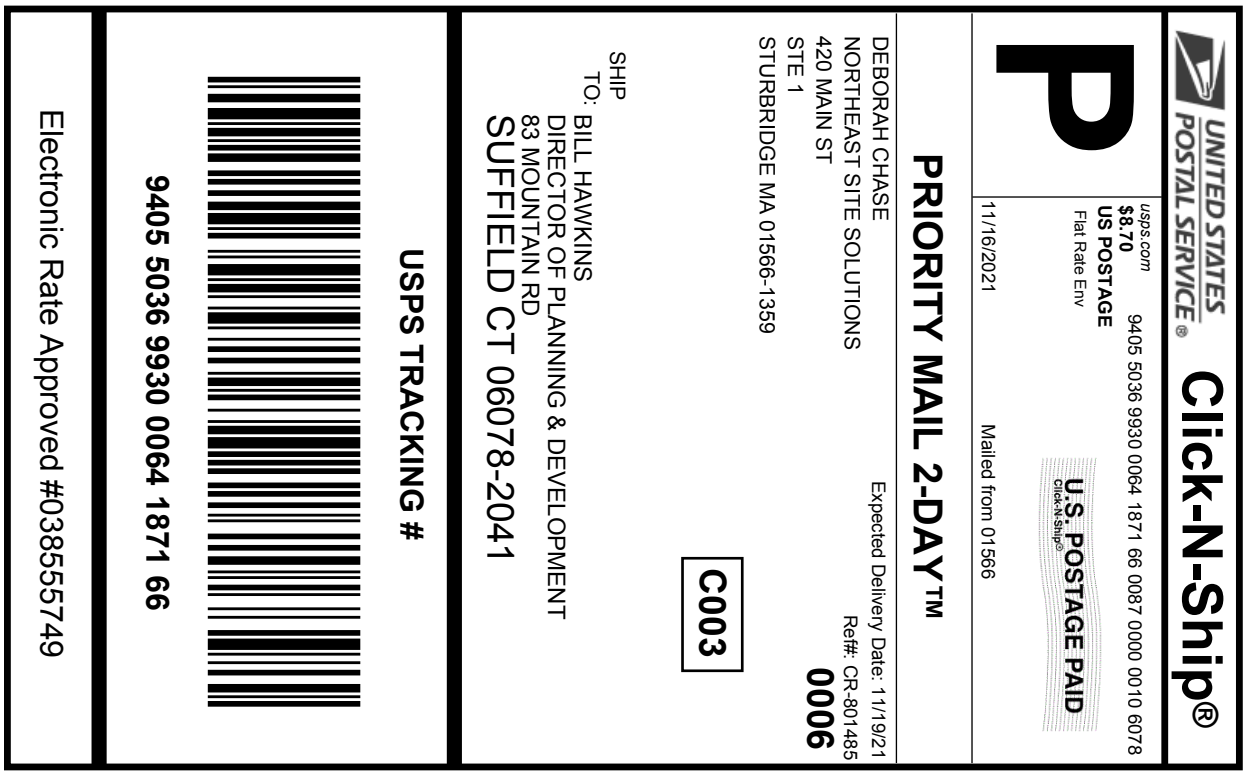
Ref#: CR-801485

To: MELISSA M MACK
FIRST SELECTWOMAN
83 MOUNTAIN RD
SUFFIELD CT 06078-2041

* 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.

UNITED STATES POSTAL SERVICE®

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



Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
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.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0064 1871 66

Trans. #:	548522820
Print Date:	11/16/2021
Ship Date:	11/16/2021
Expected Delivery Date:	11/19/2021

