

One State Street
Hartford, CT 06103
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts
and New York

October 9, 2024

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification**
290 Preston Avenue, Middletown, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas on an existing tower and associated equipment on the ground, near the base of the tower. The tower was approved by the City of Middletown (“City”) in September of 2001. Cellco’s shared use of the tower was approved by the Siting Council (“Council”) in December of 2001 (TS-VER-083-011127). A copy of the City’s approval and Cellco’s shared use approval are included in Attachment 1.

Cellco now intends to modify its facility by removing nine (9) antennas and three (3) remote radio heads (“RRHs”) and installing nine (9) new antennas and six (6) new RRHs on its existing antenna platform with new antenna mounts. A set of project plans showing Cellco’s proposed facility modifications and the specifications for Cellco’s new antennas and RRHs are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Middletown’s Chief Elected Official and Land Use Officer. A copy of this letter is also being sent to the owner of the Property.

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

29720336-v1

Melanie A. Bachman, Esq.
October 9, 2024
Page 2

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's new antennas and RRHs will be installed at the same height on the tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Included in Attachment 3 is a Calculated Radio Frequency Emissions Report demonstrating that the proposed modified facility will comply with the FCC safety standards. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis Report ("SA") and Antenna Mount Analysis Report ("MA"), the existing tower, tower foundation and new antenna mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Benjamin Florsheim, Mayor
Marek Kozikowski, Director of Land Use
Ernest and Brenda Trumpold, Property Owner
Aleksey Tyurin

ATTACHMENT 1

BUILDING PERMIT

DEPT. FILE COPY

AMOUNT PAID

VALIDATION

DATE 9/10/2001 20

PERMIT NO. 26221

APPLICANT VoicesStream Wireless/Omnipoint Communications ADDRESS 100 HILLEY ST. BLOOMFIELD, CT. 06002 (CONTR'S LICENSE) MCO.901003

PERMIT TO Install telecommunication antennas & associated equipment on an EXISTING TOWER (TYPE OF IMPROVEMENT) NO. 06002 (PROPOSED USE) NUMBER OF DWELLING UNITS

AT (LOCATION) 290 Preston Avenue ZONING DISTRICT
(NO.) (STREET)
BETWEEN (CROSS STREET) AND (CROSS STREET)

SUBDIVISION LOT BLOCK LOT SIZE

BUILDING IS TO BE FT. WIDE BY FT. LONG BY FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE USE GROUP BASEMENT WALLS OR FOUNDATION (TYPE)

REMARKS: Install Telecommunication Antennas and Associated Equipment on an Existing Tower.

AREA OR VOLUME (CUBIC/SQUARE FEET) ESTIMATED COST \$ 75,000.00 PERMIT FEE \$ 767.00

OWNER AT&T ADDRESS 15 East Midland Avenue, Paramus, NJ 07652 BUILDING DEPT. BY John C. [Signature]

(Affidavit on reverse side of application to be completed by authorized agent of owner)

FORM NO. BOCA - BP 1994



City of Middletown

PUBLIC WORKS DEPARTMENT / BUILDING DIVISION
245 deKoven Drive, P.O. Box 1300, Middletown, CT 06457-1300
TEL: (860) 344-3416 FAX: (860) 344-3590
TDD: (860) 344-3521

October 10, 2002

To: Voice Stream Wireless/
Omnipoint Communications
100 Filley Street
Bloomfield, CT. 06002

From: John C. Parker, Jr.
Chief Building Official
City of Middletown

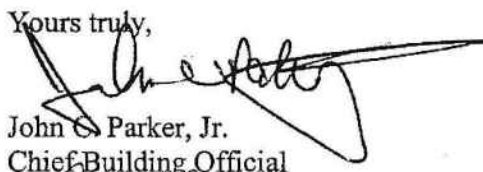
Re: Building Permit #26221
290 Preston Avenue
Installed Telecommunication Antennas &
Associated Equipment On An Existing Tower

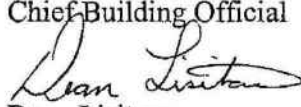
To Whom It May Concern:

Please be advised that the Middletown Building Department has inspected the above referenced property (Installed telecommunication antennas and associated equipment on an existing tower) and it has been determined that it meets all the requirements of the Connecticut Building Code.

If you have any questions, please feel free to contact this office.

Yours truly,


John C. Parker, Jr.
Chief Building Official


Dean Lisitano
Electrical Inspector


Guy Cardella
Mechanical Inspector

Jcp/mlld

December 13, 2001

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

RE: **TS-VER-083-011127** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 290 Preston Avenue, Middletown, Connecticut.

Dear Attorney Baldwin:

At a public meeting held December 11, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

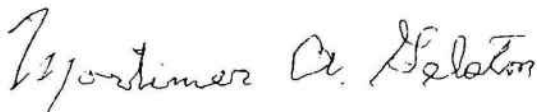
This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letters dated November 26, 2001, and December 6, 2001.

Thank you for your attention and cooperation.

Very truly yours,



Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Domenique S. Thornton, Mayor, City of Middletown
Planning and Zoning Official, City of Middletown
Christopher B. Fisher, Esq., Cuddy & Feder & Worby LLP
Ronald C. Clark, Nextel Communications
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Thomas J. Regan, Esq., Brown, Rudnick, Freed & Gesmer, P.C.

ATTACHMENT 2

[illegible]

FROM:	TO:
300 ALEXANDER DRIVE	300 PITCHING AVENUE
WILSON, CT 06494	WILSON, CT 06494
CONTRACT#	
1. START LOT 208 NORTH ON ALEXANDER RD.	
2. TURN LEFT ON NORTH AVE. TO 1ST	
3. TAKE FIRST LEFT ON NORTH AVE.	
4. TURN LEFT ON NORTH AVE. TO 2ND	
5. MAKE RIGHT ON 2ND AVE. TO 1ST TOWARD	
6. MAKE LEFT ON 1ST AVE. TO 1ST TOWARD	
7. TURN STRAIGHT TO GO EAST ON BALDWIN AVENUE	
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131. TURN RIGHT ON BALD	

SCALE 1" = 1000'

Highland

Highland Reservoir

HIGHLAND FAULT

0 1000'

0 1000'

ETC NAME: MIDDLETOWN W CT
 SITE ADDRESS: 200 PRESTON AVENUE
 MIDDLETOWN, CT 06457
 LSE/LC/PLANT: 43.5 VOLTAGE WIRELESS
 43.5 VOLTAGE WIRELESS
 20 ALFRED STREET
 MIDDLETOWN, CT 06457
 CONTRACT PERSON: WALTER CHURCH (CONSTRUCTION WALKER)
 VERNON WIRELESS
 (860) 300-1808
 ENGINEER: CENTEX ENGINEERING, INC.
 1000 WILSON AVENUE
 BRAINTREE, CT 06400
 (203) 466-0340
 PROJECT COORDINATOR: LATITUDE: 41° 37' 26.695"N
 LONGITUDE: 72° 50' 00.000"W
 GROUND ELEVATION: 817' AMSL
 (COORDINATES REFERENCED FROM VERNON WIRELESS RECD DATE 10/12/2023)

REV.	DESCRIPTION	REV.
T-1	TITLE SHEET	6
B-1	RF BILL OF MATERIALS	6
C-1	COMPOUND PLAN AND ELEVATION	6
C-2	ANTENNA SECTOR CONFIGURATION DETAILS	6
C-3	RF DETAILS	6
E-1	ELECTRICAL DETAILS AND SPECIFICATIONS	6

THE PROPOSED UPGRADE SCOPE OF WORK AT THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY GENERALLY INCLUDES THE FOLLOWING:

- REMOVE (2) EXISTING AMPHENOL BOX-70083-8CF ANTENNAS.
- REMOVE (3) EXISTING ANDREW LNK-8513DS-V7M ANTENNAS.
- REMOVE (3) EXISTING ANDREW HBR-6517DS-V7M ANTENNAS.

- REMOVE (1) EXISTING ANDREW LNX-6514DS-A11M ANTENNA.
- REMOVE (3) NOKIA RRU UNITS.

- * REMOVE (1) EXISTING RAYCAP RRFDC-3315-PF-4B OVP-6 B
- * REMOVE (6) EXISTING RFS SOLDIERS.

- * REMOVE (1) EXISTING 1-5/8" COAX CABLE

- RETAIN (3) EXISTING ANDREW HSB-651EDS-VTM ANTENNAS
- RETAIN (1) EXISTING 6x12 HYDRIFLEX CABLE

- RETAIN (11) EXISTING 1-5/8" COAX CABLES.
- INSTALL ANTENNA MOUNT MODIFICATIONS. DESIGN IS BY OTHERS.

- INSTALL (6) JMA WYDOPROSO-03 ANTENNAS TO MODIFICATION DESIGN REFERENCE NOTE ON SHEET C-2.
- INSTALL (2) RAUMLING STRIPS-TTA ANTENNAE AND SUPPORTS

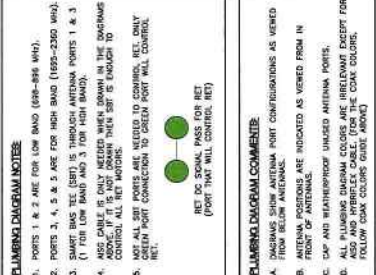
- INSTALL (3) SAUSJUNG B106J-77K ANTENNAS (WITH INSTRUCTIONS)
- INSTALL (3) SAUSJUNG B2106S BIRTH CRAN (W/443Bd-23A) BIRTH

- * INSTALL R5/R18.12 WITH CROWN (R044B-136)
- (C) TITUS
- (I) INZOC-6627-PF-48 OVP BOX ON EXISTING OVP
- (I) E-65 LABORATORY TABLE

- REPAIRS / 33 NEWIN DOLL HOUSE

- * MEASURE 107 MONITORING UNIT.

Verizon VERIZON WIRELESS 1000 VERIZON DRIVE BOSTON, MA 02111 TEL: 617 492 4000 FAX: 617 492 4001 WWW.VERIZONWIRELESS.COM		DATE: 06/09/22 AS NOTED 2017-20	TITLE SHEET	1-1
Celco Partnership d/b/a Verizon Wireless 290 PRESTON AVENUE MIDDLETOWN, CT 06457 (203) 488-0000 63 North Bedford Road Bristol, CT 06033 www.CelcoTelco.com				
REV.	DATE	BY	CHG	DESCRIPTION
1	07/05/21	AKC	TLM	CONSTRUCTION - REQUEST FOR CABLE CONDUITS
2	07/12/21	AKC	TLM	CONSTRUCTION - REQUEST FOR CABLE CONDUITS
3	07/24/21	AKC	TLM	CONSTRUCTION - REQUEST FOR CABLE CONDUITS
4	08/04/21	AKC	TLM	CONSTRUCTION - REQUEST FOR CABLE CONDUITS
5	10/07/21	AKC	TLM	CONSTRUCTION - REQUEST FOR CABLE CONDUITS
6	10/07/21	AKC	TLM	CONSTRUCTION - REQUEST FOR CABLE CONDUITS



TECHNOLOGY		BILL OF MATERIALS		ANTENNA
LITE 700		QUANTITY		
LITE 850		6		JMA MODEL: M06P10H01-03
LITE PCS 1800				
LITE AMR 2100		3		SAUSING MODEL: M14113-77A
5G				
CABLES		QUANTITY	LENGTH	COMMENTS
HIBERO CABLE		1	8225 FT	8 x 12 HIBERO U CABLE
INDICES		QUANTITY	COMMENTS	
LITE 700		3	SAUSING MODEL: 05/013 RRR OMN [RFA486-13A]	
LITE 850			SAUSING MODEL: 05/013 RRR OMN [RFA486-25A]	
LITE PCS 1800		3	INTEGRATED AND M14113-77A ANTENNA	
LITE AMR 2100				
5G				
OPE ROKES		QUANTITY	COMMENTS	
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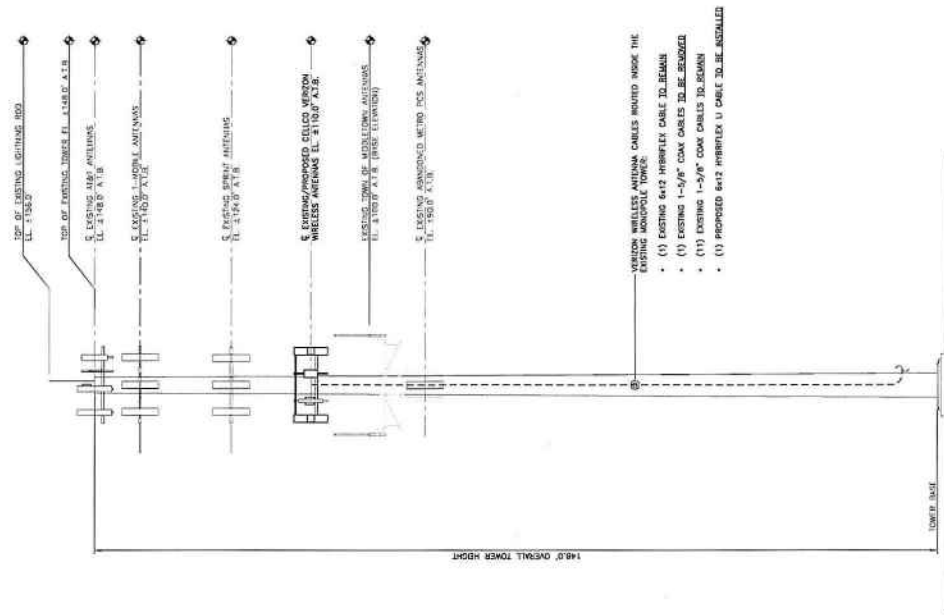
MIDDLETOWN W CT
290 PRESTON AVENUE
MIDDLETOWN, CT 06457

Cellco Partnership d/b/a Verizon Wireless
2024 484.818 Fax
42 North Bedford Road
Bristol, CT 06033
www.Cellco.net



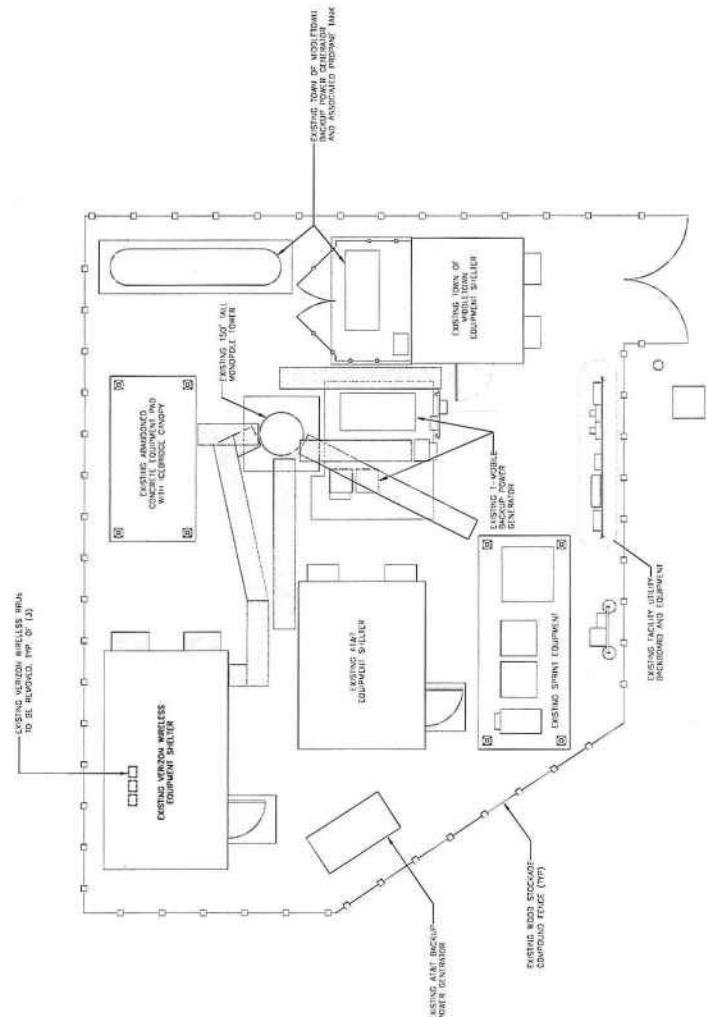
REV.	DATE	BY	CHK'D BY	DESCRIPTION
1	07/07/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED TO ADD GROUND ELEVATION
2	07/27/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED FOR NEW RADIO EQUIPMENT
3	07/27/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED FOR CLIENT COMMENTS
4	08/09/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED TO REMAIN FLATS
5	08/09/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED FOR CLIENT COMMENTS
6	08/09/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED FOR CLIENT COMMENTS
7	08/09/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED FOR CLIENT COMMENTS
8	08/09/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED FOR CLIENT COMMENTS
9	08/09/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED FOR CLIENT COMMENTS
10	08/09/22	DA	DA	CONSTRUCTION DRAWINGS - REVISED FOR CLIENT COMMENTS

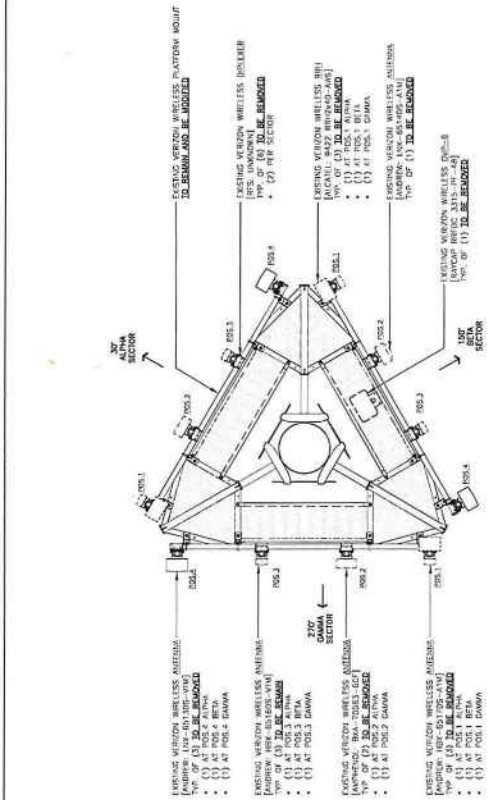
2 TOWER ELEVATION - PROPOSED CONDITIONS
C-1 SCALE: 1" = 12'-0"



TOWER STRUCTURAL ANALYSIS REFERENCE NOTE
REFER TO TOWER STRUCTURAL ANALYSIS REPORT
PREPARED BY G&B ENGINEERING AND ARCHITECTURE
DATE: 06/09/22
PROJECT NO. 2024722.01-1435.005 FOR ADDITIONAL
INFORMATION.

1 COMPOUND PLAN
C-1 SCALE: 3/16" = 1'-0"
APPROXIMATE NORTH

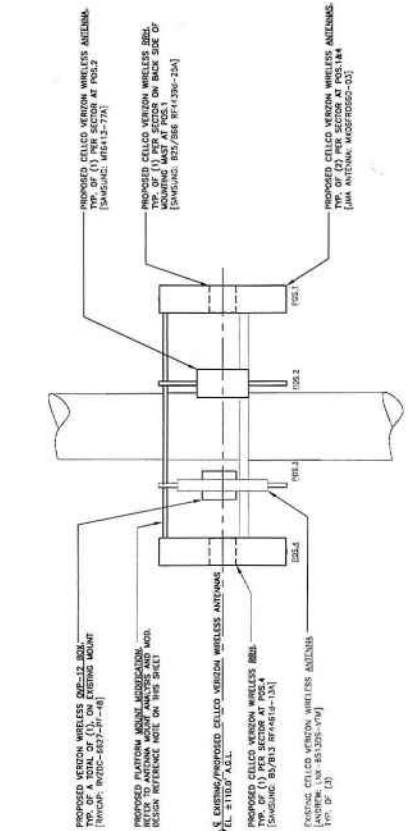
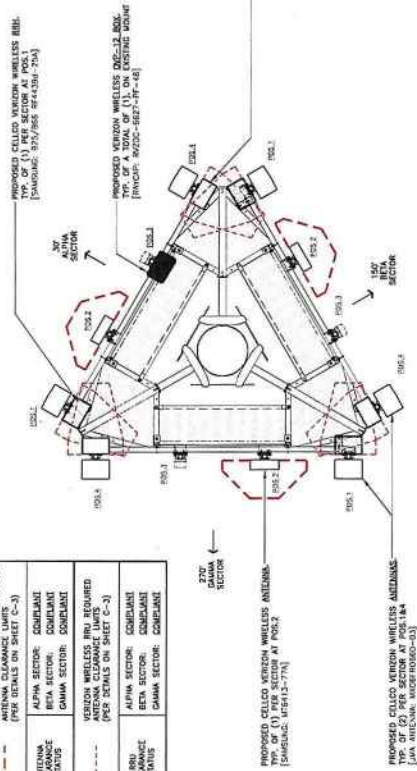


[illegible]

ANTENNA MOUNT ANALYSIS AND MOD. DESIGN REFERENCE NOTES

1. REFER TO VERIZON WIRELESS MOUNT ANALYSIS REPORT PREPARED BY MASSER CONSULTING CONNECTICUT DATED 11/15/2023 FOR ADDITIONAL INFORMATION.
2. REFER TO MOUNT MODIFICATION DRAWINGS PREPARED BY MASSER CONSULTING CONNECTICUT, DATED 11/15/2023 FOR MOUNT MODIFICATION INFORMATION.

LEGEND	
VISION UNLESS VISION REQUIRED FOR DETAILS ON SHEET C-3	
ANTENNA CLEARANCE STATUS	ALPHA SECTOR: COMPLIANT BETA SECTOR: COMPLIANT GAMMA SECTOR: COMPLIANT
VISION UNLESS VISION REQUIRED FOR DETAILS ON SHEET C-3	
RFU CLEARANCE STATUS	ALPHA SECTOR: COMPLIANT BETA SECTOR: COMPLIANT GAMMA SECTOR: COMPLIANT

 $\frac{2}{2}$ [illegible]

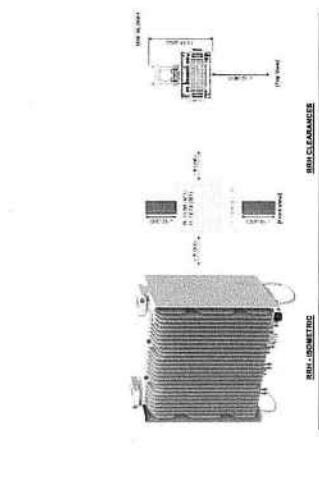
CEN TEK
Engineering and Construction
203 | 488-4580
203 | 488-4580 / Fax
1375 North Broadway Road
Bristol, CT 06010
www.centeck.com

Partnership d/b/a Verizon Wireless
DDELTOWN W CT
290 PRESTON AVENUE
MIDDLETOWN, CT CT 06457

DATE:	06/09/22
SCALE:	AS NOTED
JOB NO.	22027.08

ANTENNA SECTOR CONFIGURATION DETAILS

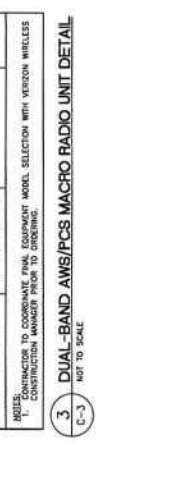
C-2



ELEVATION - DIMENSIONS

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: R4413-77A	71.37" x 13.47"	57.3 LBS.

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY WITH THE WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. ANTENNA HAS ITS OWN BUILT-IN RRU.



BOTTOM

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: R4413-77A	71.37" x 13.47"	57.3 LBS.

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY WITH THE WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. ANTENNA HAS ITS OWN BUILT-IN RRU.

1 SECTOR ANTENNA DETAIL

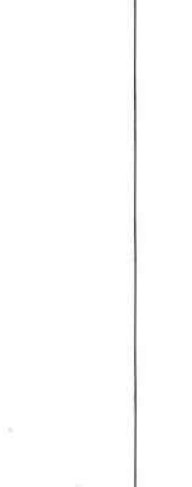
C-3 NOT TO SCALE



ELEVATION - DIMENSIONS

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: R4413-77A	14.67" x 14.67"	79.1 LBS.

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY WITH THE WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. RRU HAS ITS OWN BUILT-IN RRU.



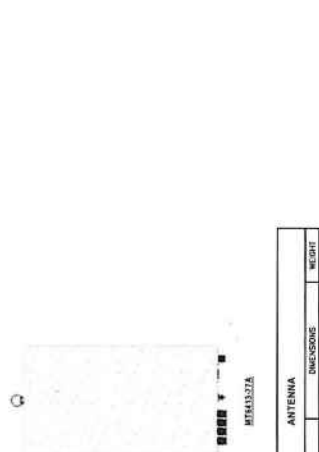
BOTTOM

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: R4413-77A	14.67" x 14.67"	79.1 LBS.

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY WITH THE WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. RRU HAS ITS OWN BUILT-IN RRU.

2 REMOTE RADIO UNIT (RRU) DETAIL

C-3 NOT TO SCALE



ELEVATION - DIMENSIONS

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: R4413-77A	15.25" x 15.25"	26.9 LBS.

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY WITH THE WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. RRU HAS ITS OWN BUILT-IN RRU.



BOTTOM

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: R4413-77A	15.25" x 15.25"	26.9 LBS.

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY WITH THE WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. RRU HAS ITS OWN BUILT-IN RRU.

3 DUAL-BAND AWS/PCS MACRO RADIO UNIT DETAIL

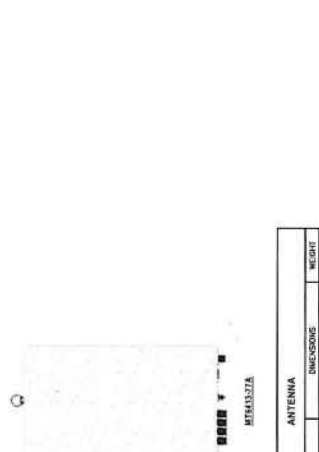
C-3 NOT TO SCALE



ELEVATION - DIMENSIONS

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: R4413-77A	15.25" x 15.25"	26.9 LBS.

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY WITH THE WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. RRU HAS ITS OWN BUILT-IN RRU.



BOTTOM

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: R4413-77A	15.25" x 15.25"	26.9 LBS.

NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM FINAL EQUIPMENT MAKE/MODEL AND QUANTITY WITH THE WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.
2. RRU HAS ITS OWN BUILT-IN RRU.

4 PROPOSED OVER-VOLTAGE PROTECTION BOX DETAIL

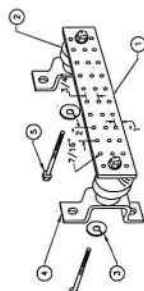
C-3 NOT TO SCALE

SECTION 16010
01. SCOPE OF WORK

- [illegible]

SECTION 16450

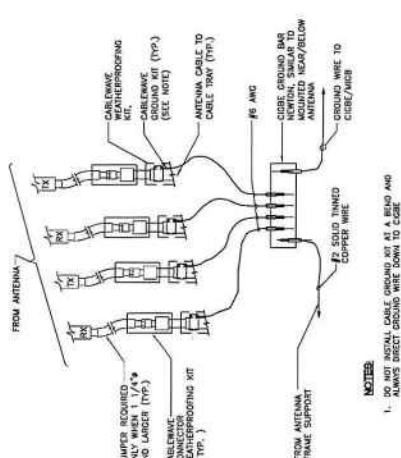
51. GROUNDING:
 - a. ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEM SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNDING SOURCE.
 - b. GROUNDING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST ADDENDUM EDITION OF THE NATIONAL ELECTRICAL CODE AND THE REQUIREMENTS FOR LOCAL INDOOR WIRING SUBSECTION.
 - c. EQUIPMENT GROUNDING CONDUCTOR:
 1. EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-132.
 2. THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE #12 AWG COPPER.
 - d. CELLULAR GROUNDING SYSTEM:
 1. PROVIDE THE CELLULAR GROUNDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:
 - a. GROUND BARS
 - b. ANTI-TURN GROUND CONNECTIONS AND PLATES
 - c. ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C. WFC.



NOTES

- 1 TINNED COPPER GROUND BAR, 1/4" x 4" x 20". NEWTON
 INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE
 LUG CONFIGURATION.
 2 INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4.
 3 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO.
 3015-B.
 4 WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT
 NO. A-1055A.
 5 5/8"-11 x 1" STAINLESS STEEL TRUSS SPANNER MACHINE

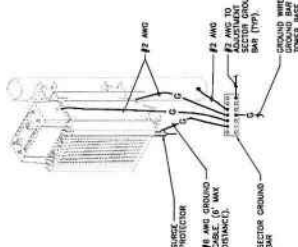
5 GROUND BAR DETAIL



1 CONNECTION OF GROUND WIRES TO GROUND BAR

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CCBSE

- EACH RIBB CABINET SHALL BE GROUNDING IN THE FOLLOWING MANNER:
1. AT TOP OF THE CABINET
 2. AT RIGHT SIDE OF THE CABINET.



2 RRH POLE MOUNT GROUNDING

-
- Diagram illustrating the antenna assembly with dimensions and components:
- 16 AWG STRANDED COPPER GROUND WIRE (GROUND TO GROUND BAR)
 - STANDARD CABLEWAVE GROUNDING KIT
 - CABLE GROUND KIT
 - CABLEWAVE WEATHERPROOFING KIT
 - ANTENNA CABLE
 - 1 1/4" DIA. MAX.
 - 3 3/4"
 - 6"
 - 12" APPROX.

NOTES:

11. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

3 ANTENNA CABLE GROUNDING DETAIL

[illegible]

CENTER for
Technology in the
Classroom
251 466-0380
251 466-8187 fax
132 North Broadway Road
Middletown, CT 06455
www.CenterCT.org

ico Partnership d/b/a Verizon Wireless
MIDDLETOWN W CT
290 PRESTON AVENUE
MIDDLETOWN, CT CT 06457

DATE	05/09/77
SCALE	AS NOTED

ELECTRICAL
DETAILS AND
SPECIFICATIONS

E-1

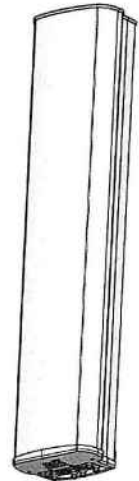
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

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

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

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



NWAV

Fast Roll-Off antennas increase data throughput without compromising coverage

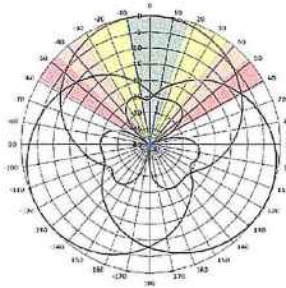
The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

Non-FRO antenna

Large traditional antenna pattern overlap creates harmful interference.

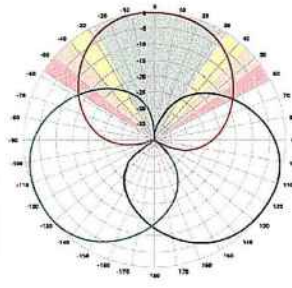
JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

JMA FRO antenna



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

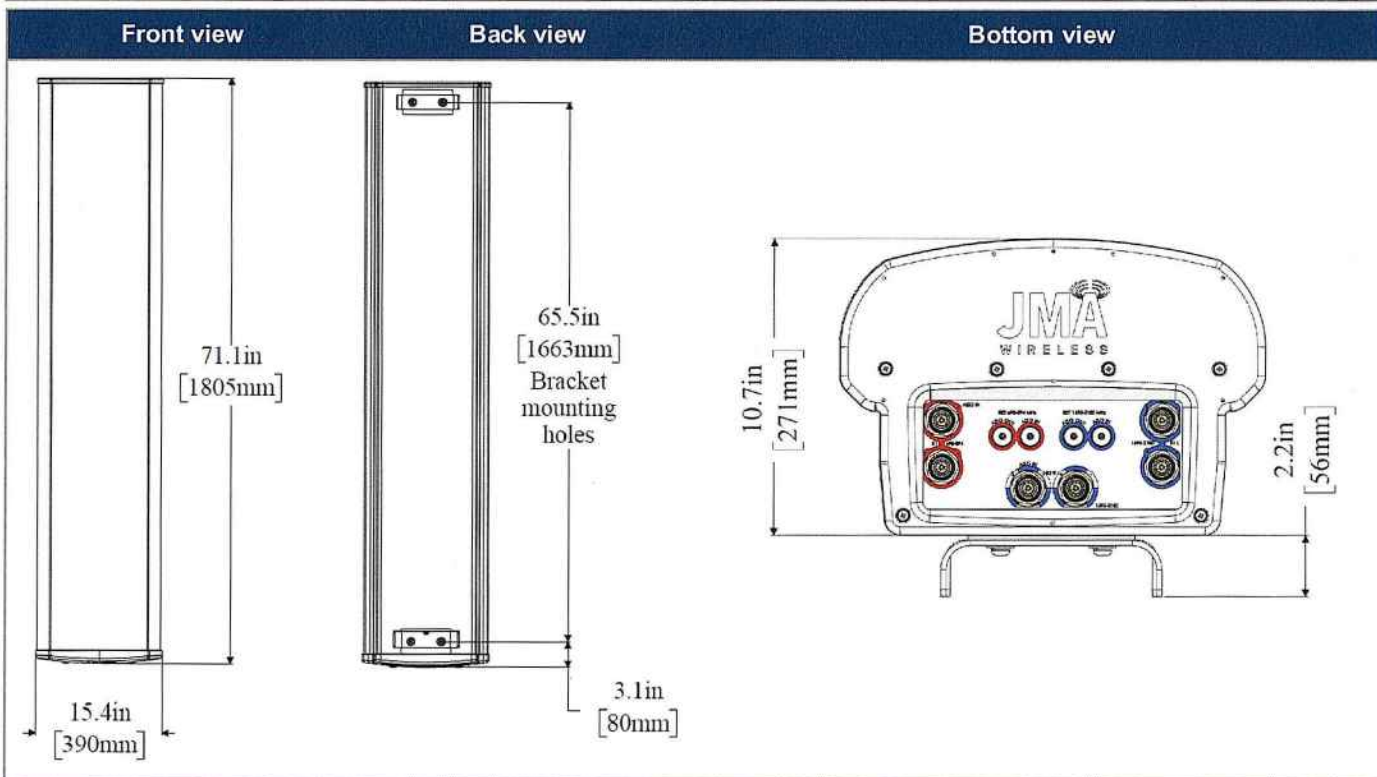
The LTE radio automatically selects the best throughput based on measured SINR.



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

¹ Typical value over frequency and tilt

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



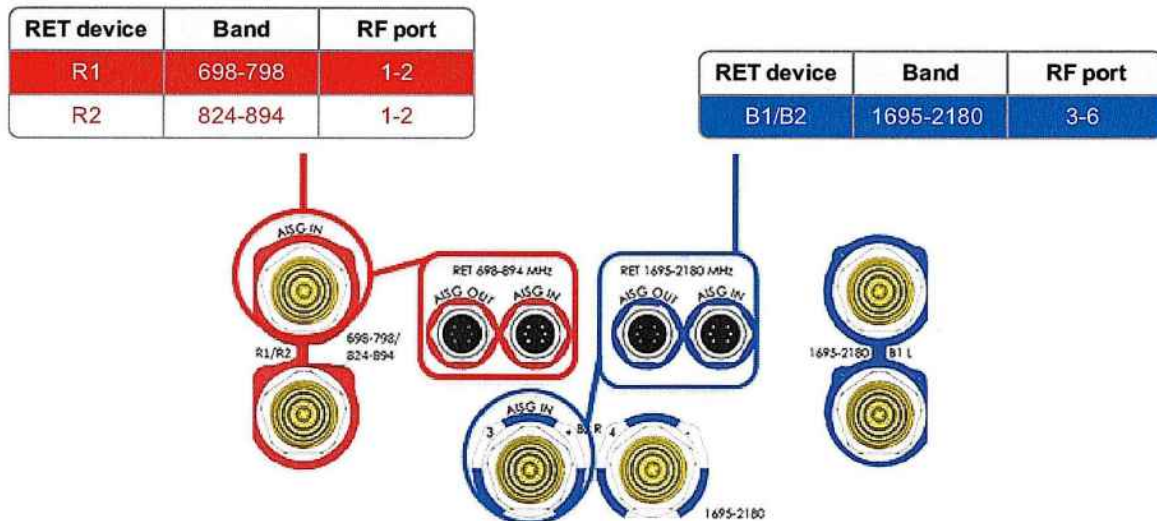
Ordering information	
Antenna model	Description
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
<u>AISG cables</u>	M/F cables for AISG connections
<u>PCU-1000 RET controller</u>	Stand-alone controller for RET control and configurations

Remote electrical tilt (RET 1000) information

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

RET and RF connector topology

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

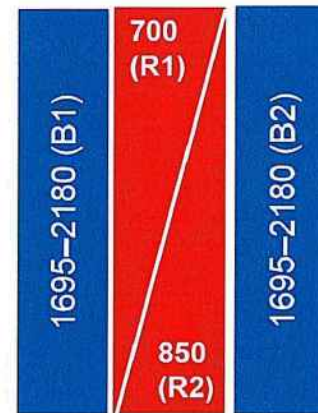


Array topology

3 sets of radiating arrays

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

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



C-band 64T64R

Gen 2

SAMSUNG

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



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

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

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

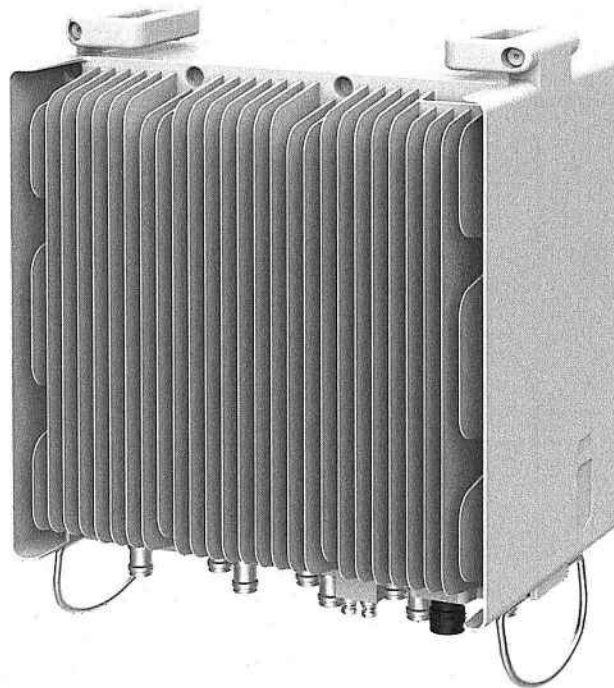
SAMSUNG

AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

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

Model Code . RF4439d-25A



Homepage
samsungnetworks.com

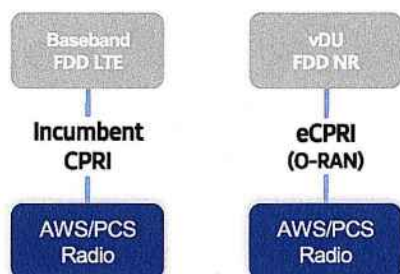


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

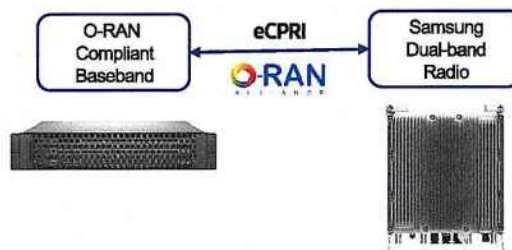
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

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

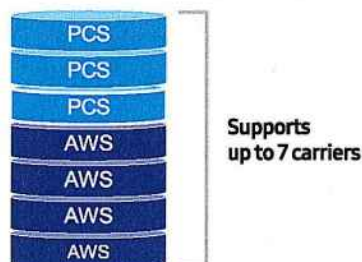
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

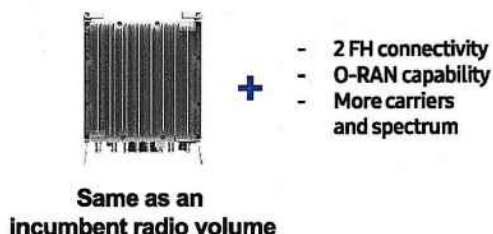
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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



Brand New Features in a Compact Size

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



Technical Specifications

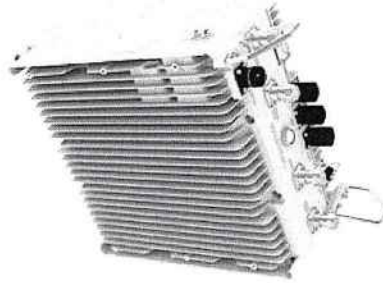
Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/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

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

SAMSUNG

Specifications

Item	Specification
Air Interface	LTE, NR(HW resource ready)
Band	Band13 (700MHz) DL: 746~756MHz UL: 777~787MHz
Frequency	Band5 (850MHz) DL: 869~894MHz UL: 824~849MHz
IBW	10MHz
OBW	10MHz
Carrier Bandwidth	LTE/NR 5/10MHz
# of carriers	2C*
Total # of carriers	4C + B13 (SDL) 1C
RF Chain	4T4R/2T4R/2T2R/1T2R 2T2R~2T2R bi-sector Total : 320W
RF Output Power	4 x 40W or 2 x 60W
Spectrum Analyzer	TX/RX Support
RX Sensitivity	Typ. -104.5dBm @1Rx (25RBs 5MHz)
Modulation	256QAM support, (1024QAM with 1~2dB power back-off)
Input Power	-48VDC (-38VDC to -57VDC)
Power Consumption	1.165 Watt @ 100% RF load, room temperature
Size (WHD)	380 x 380 x 260 mm (14.96 x 14.96 x 10.23 inch)
Volume	37.5 L
Weight (W/o Solar shield & finger guard)	35.9 kg (79.1 lb)
Operating Temperature	-40°C (-40°F) ~ 55°C (131°F) (Without solar load)
Cooling	Natural convection
Unwanted Emission	3GPP 36.104 FCC 47 CFR 27.53 c, f)
CPRI Cascade	Not supported
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP+, single mode, Duplex (Option: Bi-di)
RET & TMA Interface	AISG 3.0
Bias-T	4 ports (2 ports per band)
Mounting Options	Pole, wall
NB-IoT	2GB+21B or 41B
PIM Cancellation	Support
# of antenna port	4
External Alarm	4
Fronthaul Interface	Opt. 8 CPRI / Opt. 7-2x selectable (not simultaneous support)
CPRI compression	Not Support



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

ATTACHMENT 3



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

Calculated Radio Frequency Emissions Report



Middletown West
290 Preston Ave, Middletown, CT

August 9, 2024

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modification of Verizon's antenna arrays to be mounted at 110' on a monopole tower located at 290 Preston Ave in Middletown, CT. The coordinates of the tower are 41° 33' 26.5" N, 72° 44' 35.7" W.

Verizon is proposing the following:

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

This report considers the planned antenna configuration for Verizon¹ as well as existing antenna configuration for AT&T², DISH³, Sprint⁴, T-Mobile⁵, VHF and UHF Antennas⁶ to derive the resulting % MPE of its proposed modification.

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

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

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

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm²). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment C of this report.

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

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

¹ As referenced to Verizon's Radio Frequency Design Sheet updated 12/10/2023.

² As referenced to AT&T's Connecticut Siting Council Notice of Exempt Modification – 290 Preston Ave, Middletown, Connecticut, dated 02/17/2017

³ As referenced to DISH's Connecticut Siting Council Tower Share Application – 290 Preston Ave, Middletown, Connecticut, dated 03/30/2023

⁴ As referenced to Sprint's Connecticut Siting Council Notice of Exempt Modification – 290 Preston Ave, Middletown, Connecticut, dated 09/13/2018

⁵ As referenced to T-Mobile's Connecticut Siting Council Notice of Exempt Modification – 290 Preston Ave, Middletown, Connecticut, dated 04/30/2021

⁶ As referenced to DISH's Connecticut Siting Council Tower Share Application – 290 Preston Ave, Middletown, Connecticut, dated 03/30/2023

3. RF Exposure Prediction Methods

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

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

Where:

EIRP = Effective Isotropic Radiated Power

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

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Off Beam Loss is determined by the selected antenna patterns

Ground reflection factor (GRF) of 1.6

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

4. Antenna Inventory

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

Operator	Sector / Azimuth	TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. Tilt	Length (ft)	Antenna Centerline Height (ft)
Verizon	Alpha / 30°	750	160	14.4	4407	MX06FRO660-03	60.5	0	6	110
		850	160	14.0	4019		53.0			
		1900	160	18.0	10095		55.0			
		2100	240	18.2	15857		55.5			
		3700	320	25.5	113540	MT6413-77A	-	0	2.46	110
	Alpha / 150°	750	160	14.4	4407	MX06FRO660-03	60.5	0	6	110
		850	160	14.0	4019		53.0			
		1900	160	18.0	10095		55.0			
		2100	240	18.2	15857		55.5			
		3700	320	25.5	113540	MT6413-77A	-	0	2.46	110
	Beta / 270°	750	160	14.4	4407	MX06FRO660-03	60.5	0	6	110
		850	160	14.0	4019		53.0			
		1900	160	18.0	10095		55.0			
		2100	240	18.2	15857		55.5			
		3700	320	25.5	113540	MT6413-77A	-	0	2.46	110

Table 1: Proposed Antenna Inventory^{7,8}

⁷ Antenna heights are in reference to Verizon's Radio Frequency Design Sheet updated 12/10/2023.

⁸ Transmit power assumes 0 dB of cable loss.

5. Calculation Results

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

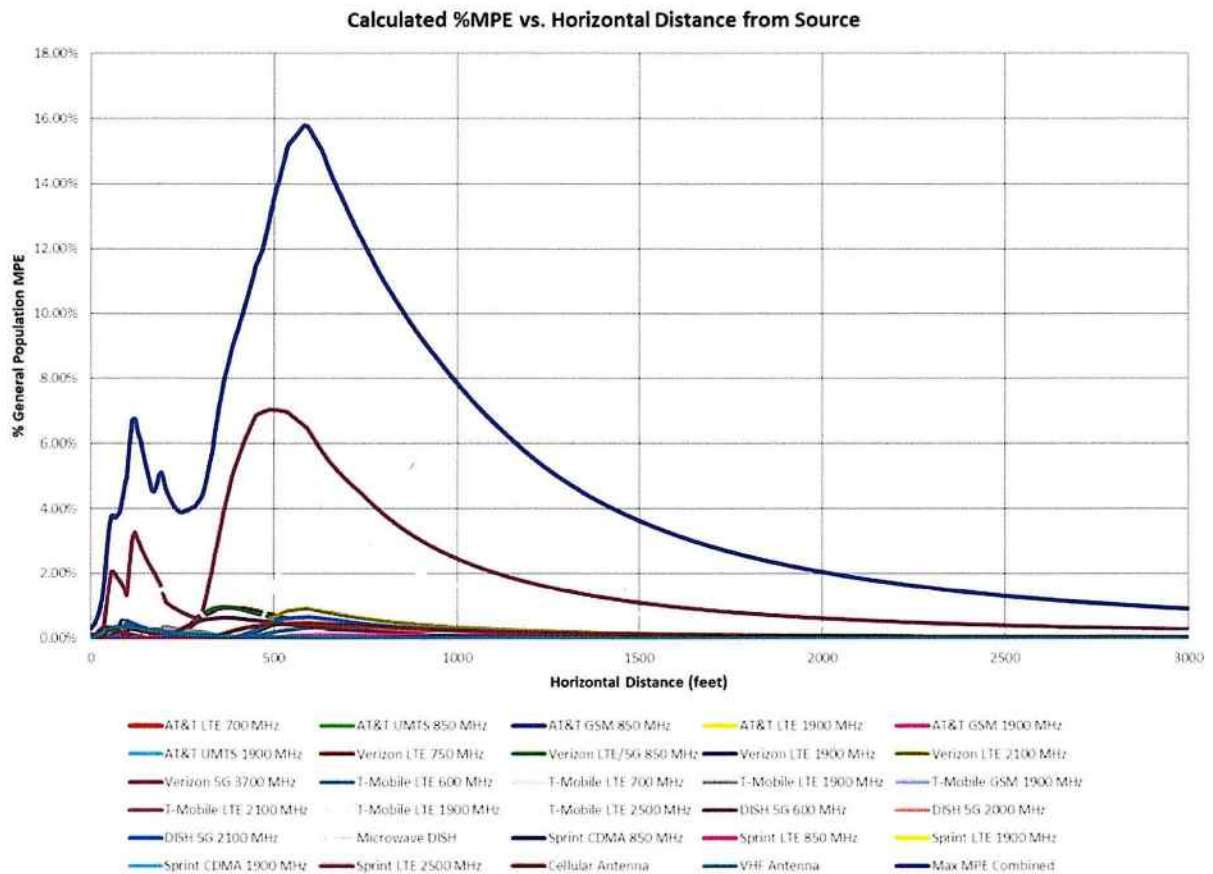


Figure 1: Graph of General Population % MPE vs. Distance

The highest percent of MPE (15.79% of the General Population limit) is calculated to occur at a horizontal distance of 581 feet from antennas. Please note that the percent of MPE calculations close to the site take into account off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1500 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, RF levels become calculated solely on distance from the site and the percent of MPE decreases significantly as distance from the site increases.

Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. The highest percent of MPE value was calculated to occur at a horizontal distance of 581 feet from the site (reference Figure 1).

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

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm ²)	Limit (mW/cm ²)	% MPE
AT&T GSM 1900 MHz	1	60.0	150.0	581	0.000048	1.000	0.00%
AT&T GSM 850 MHz	1	60.0	150.0	581	0.000323	0.567	0.06%
AT&T LTE 1900 MHz	1	120.0	150.0	581	0.000175	1.000	0.02%
AT&T LTE 700 MHz	1	120.0	150.0	581	0.000538	0.467	0.12%
AT&T UMTS 1900 MHz	1	60.0	150.0	581	0.000048	1.000	0.00%
AT&T UMTS 850 MHz	1	60.0	150.0	581	0.000323	0.567	0.06%
Cellular Antenna	4	150.0	105.0	581	0.002453	0.538	0.46%
DISH 5G 2000 MHz	1	160.0	90.0	581	0.005762	1.000	0.58%
DISH 5G 2100 MHz	1	160.0	90.0	581	0.006547	1.000	0.65%
DISH 5G 600 MHz	1	120.0	90.0	581	0.001543	0.400	0.39%
Microwave DISH	1	1.0	105.0	581	0.000028	1.000	0.00%
Sprint CDMA 1900 MHz	1	80.0	130.0	581	0.000063	1.000	0.01%
Sprint CDMA 850 MHz	1	20.0	130.0	581	0.000088	0.567	0.02%
Sprint LTE 1900 MHz	1	80.0	130.0	581	0.000063	1.000	0.01%
Sprint LTE 2500 MHz	1	160.0	130.0	581	0.000130	1.000	0.01%
Sprint LTE 850 MHz	1	100.0	130.0	581	0.000440	0.567	0.08%
T-Mobile GSM 1900 MHz	1	120.0	140.0	581	0.000384	1.000	0.04%
T-Mobile LTE 1900 MHz	2	120.0	140.0	581	0.000163	1.000	0.02%
T-Mobile LTE 1900 MHz	1	120.0	140.0	581	0.000384	1.000	0.04%
T-Mobile LTE 2100 MHz	1	120.0	140.0	581	0.000131	1.000	0.01%
T-Mobile LTE 2500 MHz	1	240.0	140.0	581	0.037109	1.000	3.71%
T-Mobile LTE 600 MHz	1	140.0	140.0	581	0.001290	0.400	0.32%
T-Mobile LTE 700 MHz	1	60.0	140.0	581	0.000599	0.467	0.13%
Verizon 5G 3700 MHz	1	320.0	110.0	581	0.065565	1.000	6.56%
Verizon LTE 1900 MHz	1	160.0	110.0	581	0.005473	1.000	0.55%
Verizon LTE 2100 MHz	1	240.0	110.0	581	0.009148	1.000	0.91%
Verizon LTE 750 MHz	1	160.0	110.0	581	0.002711	0.500	0.54%
Verizon LTE/5G 850 MHz	1	160.0	110.0	581	0.002711	0.567	0.48%
VHF Antenna	1	100.0	104.0	581	0.000063	0.200	0.03%
Total							15.79%

Table 2: Maximum Percent of General Population Exposure Values^{9,10,11}

⁹ Frequencies listed are representative of the operating band and are not the specific operating frequency.

¹⁰ The total % MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

¹¹ Heights are in reference to Verizon's RFDS, dated 12/10/2023 and DISH's Connecticut Siting Council Tower Share Application – 290 Preston Ave, Middletown, Connecticut, dated 03/30/2023

6. Conclusion

The above analysis verifies that RF exposure levels from the site with Verizon's proposed antenna configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all transmitters is calculated to be **15.79%** of the FCC limit (General Population/Uncontrolled). This maximum cumulative percent of MPE value is calculated to occur 581 feet away from the site.