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

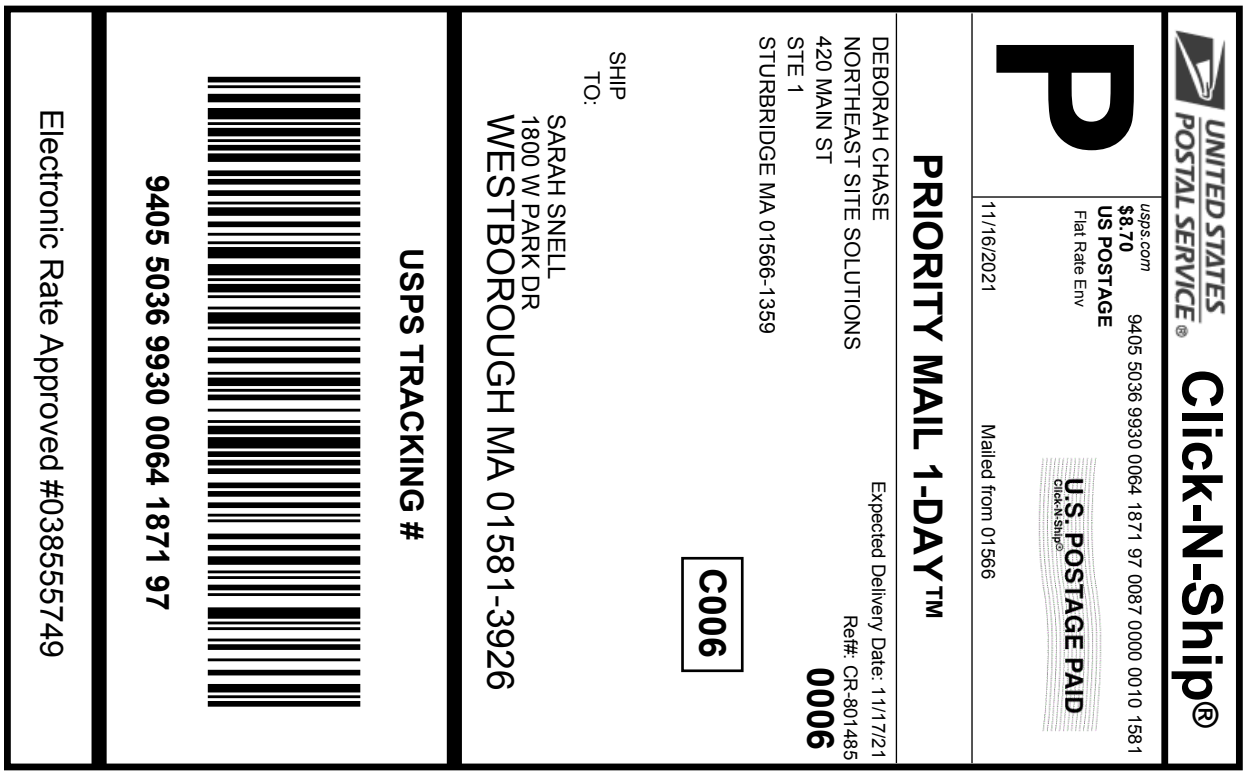
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-801485

To: BILL HAWKINS
DIRECTOR OF PLANNING & DEVELOPMENT
83 MOUNTAIN RD
SUFFIELD CT 06078-2041

* 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



Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
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.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0064 1871 97

Trans. #:	548522820
Print Date:	11/16/2021
Ship Date:	11/16/2021
Expected Delivery Date:	11/17/2021

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-801485

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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80148 S

UNITED STATES POSTAL SERVICE.

FARMINGTON
210 MAIN ST
FARMINGTON, CT 06032-9998
(800)275-8777

11/17/2021 02:57 PM

Product	Qty	Unit Price	Price
Prepaid Mail Westborough, MA 01581 Weight: 0 lb 2.00 oz Acceptance Date: Wed 11/17/2021 Tracking #: 9405 5036 9930 0064 1871 97	1		$0.00
Prepaid Mail Suffield, CT 06078 Weight: 0 lb 7.00 oz Acceptance Date: Wed 11/17/2021 Tracking #: 9405 5036 9930 0064 1871 66	1		$0.00
Prepaid Mail Suffield, CT 06078 Weight: 0 lb 7.00 oz Acceptance Date: Wed 11/17/2021 Tracking #: 9405 5036 9930 0064 1871 42	1		$0.00
Grand Total:			$0.00

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USPS is experiencing unprecedented volume