7. Statement of Certification

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

A handwritten signature in black ink, appearing to read 'Ram Acharya', written over a horizontal line.

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

August 9, 2024
Date

A handwritten signature in black ink, appearing to read 'Martin Lavin', written over a horizontal line.

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

August 9, 2024
Date

Attachment A: References

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

IEEE C95.1-2019, IEEE Standard Safety Levels With Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2021, IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz-300 GHz IEEE-SA Standards Board

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

(A) Limits for Occupational/Controlled Exposure¹²

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

(B) Limits for General Population/Uncontrolled Exposure¹³

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

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

Table 3: FCC Limits for Maximum Permissible Exposure

¹² Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

¹³ General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

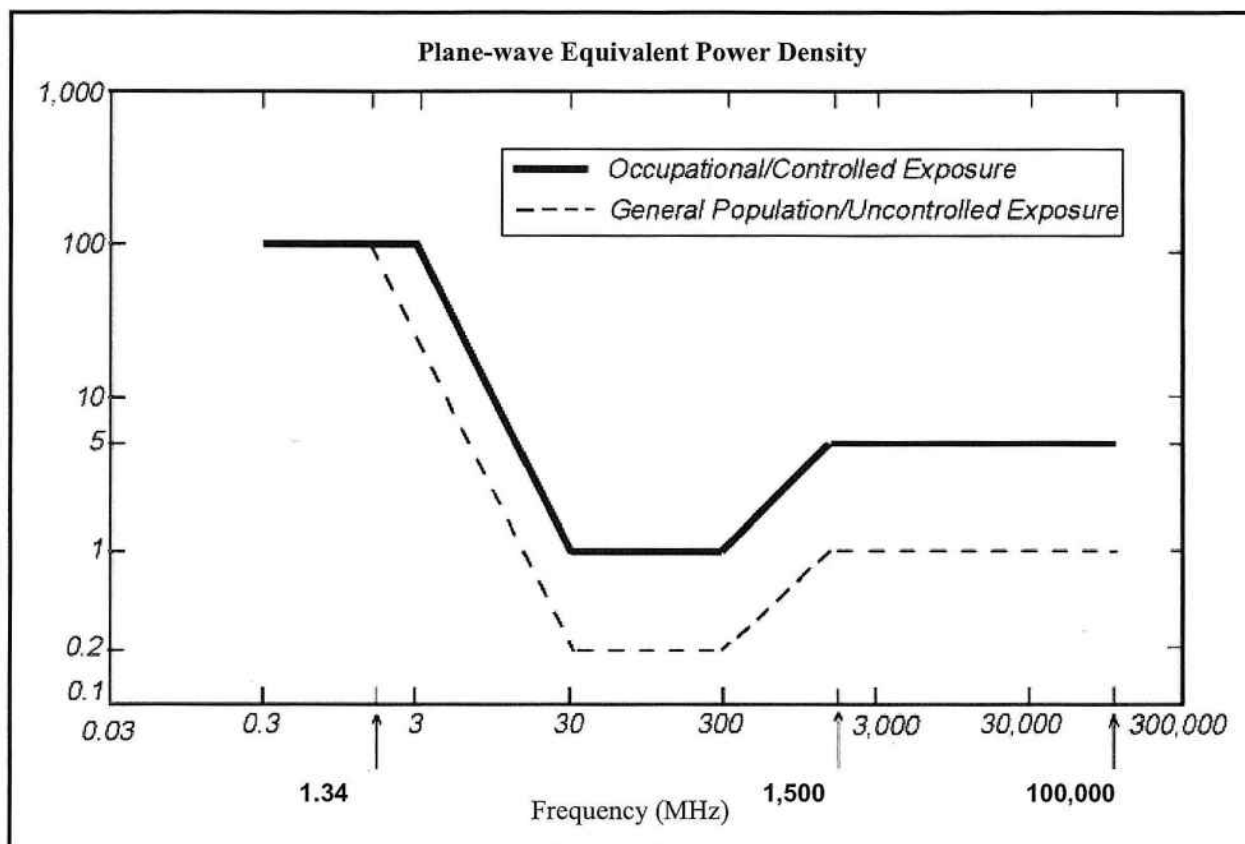
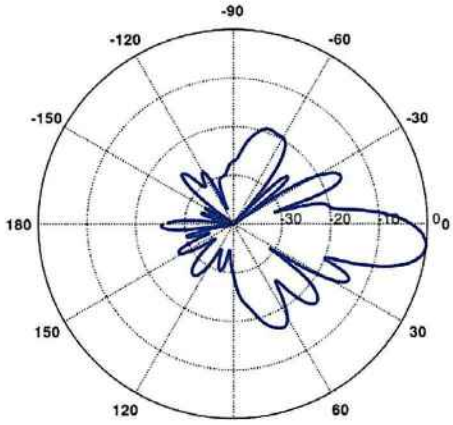
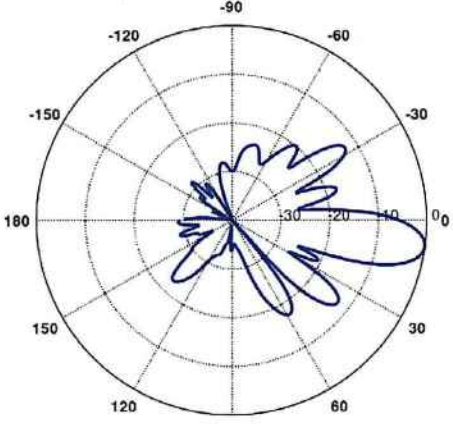


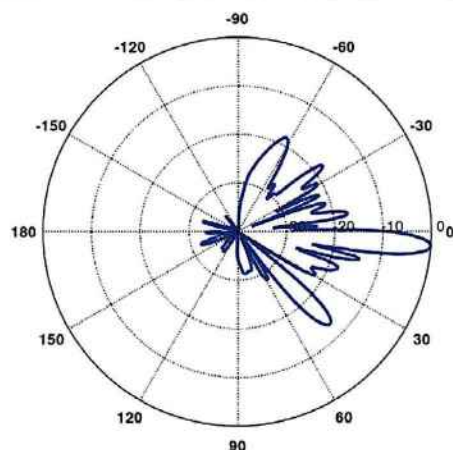
Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: Verizon Antenna Model Data Sheets and Electrical Patterns

750 MHz Manufacturer: COMMSCOPE Model #: MXFRO660-03 Frequency Band: 698-798 MHz Gain: 14.4 dBi Vertical Beamwidth: 13.1° Horizontal Beamwidth: 60.5° Polarization: ±45° Dimensions (L x W x D): 71.3" x 15.4" x 10.7"	
850 MHz Manufacturer: COMMSCOPE Model #: MXFRO660-03 Frequency Band: 824-894 MHz Gain: 14.0 dBi Vertical Beamwidth: 11.8° Horizontal Beamwidth: 53° Polarization: ±45° Dimensions (L x W x D): 71.3" x 15.4" x 10.7"	

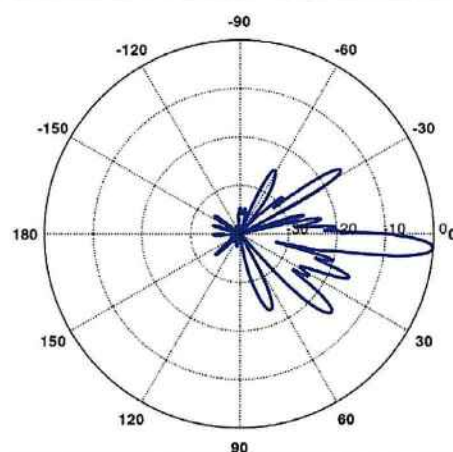
1900 MHz

Manufacturer: COMMSCOPE
 Model #: MXFRO660-03
 Frequency Band: 1850-1990 MHz
 Gain: 18.0 dBi
 Vertical Beamwidth: 5.5°
 Horizontal Beamwidth: 55.0°
 Polarization: ±45°
 Dimensions (L x W x D): 71.3" x 15.4" x 10.7"



2100 MHz

Manufacturer: COMMSCOPE
 Model #: MXFRO660-03
 Frequency Band: 1920-2200 MHz
 Gain: 18.2 dBi
 Vertical Beamwidth: 5.5°
 Horizontal Beamwidth: 55.5°
 Polarization: ±45°
 Dimensions (L x W x D): 71.3" x 15.4" x 10.7"



ATTACHMENT 4



AT&T

AT&T
1025 Lenox Park Blvd. NE
Atlanta, GA 30319



GPD Engineering and Architecture
Professional Corporation

Chad Burton
520 South Main Street, Suite 2531
Akron, OH 44311
(614) 859-1623
cburton@gpdgroup.com

GPD# 2024723.01.14635.06
August 23, 2024

COMPREHENSIVE STRUCTURAL ANALYSIS REPORT

AT&T DESIGNATION:

USID #:	14635
Site FA #:	10035088
Client #:	CT117
Site Name:	Higby Mountain
Verizon Site #:	467287
Verizon Site Name:	Middletown W CT

ANALYSIS CRITERIA:

Codes:	TIA-222-H & 2022 Connecticut State Building Code
	119 mph (3-second gust) w/ 0" ice
	50 mph (3-second gust) w/ 1" ice

SITE DATA:

290 Preston Avenue, Middletown, CT 06457, Middlesex County
Latitude 41° 33' 26.50" N, Longitude 72° 44' 35.70" W
148' Modified Monopole

To whom it may concern,

GPD is pleased to submit this Comprehensive Structural Analysis Report to determine the structural integrity of the aforementioned tower. The purpose of the analysis is to determine the suitability of the tower with the existing and proposed loading configuration detailed in the analysis report.

Analysis Results

Tower Stress Level with Proposed Equipment:	89.9%	Pass
Foundation Ratio with Proposed Equipment:	73.8%	Pass

We at GPD appreciate the opportunity of providing our continuing professional services to you and AT&T. If you have any questions or need further assistance on this or any other projects, please do not hesitate to call.

Respectfully submitted,

Christopher J. Scheks, P.E.
Connecticut #: 0030026



8/23/2024

SUMMARY & RESULTS

The purpose of this analysis was to verify whether the existing structure is capable of carrying the proposed loading configuration as specified by Verizon and commissioned by AT&T.

This analysis has been performed in accordance with the 2022 Connecticut State Building Code based upon a 3-second gust wind speed of 119 mph. Applicable Standard references and design criteria are listed in Appendices A & B.

The proposed feedlines shall be installed as shown in Appendices A & B for the analysis results to be valid.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Monopole	89.9%	Pass
Anchor Rods	78.1%	Pass
Base Plate	64.8%	Pass
Foundation	73.8%	Pass

RECOMMENDATIONS

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

ANALYSIS METHOD

tnxTower (Version 8.2.2.0), a commercially available software program, was used to create a three-dimensional model of the tower and calculate primary member stresses for various load cases. Selected output from the analysis is included the report appendices. The following table details the information provided to complete this structural analysis. This analysis is based solely on this information.

DOCUMENTS PROVIDED

Document	Remarks	Source
Site Lease Application	Verizon Collocation Application, dated 7/11/2024	AT&T
Tower Design	PJF Job #: 29201-0230, dated 2/28/2001	AT&T
Foundation Design	PJF Job #: 29201-0230, dated 2/28/2001	AT&T
Geotechnical Report	Not Provided	N/A
Previous Tower Analysis	B+T Group Project #: 137575.003.01, dated 1/12/2022	AT&T
Tower Mapping	Not Provided	N/A
Previous Tower Analysis with Geotechnical Information	B+T Group Project #: 103655.001.01, dated 12/29/2015	AT&T
Modification Drawings	B+T Project #: 84934.003, dated 2/8/2013	AT&T
Post Modification Investigation	Centek Project #: 12033.034, dated 8/2/2013	AT&T

ASSUMPTIONS

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

1. The tower member sizes and shapes are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The appurtenance configuration is as supplied, determined from available photos, and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
3. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
4. The soil parameters are as per data supplied or as assumed and stated in the calculations.
5. Foundations are properly designed and constructed to resist the original design loads indicated in the documents provided.
6. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
7. All welds and connections are assumed to develop at least the member capacity unless determined otherwise and explicitly stated in this report.
8. All prior structural modifications, if applicable, are assumed to be as per data supplied/available and to have been properly installed.
9. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.
10. All existing and proposed loading has been taken from the available site photos as well as documents supplied to GPD at the time of generating this report. All such documents are listed in the Documents Provided Table and are assumed to be accurate. GPD is not responsible for loading scenarios outside those conveyed in the supplied documentation.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD should be allowed to review any new information to determine its effect on the structural integrity of the tower.

DISCLAIMER OF WARRANTIES

GPD has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD in connection with this Comprehensive Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

This analysis is limited to the designated maximum wind and seismic conditions per the governing tower standards and code. Wind forces resulting in tower vibrations near the structure's resonant frequencies were not considered in this analysis and are outside the scope of this analysis. Lateral loading from any dynamic response was not evaluated under a time-domain based fatigue analysis.

GPD does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the capability of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

Towers are designed to carry gravity, wind, and ice loads. All members, legs, diagonals, struts, and redundant members provide structural stability to the tower with little redundancy. Absence or removal of a member can trigger catastrophic failure unless a substitute is provided before any removal. Legs carry axial loads and derive their strength from shorter unbraced lengths by the presence of redundant members and their connection to the diagonals with bolts or welds. If the bolts or welds are removed without providing any substitute to the frame, the leg is subjected to a higher unbraced length that immediately reduces its load carrying capacity. If a diagonal is also removed in addition to the connection, the unbraced length of the leg is greatly increased, jeopardizing its load carrying capacity. Failure of one leg can result in a tower collapse because there is no redundancy. Redundant members and diagonals are critical to the stability of the tower.

GPD makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Tower Analysis Summary Form

Tower Analysis Summary Form

Verizon Site Name	Madison W. CT
Verizon Site Number	467287
PA Number	10132086
Date of Analysis	8/23/2024
Company Performing Analysis	GPD

Tower Info	Description	Date
Tower Type (G, SST, MP)	MP	
Tower Height (top of steel AGL)	148'	
Tower Manufacturer		
Tower Model		
Tower Design	P&F Job #: 25201-0230	3/28/2021
Foundation Design	P&F Job #: 25201-0230	2/28/2021
Geotechnical Report		
Previous Tower Analysis	S&T Group Project #: 1215755.002.01	1/12/2022
Tower Mapping		
Previous Tower Analysis with Geotechnical Information	9-T Group Project #: 108555.001.01	12/29/2018
Modification Information	9-T Group Project #: 14824.002	2/8/2013
Post Modification Investigation	Crutcher Project #: 120333.004	6/3/2013

Design Parameters	Design Code Used
Location of Tower (County, State)	State Building Code
Wind Speed (mi/h)	Audubon, CT
Ice Thickness (in)	119 (2-second gust)
Risk Category (I, II, III)	I
Exposure Category (B, C, D)	II
Topographic Category (1 to 5)	C

Analysis Results (% Maximum Usage)	Existing/Reserved + Future + Proposed Condition
Tower (%)	89.9%
Tower Base (%)	70.1%
Foundation (%)	73.8%
Foundation Adequate?	Yes

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Existing / Reserved Loading	Antenna	Antenna CL (ft)	Mount Height (ft)	Quantity	Type	Manufacturer	Model	Asimuth	Quantity	Manufacturer	Type	Quantity	Model	Size	Alignment Int/Ext
AT&T Mobility	Panel	150	148	6	Panel	Powerwave	7770.00	40-260-320	1	Unknown	12" LP Platform on the same mount	12	Unknown	1.5-9"	External
AT&T Mobility	Panel	150	148	1	Panel	CCI	SP4-03H-BUJ-H6	44	1	Unknown	on the same mount	2	DC Power Fiber Cable	3-8"	Internal
AT&T Mobility	Panel	150	148	1	Panel	Andrew	SP4HH-105C	260	1	Unknown	on the same mount	1			Internal
AT&T Mobility	Panel	150	148	12	Panel	Andrew	SP4HH-105A	320	1	Unknown	on the same mount	1			
AT&T Mobility	Panel	150	148	1	Panel	Powerwave	LP21401		1	Unknown	on the same mount	1			
AT&T Mobility	Panel	150	148	1	Panel	Ericsson	RHUS-11		1	Unknown	on the same mount	1			
AT&T Mobility	Panel	150	148	3	Panel	Ericsson	RHUS-32-B2		1	Unknown	on the same mount	1			
AT&T Mobility	Panel	148	148	1	Panel	Raycap	PC4-16-96-16-BF		1	Unknown	on the same mount	1			
T-Mobile	Panel	148	148	1	Panel	Ericsson	ARC2 866A 82A	0-120-240	1	Unknown	on the same mount	1			
T-Mobile	Panel	148	148	3	Panel	Ericsson	ARC2 866A 82A	0-120-240	1	Unknown	on the same mount	1			
T-Mobile	Panel	148	148	3	Panel	Ericsson	ARC2 866A 82A	0-120-240	1	Unknown	on the same mount	1			
T-Mobile	Panel	148	148	3	Panel	Ericsson	ARC2 866A 82A	0-120-240	1	Unknown	on the same mount	1			
T-Mobile	Panel	148	148	3	Panel	Ericsson	ARC2 866A 82A	0-120-240	1	Unknown	on the same mount	1			
Sprint	Panel	126	126	3	Panel	Powerwave	APV39P1H-C420	45-210-310	1	Unknown	on the same mount	3	Hybrid Cable	1-1.4"	Internal
Sprint	Panel	126	126	3	Panel	Powerwave	APV39P1H-C420	45-210-310	1	Unknown	on the same mount	3	Hybrid Cable	1-1.4"	Internal
Sprint	Panel	126	126	3	Panel	Alcatel Lucent	APV39P1H-C420	45-210-310	1	Unknown	on the same mount	3	Hybrid Cable	1-1.4"	Internal
Sprint	Panel	126	126	3	Panel	Alcatel Lucent	APV39P1H-C420	45-210-310	1	Unknown	on the same mount	3	Hybrid Cable	1-1.4"	Internal
Sprint	Panel	126	126	3	Panel	Alcatel Lucent	APV39P1H-C420	45-210-310	1	Unknown	on the same mount	3	Hybrid Cable	1-1.4"	Internal
Sprint	Panel	126	126	3	Panel	Alcatel Lucent	APV39P1H-C420	45-210-310	1	Unknown	on the same mount	3	Hybrid Cable	1-1.4"	Internal
Verizon Wireless	Panel	110	110	2*	Panel	Atoll	8XA-3003-40E	150-270	1	Unknown	on the same mount	2*	Unknown	1-4.8"	Internal
Verizon Wireless	Panel	110	110	2*	Panel	Andrew	H6X-4517DS-VTM	30-150-270	1	Unknown	on the same mount	11	Unknown	1-3-8"	Internal
Verizon Wireless	Panel	110	110	1*	Panel	Andrew	LSK-2518DS-VTE	30-150-270	1	Unknown	on the same mount	1			
Verizon Wireless	Panel	110	110	1*	Panel	Andrew	LSK-2518DS-VTE	30-150-270	1	Unknown	on the same mount	1			
Verizon Wireless	Panel	110	110	3*	Panel	Andrew	LSK-2518DS-VTE	30-150-270	1	Unknown	on the same mount	1			
Verizon Wireless	Panel	110	110	1*	Panel	Andrew	LSK-2518DS-VTE	30-150-270	1	Unknown	on the same mount	1			
Verizon Wireless	Panel	110	110	3*	Panel	Andrew	LSK-2518DS-VTE	30-150-270	1	Unknown	on the same mount	1			
Verizon Wireless	Panel	110	110	3*	Panel	Andrew	LSK-2518DS-VTE	30-150-270	1	Unknown	on the same mount	1			
Verizon Wireless	Panel	110	110	6*	Panel	Andrew	LSK-2518DS-VTE	30-150-270	1	Unknown	on the same mount	1			
City of Madison	Dish	105	105	1	Dish	Clamium	HP3-1.1	36	1	Unknown	Dish Mount	1	Elliptical	ETW90	Internal
City of Madison	Omni	105	105	2	Omni	REI	SC207-0B	0-120	3	Unknown	on the same mount	3	Unknown	7-8"	Internal
City of Madison	Omni	105	105	2	Omni	dBSantiva	DS1F0F56U-D	240	3	Unknown	on the same mount	3	Unknown	1-2"	Internal
City of Madison	TTA	100	100	1	TTA	Bed Tech	DS42ED30T		1	Unknown	on the same mount	1	Unknown	1-2"	Internal
Dish Wireless	Panel	90	90	3	Panel	JMA Wireless	XY088-RO666-31		1	Commscope	MC-PKS-DISH	6	Unknown	1-4.8"	External
Dish Wireless	Panel	90	90	3	Panel	Fujitsu	TAB024-180A		1	Commscope	MC-PKS-DISH	6	Unknown	1-4.8"	External
Dish Wireless	Panel	90	90	3	Panel	Fujitsu	TAB024-180A		1	Commscope	MC-PKS-DISH	6	Unknown	1-4.8"	External
Dish Wireless	Panel	90	90	3	Panel	Fujitsu	TAB024-180A		1	Commscope	MC-PKS-DISH	6	Unknown	1-4.8"	External
Dish Wireless	Panel	90	90	3	Panel	Fujitsu	TAB024-180A		1	Commscope	MC-PKS-DISH	6	Unknown	1-4.8"	External
Metra PCS	GPS	55	55	1	GPS	Raycap	RHDC-9111-PE-AB		1	Unknown	on the same mount	1	Unknown	3-8"	External
Unknown	GPS	50	50	1	GPS	Unknown	GPS Unit		1	Unknown	1" Standoff	1	Unknown	3-8"	External
Unknown	GPS	50	50	1	GPS	Unknown	GPS Unit		1	Unknown	1" Standoff	1	Unknown	1-2"	External

*Indicates equipment/feeder quantity to be reserved.

Proposed Loading	Antenna	Antenna CL (ft)	Mount Height (ft)	Quantity	Type	Manufacturer	Model	Asimuth	Quantity	Manufacturer	Type	Quantity	Model	Size	Alignment Int/Ext
Verizon Wireless	Panel	110	110	6	Panel	JMA Wireless	XY088-RO666-31	30-150-270	2	Site Pro 1	VZWSMART-RNA-21X0072	2	Site Pro 1	1-1.4"	Internal
Verizon Wireless	Panel	110	110	3	Panel	Samsumg	RY20C-602-PT-40	30-150-270	2	Site Pro 1	VZWSMART-PLK1	2	Site Pro 1	1-1.4"	Internal
Verizon Wireless	Panel	110	110	3	Panel	Samsumg	RY20C-602-PT-40	30-150-270	2	Site Pro 1	VZWSMART-PLK1	2	Site Pro 1	1-1.4"	Internal
Verizon Wireless	Panel	110	110	3	Panel	Samsumg	RY20C-602-PT-40	30-150-270	2	Site Pro 1	VZWSMART-PLK1	2	Site Pro 1	1-1.4"	Internal
Verizon Wireless	Panel	110	110	3	Panel	Samsumg	RY20C-602-PT-40	30-150-270	2	Site Pro 1	VZWSMART-PLK1	2	Site Pro 1	1-1.4"	Internal

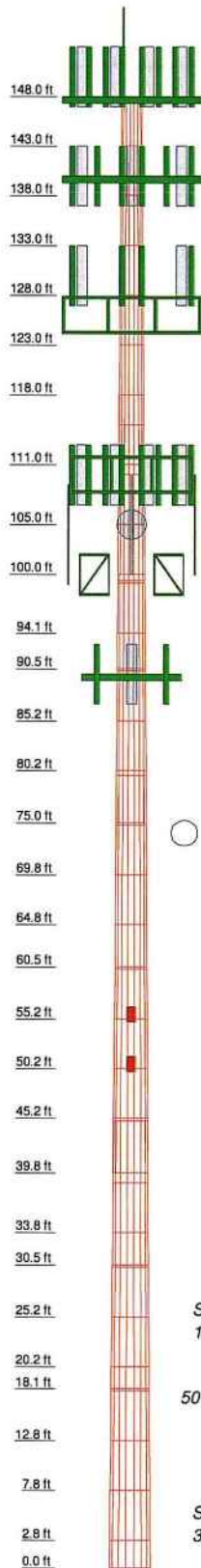
Note: The proposed loading shall be in addition to the remaining existing equipment at the same elevation.

Note: All feedlines shall be installed as indicated in this report in order for the analysis results to be valid.

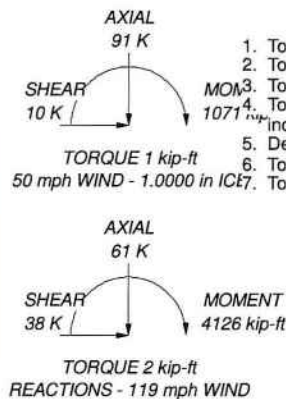
APPENDIX B

Tower Analysis Output File

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
2	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
3	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
4	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
5	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
6	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
7	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
8	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
9	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
10	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
11	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
12	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
13	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
14	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
15	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
16	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
17	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
18	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
19	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
20	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
21	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
22	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
23	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
24	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
25	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
26	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
27	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
28	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
29	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
30	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
31	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
32	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
33	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
34	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
35	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
36	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
37	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
38	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000
39	5.00	18	0.2500	4.00	28.5007	26.7004	25.8003	24.0000



ALL REACTIONS
ARE FACTORED



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Lighting Rod 5/8" x 8"	148	800MHZ RRH	126
(2) 7770.00 w/Mount Pipe	148	RRHx20-25/TD RRH	126
(2) 7770.00 w/Mount Pipe	148	RRHx20-25/TD RRH	126
(2) 7770.00 w/Mount Pipe	148	RRHx20-25/TD RRH	126
HPA-65R-BUU-H6 w/ Mount Pipe	148	Platform Mount [LP 1201-1_HR-1]	126
SBNNH-1D65C w/ Mount Pipe	148	(2) MX06FRO660-03 w/ Mount Pipe	110
SBNNH-1D65C w/ Mount Pipe	148	(2) MX06FRO660-03 w/ Mount Pipe	110
(4) LGP21401	148	(2) MX06FRO660-03 w/ Mount Pipe	110
(4) LGP21401	148	MT6413-77a w/ Mount Pipe	110
(4) LGP21401	148	MT6413-77a w/ Mount Pipe	110
RRUS 32 B2	148	MT6413-77a w/ Mount Pipe	110
RRUS 32 B2	148	HBX-6516DS-VTM w/ Mount Pipe	110
RRUS 32 B2	148	HBX-6516DS-VTM w/ Mount Pipe	110
RRUS-11	148	HBX-6516DS-VTM w/ Mount Pipe	110
RRUS-11	148	B2/B66A RRH ORAN (RF4439d-25A)	110
RRUS-11	148	B2/B66A RRH ORAN (RF4439d-25A)	110
DC6-48-60-18-8F Surge Suppression Unit	148	B2/B66A RRH ORAN (RF4439d-25A)	110
Platform Mount [LP 1201-1]	148	B5/B13 RRH ORAN (RF4440d-13A)	110
AIR32 B66A_B2A w/ Mount Pipe	140	B5/B13 RRH ORAN (RF4440d-13A)	110
AIR32 B66A_B2A w/ Mount Pipe	140	RVZDC-6627-PF-48	110
AIR32 B66A_B2A w/ Mount Pipe	140	VZWSMART-P40-228X072	110
AIR 6449 B41 w/ Mount Pipe	140	VZWSMART-P40-228X072	110
AIR 6449 B41 w/ Mount Pipe	140	VZWSMART-PLK1	110
AIR 6449 B41 w/ Mount Pipe	140	Platform Mount [LP 1201-1]	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	140	Pipe Mount 4x2.375"	105
APXVAALL24_43-U-NA20 w/ Mount Pipe	140	HP3-11	105
APXVAALL24_43-U-NA20 w/ Mount Pipe	140	CC807-08	100
4415 B25	140	DS1F00F36U-D	100
4415 B25	140	DS428E-831-01-T	100
4415 B25	140	6" Standoff - Flat (GPD)	100
4449 B71 + B12	140	6" Standoff - Flat (GPD)	100
4449 B71 + B12	140	6" Standoff - Flat (GPD)	100
4449 B71 + B12	140	CC807-08	100
Platform Mount [LP 1201-1]	140	MX08FRO665-21 w/ Mount Pipe	90
APXVSPP18-C-A20 w/ Mount Pipe	126	MX08FRO665-21 w/ Mount Pipe	90
APXVSPP18-C-A20 w/ Mount Pipe	126	TA08025-B604	90
APXVSPP18-C-A20 w/ Mount Pipe	126	TA08025-B604	90
APXVTM14-ALU-I20 w/ Mount Pipe	126	TA08025-B604	90
APXVTM14-ALU-I20 w/ Mount Pipe	126	TA08025-B605	90
APXVTM14-ALU-I20 w/ Mount Pipe	126	TA08025-B605	90
APXVTM14-ALU-I20 w/ Mount Pipe	126	TA08025-B605	90
APXVTM14-ALU-I20 w/ Mount Pipe	126	TA08025-B605	90
(2) 1900MHz RRH	126	RDIDC-9181-PF-48	90
(2) 1900MHz RRH	126	Platform Mount [LP 716-1]	90
(2) 1900MHz RRH	126	MX08FRO665-21 w/ Mount Pipe	90
800MHZ RRH	126	MTS 12" Antenna Standoff	55
800MHZ RRH	126	GPS	55
		MTS 12" Antenna Standoff	50
		GPS	50

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

- Tower is located in Middlesex County, Connecticut.
- Tower designed for Exposure C to the TIA-222-H Standard.
- Tower designed for a 119 mph basic wind in accordance with the TIA-222-H Standard.
- Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
- Deflections are based upon a 60 mph wind.
- Tower Risk Category II.
- Topographic Category 1 with Crest Height of 0.00 ft



GPD Group
520 South Main Street, Suite 2531
Akron, OH 44311
Phone:
FAX:

Job: USID #: 14635 / FA #: 10035088	Project: 2024723.01.14635.06
Client: AT&T	Drawn by: mriley
Code: TIA-222-H	Date: 08/23/24
Path:	Scale: NTS
	Dwg No. E-1

Feed Line Plan

12'9-31/32"

Round

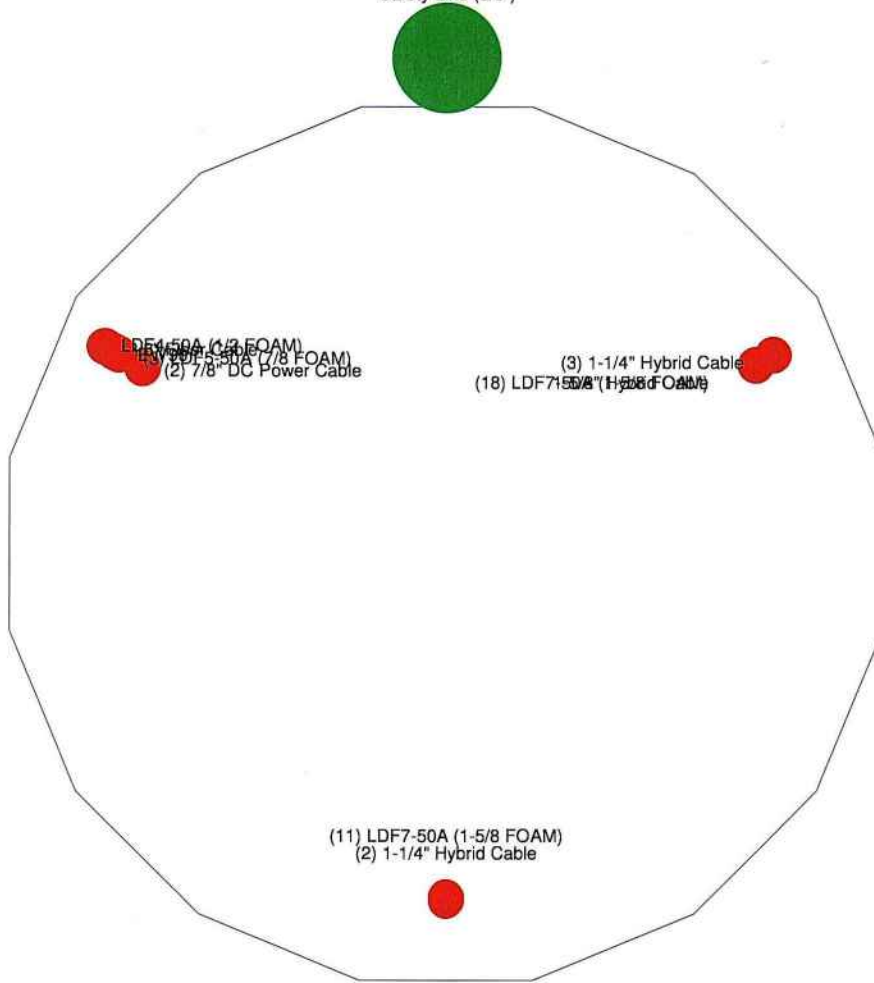
Flat

App In Face

App Out Face

Section @ 12'9-31/32"

Safety Line (3/8")



GPD Group

GPD Group

520 South Main Street, Suite 2531

Akron, OH 44311

Phone:

FAX:

Job: **USID #: 14635 / FA #: 10035088**

Project: **2024723.01.14635.06**

Client: AT&T

Drawn by: mrisley

App'd:

Code: TIA-222-H

Date: 08/23/24

Scale: NTS

Path:

Dwg No. E-7

T:\AT\2024\723\01\14635\06\TIA-222-H.dwg

tnxTower GPD Group 520 South Main Street, Suite 2531 Akron, OH 44311 Phone: FAX:	Job	USID #: 14635 / FA #: 10035088	Page	1 of 28
	Project	2024723.01.14635.06	Date	07:18:08 08/23/24
	Client	AT&T	Designed by	mrисley

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 Middlesex County, Connecticut.

Tower base elevation above sea level: 368.00 ft.

Basic wind speed of 119 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 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

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

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

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

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

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	148.00-143.00	5.00	0.00	18	24.0000	24.9001	0.2500	1.0000	A607-65 (65 ksi)
L2	143.00-138.00	5.00	0.00	18	24.9001	25.8003	0.2500	1.0000	A607-65 (65 ksi)
L3	138.00-133.00	5.00	0.00	18	25.8003	26.7004	0.2500	1.0000	A607-65 (65 ksi)
L4	133.00-128.00	5.00	0.00	18	26.7004	27.6005	0.2500	1.0000	A607-65 (65 ksi)
L5	128.00-123.00	5.00	0.00	18	27.6005	28.5007	0.2500	1.0000	A607-65 (65 ksi)
L6	123.00-118.00	5.00	0.00	18	28.5007	29.4008	0.2500	1.0000	A607-65 (65 ksi)
L7	118.00-111.00	7.00	4.00	18	29.4008	30.6610	0.2500	1.0000	A607-65 (65 ksi)
L8	111.00-110.00	5.00	0.00	18	29.4409	30.3412	0.2500	1.0000	A607-65 (65 ksi)
L9	110.00-105.00	5.00	0.00	18	30.3412	31.2414	0.2500	1.0000	A607-65 (65 ksi)
L10	105.00-100.00	5.00	0.00	18	31.2414	32.1417	0.2500	1.0000	A607-65 (65 ksi)
L11	100.00-99.33	0.67	0.00	18	32.1417	32.2623	0.2500	1.0000	A607-65 (65 ksi)
L12	99.33-99.08	0.25	0.00	18	32.2623	32.3073	0.2500	1.0000	A607-65

tnxTower GPD Group 520 South Main Street, Suite 2531 Akron, OH 44311 Phone: FAX:	Job	USID #: 14635 / FA #: 10035088	Page 2 of 28
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	Client	AT&T	Designed by mrisley

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
L13	99.08-94.08	5.00	0.00	18	32.3073	33.2076	0.2500	1.0000	(65 ksi) A607-65
L14	94.08-90.50	3.58	0.00	18	33.2076	33.8522	0.2500	1.0000	(65 ksi) A607-65
L15	90.50-90.25	0.25	0.00	18	33.8522	33.8972	0.4313	1.7250	(65 ksi) A607-65
L16	90.25-85.25	5.00	0.00	18	33.8972	34.7975	0.4250	1.7000	(65 ksi) A607-65
L17	85.25-80.25	5.00	0.00	18	34.7975	35.6977	0.4250	1.7000	(65 ksi) A607-65
L18	80.25-75.00	5.25	4.75	18	35.6977	36.6430	0.4250	1.7000	(65 ksi) A607-65
L19	75.00-74.75	5.00	0.00	18	35.2878	36.1879	0.4875	1.9500	(65 ksi) A607-65
L20	74.75-69.75	5.00	0.00	18	36.1879	37.0881	0.4750	1.9000	(65 ksi) A607-65
L21	69.75-64.75	5.00	0.00	18	37.0881	37.9882	0.4750	1.9000	(65 ksi) A607-65
L22	64.75-60.50	4.25	0.00	18	37.9882	38.7534	0.4688	1.8750	(65 ksi) A607-65
L23	60.50-60.25	0.25	0.00	18	38.7534	38.7984	0.5500	2.2000	(65 ksi) A607-65
L24	60.25-55.25	5.00	0.00	18	38.7984	39.6985	0.5500	2.2000	(65 ksi) A607-65
L25	55.25-50.25	5.00	0.00	18	39.6985	40.5987	0.5375	2.1500	(65 ksi) A607-65
L26	50.25-45.25	5.00	0.00	18	40.5987	41.4988	0.5375	2.1500	(65 ksi) A607-65
L27	45.25-39.75	5.50	5.25	18	41.4988	42.4890	0.5375	2.1500	(65 ksi) A607-65
L28	39.75-38.75	6.25	0.00	18	40.9188	42.0440	0.6000	2.4000	(65 ksi) A607-65
L29	38.75-33.75	5.00	0.00	18	42.0440	42.9441	0.5875	2.3500	(65 ksi) A607-65
L30	33.75-30.50	3.25	0.00	18	42.9441	43.5292	0.5875	2.3500	(65 ksi) A607-65
L31	30.50-30.25	0.25	0.00	18	43.5292	43.5742	0.6375	2.5500	(65 ksi) A607-65
L32	30.25-25.25	5.00	0.00	18	43.5742	44.4743	0.6250	2.5000	(65 ksi) A607-65
L33	25.25-20.25	5.00	0.00	18	44.4743	45.3745	0.6250	2.5000	(65 ksi) A607-65
L34	20.25-18.08	2.17	0.00	18	45.3745	45.7646	0.6250	2.5000	(65 ksi) A607-65
L35	18.08-17.83	0.25	0.00	18	45.7646	45.8096	0.6125	2.4500	(65 ksi) A607-65
L36	17.83-12.83	5.00	0.00	18	45.8096	46.7097	0.6125	2.4500	(65 ksi) A607-65
L37	12.83-7.83	5.00	0.00	18	46.7097	47.6099	0.6000	2.4000	(65 ksi) A607-65
L38	7.83-2.83	5.00	0.00	18	47.6099	48.5100	0.6000	2.4000	(65 ksi) A607-65
L39	2.83-0.00	2.83		18	48.5100	49.0200	0.6000	2.4000	(65 ksi) A607-65

Tapered Pole Properties

tnxTower GPD Group 520 South Main Street, Suite 2531 Akrón, OH 44311 Phone: FAX:	Job	USID #: 14635 / FA #: 10035088	Page 3 of 28
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	Client	AT&T	Designed by mrисley

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	Iu/Q in ²	w in	w/t
L1	24.3317	18.8456	1342.9976	8.4313	12.1920	110.1540	2687.7623	9.4246	3.7840	15.136
	25.2457	19.5599	1501.5586	8.7508	12.6493	118.7071	3005.0930	9.7818	3.9424	15.77
L2	25.2457	19.5599	1501.5586	8.7508	12.6493	118.7071	3005.0930	9.7818	3.9424	15.77
	26.1597	20.2741	1672.1332	9.0703	13.1065	127.5801	3346.4666	10.1390	4.1008	16.403
L3	26.1597	20.2741	1672.1332	9.0703	13.1065	127.5801	3346.4666	10.1390	4.1008	16.403
	27.0737	20.9884	1855.1599	9.3899	13.5638	136.7728	3712.7610	10.4962	4.2593	17.037
L4	27.0737	20.9884	1855.1599	9.3899	13.5638	136.7728	3712.7610	10.4962	4.2593	17.037
	27.9878	21.7027	2051.0779	9.7094	14.0211	146.2854	4104.8546	10.8534	4.4177	17.671
L5	27.9878	21.7027	2051.0779	9.7094	14.0211	146.2854	4104.8546	10.8534	4.4177	17.671
	28.9018	22.4169	2260.3251	10.0290	14.4783	156.1177	4523.6245	11.2106	4.5761	18.304
L6	28.9018	22.4169	2260.3251	10.0290	14.4783	156.1177	4523.6245	11.2106	4.5761	18.304
	29.8158	23.1312	2483.3407	10.3485	14.9356	166.2698	4969.9490	11.5678	4.7345	18.938
L7	29.8158	23.1312	2483.3407	10.3485	14.9356	166.2698	4969.9490	11.5678	4.7345	18.938
	31.0954	24.1311	2819.5285	10.7959	15.5758	181.0200	5642.7670	12.0679	4.9563	19.825
L8	30.5878	23.1630	2493.5982	10.3628	14.9560	166.7293	4990.4776	11.5837	4.7416	18.966
	30.7706	23.8773	2731.4984	10.6824	15.4133	177.2169	5466.5910	11.9409	4.9000	19.6
L9	30.7706	23.8773	2731.4984	10.6824	15.4133	177.2169	5466.5910	11.9409	4.9000	19.6
	31.6848	24.5917	2984.0683	11.0020	15.8706	188.0244	5972.0632	12.2982	5.0585	20.234
L10	31.6848	24.5917	2984.0683	11.0020	15.8706	188.0244	5972.0632	12.2982	5.0585	20.234
	32.5990	25.3060	3251.7463	11.3215	16.3280	199.1518	6507.7714	12.6554	5.2169	20.868
L11	32.5990	25.3060	3251.7463	11.3215	16.3280	199.1518	6507.7714	12.6554	5.2169	20.868
	32.7214	25.4018	3288.7870	11.3644	16.3893	200.6672	6581.9015	12.7033	5.2382	20.953
L12	32.7214	25.4018	3288.7870	11.3644	16.3893	200.6672	6581.9015	12.7033	5.2382	20.953
	32.7672	25.4375	3302.6798	11.3804	16.4121	201.2341	6609.7053	12.7212	5.2461	20.984
L13	32.7672	25.4375	3302.6798	11.3804	16.4121	201.2341	6609.7053	12.7212	5.2461	20.984
	33.6813	26.1519	3588.8134	11.6999	16.8695	212.7403	7182.3491	13.0784	5.4045	21.618
L14	33.6813	26.1519	3588.8134	11.6999	16.8695	212.7403	7182.3491	13.0784	5.4045	21.618
	34.3358	26.6633	3803.5301	11.9288	17.1969	221.1752	7612.0650	13.3342	5.5180	22.072
L15	34.3358	26.6633	3803.5301	11.9288	17.1969	221.1752	7612.0650	13.3342	5.5180	22.072
	34.3079	45.7462	6455.4897	11.8644	17.2198	376.4049	12971.7458	22.9082	5.2069	12.074
L16	34.3536	45.8078	6481.6085	11.8804	17.2198	376.4049	12971.7458	22.9082	5.2069	12.074
	34.3546	45.1523	6391.2517	11.8826	17.2198	371.1577	12790.9131	22.5804	5.2179	12.277
	35.2687	46.3667	6920.9410	12.2022	17.6771	391.5199	13850.9888	23.1878	5.3764	12.65
L17	35.2687	46.3667	6920.9410	12.2022	17.6771	391.5199	13850.9888	23.1878	5.3764	12.65
	36.1829	47.5811	7479.1159	12.5218	18.1344	412.4260	14968.0731	23.7951	5.5348	13.023
L18	36.1829	47.5811	7479.1159	12.5218	18.1344	412.4260	14968.0731	23.7951	5.5348	13.023
	37.1427	48.8563	8096.6748	12.8574	18.6146	434.9626	16204.0034	24.4328	5.7012	13.415
L19	36.6253	53.8473	8238.8403	12.3541	17.9262	459.5983	16488.5215	26.9288	5.3526	10.98
	36.6710	55.2401	8894.8465	12.6736	18.3835	483.8506	17801.3971	27.6253	5.5111	11.305
L20	36.6729	53.8426	8675.8804	12.6781	18.3835	471.9396	17363.1767	26.9264	5.5331	11.649
	37.5869	55.1997	9348.5905	12.9976	18.8407	496.1903	18709.4821	27.6051	5.6915	11.982
L21	37.5869	55.1997	9348.5905	12.9976	18.8407	496.1903	18709.4821	27.6051	5.6915	11.982
	38.5010	56.5568	10055.2062	13.3172	19.2980	521.0487	20123.6432	28.2838	5.8499	12.316
L22	38.5019	55.8219	9927.8614	13.3194	19.2980	514.4499	19868.7860	27.9163	5.8609	12.503
	39.2789	56.9603	10547.7063	13.5910	19.6867	535.7782	21109.2916	28.4856	5.9956	12.791
L23	39.2663	66.6916	12297.3473	13.5622	19.6867	624.6525	24610.8757	33.3521	5.8526	10.641
	39.3120	66.7702	12340.8616	13.5782	19.7096	626.1356	24697.9617	33.3914	5.8605	10.655
L24	39.3120	66.7702	12340.8616	13.5782	19.7096	626.1356	24697.9617	33.3914	5.8605	10.655
	40.2261	68.3416	13232.8363	13.8977	20.1668	656.1679	26483.0847	34.1773	6.0189	10.944
L25	40.2280	66.8097	12944.4815	13.9022	20.1668	641.8694	25905.9957	33.4112	6.0409	11.239
	41.1421	68.3454	13857.7842	14.2217	20.6241	671.9211	27733.8028	34.1792	6.1994	11.534
L26	41.1421	68.3454	13857.7842	14.2217	20.6241	671.9211	27733.8028	34.1792	6.1994	11.534
	42.0561	69.8810	14813.0649	14.5413	21.0814	702.6602	29645.6213	34.9472	6.3578	11.828
L27	42.0561	69.8810	14813.0649	14.5413	21.0814	702.6602	29645.6213	34.9472	6.3578	11.828
	43.0615	71.5703	15913.4859	14.8928	21.5844	737.2675	31847.9111	35.7920	6.5321	12.153
L28	42.4172	76.7832	15769.5601	14.3132	20.7868	758.6345	31559.8703	38.3989	6.1457	10.243
	42.6000	78.9259	17126.9707	14.7126	21.3584	801.8864	34276.4775	39.4705	6.3437	10.573
L29	42.6020	77.3050	16785.3376	14.7171	21.3584	785.8911	33592.7619	38.6598	6.3657	10.835
	43.5160	78.9835	17902.6099	15.0366	21.8156	820.6328	35828.7766	39.4992	6.5242	11.105
L30	43.5160	78.9835	17902.6099	15.0366	21.8156	820.6328	35828.7766	39.4992	6.5242	11.105
	44.1101	80.0745	18654.7863	15.2443	22.1128	843.6179	37334.1190	40.0448	6.6271	11.28
L31	44.1024	86.7882	20171.8010	15.2266	22.1128	912.2212	40370.1446	43.4023	6.5391	10.257

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Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	Iu/Q in ²	w in	w/t
L32	44.1481	86.8792	20235.3661	15.2425	22.1357	914.1506	40497.3584	43.4479	6.5471	10.27
	44.1500	85.2005	19855.9258	15.2470	22.1357	897.0091	39737.9786	42.6084	6.5691	10.51
	45.0640	86.9861	21130.6950	15.5665	22.5930	935.2775	42289.1942	43.5013	6.7275	10.764
L33	45.0640	86.9861	21130.6950	15.5665	22.5930	935.2775	42289.1942	43.5013	6.7275	10.764
	45.9780	88.7718	22458.8882	15.8861	23.0502	974.3454	44947.3283	44.3943	6.8859	11.017
L34	45.9780	88.7718	22458.8882	15.8861	23.0502	974.3454	44947.3283	44.3943	6.8859	11.017
	46.3742	89.5457	23051.3985	16.0246	23.2484	991.5257	46133.1286	44.7813	6.9546	11.127
L35	46.3761	87.7791	22609.1428	16.0290	23.2484	972.5026	45248.0353	43.8979	6.9766	11.39
	46.4218	87.8666	22676.8197	16.0450	23.2713	974.4553	45383.4781	43.9416	6.9845	11.403
L36	46.4218	87.8666	22676.8197	16.0450	23.2713	974.4553	45383.4781	43.9416	6.9845	11.403
	47.3358	89.6165	24058.8518	16.3645	23.7285	1013.9204	48149.3609	44.8167	7.1429	11.662
L37	47.3377	87.8114	23587.0324	16.3690	23.7285	994.0363	47205.1013	43.9140	7.1649	11.942
	48.2518	89.5256	24995.5337	16.6885	24.1858	1033.4794	50023.9571	44.7713	7.3233	12.206
L38	48.2518	89.5256	24995.5337	16.6885	24.1858	1033.4794	50023.9571	44.7713	7.3233	12.206
	49.1658	91.2398	26459.0217	17.0080	24.6431	1073.6900	52952.8588	45.6286	7.4818	12.47
L39	49.1658	91.2398	26459.0217	17.0080	24.6431	1073.6900	52952.8588	45.6286	7.4818	12.47
	49.6837	92.2110	27313.0361	17.1891	24.9022	1096.8139	54662.0113	46.1143	7.5715	12.619

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L1 148.00-143.00				1	1	1			
L2 143.00-138.00				1	1	1			
L3 138.00-133.00				1	1	1			
L4 133.00-128.00				1	1	1			
L5 128.00-123.00				1	1	1			
L6 123.00-118.00				1	1	1			
L7 118.00-111.00				1	1	1			
L8 111.00-110.00				1	1	1			
L9 110.00-105.00				1	1	1			
L10 105.00-100.00				1	1	1			
L11 100.00-99.33				1	1	1			
L12 99.33-99.08				1	1	1			
L13 99.08-94.08				1	1	1			
L14 94.08-90.50				1	1	1			
L15 90.50-90.25				1	1	0.952888			
L16 90.25-85.25				1	1	0.956807			
L17 85.25-80.25				1	1	0.9474			
L18 80.25-75.00				1	1	0.946486			
L19 75.00-74.75				1	1	0.951021			

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Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L20				1	1	0.967893			
74.75-69.75									
L21				1	1	0.960454			
69.75-64.75									
L22				1	1	0.966974			
64.75-60.50									
L23				1	1	0.952283			
60.50-60.25									
L24				1	1	0.943451			
60.25-55.25									
L25				1	1	0.956462			
55.25-50.25									
L26				1	1	0.94822			
50.25-45.25									
L27				1	1	0.947817			
45.25-39.75									
L28				1	1	0.950352			
39.75-38.75									
L29				1	1	0.963225			
38.75-33.75									
L30				1	1	0.958798			
33.75-30.50									
L31				1	1	0.948201			
30.50-30.25									
L32				1	1	0.959352			
30.25-25.25									
L33				1	1	0.952124			
25.25-20.25									
L34				1	1	0.949081			
20.25-18.08									
L35				1	1	0.978981			
18.08-17.83									
L36				1	1	0.97182			
17.83-12.83									
L37 12.83-7.83				1	1	0.984774			
L38 7.83-2.83				1	1	0.978014			
L39 2.83-0.00				1	1	0.974296			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
Climbing Pegs	A	No	Surface Ar (CaAa)	148.00 - 8.00	1	1	0.000 0.500	0.1500		0.31
LDF7-50A (1-5/8 FOAM)	B	No	Surface Ar (CaAa)	148.00 - 8.00	12	9	0.400 0.500	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	B	No	Surface Ar (CaAa)	90.00 - 8.00	6	6	0.000 0.100	1.9800		0.82
1.6" Coax	B	No	Surface Ar (CaAa)	90.00 - 8.00	1	1	0.000 0.120	1.5840		0.80
LDF2-50A (3/8 FOAM)	C	No	Surface Ar (CaAa)	55.00 - 8.00	1	1	0.100 0.100	0.4400		0.08
LDF4-50A (1/2 FOAM)	C	No	Surface Ar	50.00 - 8.00	1	1	0.000	0.6300		0.15

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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
MP3-05 Mod Channel	C	No	(CaAa) Surface Af	20.50 - 0.50	1	1	0.000 0.000	5.3300	14.7500	0.00
MP3-08 Mod Channel	B	No	(CaAa) Surface Af	30.50 - 0.50	1	1	0.000 0.000	7.9300	24.9100	0.00
MP3-06 Mod Channel	C	No	(CaAa) Surface Af	60.50 - 30.50	1	1	0.000 0.000	6.8900	19.0000	0.00
MP3-05 Mod Channel	C	No	(CaAa) Surface Af	90.50 - 60.50	1	1	0.000 0.000	5.3300	14.7500	0.00
MP3-03 Mod Channel	C	No	(CaAa) Surface Af	100.50 - 90.50	1	1	0.000 0.000	4.0600	12.8600	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		CAAA ft ² /ft	Weight plf
Safety Line (3/8")	A	No	No	CaAa (Out Of Face)	148.00 - 8.00	1	No Ice 1/2" Ice 1" Ice	0.04 0.14 0.24	0.22 0.75 1.28
7/8" DC Power Cable	A	No	No	Inside Pole	148.00 - 8.00	2	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.60 0.60 0.60
3/8" Fiber Cable	A	No	No	Inside Pole	148.00 - 8.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.10 0.10 0.10
LDF7-50A (1-5/8 FOAM)	B	No	No	Inside Pole	140.00 - 8.00	18	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82
1-5/8" Hybrid Cable	B	No	No	Inside Pole	140.00 - 8.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82
1-1/4" Hybrid Cable	B	No	No	Inside Pole	126.00 - 8.00	3	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	1.00 1.00 1.00
LDF7-50A (1-5/8 FOAM)	C	No	No	Inside Pole	110.00 - 8.00	11	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82
1-1/4" Hybrid Cable	C	No	No	Inside Pole	110.00 - 8.00	2	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	1.00 1.00 1.00
EW90	A	No	No	Inside Pole	105.00 - 8.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.32 0.32 0.32
LDF5-50A (7/8 FOAM)	A	No	No	Inside Pole	100.00 - 8.00	3	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.33 0.33 0.33
LDF4-50A (1/2 FOAM)	A	No	No	Inside Pole	100.00 - 8.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.15 0.15 0.15

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Feed Line/Linear Appurtenances Section Areas

<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face</i>	<i>A_R</i> <i>ft²</i>	<i>A_F</i> <i>ft²</i>	<i>C_AA_A</i> <i>In Face ft²</i>	<i>C_AA_A</i> <i>Out Face ft²</i>	<i>Weight</i> <i>K</i>
L1	148.00-143.00	A	0.000	0.000	0.075	0.188	0.01
		B	0.000	0.000	8.910	0.000	0.05
		C	0.000	0.000	0.000	0.000	0.00
L2	143.00-138.00	A	0.000	0.000	0.075	0.188	0.01
		B	0.000	0.000	8.910	0.000	0.08
		C	0.000	0.000	0.000	0.000	0.00
L3	138.00-133.00	A	0.000	0.000	0.075	0.188	0.01
		B	0.000	0.000	8.910	0.000	0.13
		C	0.000	0.000	0.000	0.000	0.00
L4	133.00-128.00	A	0.000	0.000	0.075	0.188	0.01
		B	0.000	0.000	8.910	0.000	0.13
		C	0.000	0.000	0.000	0.000	0.00
L5	128.00-123.00	A	0.000	0.000	0.075	0.188	0.01
		B	0.000	0.000	8.910	0.000	0.14
		C	0.000	0.000	0.000	0.000	0.00
L6	123.00-118.00	A	0.000	0.000	0.075	0.188	0.01
		B	0.000	0.000	8.910	0.000	0.14
		C	0.000	0.000	0.000	0.000	0.00
L7	118.00-111.00	A	0.000	0.000	0.105	0.263	0.01
		B	0.000	0.000	12.474	0.000	0.20
		C	0.000	0.000	0.000	0.000	0.00
L8	111.00-110.00	A	0.000	0.000	0.015	0.037	0.00
		B	0.000	0.000	1.782	0.000	0.03
		C	0.000	0.000	0.000	0.000	0.00
L9	110.00-105.00	A	0.000	0.000	0.075	0.188	0.01
		B	0.000	0.000	8.910	0.000	0.14
		C	0.000	0.000	0.000	0.000	0.06
L10	105.00-100.00	A	0.000	0.000	0.075	0.188	0.01
		B	0.000	0.000	8.910	0.000	0.14
		C	0.000	0.000	0.338	0.000	0.06
L11	100.00-99.33	A	0.000	0.000	0.010	0.025	0.00
		B	0.000	0.000	1.194	0.000	0.02
		C	0.000	0.000	0.453	0.000	0.01
L12	99.33-99.08	A	0.000	0.000	0.004	0.009	0.00
		B	0.000	0.000	0.446	0.000	0.01
		C	0.000	0.000	0.169	0.000	0.00
L13	99.08-94.08	A	0.000	0.000	0.075	0.188	0.02
		B	0.000	0.000	8.910	0.000	0.14
		C	0.000	0.000	3.383	0.000	0.06
L14	94.08-90.50	A	0.000	0.000	0.054	0.134	0.01
		B	0.000	0.000	6.380	0.000	0.10
		C	0.000	0.000	2.422	0.000	0.04
L15	90.50-90.25	A	0.000	0.000	0.004	0.009	0.00
		B	0.000	0.000	0.446	0.000	0.01
		C	0.000	0.000	0.222	0.000	0.00
L16	90.25-85.25	A	0.000	0.000	0.075	0.188	0.02
		B	0.000	0.000	15.305	0.000	0.17
		C	0.000	0.000	4.442	0.000	0.06
L17	85.25-80.25	A	0.000	0.000	0.075	0.188	0.02
		B	0.000	0.000	15.642	0.000	0.17
		C	0.000	0.000	4.442	0.000	0.06
L18	80.25-75.00	A	0.000	0.000	0.079	0.197	0.02
		B	0.000	0.000	16.424	0.000	0.18
		C	0.000	0.000	4.664	0.000	0.06
L19	75.00-74.75	A	0.000	0.000	0.004	0.009	0.00
		B	0.000	0.000	0.782	0.000	0.01
		C	0.000	0.000	0.222	0.000	0.00
L20	74.75-69.75	A	0.000	0.000	0.075	0.188	0.02

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Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L21	69.75-64.75	B	0.000	0.000	15.642	0.000	0.17
		C	0.000	0.000	4.442	0.000	0.06
		A	0.000	0.000	0.075	0.188	0.02
L22	64.75-60.50	B	0.000	0.000	15.642	0.000	0.17
		C	0.000	0.000	4.442	0.000	0.06
		A	0.000	0.000	0.064	0.159	0.01
L23	60.50-60.25	B	0.000	0.000	13.296	0.000	0.15
		C	0.000	0.000	3.775	0.000	0.05
		A	0.000	0.000	0.004	0.009	0.00
L24	60.25-55.25	B	0.000	0.000	0.782	0.000	0.01
		C	0.000	0.000	0.287	0.000	0.00
		A	0.000	0.000	0.075	0.188	0.02
L25	55.25-50.25	B	0.000	0.000	15.642	0.000	0.17
		C	0.000	0.000	5.742	0.000	0.06
		A	0.000	0.000	0.075	0.188	0.02
L26	50.25-45.25	B	0.000	0.000	15.642	0.000	0.17
		C	0.000	0.000	5.951	0.000	0.06
		A	0.000	0.000	0.075	0.188	0.02
L27	45.25-39.75	B	0.000	0.000	15.642	0.000	0.17
		C	0.000	0.000	6.261	0.000	0.06
		A	0.000	0.000	0.083	0.206	0.02
L28	39.75-38.75	B	0.000	0.000	17.206	0.000	0.19
		C	0.000	0.000	6.904	0.000	0.06
		A	0.000	0.000	0.015	0.037	0.00
L29	38.75-33.75	B	0.000	0.000	3.128	0.000	0.03
		C	0.000	0.000	1.255	0.000	0.01
		A	0.000	0.000	0.075	0.188	0.02
L30	33.75-30.50	B	0.000	0.000	15.642	0.000	0.17
		C	0.000	0.000	6.277	0.000	0.06
		A	0.000	0.000	0.049	0.122	0.01
L31	30.50-30.25	B	0.000	0.000	10.167	0.000	0.11
		C	0.000	0.000	4.080	0.000	0.04
		A	0.000	0.000	0.004	0.009	0.00
L32	30.25-25.25	B	0.000	0.000	1.113	0.000	0.01
		C	0.000	0.000	0.027	0.000	0.00
		A	0.000	0.000	0.075	0.188	0.02
L33	25.25-20.25	B	0.000	0.000	22.250	0.000	0.17
		C	0.000	0.000	0.535	0.000	0.06
		A	0.000	0.000	0.075	0.188	0.02
L34	20.25-18.08	B	0.000	0.000	22.250	0.000	0.17
		C	0.000	0.000	0.757	0.000	0.06
		A	0.000	0.000	0.033	0.081	0.01
L35	18.08-17.83	B	0.000	0.000	9.643	0.000	0.07
		C	0.000	0.000	2.157	0.000	0.02
		A	0.000	0.000	0.004	0.009	0.00
L36	17.83-12.83	B	0.000	0.000	1.113	0.000	0.01
		C	0.000	0.000	0.249	0.000	0.00
		A	0.000	0.000	0.075	0.188	0.02
L37	12.83-7.83	B	0.000	0.000	22.250	0.000	0.17
		C	0.000	0.000	4.977	0.000	0.06
		A	0.000	0.000	0.072	0.181	0.02
L38	7.83-2.83	B	0.000	0.000	21.728	0.000	0.16
		C	0.000	0.000	4.959	0.000	0.05
		A	0.000	0.000	0.000	0.000	0.00
L39	2.83-0.00	B	0.000	0.000	6.608	0.000	0.00
		C	0.000	0.000	4.442	0.000	0.00
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	3.083	0.000	0.00
		C	0.000	0.000	2.072	0.000	0.00
		A	0.000	0.000	0.000	0.000	0.00

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Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	148.00-143.00	A	1.160	0.000	0.000	1.235	1.347	0.02
		B		0.000	0.000	12.587	0.000	0.18
		C		0.000	0.000	0.000	0.000	0.00
L2	143.00-138.00	A	1.156	0.000	0.000	1.231	1.343	0.02
		B		0.000	0.000	12.582	0.000	0.21
		C		0.000	0.000	0.000	0.000	0.00
L3	138.00-133.00	A	1.152	0.000	0.000	1.227	1.339	0.02
		B		0.000	0.000	12.577	0.000	0.26
		C		0.000	0.000	0.000	0.000	0.00
L4	133.00-128.00	A	1.147	0.000	0.000	1.222	1.335	0.02
		B		0.000	0.000	12.572	0.000	0.26
		C		0.000	0.000	0.000	0.000	0.00
L5	128.00-123.00	A	1.143	0.000	0.000	1.218	1.330	0.02
		B		0.000	0.000	12.566	0.000	0.27
		C		0.000	0.000	0.000	0.000	0.00
L6	123.00-118.00	A	1.138	0.000	0.000	1.213	1.326	0.02
		B		0.000	0.000	12.560	0.000	0.27
		C		0.000	0.000	0.000	0.000	0.00
L7	118.00-111.00	A	1.132	0.000	0.000	1.690	1.848	0.03
		B		0.000	0.000	17.574	0.000	0.38
		C		0.000	0.000	0.000	0.000	0.00
L8	111.00-110.00	A	1.128	0.000	0.000	0.241	0.264	0.00
		B		0.000	0.000	2.511	0.000	0.05
		C		0.000	0.000	0.000	0.000	0.00
L9	110.00-105.00	A	1.125	0.000	0.000	1.200	1.313	0.02
		B		0.000	0.000	12.544	0.000	0.27
		C		0.000	0.000	0.000	0.000	0.06
L10	105.00-100.00	A	1.120	0.000	0.000	1.195	1.308	0.03
		B		0.000	0.000	12.537	0.000	0.27
		C		0.000	0.000	0.405	0.000	0.06
L11	100.00-99.33	A	1.117	0.000	0.000	0.160	0.175	0.00
		B		0.000	0.000	1.680	0.000	0.04
		C		0.000	0.000	0.542	0.000	0.01
L12	99.33-99.08	A	1.116	0.000	0.000	0.060	0.065	0.00
		B		0.000	0.000	0.627	0.000	0.01
		C		0.000	0.000	0.202	0.000	0.00
L13	99.08-94.08	A	1.113	0.000	0.000	1.188	1.301	0.03
		B		0.000	0.000	12.529	0.000	0.27
		C		0.000	0.000	4.043	0.000	0.09
L14	94.08-90.50	A	1.108	0.000	0.000	0.847	0.928	0.02
		B		0.000	0.000	8.966	0.000	0.19
		C		0.000	0.000	2.893	0.000	0.07
L15	90.50-90.25	A	1.106	0.000	0.000	0.059	0.065	0.00
		B		0.000	0.000	0.626	0.000	0.01
		C		0.000	0.000	0.277	0.000	0.00
L16	90.25-85.25	A	1.103	0.000	0.000	1.178	1.290	0.03
		B		0.000	0.000	22.679	0.000	0.38
		C		0.000	0.000	5.544	0.000	0.10
L17	85.25-80.25	A	1.096	0.000	0.000	1.171	1.284	0.03
		B		0.000	0.000	23.191	0.000	0.39
		C		0.000	0.000	5.538	0.000	0.10
L18	80.25-75.00	A	1.089	0.000	0.000	1.223	1.341	0.03
		B		0.000	0.000	24.325	0.000	0.40
		C		0.000	0.000	5.808	0.000	0.10
L19	75.00-74.75	A	1.085	0.000	0.000	0.058	0.064	0.00
		B		0.000	0.000	1.158	0.000	0.02

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
		C		0.000	0.000	0.277	0.000	0.00
L20	74.75-69.75	A	1.081	0.000	0.000	1.156	1.269	0.03
		B		0.000	0.000	23.140	0.000	0.38
		C		0.000	0.000	5.523	0.000	0.09
L21	69.75-64.75	A	1.074	0.000	0.000	1.149	1.261	0.03
		B		0.000	0.000	23.113	0.000	0.38
		C		0.000	0.000	5.515	0.000	0.09
L22	64.75-60.50	A	1.066	0.000	0.000	0.970	1.066	0.03
		B		0.000	0.000	19.623	0.000	0.32
		C		0.000	0.000	4.682	0.000	0.08
L23	60.50-60.25	A	1.062	0.000	0.000	0.057	0.062	0.00
		B		0.000	0.000	1.154	0.000	0.02
		C		0.000	0.000	0.340	0.000	0.01
L24	60.25-55.25	A	1.058	0.000	0.000	1.133	1.245	0.03
		B		0.000	0.000	23.056	0.000	0.38
		C		0.000	0.000	6.799	0.000	0.10
L25	55.25-50.25	A	1.048	0.000	0.000	1.123	1.236	0.03
		B		0.000	0.000	23.023	0.000	0.38
		C		0.000	0.000	7.994	0.000	0.11
L26	50.25-45.25	A	1.038	0.000	0.000	1.113	1.225	0.03
		B		0.000	0.000	22.986	0.000	0.37
		C		0.000	0.000	9.322	0.000	0.12
L27	45.25-39.75	A	1.026	0.000	0.000	1.211	1.334	0.03
		B		0.000	0.000	25.238	0.000	0.41
		C		0.000	0.000	10.289	0.000	0.13
L28	39.75-38.75	A	1.017	0.000	0.000	0.220	0.243	0.01
		B		0.000	0.000	4.589	0.000	0.07
		C		0.000	0.000	1.871	0.000	0.02
L29	38.75-33.75	A	1.009	0.000	0.000	1.084	1.197	0.03
		B		0.000	0.000	22.887	0.000	0.37
		C		0.000	0.000	9.305	0.000	0.12
L30	33.75-30.50	A	0.997	0.000	0.000	0.697	0.770	0.02
		B		0.000	0.000	14.849	0.000	0.24
		C		0.000	0.000	6.025	0.000	0.08
L31	30.50-30.25	A	0.992	0.000	0.000	0.053	0.059	0.00
		B		0.000	0.000	1.521	0.000	0.02
		C		0.000	0.000	0.126	0.000	0.00
L32	30.25-25.25	A	0.983	0.000	0.000	1.058	1.170	0.03
		B		0.000	0.000	30.385	0.000	0.42
		C		0.000	0.000	2.501	0.000	0.07
L33	25.25-20.25	A	0.963	0.000	0.000	1.038	1.151	0.03
		B		0.000	0.000	30.298	0.000	0.41
		C		0.000	0.000	2.732	0.000	0.08
L34	20.25-18.08	A	0.947	0.000	0.000	0.443	0.492	0.01
		B		0.000	0.000	13.099	0.000	0.18
		C		0.000	0.000	3.388	0.000	0.05
L35	18.08-17.83	A	0.941	0.000	0.000	0.051	0.056	0.00
		B		0.000	0.000	1.510	0.000	0.02
		C		0.000	0.000	0.390	0.000	0.01
L36	17.83-12.83	A	0.926	0.000	0.000	1.001	1.114	0.03
		B		0.000	0.000	30.131	0.000	0.41
		C		0.000	0.000	7.755	0.000	0.11
L37	12.83-7.83	A	0.890	0.000	0.000	0.933	1.042	0.03
		B		0.000	0.000	29.219	0.000	0.39
		C		0.000	0.000	7.570	0.000	0.10
L38	7.83-2.83	A	0.833	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	7.442	0.000	0.05
		C		0.000	0.000	5.275	0.000	0.03
L39	2.83-0.00	A	0.730	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	3.424	0.000	0.02
		C		0.000	0.000	2.413	0.000	0.01

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Feed Line Center of Pressure

Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
L1	148.00-143.00	6.6914	2.8144	5.0499	1.4128
L2	143.00-138.00	6.8238	2.8692	5.1334	1.4338
L3	138.00-133.00	6.9533	2.9228	5.2147	1.4545
L4	133.00-128.00	7.0800	2.9752	5.2938	1.4748
L5	128.00-123.00	7.2040	3.0265	5.3708	1.4949
L6	123.00-118.00	7.3254	3.0767	5.4459	1.5148
L7	118.00-111.00	7.4678	3.1356	5.5335	1.5385
L8	111.00-110.00	7.4963	3.1474	5.5510	1.5424
L9	110.00-105.00	7.5659	3.1762	5.5951	1.5573
L10	105.00-100.00	7.5460	3.4674	5.5997	1.7564
L11	100.00-99.33	6.5829	5.3533	5.1143	3.2094
L12	99.33-99.08	6.5925	5.3615	5.1205	3.2136
L13	99.08-94.08	6.6472	5.4077	5.1558	3.2372
L14	94.08-90.50	6.7240	5.4730	5.2126	3.2754
L15	90.50-90.25	6.4589	6.0256	5.0486	3.8117
L16	90.25-85.25	8.2529	3.1276	7.0052	1.5755
L17	85.25-80.25	8.4658	3.0647	7.1914	1.5106
L18	80.25-75.00	8.6152	3.1178	7.3039	1.5357
L19	75.00-74.75	8.6150	3.1177	7.3045	1.5358
L20	74.75-69.75	8.6907	3.1446	7.3622	1.5513
L21	69.75-64.75	8.8338	3.1954	7.4695	1.5761
L22	64.75-60.50	8.9646	3.2419	7.5672	1.5993
L23	60.50-60.25	8.6892	3.9559	7.4448	2.0645
L24	60.25-55.25	8.7607	3.9878	7.4987	2.0813
L25	55.25-50.25	8.8176	4.1421	7.3623	2.4706
L26	50.25-45.25	8.8709	4.3482	7.2942	2.9073
L27	45.25-39.75	9.0040	4.4219	7.3898	2.9684
L28	39.75-38.75	8.9987	4.4193	7.3872	2.9674
L29	38.75-33.75	9.0762	4.4569	7.4495	2.9932
L30	33.75-30.50	9.1821	4.5083	7.5304	3.0261
L31	30.50-30.25	12.4745	-1.2753	9.9649	-0.9059
L32	30.25-25.25	12.5651	-1.2851	10.0321	-0.9113
L33	25.25-20.25	12.6627	-1.1587	10.1172	-0.8167
L34	20.25-18.08	11.5192	1.2997	9.4528	1.0021
L35	18.08-17.83	11.5572	1.3042	9.4828	1.0056
L36	17.83-12.83	11.6397	1.3139	9.5488	1.0133
L37	12.83-7.83	11.7052	1.3277	9.5793	1.0265
L38	7.83-2.83	5.8174	0.9433	4.4703	0.9055
L39	2.83-0.00	5.1991	0.8454	3.8979	0.7738

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	2	Climbing Pegs	143.00 -	1.0000	1.0000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	5	LDF7-50A (1-5/8 FOAM)	148.00	1.0000	1.0000
L2	2	Climbing Pegs	143.00 - 148.00	1.0000	1.0000
L2	5	LDF7-50A (1-5/8 FOAM)	138.00 - 143.00	1.0000	1.0000
L3	2	Climbing Pegs	133.00 - 138.00	1.0000	1.0000
L3	5	LDF7-50A (1-5/8 FOAM)	133.00 - 138.00	1.0000	1.0000
L4	2	Climbing Pegs	128.00 - 133.00	1.0000	1.0000
L4	5	LDF7-50A (1-5/8 FOAM)	128.00 - 133.00	1.0000	1.0000
L5	2	Climbing Pegs	123.00 - 128.00	1.0000	1.0000
L5	5	LDF7-50A (1-5/8 FOAM)	123.00 - 128.00	1.0000	1.0000
L6	2	Climbing Pegs	118.00 - 123.00	1.0000	1.0000
L6	5	LDF7-50A (1-5/8 FOAM)	118.00 - 123.00	1.0000	1.0000
L7	2	Climbing Pegs	111.00 - 118.00	1.0000	1.0000
L7	5	LDF7-50A (1-5/8 FOAM)	111.00 - 118.00	1.0000	1.0000
L8	2	Climbing Pegs	110.00 - 111.00	1.0000	1.0000
L8	5	LDF7-50A (1-5/8 FOAM)	110.00 - 111.00	1.0000	1.0000
L9	2	Climbing Pegs	105.00 - 110.00	1.0000	1.0000
L9	5	LDF7-50A (1-5/8 FOAM)	105.00 - 110.00	1.0000	1.0000
L10	2	Climbing Pegs	100.00 - 105.00	1.0000	1.0000
L10	5	LDF7-50A (1-5/8 FOAM)	100.00 - 105.00	1.0000	1.0000
L10	35	MP3-03 Mod Channel	100.00 - 100.50	1.0000	1.0000
L11	2	Climbing Pegs	99.33 - 100.00	1.0000	1.0000
L11	5	LDF7-50A (1-5/8 FOAM)	99.33 - 100.00	1.0000	1.0000
L11	35	MP3-03 Mod Channel	99.33 - 100.00	1.0000	1.0000
L12	2	Climbing Pegs	99.08 - 99.33	1.0000	1.0000
L12	5	LDF7-50A (1-5/8 FOAM)	99.08 - 99.33	1.0000	1.0000
L12	35	MP3-03 Mod Channel	99.08 - 99.33	1.0000	1.0000
L13	2	Climbing Pegs	94.08 - 99.08	1.0000	1.0000
L13	5	LDF7-50A (1-5/8 FOAM)	94.08 - 99.08	1.0000	1.0000
L13	35	MP3-03 Mod Channel	94.08 - 99.08	1.0000	1.0000
L14	2	Climbing Pegs	90.50 - 94.08	1.0000	1.0000
L14	5	LDF7-50A (1-5/8 FOAM)	90.50 - 94.08	1.0000	1.0000
L14	35	MP3-03 Mod Channel	90.50 - 94.08	1.0000	1.0000
L15	2	Climbing Pegs	90.25 - 90.50	1.0000	1.0000
L15	5	LDF7-50A (1-5/8 FOAM)	90.25 - 90.50	1.0000	1.0000
L15	34	MP3-05 Mod Channel	90.25 - 90.50	1.0000	1.0000
L16	2	Climbing Pegs	85.25 - 90.25	1.0000	1.0000
L16	5	LDF7-50A (1-5/8 FOAM)	85.25 - 90.25	1.0000	1.0000
L16	23	LDF7-50A (1-5/8 FOAM)	85.25 - 90.00	1.0000	1.0000
L16	24	1.6" Coax	85.25 - 90.00	1.0000	1.0000
L16	34	MP3-05 Mod Channel	85.25 - 90.25	1.0000	1.0000
L17	2	Climbing Pegs	80.25 - 85.25	1.0000	1.0000

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<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L17	5	LDF7-50A (1-5/8 FOAM)	80.25 - 85.25	1.0000	1.0000
L17	23	LDF7-50A (1-5/8 FOAM)	80.25 - 85.25	1.0000	1.0000
L17	24	1.6" Coax	80.25 - 85.25	1.0000	1.0000
L17	34	MP3-05 Mod Channel	80.25 - 85.25	1.0000	1.0000
L18	2	Climbing Pegs	75.00 - 80.25	1.0000	1.0000
L18	5	LDF7-50A (1-5/8 FOAM)	75.00 - 80.25	1.0000	1.0000
L18	23	LDF7-50A (1-5/8 FOAM)	75.00 - 80.25	1.0000	1.0000
L18	24	1.6" Coax	75.00 - 80.25	1.0000	1.0000
L18	34	MP3-05 Mod Channel	75.00 - 80.25	1.0000	1.0000
L19	2	Climbing Pegs	74.75 - 75.00	1.0000	1.0000
L19	5	LDF7-50A (1-5/8 FOAM)	74.75 - 75.00	1.0000	1.0000
L19	23	LDF7-50A (1-5/8 FOAM)	74.75 - 75.00	1.0000	1.0000
L19	24	1.6" Coax	74.75 - 75.00	1.0000	1.0000
L19	34	MP3-05 Mod Channel	74.75 - 75.00	1.0000	1.0000
L20	2	Climbing Pegs	69.75 - 74.75	1.0000	1.0000
L20	5	LDF7-50A (1-5/8 FOAM)	69.75 - 74.75	1.0000	1.0000
L20	23	LDF7-50A (1-5/8 FOAM)	69.75 - 74.75	1.0000	1.0000
L20	24	1.6" Coax	69.75 - 74.75	1.0000	1.0000
L20	34	MP3-05 Mod Channel	69.75 - 74.75	1.0000	1.0000
L21	2	Climbing Pegs	64.75 - 69.75	1.0000	1.0000
L21	5	LDF7-50A (1-5/8 FOAM)	64.75 - 69.75	1.0000	1.0000
L21	23	LDF7-50A (1-5/8 FOAM)	64.75 - 69.75	1.0000	1.0000
L21	24	1.6" Coax	64.75 - 69.75	1.0000	1.0000
L21	34	MP3-05 Mod Channel	64.75 - 69.75	1.0000	1.0000
L22	2	Climbing Pegs	60.50 - 64.75	1.0000	1.0000
L22	5	LDF7-50A (1-5/8 FOAM)	60.50 - 64.75	1.0000	1.0000
L22	23	LDF7-50A (1-5/8 FOAM)	60.50 - 64.75	1.0000	1.0000
L22	24	1.6" Coax	60.50 - 64.75	1.0000	1.0000
L22	34	MP3-05 Mod Channel	60.50 - 64.75	1.0000	1.0000
L23	2	Climbing Pegs	60.25 - 60.50	1.0000	1.0000
L23	5	LDF7-50A (1-5/8 FOAM)	60.25 - 60.50	1.0000	1.0000
L23	23	LDF7-50A (1-5/8 FOAM)	60.25 - 60.50	1.0000	1.0000
L23	24	1.6" Coax	60.25 - 60.50	1.0000	1.0000
L23	33	MP3-06 Mod Channel	60.25 - 60.50	1.0000	1.0000
L24	2	Climbing Pegs	55.25 - 60.25	1.0000	1.0000
L24	5	LDF7-50A (1-5/8 FOAM)	55.25 - 60.25	1.0000	1.0000
L24	23	LDF7-50A (1-5/8 FOAM)	55.25 - 60.25	1.0000	1.0000
L24	24	1.6" Coax	55.25 - 60.25	1.0000	1.0000
L24	33	MP3-06 Mod Channel	55.25 - 60.25	1.0000	1.0000
L25	2	Climbing Pegs	50.25 - 55.25	1.0000	1.0000
L25	5	LDF7-50A (1-5/8 FOAM)	50.25 - 55.25	1.0000	1.0000
L25	23	LDF7-50A (1-5/8 FOAM)	50.25 - 55.25	1.0000	1.0000
L25	24	1.6" Coax	50.25 - 55.25	1.0000	1.0000
L25	26	LDF2-50A (3/8 FOAM)	50.25 - 55.00	1.0000	1.0000
L25	33	MP3-06 Mod Channel	50.25 - 55.25	1.0000	1.0000
L26	2	Climbing Pegs	45.25 - 50.25	1.0000	1.0000
L26	5	LDF7-50A (1-5/8 FOAM)	45.25 - 50.25	1.0000	1.0000
L26	23	LDF7-50A (1-5/8 FOAM)	45.25 - 50.25	1.0000	1.0000
L26	24	1.6" Coax	45.25 - 50.25	1.0000	1.0000
L26	26	LDF2-50A (3/8 FOAM)	45.25 - 50.25	1.0000	1.0000
L26	28	LDF4-50A (1/2 FOAM)	45.25 - 50.00	1.0000	1.0000
L26	33	MP3-06 Mod Channel	45.25 - 50.25	1.0000	1.0000
L27	2	Climbing Pegs	39.75 - 45.25	1.0000	1.0000
L27	5	LDF7-50A (1-5/8 FOAM)	39.75 - 45.25	1.0000	1.0000
L27	23	LDF7-50A (1-5/8 FOAM)	39.75 - 45.25	1.0000	1.0000
L27	24	1.6" Coax	39.75 - 45.25	1.0000	1.0000
L27	26	LDF2-50A (3/8 FOAM)	39.75 - 45.25	1.0000	1.0000
L27	28	LDF4-50A (1/2 FOAM)	39.75 - 45.25	1.0000	1.0000
L27	33	MP3-06 Mod Channel	39.75 - 45.25	1.0000	1.0000
L28	2	Climbing Pegs	38.75 - 39.75	1.0000	1.0000
L28	5	LDF7-50A (1-5/8 FOAM)	38.75 - 39.75	1.0000	1.0000
L28	23	LDF7-50A (1-5/8 FOAM)	38.75 - 39.75	1.0000	1.0000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L28	24	1.6" Coax	38.75 - 39.75	1.0000	1.0000
L28	26	LDF2-50A (3/8 FOAM)	38.75 - 39.75	1.0000	1.0000
L28	28	LDF4-50A (1/2 FOAM)	38.75 - 39.75	1.0000	1.0000
L28	33	MP3-06 Mod Channel	38.75 - 39.75	1.0000	1.0000
L29	2	Climbing Pegs	33.75 - 38.75	1.0000	1.0000
L29	5	LDF7-50A (1-5/8 FOAM)	33.75 - 38.75	1.0000	1.0000
L29	23	LDF7-50A (1-5/8 FOAM)	33.75 - 38.75	1.0000	1.0000
L29	24	1.6" Coax	33.75 - 38.75	1.0000	1.0000
L29	26	LDF2-50A (3/8 FOAM)	33.75 - 38.75	1.0000	1.0000
L29	28	LDF4-50A (1/2 FOAM)	33.75 - 38.75	1.0000	1.0000
L29	33	MP3-06 Mod Channel	33.75 - 38.75	1.0000	1.0000
L30	2	Climbing Pegs	30.50 - 33.75	1.0000	1.0000
L30	5	LDF7-50A (1-5/8 FOAM)	30.50 - 33.75	1.0000	1.0000
L30	23	LDF7-50A (1-5/8 FOAM)	30.50 - 33.75	1.0000	1.0000
L30	24	1.6" Coax	30.50 - 33.75	1.0000	1.0000
L30	26	LDF2-50A (3/8 FOAM)	30.50 - 33.75	1.0000	1.0000
L30	28	LDF4-50A (1/2 FOAM)	30.50 - 33.75	1.0000	1.0000
L30	33	MP3-06 Mod Channel	30.50 - 33.75	1.0000	1.0000
L31	2	Climbing Pegs	30.25 - 30.50	1.0000	1.0000
L31	5	LDF7-50A (1-5/8 FOAM)	30.25 - 30.50	1.0000	1.0000
L31	23	LDF7-50A (1-5/8 FOAM)	30.25 - 30.50	1.0000	1.0000
L31	24	1.6" Coax	30.25 - 30.50	1.0000	1.0000
L31	26	LDF2-50A (3/8 FOAM)	30.25 - 30.50	1.0000	1.0000
L31	28	LDF4-50A (1/2 FOAM)	30.25 - 30.50	1.0000	1.0000
L31	32	MP3-08 Mod Channel	30.25 - 30.50	1.0000	1.0000
L32	2	Climbing Pegs	25.25 - 30.25	1.0000	1.0000
L32	5	LDF7-50A (1-5/8 FOAM)	25.25 - 30.25	1.0000	1.0000
L32	23	LDF7-50A (1-5/8 FOAM)	25.25 - 30.25	1.0000	1.0000
L32	24	1.6" Coax	25.25 - 30.25	1.0000	1.0000
L32	26	LDF2-50A (3/8 FOAM)	25.25 - 30.25	1.0000	1.0000
L32	28	LDF4-50A (1/2 FOAM)	25.25 - 30.25	1.0000	1.0000
L32	32	MP3-08 Mod Channel	25.25 - 30.25	1.0000	1.0000
L33	2	Climbing Pegs	20.25 - 25.25	1.0000	1.0000
L33	5	LDF7-50A (1-5/8 FOAM)	20.25 - 25.25	1.0000	1.0000
L33	23	LDF7-50A (1-5/8 FOAM)	20.25 - 25.25	1.0000	1.0000
L33	24	1.6" Coax	20.25 - 25.25	1.0000	1.0000
L33	26	LDF2-50A (3/8 FOAM)	20.25 - 25.25	1.0000	1.0000
L33	28	LDF4-50A (1/2 FOAM)	20.25 - 25.25	1.0000	1.0000
L33	31	MP3-05 Mod Channel	20.25 - 20.50	1.0000	1.0000
L33	32	MP3-08 Mod Channel	20.25 - 25.25	1.0000	1.0000
L34	2	Climbing Pegs	18.08 - 20.25	1.0000	1.0000
L34	5	LDF7-50A (1-5/8 FOAM)	18.08 - 20.25	1.0000	1.0000
L34	23	LDF7-50A (1-5/8 FOAM)	18.08 - 20.25	1.0000	1.0000
L34	24	1.6" Coax	18.08 - 20.25	1.0000	1.0000
L34	26	LDF2-50A (3/8 FOAM)	18.08 - 20.25	1.0000	1.0000
L34	28	LDF4-50A (1/2 FOAM)	18.08 - 20.25	1.0000	1.0000
L34	31	MP3-05 Mod Channel	18.08 - 20.25	1.0000	1.0000
L34	32	MP3-08 Mod Channel	18.08 - 20.25	1.0000	1.0000
L35	2	Climbing Pegs	17.83 - 18.08	1.0000	1.0000
L35	5	LDF7-50A (1-5/8 FOAM)	17.83 - 18.08	1.0000	1.0000
L35	23	LDF7-50A (1-5/8 FOAM)	17.83 - 18.08	1.0000	1.0000
L35	24	1.6" Coax	17.83 - 18.08	1.0000	1.0000
L35	26	LDF2-50A (3/8 FOAM)	17.83 - 18.08	1.0000	1.0000
L35	28	LDF4-50A (1/2 FOAM)	17.83 - 18.08	1.0000	1.0000
L35	31	MP3-05 Mod Channel	17.83 - 18.08	1.0000	1.0000
L35	32	MP3-08 Mod Channel	17.83 - 18.08	1.0000	1.0000
L36	2	Climbing Pegs	12.83 - 17.83	1.0000	1.0000
L36	5	LDF7-50A (1-5/8 FOAM)	12.83 - 17.83	1.0000	1.0000
L36	23	LDF7-50A (1-5/8 FOAM)	12.83 - 17.83	1.0000	1.0000
L36	24	1.6" Coax	12.83 - 17.83	1.0000	1.0000
L36	26	LDF2-50A (3/8 FOAM)	12.83 - 17.83	1.0000	1.0000
L36	28	LDF4-50A (1/2 FOAM)	12.83 - 17.83	1.0000	1.0000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L36	31	MP3-05 Mod Channel	12.83 - 17.83	1.0000	1.0000
L36	32	MP3-08 Mod Channel	12.83 - 17.83	1.0000	1.0000
L37	2	Climbing Pegs	8.00 - 12.83	1.0000	1.0000
L37	5	LDF7-50A (1-5/8 FOAM)	8.00 - 12.83	1.0000	1.0000
L37	23	LDF7-50A (1-5/8 FOAM)	8.00 - 12.83	1.0000	1.0000
L37	24	1.6" Coax	8.00 - 12.83	1.0000	1.0000
L37	26	LDF2-50A (3/8 FOAM)	8.00 - 12.83	1.0000	1.0000
L37	28	LDF4-50A (1/2 FOAM)	8.00 - 12.83	1.0000	1.0000
L37	31	MP3-05 Mod Channel	7.83 - 12.83	1.0000	1.0000
L37	32	MP3-08 Mod Channel	7.83 - 12.83	1.0000	1.0000
L38	31	MP3-05 Mod Channel	2.83 - 7.83	1.0000	1.0000
L38	32	MP3-08 Mod Channel	2.83 - 7.83	1.0000	1.0000
L39	31	MP3-05 Mod Channel	0.50 - 2.83	1.0000	1.0000
L39	32	MP3-08 Mod Channel	0.50 - 2.83	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L10	35	MP3-03 Mod Channel	100.00 - 100.50	Manual	1.0000
L11	35	MP3-03 Mod Channel	99.33 - 100.00	Manual	1.0000
L12	35	MP3-03 Mod Channel	99.08 - 99.33	Manual	1.0000
L13	35	MP3-03 Mod Channel	94.08 - 99.08	Manual	1.0000
L14	35	MP3-03 Mod Channel	90.50 - 94.08	Manual	1.0000
L15	34	MP3-05 Mod Channel	90.25 - 90.50	Manual	1.0000
L16	34	MP3-05 Mod Channel	85.25 - 90.25	Manual	1.0000
L17	34	MP3-05 Mod Channel	80.25 - 85.25	Manual	1.0000
L18	34	MP3-05 Mod Channel	75.00 - 80.25	Manual	1.0000
L19	34	MP3-05 Mod Channel	74.75 - 75.00	Manual	1.0000
L20	34	MP3-05 Mod Channel	69.75 - 74.75	Manual	1.0000
L21	34	MP3-05 Mod Channel	64.75 - 69.75	Manual	1.0000
L22	34	MP3-05 Mod Channel	60.50 - 64.75	Manual	1.0000
L23	33	MP3-06 Mod Channel	60.25 - 60.50	Manual	1.0000
L24	33	MP3-06 Mod Channel	55.25 - 60.25	Manual	1.0000
L25	33	MP3-06 Mod Channel	50.25 - 55.25	Manual	1.0000
L26	33	MP3-06 Mod Channel	45.25 - 50.25	Manual	1.0000
L27	33	MP3-06 Mod Channel	39.75 - 45.25	Manual	1.0000
L28	33	MP3-06 Mod Channel	38.75 - 39.75	Manual	1.0000
L29	33	MP3-06 Mod Channel	33.75 - 38.75	Manual	1.0000
L30	33	MP3-06 Mod Channel	30.50 - 33.75	Manual	1.0000
L31	32	MP3-08 Mod Channel	30.25 - 30.50	Manual	1.0000
L32	32	MP3-08 Mod Channel	25.25 - 30.25	Manual	1.0000
L33	31	MP3-05 Mod Channel	20.25 - 20.50	Manual	1.0000
L33	32	MP3-08 Mod Channel	20.25 - 25.25	Manual	1.0000
L34	31	MP3-05 Mod Channel	18.08 - 20.25	Manual	1.0000
L34	32	MP3-08 Mod Channel	18.08 - 20.25	Manual	1.0000
L35	31	MP3-05 Mod Channel	17.83 - 18.08	Manual	1.0000
L35	32	MP3-08 Mod Channel	17.83 - 18.08	Manual	1.0000
L36	31	MP3-05 Mod Channel	12.83 - 17.83	Manual	1.0000
L36	32	MP3-08 Mod Channel	12.83 - 17.83	Manual	1.0000
L37	31	MP3-05 Mod Channel	7.83 - 12.83	Manual	1.0000
L37	32	MP3-08 Mod Channel	7.83 - 12.83	Manual	1.0000

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Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L38	31	MP3-05 Mod Channel	2.83 - 7.83	Manual	1.0000
L38	32	MP3-08 Mod Channel	2.83 - 7.83	Manual	1.0000
L39	31	MP3-05 Mod Channel	0.50 - 2.83	Manual	1.0000
L39	32	MP3-08 Mod Channel	0.50 - 2.83	Manual	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horiz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
Lighting Rod 5/8" x 8'	C	From Leg	0.00 0.00 4.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	0.50 1.31 2.14	0.50 1.31 2.14	0.03 0.04 0.05
(2) 7770.00 w/Mount Pipe	A	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	5.51 5.87 6.23	4.10 4.73 5.37	0.06 0.11 0.16
(2) 7770.00 w/Mount Pipe	B	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	5.51 5.87 6.23	4.10 4.73 5.37	0.06 0.11 0.16
(2) 7770.00 w/Mount Pipe	C	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	5.51 5.87 6.23	4.10 4.73 5.37	0.06 0.11 0.16
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	9.90 10.47 11.01	8.11 9.30 10.21	0.08 0.16 0.25
SBNHH-1D65C w/ Mount Pipe	B	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	11.35 11.97 12.59	8.28 9.07 9.87	0.06 0.14 0.22
SBNHH-1D65A w/ Mount Pipe	C	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	6.10 6.54 6.97	5.19 5.96 6.66	0.06 0.12 0.18
(4) LGP21401	A	From Centroid-Le g	4.00 0.00 1.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	1.10 1.24 1.38	0.21 0.27 0.35	0.01 0.02 0.03
(4) LGP21401	B	From Centroid-Le g	4.00 0.00 1.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	1.10 1.24 1.38	0.21 0.27 0.35	0.01 0.02 0.03
(4) LGP21401	C	From Centroid-Le g	4.00 0.00 1.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	1.10 1.24 1.38	0.21 0.27 0.35	0.01 0.02 0.03
RRUS 32 B2	A	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	2.73 2.95 3.18	1.67 1.86 2.05	0.05 0.07 0.10
RRUS 32 B2	B	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	2.73 2.95 3.18	1.67 1.86 2.05	0.05 0.07 0.10
RRUS 32 B2	C	From Centroid-Le g	4.00 0.00 2.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	2.73 2.95 3.18	1.67 1.86 2.05	0.05 0.07 0.10
RRUS-11	A	From	4.00	0.0000	148.00	No Ice	2.78	1.19	0.05

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K	
RRUS-11	B	Centroid-Le	0.00	0.0000	148.00	1/2" Ice	2.99	1.33	0.07
		g	0.00			1" Ice	3.21	1.49	0.09
		From	4.00			No Ice	2.78	1.19	0.05
RRUS-11	C	Centroid-Le	0.00	0.0000	148.00	1/2" Ice	2.99	1.33	0.07
		g	0.00			1" Ice	3.21	1.49	0.09
		From	4.00			No Ice	2.78	1.19	0.05
DC6-48-60-18-8F Surge Suppression Unit	A	Centroid-Le	0.00	0.0000	148.00	1/2" Ice	2.99	1.33	0.07
		g	0.00			1" Ice	3.21	1.49	0.09
		From	4.00			No Ice	0.92	0.92	0.02
Platform Mount [LP 1201-1]	B	Centroid-Le	0.00	0.0000	148.00	1/2" Ice	1.46	1.46	0.04
		g	0.00			1" Ice	1.64	1.64	0.06
		None	0.00			No Ice	18.38	18.38	2.10
AIR32 B66A_B2A w/ Mount Pipe	A	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	22.11	22.11	2.65
		g	0.00			1" Ice	25.87	25.87	3.26
		From	4.00			No Ice	7.29	6.61	0.16
AIR32 B66A_B2A w/ Mount Pipe	B	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	8.01	7.80	0.23
		g	0.00			1" Ice	8.67	8.83	0.30
		From	4.00			No Ice	7.29	6.61	0.16
AIR32 B66A_B2A w/ Mount Pipe	C	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	8.01	7.80	0.23
		g	0.00			1" Ice	8.67	8.83	0.30
		From	4.00			No Ice	7.29	6.61	0.16
AIR 6449 B41 w/ Mount Pipe	A	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	8.01	7.80	0.23
		g	0.00			1" Ice	8.67	8.83	0.30
		From	4.00			No Ice	6.20	3.61	0.13
AIR 6449 B41 w/ Mount Pipe	B	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	6.64	4.14	0.18
		g	0.00			1" Ice	7.09	4.68	0.24
		From	4.00			No Ice	6.20	3.61	0.13
AIR 6449 B41 w/ Mount Pipe	C	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	6.64	4.14	0.18
		g	0.00			1" Ice	7.09	4.68	0.24
		From	4.00			No Ice	6.20	3.61	0.13
APXVAALL24_43-U-NA20 w/ Mount Pipe	A	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	6.64	4.14	0.18
		g	0.00			1" Ice	7.09	4.68	0.24
		From	4.00			No Ice	20.24	10.63	0.18
APXVAALL24_43-U-NA20 w/ Mount Pipe	B	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	20.89	12.06	0.31
		g	0.00			1" Ice	21.55	13.34	0.46
		From	4.00			No Ice	20.24	10.63	0.18
APXVAALL24_43-U-NA20 w/ Mount Pipe	C	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	20.89	12.06	0.31
		g	0.00			1" Ice	21.55	13.34	0.46
		From	4.00			No Ice	20.24	10.63	0.18
4415 B25	A	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	20.89	12.06	0.31
		g	0.00			1" Ice	21.55	13.34	0.46
		From	4.00			No Ice	1.65	0.68	0.05
4415 B25	B	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	1.81	0.79	0.06
		g	0.00			1" Ice	1.98	0.92	0.07
		From	4.00			No Ice	1.65	0.68	0.05
4415 B25	C	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	1.81	0.79	0.06
		g	0.00			1" Ice	1.98	0.92	0.07
		From	4.00			No Ice	1.65	0.68	0.05
4449 B71 + B12	A	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	1.81	0.79	0.06
		g	0.00			1" Ice	1.98	0.92	0.07
		From	4.00			No Ice	1.63	1.00	0.07
4449 B71 + B12	B	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	1.79	1.13	0.09
		g	0.00			1" Ice	1.95	1.27	0.11
		From	4.00			No Ice	1.63	1.00	0.07
4449 B71 + B12	C	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	1.79	1.13	0.09
		g	0.00			1" Ice	1.95	1.27	0.11
		From	4.00			No Ice	1.63	1.00	0.07

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	Client	Designed by
	AT&T	mrисley

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
Platform Mount [LP 1201-1]	B	Centroid-Le	0.00	0.0000	140.00	1/2" Ice	1.79	0.09
		g	0.00			1" Ice	1.95	0.11
		None				No Ice	18.38	2.10
						1/2" Ice	22.11	2.65
APXVSPP18-C-A20 w/ Mount Pipe	A	From	4.00	0.0000	126.00	1" Ice	25.87	3.26
		Centroid-Le	0.00			No Ice	8.02	0.08
		g	4.00			1/2" Ice	8.48	0.14
						1" Ice	8.94	0.22
APXVSPP18-C-A20 w/ Mount Pipe	B	From	4.00	0.0000	126.00	No Ice	8.02	0.08
		Centroid-Le	0.00			1/2" Ice	8.48	0.14
		g	4.00			1" Ice	8.94	0.22
						No Ice	8.02	0.08
APXVSPP18-C-A20 w/ Mount Pipe	C	From	4.00	0.0000	126.00	No Ice	8.02	0.08
		Centroid-Le	0.00			1/2" Ice	8.48	0.14
		g	4.00			1" Ice	8.94	0.22
						No Ice	8.02	0.08
APXVTM14-ALU-I20 w/ Mount Pipe	A	From	4.00	0.0000	126.00	No Ice	6.58	0.08
		Centroid-Le	0.00			1/2" Ice	7.03	0.13
		g	4.00			1" Ice	7.47	0.19
						No Ice	6.58	0.08
APXVTM14-ALU-I20 w/ Mount Pipe	B	From	4.00	0.0000	126.00	No Ice	6.58	0.08
		Centroid-Le	0.00			1/2" Ice	7.03	0.13
		g	4.00			1" Ice	7.47	0.19
						No Ice	6.58	0.08
APXVTM14-ALU-I20 w/ Mount Pipe	C	From	4.00	0.0000	126.00	No Ice	6.58	0.08
		Centroid-Le	0.00			1/2" Ice	7.03	0.13
		g	4.00			1" Ice	7.47	0.19
						No Ice	6.58	0.08
(2) 1900MHz RRH	A	From	4.00	0.0000	126.00	No Ice	2.49	0.04
		Centroid-Le	0.00			1/2" Ice	2.70	0.08
		g	4.00			1" Ice	2.91	0.11
						No Ice	2.49	0.04
(2) 1900MHz RRH	B	From	4.00	0.0000	126.00	No Ice	2.49	0.04
		Centroid-Le	0.00			1/2" Ice	2.70	0.08
		g	4.00			1" Ice	2.91	0.11
						No Ice	2.49	0.04
(2) 1900MHz RRH	C	From	4.00	0.0000	126.00	No Ice	2.49	0.04
		Centroid-Le	0.00			1/2" Ice	2.70	0.08
		g	4.00			1" Ice	2.91	0.11
						No Ice	2.49	0.04
800MHZ RRH	A	From	4.00	0.0000	126.00	No Ice	2.13	0.06
		Centroid-Le	0.00			1/2" Ice	2.32	0.09
		g	4.00			1" Ice	2.51	0.11
						No Ice	2.13	0.06
800MHZ RRH	B	From	4.00	0.0000	126.00	No Ice	2.13	0.06
		Centroid-Le	0.00			1/2" Ice	2.32	0.09
		g	4.00			1" Ice	2.51	0.11
						No Ice	2.13	0.06
800MHZ RRH	C	From	4.00	0.0000	126.00	No Ice	2.13	0.06
		Centroid-Le	0.00			1/2" Ice	2.32	0.09
		g	4.00			1" Ice	2.51	0.11
						No Ice	2.13	0.06
RRH8x20-25/TD RRH	A	From	4.00	0.0000	126.00	No Ice	3.70	0.07
		Centroid-Le	0.00			1/2" Ice	3.95	0.09
		g	4.00			1" Ice	4.20	0.12
						No Ice	3.70	0.07
RRH8x20-25/TD RRH	B	From	4.00	0.0000	126.00	No Ice	3.70	0.07
		Centroid-Le	0.00			1/2" Ice	3.95	0.09
		g	4.00			1" Ice	4.20	0.12
						No Ice	3.70	0.07
RRH8x20-25/TD RRH	C	From	4.00	0.0000	126.00	No Ice	3.70	0.07
		Centroid-Le	0.00			1/2" Ice	3.95	0.09
		g	4.00			1" Ice	4.20	0.12
						No Ice	3.70	0.07
Platform Mount [LP 1201-1_HR-1]	B	None		0.0000	126.00	No Ice	26.39	2.36
						1/2" Ice	31.40	3.06
						1" Ice	36.20	3.86
						No Ice	10.11	0.09
(2) MX06FRO660-03 w/ Mount Pipe	A	From	4.00	0.0000	110.00	No Ice	10.11	0.09
		Centroid-Le	0.00			1/2" Ice	10.68	0.17
		g	0.00			1" Ice	11.22	0.27
						No Ice	10.11	0.09
(2) MX06FRO660-03 w/ Mount Pipe	B	From	4.00	0.0000	110.00	No Ice	10.11	0.09

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
Mount Pipe		Centroid-Le	0.00			1/2" Ice	10.68	0.17
		g	0.00			1" Ice	11.22	0.27
(2) MX06FRO660-03 w/ Mount Pipe	C	From	4.00	0.0000	110.00	No Ice	10.11	0.09
		Centroid-Le	0.00			1/2" Ice	10.68	0.17
		g	0.00			1" Ice	11.22	0.27
MT6413-77a w/ Mount Pipe	A	From	4.00	0.0000	110.00	No Ice	4.65	0.08
		Centroid-Le	0.00			1/2" Ice	5.20	0.12
		g	0.00			1" Ice	5.68	0.16
MT6413-77a w/ Mount Pipe	B	From	4.00	0.0000	110.00	No Ice	4.65	0.08
		Centroid-Le	0.00			1/2" Ice	5.20	0.12
		g	0.00			1" Ice	5.68	0.16
MT6413-77a w/ Mount Pipe	C	From	4.00	0.0000	110.00	No Ice	4.65	0.08
		Centroid-Le	0.00			1/2" Ice	5.20	0.12
		g	0.00			1" Ice	5.68	0.16
HBX-6516DS-VTM w/ Mount Pipe	A	From	4.00	0.0000	110.00	No Ice	3.53	0.03
		Centroid-Le	0.00			1/2" Ice	3.91	0.06
		g	0.00			1" Ice	4.28	0.10
HBX-6516DS-VTM w/ Mount Pipe	B	From	4.00	0.0000	110.00	No Ice	3.53	0.03
		Centroid-Le	0.00			1/2" Ice	3.91	0.06
		g	0.00			1" Ice	4.28	0.10
HBX-6516DS-VTM w/ Mount Pipe	C	From	4.00	0.0000	110.00	No Ice	3.53	0.03
		Centroid-Le	0.00			1/2" Ice	3.91	0.06
		g	0.00			1" Ice	4.28	0.10
B2/B66A RRH ORAN (RF4439d-25A)	A	From	4.00	0.0000	110.00	No Ice	1.87	0.07
		Centroid-Le	0.00			1/2" Ice	2.03	0.09
		g	0.00			1" Ice	2.21	0.11
B2/B66A RRH ORAN (RF4439d-25A)	B	From	4.00	0.0000	110.00	No Ice	1.87	0.07
		Centroid-Le	0.00			1/2" Ice	2.03	0.09
		g	0.00			1" Ice	2.21	0.11
B2/B66A RRH ORAN (RF4439d-25A)	C	From	4.00	0.0000	110.00	No Ice	1.87	0.07
		Centroid-Le	0.00			1/2" Ice	2.03	0.09
		g	0.00			1" Ice	2.21	0.11
B5/B13 RRH ORAN (RF4440d-13A)	A	From	4.00	0.0000	110.00	No Ice	1.87	0.07
		Centroid-Le	0.00			1/2" Ice	2.03	0.09
		g	0.00			1" Ice	2.21	0.11
B5/B13 RRH ORAN (RF4440d-13A)	B	From	4.00	0.0000	110.00	No Ice	1.87	0.07
		Centroid-Le	0.00			1/2" Ice	2.03	0.09
		g	0.00			1" Ice	2.21	0.11
B5/B13 RRH ORAN (RF4440d-13A)	C	From	4.00	0.0000	110.00	No Ice	1.87	0.07
		Centroid-Le	0.00			1/2" Ice	2.03	0.09
		g	0.00			1" Ice	2.21	0.11
RVZDC-6627-PF-48	B	From	4.00	0.0000	110.00	No Ice	3.79	0.03
		Centroid-Le	0.00			1/2" Ice	4.04	0.06
		g	0.00			1" Ice	4.30	0.10
VZWSMART-P40-2Z8X072	A	From	2.00	0.0000	110.00	No Ice	1.43	0.00
		Centroid-Le	0.00			1/2" Ice	1.92	0.00
		g	0.00			1" Ice	2.41	0.00
VZWSMART-P40-2Z8X072	B	From	2.00	0.0000	110.00	No Ice	1.43	0.00
		Centroid-Le	0.00			1/2" Ice	1.92	0.00
		g	0.00			1" Ice	2.41	0.00
VZWSMART-PLK1	A	None		0.0000	110.00	No Ice	4.56	0.24
						1/2" Ice	6.39	0.31
						1" Ice	8.18	0.40
Platform Mount [LP 1201-1]	B	None		0.0000	110.00	No Ice	18.38	2.10
						1/2" Ice	22.11	2.65
						1" Ice	25.87	3.26
Pipe Mount 4'x2.375"	A	From Leg	0.50	0.0000	105.00	No Ice	0.87	0.02

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	AT&T		mrисley

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			0.00			1/2" Ice	1.11	0.03
			0.00			1" Ice	1.36	0.04
CC807-08	A	From Leg	6.00	0.0000	100.00	No Ice	2.85	0.02
			0.00			1/2" Ice	3.84	0.05
			5.00			1" Ice	4.68	0.07
CC807-08	B	From Leg	6.00	0.0000	100.00	No Ice	2.85	0.02
			0.00			1/2" Ice	3.84	0.05
			5.00			1" Ice	4.68	0.07
DS1F00F36U-D	C	From Leg	6.00	0.0000	100.00	No Ice	4.35	0.04
			0.00			1/2" Ice	5.83	0.07
			4.00			1" Ice	7.33	0.11
DS428E-83I-01-T	A	From Leg	3.00	0.0000	100.00	No Ice	0.40	0.01
			0.00			1/2" Ice	0.48	0.01
			0.00			1" Ice	0.57	0.02
6' Standoff - Flat (GPD)	A	From Leg	3.00	0.0000	100.00	No Ice	1.96	0.10
			0.00			1/2" Ice	3.08	0.14
			0.00			1" Ice	4.20	0.18
6' Standoff - Flat (GPD)	B	From Leg	3.00	0.0000	100.00	No Ice	1.96	0.10
			0.00			1/2" Ice	3.08	0.14
			0.00			1" Ice	4.20	0.18
6' Standoff - Flat (GPD)	C	From Leg	3.00	0.0000	100.00	No Ice	1.96	0.10
			0.00			1/2" Ice	3.08	0.14
			0.00			1" Ice	4.20	0.18
MX08FRO665-21 w/ Mount Pipe	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	12.49	0.09
						1/2" Ice	12.99	0.18
						1" Ice	13.49	0.27
MX08FRO665-21 w/ Mount Pipe	B	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	12.49	0.09
						1/2" Ice	12.99	0.18
						1" Ice	13.49	0.27
MX08FRO665-21 w/ Mount Pipe	C	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	12.49	0.09
						1/2" Ice	12.99	0.18
						1" Ice	13.49	0.27
TA08025-B604	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	1.96	0.06
						1/2" Ice	2.14	0.08
						1" Ice	2.32	0.10
TA08025-B604	B	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	1.96	0.06
						1/2" Ice	2.14	0.08
						1" Ice	2.32	0.10
TA08025-B604	C	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	1.96	0.06
						1/2" Ice	2.14	0.08
						1" Ice	2.32	0.10
TA08025-B605	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	1.96	0.08
						1/2" Ice	2.14	0.09
						1" Ice	2.32	0.11
TA08025-B605	B	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	1.96	0.08
						1/2" Ice	2.14	0.09
						1" Ice	2.32	0.11
TA08025-B605	C	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	1.96	0.08
						1/2" Ice	2.14	0.09
						1" Ice	2.32	0.11
RDIDC-9181-PF-48	A	From Centroid-Le g	4.00 0.00 0.00	0.0000	90.00	No Ice	2.56	0.02
						1/2" Ice	2.76	0.04
						1" Ice	2.97	0.07
Platform Mount [LP 716-1]	C	None		0.0000	90.00	No Ice	26.80	1.51
						1/2" Ice	32.20	1.81
						1" Ice	37.60	2.11
GPS	A	From Leg	1.00	0.0000	55.00	No Ice	0.12	0.00

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
MTS 12" Antenna Standoff	A	From Leg	0.00	0.0000	55.00	1/2" Ice	0.21	0.00
			0.00			1" Ice	0.28	0.01
			0.50			No Ice	2.82	0.04
			0.00			1/2" Ice	4.07	0.06
			0.00			1" Ice	5.32	0.08
GPS	A	From Leg	1.00	0.0000	50.00	No Ice	0.12	0.00
			0.00			1/2" Ice	0.21	0.00
			0.00			1" Ice	0.28	0.01
MTS 12" Antenna Standoff	A	From Leg	0.50	0.0000	50.00	No Ice	2.82	0.04
			0.00			1/2" Ice	4.07	0.06
			0.00			1" Ice	5.32	0.08

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K
HP3-11	A	Paraboloid w/Shroud (HP)	From Leg	1.00	36.0000		105.00	3.00	No Ice	12.57
				0.00					1/2" Ice	13.10
				0.00					1" Ice	13.62

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice

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Comb. No.	Description
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 Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	148 - 143	22.875	40	1.3639	0.0027
L2	143 - 138	21.449	40	1.3598	0.0025
L3	138 - 133	20.030	40	1.3503	0.0024
L4	133 - 128	18.625	40	1.3328	0.0022
L5	128 - 123	17.242	40	1.3076	0.0021
L6	123 - 118	15.889	40	1.2743	0.0020
L7	118 - 111	14.576	40	1.2322	0.0018
L8	115 - 110	13.811	40	1.2034	0.0018
L9	110 - 105	12.566	40	1.1703	0.0017
L10	105 - 100	11.372	40	1.1077	0.0016
L11	100 - 99.33	10.248	40	1.0376	0.0014
L12	99.33 - 99.08	10.104	40	1.0278	0.0014
L13	99.08 - 94.08	10.050	40	1.0241	0.0014
L14	94.08 - 90.5	9.018	40	0.9463	0.0012
L15	90.5 - 90.25	8.330	40	0.8873	0.0011
L16	90.25 - 85.25	8.284	40	0.8848	0.0011
L17	85.25 - 80.25	7.384	40	0.8328	0.0010
L18	80.25 - 75	6.541	40	0.7778	0.0009
L19	79.75 - 74.75	6.460	40	0.7722	0.0009
L20	74.75 - 69.75	5.665	40	0.7435	0.0008
L21	69.75 - 64.75	4.916	40	0.6878	0.0007
L22	64.75 - 60.5	4.225	40	0.6308	0.0006
L23	60.5 - 60.25	3.686	40	0.5809	0.0006
L24	60.25 - 55.25	3.656	40	0.5783	0.0006

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L25	55.25 - 50.25	3.077	40	0.5272	0.0005
L26	50.25 - 45.25	2.552	40	0.4744	0.0005
L27	45.25 - 39.75	2.083	40	0.4212	0.0004
L28	45 - 38.75	2.061	40	0.4185	0.0004
L29	38.75 - 33.75	1.535	40	0.3812	0.0003
L30	33.75 - 30.5	1.163	40	0.3298	0.0003
L31	30.5 - 30.25	0.949	40	0.2964	0.0003
L32	30.25 - 25.25	0.934	40	0.2940	0.0003
L33	25.25 - 20.25	0.651	40	0.2457	0.0002
L34	20.25 - 18.083	0.419	40	0.1975	0.0002
L35	18.083 - 17.833	0.334	40	0.1767	0.0001
L36	17.833 - 12.833	0.325	40	0.1743	0.0001
L37	12.833 - 7.833	0.168	40	0.1256	0.0001
L38	7.833 - 2.833	0.063	46	0.0764	0.0001
L39	2.833 - 0	0.008	46	0.0275	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
148.00	Lighting Rod 5/8" x 8'	40	22.875	1.3639	0.0029	42481
140.00	AIR32 B66A_B2A w/ Mount Pipe	40	20.596	1.3550	0.0026	27174
126.00	APXVSP18-C-A20 w/ Mount Pipe	40	16.697	1.2952	0.0022	8915
110.00	(2) MX06FRO660-03 w/ Mount Pipe	40	12.566	1.1703	0.0019	5744
105.00	HP3-11	40	11.372	1.1077	0.0018	4317
100.00	CC807-08	40	10.248	1.0376	0.0015	3909
90.00	MX08FRO665-21 w/ Mount Pipe	40	8.238	0.8824	0.0011	4475
55.00	GPS	40	3.049	0.5246	0.0005	5507
50.00	GPS	40	2.527	0.4718	0.0005	5400

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	148 - 143	101.094	16	6.0309	0.0115
L2	143 - 138	94.806	16	6.0132	0.0107
L3	138 - 133	88.548	16	5.9722	0.0101
L4	133 - 128	82.351	16	5.8955	0.0094
L5	128 - 123	76.251	16	5.7850	0.0089
L6	123 - 118	70.283	16	5.6386	0.0084
L7	118 - 111	64.488	16	5.4530	0.0079
L8	115 - 110	61.110	16	5.3262	0.0077
L9	110 - 105	55.610	16	5.1802	0.0074
L10	105 - 100	50.339	16	4.9037	0.0069
L11	100 - 99.33	45.372	16	4.5949	0.0059
L12	99.33 - 99.08	44.732	16	4.5514	0.0058
L13	99.08 - 94.08	44.494	16	4.5349	0.0058
L14	94.08 - 90.5	39.931	16	4.1914	0.0050
L15	90.5 - 90.25	36.890	16	3.9303	0.0046

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L16	90.25 - 85.25	36.685	16	3.9194	0.0045
L17	85.25 - 80.25	32.705	16	3.6891	0.0041
L18	80.25 - 75	28.972	16	3.4460	0.0037
L19	79.75 - 74.75	28.613	16	3.4211	0.0037
L20	74.75 - 69.75	25.096	16	3.2938	0.0035
L21	69.75 - 64.75	21.779	16	3.0475	0.0031
L22	64.75 - 60.5	18.721	16	2.7950	0.0028
L23	60.5 - 60.25	16.333	16	2.5737	0.0025
L24	60.25 - 55.25	16.199	16	2.5625	0.0025
L25	55.25 - 50.25	13.635	16	2.3361	0.0023
L26	50.25 - 45.25	11.312	16	2.1022	0.0020
L27	45.25 - 39.75	9.235	16	1.8666	0.0017
L28	45 - 38.75	9.137	16	1.8548	0.0017
L29	38.75 - 33.75	6.805	16	1.6896	0.0015
L30	33.75 - 30.5	5.156	16	1.4618	0.0013
L31	30.5 - 30.25	4.211	16	1.3139	0.0011
L32	30.25 - 25.25	4.143	16	1.3034	0.0011
L33	25.25 - 20.25	2.890	16	1.0894	0.0009
L34	20.25 - 18.083	1.861	16	0.8762	0.0007
L35	18.083 - 17.833	1.484	16	0.7841	0.0006
L36	17.833 - 12.833	1.444	16	0.7733	0.0006
L37	12.833 - 7.833	0.747	16	0.5576	0.0004
L38	7.833 - 2.833	0.278	16	0.3390	0.0003
L39	2.833 - 0	0.036	16	0.1221	0.0001

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
148.00	Lighting Rod 5/8" x 8'	16	101.094	6.0309	0.0126	9967
140.00	AIR32 B66A_B2A w/ Mount Pipe	16	91.046	5.9925	0.0114	6343
126.00	APXVSPPI8-C-A20 w/ Mount Pipe	16	73.845	5.7305	0.0097	2065
110.00	(2) MX06FRO660-03 w/ Mount Pipe	16	55.610	5.1802	0.0083	1321
105.00	HP3-11	16	50.339	4.9037	0.0078	992
100.00	CC807-08	16	45.372	4.5949	0.0066	897
90.00	MX08FRO665-21 w/ Mount Pipe	16	36.480	3.9086	0.0049	1022
55.00	GPS	16	13.513	2.3245	0.0023	1248
50.00	GPS	16	11.202	2.0905	0.0020	1223

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 P _u / φP _n
L1	148 - 143 (1)	TP24.9001x24x0.25	5.00	0.00	0.0	19.5599	-3.71	1144.25	0.003
L2	143 - 138 (2)	TP25.8003x24.9001x0.25	5.00	0.00	0.0	20.2741	-8.30	1186.04	0.007

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Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _n	Ratio P _u φP _n
	ft		ft	ft		in ²	K	K	
L3	138 - 133 (3)	TP26.7004x25.8003x0.25	5.00	0.00	0.0	20.9884	-8.85	1227.82	0.007
L4	133 - 128 (4)	TP27.6005x26.7004x0.25	5.00	0.00	0.0	21.7027	-9.41	1269.61	0.007
L5	128 - 123 (5)	TP28.5007x27.6005x0.25	5.00	0.00	0.0	22.4169	-13.73	1311.39	0.010
L6	123 - 118 (6)	TP29.4008x28.5007x0.25	5.00	0.00	0.0	23.1312	-14.38	1353.17	0.011
L7	118 - 111 (7)	TP30.661x29.4008x0.25	7.00	0.00	0.0	23.5597	-14.78	1378.24	0.011
L8	111 - 110 (8)	TP30.3412x29.4409x0.25	5.00	0.00	0.0	23.8773	-15.82	1396.82	0.011
L9	110 - 105 (9)	TP31.2414x30.3412x0.25	5.00	0.00	0.0	24.5917	-20.58	1438.61	0.014
L10	105 - 100 (10)	TP32.1417x31.2414x0.25	5.00	0.00	0.0	25.3060	-21.57	1480.40	0.015
L11	100 - 99.33 (11)	TP32.2623x32.1417x0.25	0.67	0.00	0.0	25.4018	-22.06	1486.00	0.015
L12	99.33 - 99.08 (12)	TP32.3073x32.2623x0.25	0.25	0.00	0.0	25.4375	-22.11	1488.09	0.015
L13	99.08 - 94.08 (13)	TP33.2076x32.3073x0.25	5.00	0.00	0.0	26.1519	-23.00	1529.88	0.015
L14	94.08 - 90.5 (14)	TP33.8522x33.2076x0.25	3.58	0.00	0.0	26.6633	-23.66	1559.80	0.015
L15	90.5 - 90.25 (15)	TP33.8972x33.8522x0.4313	0.25	0.00	0.0	45.8078	-23.74	2679.75	0.009
L16	90.25 - 85.25 (16)	TP34.7975x33.8972x0.425	5.00	0.00	0.0	46.3667	-27.45	2712.45	0.010
L17	85.25 - 80.25 (17)	TP35.6977x34.7975x0.425	5.00	0.00	0.0	47.5811	-28.74	2783.50	0.010
L18	80.25 - 75 (18)	TP36.643x35.6977x0.425	5.25	0.00	0.0	47.7026	-28.88	2790.60	0.010
L19	75 - 74.75 (19)	TP36.1879x35.2878x0.4875	5.00	0.00	0.0	55.2401	-31.15	3231.55	0.010
L20	74.75 - 69.75 (20)	TP37.0881x36.1879x0.475	5.00	0.00	0.0	55.1997	-32.62	3229.18	0.010
L21	69.75 - 64.75 (21)	TP37.9882x37.0881x0.475	5.00	0.00	0.0	56.5568	-34.12	3308.57	0.010
L22	64.75 - 60.5 (22)	TP38.7534x37.9882x0.4688	4.25	0.00	0.0	56.9603	-35.41	3332.18	0.011
L23	60.5 - 60.25 (23)	TP38.7984x38.7534x0.55	0.25	0.00	0.0	66.7702	-35.51	3906.05	0.009
L24	60.25 - 55.25 (24)	TP39.6985x38.7984x0.55	5.00	0.00	0.0	68.3416	-37.20	3997.98	0.009
L25	55.25 - 50.25 (25)	TP40.5987x39.6985x0.5375	5.00	0.00	0.0	68.3454	-38.97	3998.20	0.010
L26	50.25 - 45.25 (26)	TP41.4988x40.5987x0.5375	5.00	0.00	0.0	69.8811	-40.77	4088.04	0.010
L27	45.25 - 39.75 (27)	TP42.489x41.4988x0.5375	5.50	0.00	0.0	69.9578	-40.87	4092.53	0.010
L28	39.75 - 38.75 (28)	TP42.044x40.9188x0.6	6.25	0.00	0.0	78.9259	-44.63	4617.17	0.010
L29	38.75 - 33.75 (29)	TP42.9441x42.044x0.5875	5.00	0.00	0.0	78.9835	-46.58	4620.53	0.010
L30	33.75 - 30.5 (30)	TP43.5292x42.9441x0.5875	3.25	0.00	0.0	80.0745	-47.87	4684.36	0.010
L31	30.5 - 30.25 (31)	TP43.5742x43.5292x0.6375	0.25	0.00	0.0	86.8792	-47.98	5082.44	0.009
L32	30.25 - 25.25 (32)	TP44.4743x43.5742x0.625	5.00	0.00	0.0	86.9861	-50.07	5088.69	0.010
L33	25.25 - 20.25 (33)	TP45.3745x44.4743x0.625	5.00	0.00	0.0	88.7718	-52.19	5193.15	0.010
L34	20.25 - 18.083 (34)	TP45.7646x45.3745x0.625	2.17	0.00	0.0	89.5457	-53.12	5238.42	0.010
L35	18.083 - 17.833 (35)	TP45.8096x45.7646x0.6125	0.25	0.00	0.0	87.8665	-53.25	5140.19	0.010
L36	17.833 - 12.833 (36)	TP46.7097x45.8096x0.6125	5.00	0.00	0.0	89.6165	-55.42	5242.56	0.011
L37	12.833 - 7.833 (37)	TP47.6099x46.7097x0.6	5.00	0.00	0.0	89.5256	-57.63	5237.25	0.011

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Section No.	Elevation ft	Size	L ft	L _u ft	KL/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L38	7.833 - 2.833 (38)	TP48.51x47.6099x0.6	5.00	0.00	0.0	91.2398	-59.58	5337.53	0.011
L39	2.833 - 0 (39)	TP49.02x48.51x0.6	2.83	0.00	0.0	92.2110	-60.69	5394.35	0.011

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	148 - 143 (1)	TP24.9001x24x0.25	31.06	728.42	0.043	0.00	728.42	0.000
L2	143 - 138 (2)	TP25.8003x24.9001x0.25	68.47	775.74	0.088	0.00	775.74	0.000
L3	138 - 133 (3)	TP26.7004x25.8003x0.25	123.89	823.99	0.150	0.00	823.99	0.000
L4	133 - 128 (4)	TP27.6005x26.7004x0.25	182.09	873.12	0.209	0.00	873.12	0.000
L5	128 - 123 (5)	TP28.5007x27.6005x0.25	267.85	923.08	0.290	0.00	923.08	0.000
L6	123 - 118 (6)	TP29.4008x28.5007x0.25	354.11	973.81	0.364	0.00	973.81	0.000
L7	118 - 111 (7)	TP30.661x29.4008x0.25	407.15	1004.60	0.405	0.00	1004.60	0.000
L8	111 - 110 (8)	TP30.3412x29.4409x0.25	497.85	1027.58	0.484	0.00	1027.58	0.000
L9	110 - 105 (9)	TP31.2414x30.3412x0.25	616.64	1079.73	0.571	0.00	1079.73	0.000
L10	105 - 100 (10)	TP32.1417x31.2414x0.25	741.57	1132.50	0.655	0.00	1132.50	0.000
L11	100 - 99.33 (11)	TP32.2623x32.1417x0.25	760.78	1139.62	0.668	0.00	1139.62	0.000
L12	99.33 - 99.08 (12)	TP32.3073x32.2623x0.25	767.34	1142.27	0.672	0.00	1142.27	0.000
L13	99.08 - 94.08 (13)	TP33.2076x32.3073x0.25	899.74	1195.69	0.752	0.00	1195.69	0.000
L14	94.08 - 90.5 (14)	TP33.8522x33.2076x0.25	995.94	1234.24	0.807	0.00	1234.24	0.000
L15	90.5 - 90.25 (15)	TP33.8972x33.8522x0.4313	1002.70	2330.42	0.430	0.00	2330.42	0.000
L16	90.25 - 85.25 (16)	TP34.7975x33.8972x0.425	1153.51	2424.00	0.476	0.00	2424.00	0.000
L17	85.25 - 80.25 (17)	TP35.6977x34.7975x0.425	1307.84	2553.43	0.512	0.00	2553.43	0.000
L18	80.25 - 75 (18)	TP36.643x35.6977x0.425	1323.42	2566.56	0.516	0.00	2566.56	0.000
L19	75 - 74.75 (19)	TP36.1879x35.2878x0.4875	1480.79	2995.64	0.494	0.00	2995.64	0.000
L20	74.75 - 69.75 (20)	TP37.0881x36.1879x0.475	1640.88	3072.04	0.534	0.00	3072.04	0.000
L21	69.75 - 64.75 (21)	TP37.9882x37.0881x0.475	1803.33	3225.94	0.559	0.00	3225.94	0.000
L22	64.75 - 60.5 (22)	TP38.7534x37.9882x0.4688	1943.22	3317.13	0.586	0.00	3317.13	0.000
L23	60.5 - 60.25 (23)	TP38.7984x38.7534x0.55	1951.49	3876.56	0.503	0.00	3876.56	0.000
L24	60.25 - 55.25 (24)	TP39.6985x38.7984x0.55	2118.31	4062.50	0.521	0.00	4062.50	0.000
L25	55.25 - 50.25 (25)	TP40.5987x39.6985x0.5375	2287.87	4160.03	0.550	0.00	4160.03	0.000
L26	50.25 - 45.25 (26)	TP41.4988x40.5987x0.5375	2460.19	4350.34	0.566	0.00	4350.34	0.000
L27	45.25 - 39.75 (27)	TP42.489x41.4988x0.5375	2468.87	4359.98	0.566	0.00	4359.98	0.000
L28	39.75 - 38.75 (28)	TP42.044x40.9188x0.6	2688.01	4964.68	0.541	0.00	4964.68	0.000
L29	38.75 - 33.75 (29)	TP42.9441x42.044x0.5875	2865.86	5080.74	0.564	0.00	5080.74	0.000
L30	33.75 - 30.5	TP43.5292x42.9441x0.5875	2982.47	5223.05	0.571	0.00	5223.05	0.000

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	Client	AT&T	Designed by	mrисley

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} kip-ft	ϕM_{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L31	(30) 30.5 - 30.25	TP43.5742x43.5292x0.6375	2991.48	5659.73	0.529	0.00	5659.73	0.000
L32	(31) 30.25 - 25.25	TP44.4743x43.5742x0.625	3173.33	5790.53	0.548	0.00	5790.53	0.000
L33	(32) 25.25 - 20.25	TP45.3745x44.4743x0.625	3358.47	6032.42	0.557	0.00	6032.42	0.000
L34	(33) 20.25 - 18.083	TP45.7646x45.3745x0.625	3439.54	6138.78	0.560	0.00	6138.78	0.000
L35	(34) 18.083 - 17.833	TP45.8096x45.7646x0.6125	3448.92	6033.10	0.572	0.00	6033.10	0.000
L36	(35) 17.833 - 12.833	TP46.7097x45.8096x0.6125	3637.08	6277.43	0.579	0.00	6277.43	0.000
L37	(36) 12.833 - 7.833	TP47.6099x46.7097x0.6	3826.62	6398.53	0.598	0.00	6398.53	0.000
L38	(37) 7.833 - 2.833	TP48.51x47.6099x0.6	4017.64	6647.48	0.604	0.00	6647.48	0.000
L39	(38) 2.833 - 0 (39)	TP49.02x48.51x0.6	4126.44	6790.65	0.608	0.00	6790.65	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	148 - 143 (1)	TP24.9001x24x0.25	5.19	343.28	0.015	0.61	741.04	0.001
L2	143 - 138 (2)	TP25.8003x24.9001x0.25	10.80	355.81	0.030	0.19	796.15	0.000
L3	138 - 133 (3)	TP26.7004x25.8003x0.25	11.35	368.35	0.031	0.18	853.23	0.000
L4	133 - 128 (4)	TP27.6005x26.7004x0.25	11.91	380.88	0.031	0.18	912.30	0.000
L5	128 - 123 (5)	TP28.5007x27.6005x0.25	16.97	393.42	0.043	0.17	973.33	0.000
L6	123 - 118 (6)	TP29.4008x28.5007x0.25	17.51	405.95	0.043	0.17	1036.35	0.000
L7	118 - 111 (7)	TP30.661x29.4008x0.25	17.83	413.47	0.043	0.16	1075.10	0.000
L8	111 - 110 (8)	TP30.3412x29.4409x0.25	18.42	419.05	0.044	0.16	1104.28	0.000
L9	110 - 105 (9)	TP31.2414x30.3412x0.25	24.00	431.58	0.056	0.61	1171.35	0.001
L10	105 - 100 (10)	TP32.1417x31.2414x0.25	25.14	444.12	0.057	0.18	1240.39	0.000
L11	100 - 99.33 (11)	TP32.2623x32.1417x0.25	26.22	445.80	0.059	0.43	1249.79	0.000
L12	99.33 - 99.08 (12)	TP32.3073x32.2623x0.25	26.24	446.43	0.059	0.43	1253.31	0.000
L13	99.08 - 94.08 (13)	TP33.2076x32.3073x0.25	26.71	458.96	0.058	0.44	1324.69	0.000
L14	94.08 - 90.5 (14)	TP33.8522x33.2076x0.25	27.03	467.94	0.058	0.44	1377.02	0.000
L15	90.5 - 90.25 (15)	TP33.8972x33.8522x0.4313	27.05	803.93	0.034	0.44	2356.13	0.000
L16	90.25 - 85.25 (16)	TP34.7975x33.8972x0.425	30.66	813.74	0.038	0.81	2449.48	0.000
L17	85.25 - 80.25 (17)	TP35.6977x34.7975x0.425	31.16	835.05	0.037	0.81	2579.47	0.000
L18	80.25 - 75 (18)	TP36.643x35.6977x0.425	31.20	837.18	0.037	0.81	2592.66	0.000
L19	75 - 74.75 (19)	TP36.1879x35.2878x0.4875	31.81	969.46	0.033	0.82	3030.99	0.000
L20	74.75 - 69.75 (20)	TP37.0881x36.1879x0.475	32.30	968.75	0.033	0.82	3106.20	0.000
L21	69.75 - 64.75 (21)	TP37.9882x37.0881x0.475	32.77	992.57	0.033	0.83	3260.82	0.000
L22	64.75 - 60.5 (22)	TP38.7534x37.9882x0.4688	33.15	999.65	0.033	0.84	3351.61	0.000

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Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio V_u ϕV_n	Actual T_u kip-ft	ϕT_n kip-ft	Ratio T_u ϕT_n
L23	60.5 - 60.25 (23)	TP38.7984x38.7534x0.55	33.16	1171.82	0.028	0.84	3925.12	0.000
L24	60.25 - 55.25 (24)	TP39.6985x38.7984x0.55	33.64	1199.39	0.028	0.84	4112.04	0.000
L25	55.25 - 50.25 (25)	TP40.5987x39.6985x0.5375	34.20	1199.46	0.029	0.95	4208.13	0.000
L26	50.25 - 45.25 (26)	TP41.4988x40.5987x0.5375	34.75	1226.41	0.028	1.06	4399.38	0.000
L27	45.25 - 39.75 (27)	TP42.489x41.4988x0.5375	34.76	1227.76	0.028	1.07	4409.04	0.000
L28	39.75 - 38.75 (28)	TP42.044x40.9188x0.6	35.42	1385.15	0.026	1.07	5027.34	0.000
L29	38.75 - 33.75 (29)	TP42.9441x42.044x0.5875	35.81	1386.16	0.026	1.08	5141.79	0.000
L30	33.75 - 30.5 (30)	TP43.5292x42.9441x0.5875	36.05	1405.31	0.026	1.08	5284.82	0.000
L31	30.5 - 30.25 (31)	TP43.5742x43.5292x0.6375	36.07	1524.73	0.024	1.08	5733.27	0.000
L32	30.25 - 25.25 (32)	TP44.4743x43.5742x0.625	36.76	1526.61	0.024	1.09	5862.33	0.000
L33	25.25 - 20.25 (33)	TP45.3745x44.4743x0.625	37.40	1557.94	0.024	1.10	6105.48	0.000
L34	20.25 - 18.083 (34)	TP45.7646x45.3745x0.625	37.53	1571.53	0.024	1.10	6212.40	0.000
L35	18.083 - 17.833 (35)	TP45.8096x45.7646x0.6125	37.53	1542.06	0.024	1.10	6103.67	0.000
L36	17.833 - 12.833 (36)	TP46.7097x45.8096x0.6125	37.83	1572.77	0.024	1.10	6349.21	0.000
L37	12.833 - 7.833 (37)	TP47.6099x46.7097x0.6	38.10	1571.17	0.024	1.11	6468.34	0.000
L38	7.833 - 2.833 (38)	TP48.51x47.6099x0.6	38.35	1601.26	0.024	1.11	6718.43	0.000
L39	2.833 - 0 (39)	TP49.02x48.51x0.6	38.51	1618.30	0.024	1.11	6862.23	0.000

Site BU: _____
Work Order: _____



Pole Geometry

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	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	148	37	4	18	24	30.661	0.25	Auto	A607-65
2	115	40	4.75	18	29.44	36.643	0.25	Auto	A607-65
3	79.75	40	5.25	18	35.29	42.489	0.3125	Auto	A607-65
4	45	45	0	18	40.92	49.02	0.375	Auto	A607-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0	18.083	channel	MP3-05 (1.1875in)	2					x		x											
2	18.083	30.5	channel	MP3-08 (1.1875in)	1						x												
3	0	30.5	channel	MP3-08 (1.1875in)	2												x						x
4	30.5	60.5	channel	MP3-06 (1.1875in)	3						x						x						x
5	60.5	90.5	channel	MP3-05 (1.1875in)	3						x						x						x
6	90.5	99.33	channel	MP3-03 (1.1875in)	3						x						x						x
7																							
8																							
9																							
10																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in ²)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in ²)	Bolt Hole Size (in)	Reinforcement Material
1	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
2	7.93	2.8	10.32	0.95	PC 8.8 - M20 (100)	47	PC 8.8 - M20 (100)	44.000	24.000	9.370	1.1875	A572-65
3	7.93	2.8	10.32	0.95	PC 8.8 - M20 (100)	47	PC 8.8 - M20 (100)	44.000	24.000	9.370	1.1875	A572-65
4	6.89	2.61	8.47	0.93	PC 8.8 - M20 (100)	41	PC 8.8 - M20 (100)	41.000	24.000	7.670	1.1875	A572-65
5	5.33	2.09	5.65	0.79	PC 8.8 - M20 (100)	29	PC 8.8 - M20 (100)	29.000	18.000	5.025	1.1875	A572-65
6	4.06	1.57	2.92	0.59	PC 8.8 - M20 (100)	14	PC 8.8 - M20 (100)	14.000	18.000	2.545	1.1875	A572-65

TNX Geometry Input

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

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	148 - 143	5		18	24.000	24.900	0.25	A607-65	1.000
2	143 - 138	5		18	24.900	25.800	0.25	A607-65	1.000
3	138 - 133	5		18	25.800	26.700	0.25	A607-65	1.000
4	133 - 128	5		18	26.700	27.601	0.25	A607-65	1.000
5	128 - 123	5		18	27.601	28.501	0.25	A607-65	1.000
6	123 - 118	5		18	28.501	29.401	0.25	A607-65	1.000
7	118 - 115	7	4	18	29.401	30.661	0.25	A607-65	1.000
8	115 - 110	5		18	29.441	30.341	0.25	A607-65	1.000
9	110 - 105	5		18	30.341	31.241	0.25	A607-65	1.000
10	105 - 100	5		18	31.241	32.142	0.25	A607-65	1.000
11	100 - 99.33	0.67		18	32.142	32.262	0.25	A607-65	1.000
12	99.33 - 99.08	0.25		18	32.262	32.307	0.25	A607-65	1.000
13	99.08 - 94.08	5		18	32.307	33.208	0.25	A607-65	1.000
14	94.08 - 90.5	3.58		18	33.208	33.852	0.25	A607-65	1.000
15	90.5 - 90.25	0.25		18	33.852	33.897	0.43125	A607-65	0.953
16	90.25 - 85.25	5		18	33.897	34.797	0.425	A607-65	0.957
17	85.25 - 80.25	5		18	34.797	35.698	0.425	A607-65	0.947
18	80.25 - 79.75	5.25	4.75	18	35.698	36.643	0.425	A607-65	0.946
19	79.75 - 74.75	5		18	35.288	36.188	0.4875	A607-65	0.951
20	74.75 - 69.75	5		18	36.188	37.088	0.475	A607-65	0.968
21	69.75 - 64.75	5		18	37.088	37.988	0.475	A607-65	0.960
22	64.75 - 60.5	4.25		18	37.988	38.753	0.46875	A607-65	0.967
23	60.5 - 60.25	0.25		18	38.753	38.798	0.55	A607-65	0.952
24	60.25 - 55.25	5		18	38.798	39.699	0.55	A607-65	0.943
25	55.25 - 50.25	5		18	39.699	40.599	0.5375	A607-65	0.956
26	50.25 - 45.25	5		18	40.599	41.499	0.5375	A607-65	0.948
27	45.25 - 45	5.5	5.25	18	41.499	42.489	0.5375	A607-65	0.948
28	45 - 38.75	6.25		18	40.919	42.044	0.6	A607-65	0.950
29	38.75 - 33.75	5		18	42.044	42.944	0.5875	A607-65	0.963
30	33.75 - 30.5	3.25		18	42.944	43.529	0.5875	A607-65	0.959
31	30.5 - 30.25	0.25		18	43.529	43.574	0.6375	A607-65	0.948
32	30.25 - 25.25	5		18	43.574	44.474	0.625	A607-65	0.959
33	25.25 - 20.25	5		18	44.474	45.374	0.625	A607-65	0.952
34	20.25 - 18.083	2.167		18	45.374	45.765	0.625	A607-65	0.949
35	18.083 - 17.833	0.25		18	45.765	45.810	0.6125	A607-65	0.979
36	17.833 - 12.833	5		18	45.810	46.710	0.6125	A607-65	0.972
37	12.833 - 7.833	5		18	46.710	47.610	0.6	A607-65	0.985
38	7.833 - 2.833	5		18	47.610	48.510	0.6	A607-65	0.978
39	2.833 - 0	2.833		18	48.510	49.020	0.6	A607-65	0.974

TNX Section Forces

Increment (ft): 5		TNX Output		
	Section Height (ft)	P _u (K)	M _{ux} (kip-ft)	V _u (K)
1	148 - 143	3.71	31.06	5.19
2	143 - 138	8.30	68.47	10.80
3	138 - 133	8.85	123.89	11.35
4	133 - 128	9.41	182.09	11.91
5	128 - 123	13.73	267.85	16.97
6	123 - 118	14.38	354.11	17.51
7	118 - 115	14.78	407.15	17.83
8	115 - 110	15.82	497.85	18.42
9	110 - 105	20.58	616.64	24.00
10	105 - 100	22.05	743.23	26.11
11	100 - 99.33	22.06	760.78	26.22
12	99.33 - 99.08	22.11	767.34	26.24
13	99.08 - 94.08	23.00	899.74	26.71
14	94.08 - 90.5	23.66	995.94	27.03
15	90.5 - 90.25	23.74	1002.70	27.05
16	90.25 - 85.25	27.45	1153.50	30.66
17	85.25 - 80.25	28.74	1307.84	31.16
18	80.25 - 79.75	28.88	1323.42	31.20
19	79.75 - 74.75	31.15	1480.79	31.81
20	74.75 - 69.75	32.62	1640.88	32.30
21	69.75 - 64.75	34.12	1803.33	32.77
22	64.75 - 60.5	35.41	1943.22	33.15
23	60.5 - 60.25	35.51	1951.50	33.16
24	60.25 - 55.25	37.20	2118.31	33.64
25	55.25 - 50.25	38.97	2287.87	34.20
26	50.25 - 45.25	40.77	2460.19	34.75
27	45.25 - 45	40.87	2468.87	34.76
28	45 - 38.75	44.63	2688.01	35.42
29	38.75 - 33.75	46.58	2865.86	35.81
30	33.75 - 30.5	47.87	2982.48	36.05
31	30.5 - 30.25	47.98	2991.48	36.07
32	30.25 - 25.25	50.07	3173.34	36.76
33	25.25 - 20.25	52.19	3358.47	37.40
34	20.25 - 18.083	53.12	3439.54	37.53
35	18.083 - 17.833	53.25	3448.91	37.53
36	17.833 - 12.833	55.42	3637.08	37.83
37	12.833 - 7.833	57.63	3826.63	38.10
38	7.833 - 2.833	59.58	4017.65	38.35
39	2.833 - 0	60.69	4126.44	38.51

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
148 - 143	Pole	TP24.9x24x0.25	Pole	4.6%	Pass
143 - 138	Pole	TP25.8x24.9x0.25	Pole	9.6%	Pass
138 - 133	Pole	TP26.7x25.8x0.25	Pole	15.9%	Pass
133 - 128	Pole	TP27.601x26.7x0.25	Pole	21.7%	Pass
128 - 123	Pole	TP28.501x27.601x0.25	Pole	30.3%	Pass
123 - 118	Pole	TP29.401x28.501x0.25	Pole	37.6%	Pass
118 - 115	Pole	TP30.661x29.401x0.25	Pole	41.8%	Pass
115 - 110	Pole	TP30.341x29.441x0.25	Pole	49.8%	Pass
110 - 105	Pole	TP31.241x30.341x0.25	Pole	58.9%	Pass
105 - 100	Pole	TP32.142x31.241x0.25	Pole	67.5%	Pass
100 - 99.33	Pole	TP32.262x32.142x0.25	Pole	68.6%	Pass
99.33 - 99.08	Pole	TP32.307x32.262x0.25	Pole	69.0%	Pass
99.08 - 94.08	Pole	TP33.208x32.307x0.25	Pole	77.1%	Pass
94.08 - 90.5	Pole	TP33.852x33.208x0.25	Pole	82.6%	Pass
90.5 - 90.25	Pole + Reinf.	TP33.897x33.852x0.4313	Reinf. 5 Tension Rupture	64.5%	Pass
90.25 - 85.25	Pole + Reinf.	TP34.797x33.897x0.425	Reinf. 5 Tension Rupture	71.2%	Pass
85.25 - 80.25	Pole + Reinf.	TP35.698x34.797x0.425	Reinf. 5 Tension Rupture	77.3%	Pass
80.25 - 79.75	Pole + Reinf.	TP36.643x35.698x0.425	Reinf. 5 Tension Rupture	77.9%	Pass
79.75 - 74.75	Pole + Reinf.	TP36.188x35.288x0.4875	Reinf. 5 Tension Rupture	74.6%	Pass
74.75 - 69.75	Pole + Reinf.	TP37.088x36.188x0.475	Reinf. 5 Tension Rupture	79.3%	Pass
69.75 - 64.75	Pole + Reinf.	TP37.988x37.088x0.475	Reinf. 5 Tension Rupture	83.6%	Pass
64.75 - 60.5	Pole + Reinf.	TP38.753x37.988x0.4688	Reinf. 5 Tension Rupture	87.1%	Pass
60.5 - 60.25	Pole + Reinf.	TP38.798x38.753x0.55	Reinf. 4 Tension Rupture	73.3%	Pass
60.25 - 55.25	Pole + Reinf.	TP39.699x38.798x0.55	Reinf. 4 Tension Rupture	76.7%	Pass
55.25 - 50.25	Pole + Reinf.	TP40.599x39.699x0.5375	Reinf. 4 Tension Rupture	79.9%	Pass
50.25 - 45.25	Pole + Reinf.	TP41.499x40.599x0.5375	Reinf. 4 Tension Rupture	83.0%	Pass
45.25 - 45	Pole + Reinf.	TP42.489x41.499x0.5375	Reinf. 4 Tension Rupture	83.1%	Pass
45 - 38.75	Pole + Reinf.	TP42.044x40.919x0.6	Reinf. 4 Tension Rupture	79.5%	Pass
38.75 - 33.75	Pole + Reinf.	TP42.944x42.044x0.5875	Reinf. 4 Tension Rupture	81.8%	Pass
33.75 - 30.5	Pole + Reinf.	TP43.529x42.944x0.5875	Reinf. 4 Tension Rupture	83.3%	Pass
30.5 - 30.25	Pole + Reinf.	TP43.574x43.529x0.6375	Reinf. 3 Bolt Shear	81.1%	Pass
30.25 - 25.25	Pole + Reinf.	TP44.474x43.574x0.625	Reinf. 3 Tension Rupture	79.0%	Pass
25.25 - 20.25	Pole + Reinf.	TP45.374x44.474x0.625	Reinf. 3 Tension Rupture	80.9%	Pass
20.25 - 18.08	Pole + Reinf.	TP45.765x45.374x0.625	Reinf. 3 Tension Rupture	81.7%	Pass
18.08 - 17.83	Pole + Reinf.	TP45.81x45.765x0.6125	Reinf. 1 Tension Rupture	84.0%	Pass
17.83 - 12.83	Pole + Reinf.	TP46.71x45.81x0.6125	Reinf. 1 Tension Rupture	85.8%	Pass
12.83 - 7.83	Pole + Reinf.	TP47.61x46.71x0.6	Reinf. 1 Tension Rupture	87.5%	Pass
7.83 - 2.83	Pole + Reinf.	TP48.51x47.61x0.6	Reinf. 1 Tension Rupture	89.0%	Pass
2.83 - 0	Pole + Reinf.	TP49.02x48.51x0.6	Reinf. 1 Tension Rupture	89.9%	Pass
				Summary	
			Pole	82.6%	Pass
			Reinforcement	89.9%	Pass
			Overall	89.9%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in ⁴)			Area (in ²)			% Capacity						
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6
148 - 143	1501	n/a	1501	19.56	n/a	19.56	4.6%						
143 - 138	1672	n/a	1672	20.27	n/a	20.27	9.6%						
138 - 133	1855	n/a	1855	20.99	n/a	20.99	15.9%						
133 - 128	2050	n/a	2050	21.70	n/a	21.70	21.7%						
128 - 123	2260	n/a	2260	22.42	n/a	22.42	30.3%						
123 - 118	2482	n/a	2482	23.13	n/a	23.13	37.6%						
118 - 115	2623	n/a	2623	23.56	n/a	23.56	41.8%						
115 - 110	2731	n/a	2731	23.88	n/a	23.88	49.8%						
110 - 105	2983	n/a	2983	24.59	n/a	24.59	58.9%						
105 - 100	3251	n/a	3251	25.31	n/a	25.31	67.5%						
100 - 99.33	3288	n/a	3288	25.40	n/a	25.40	68.6%						
99.33 - 99.08	3301	n/a	3301	25.44	n/a	25.44	69.0%						
99.08 - 94.08	3588	n/a	3588	26.15	n/a	26.15	77.1%						
94.08 - 90.5	3802	n/a	3802	26.66	n/a	26.66	82.6%						
90.5 - 90.25	3817	2678	6495	26.70	16.95	43.65	48.0%					64.5%	
90.25 - 85.25	4132	2815	6947	27.41	16.95	44.36	53.5%					71.2%	
85.25 - 80.25	4464	2955	7419	28.13	16.95	45.08	58.8%					77.3%	
80.25 - 79.75	4498	2969	7467	28.20	16.95	45.15	59.4%					77.9%	
79.75 - 74.75	5784	3033	8817	35.58	16.95	52.53	52.8%					74.6%	
74.75 - 69.75	6230	3179	9409	36.48	16.95	53.43	56.6%					79.3%	
69.75 - 64.75	6699	3328	10027	37.37	16.95	54.32	60.2%					83.6%	
64.75 - 60.5	7116	3458	10573	38.13	16.95	55.08	63.1%					87.1%	
60.5 - 60.25	7141	5276	12417	38.17	25.41	63.58	54.0%				73.3%		
60.25 - 55.25	7654	5511	13165	39.06	25.41	64.47	57.0%				76.7%		
55.25 - 50.25	8190	5752	13942	39.96	25.41	65.37	59.9%				79.9%		
50.25 - 45.25	8752	5997	14749	40.85	25.41	66.26	62.8%				83.0%		
45.25 - 45	8781	6009	14790	40.89	25.41	66.30	62.9%				83.1%		
45 - 38.75	10876	6148	17024	49.59	25.41	75.00	57.0%				79.5%		
38.75 - 33.75	11596	6402	17998	50.67	25.41	76.08	59.1%				81.8%		
33.75 - 30.5	12081	6569	18650	51.36	25.41	76.77	60.4%				83.3%		
30.5 - 30.25	12118	8046	20164	51.42	30.96	82.38	56.1%		81.1%	81.1%			
30.25 - 25.25	12892	8365	21257	52.49	30.96	83.45	57.9%		79.0%	79.0%			
25.25 - 20.25	13698	8692	22389	53.56	30.96	84.52	59.8%		80.9%	80.9%			
20.25 - 18.08	14057	8835	22892	54.02	30.96	84.98	60.6%		81.7%	81.7%			
18.08 - 17.83	14099	8698	22797	54.08	31.94	86.02	61.2%	84.0%		80.3%			
17.83 - 12.83	14954	9029	23982	55.15	31.94	87.09	63.0%	85.8%		82.0%			
12.83 - 7.83	15842	9366	25208	56.22	31.94	88.16	64.7%	87.5%		83.6%			
7.83 - 2.83	16765	9710	26475	57.29	31.94	89.23	66.3%	89.0%		85.2%			
2.83 - 0	17304	9907	27211	57.90	31.94	89.84	67.2%	89.9%		86.0%			

Note: Section capacity checked using 5 degree increments.

APPENDIX C

Additional Calculations

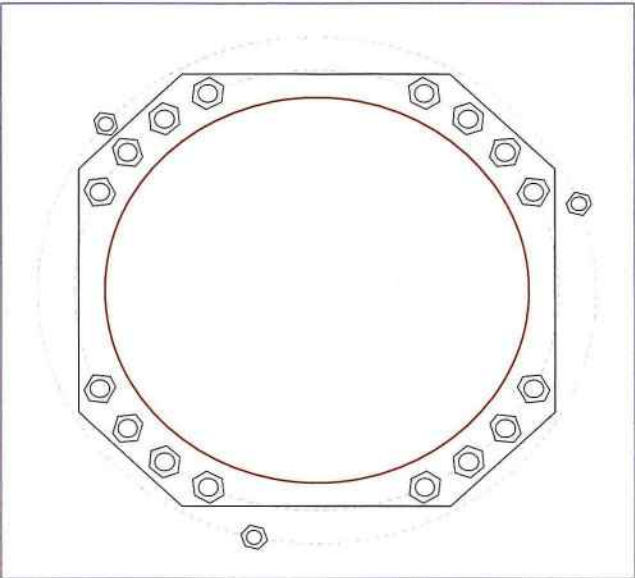
Monopole Base Plate Connection



Site Info	
BU #	
Site Name	
Order #	

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

Applied Loads	
Moment (kip-ft)	4126.44
Axial Force (kips)	60.71
Shear Force (kips)	38.47



Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary (units of kips, kip-in)	
GROUP 1: (16) 2-1/4" ϕ bolts (A615-75 N; F _y =75 ksi, F _u =100 ksi) on 56" BC <i>Anchor Spacing: 6 in</i>		GROUP 1:	
GROUP 2: (3) 1-3/4" ϕ bolts (A772 N; F _y =120 ksi, F _u =125 ksi) on 64.5" BC <i>pos. (deg): 20, 139, 257</i>		P _{u,t} = 190.48	ϕ P _{n,t} = 243.75 Stress Rating
		V _u = 2.4	ϕ V _n = 149.1 78.1%
		M _u = n/a	ϕ M _n = n/a Pass
Base Plate Data		GROUP 2:	
55" W x 3" Plate (A572-55; F _y =55 ksi, F _u =70 ksi); Clip: 12 in		P _{u,t} = 128.15	ϕ P _{n,t} = 178.13 Stress Rating
		V _u = 0	ϕ V _n = 112.75 71.9%
		M _u = n/a	ϕ M _n = n/a Pass
Stiffener Data		Base Plate Summary	
N/A		Max Stress (ksi):	32.07 (Flexural)
Pole Data		Allowable Stress (ksi):	49.5
49.02" x 0.375" 18-sided pole (A607-65; F _y =65 ksi, F _u =80 ksi)		Stress Rating:	64.8% Pass



Mat Foundation Analysis
USID #: 14635 / FA #: 10035088
GPD Project #: 2024723.01.14635.06

General Info	
Foundation Criteria	GPD
TIA Code	TIA-222-H
Apply TIA-222-H Section 15.5?	No
Soil Code	AASHTO 2012
Concrete Code	ACI 318-14
Seismic Design Category	B
Tower Height	148 ft
Bearing On	Rock
Foundation Type	Monopole Pad
Pier Type	Round
Reinforcing Known	Yes
Max Bearing Capacity	105%
Max Overturning Capacity	105%

Tower Reactions	
Moment, M	4126.44 k-ft
Axial, P	60.71 k
Shear, V	38.47 k

Pad & Pier Geometry	
Pier Diameter, ϕ	7 ft
Pad Length, L [y]	22 ft
Pad Width, W [x]	22 ft
Pad Thickness, t	3 ft
Depth, D	8 ft
Height Above Grade, HG	0.5 ft
Tower Centroid, X	11 ft
Tower Centroid, Y	11 ft
Tower Eccentricity	0.0000 ft

Pad & Pier Reinforcing	
Rebar Fy	60 ksi
Concrete Fc	3 ksi
Pier Reinforcing Clear Cover	3 in
Shear Rebar Type	Tie
Shear Rebar Size	# 5
Pad Reinforcing Clear Cover	3 in
Reinforced Top & Bottom?	Yes
Top and Bot. Reinf. Different?	No
Pad Reinforcing Size	# 11
Pad Quantity Per Layer	22
Pier Rebar Size	# 11
Pier Quantity of Rebar	28

Soil Properties	
Soil Type	Granular
Soil Unit Weight	125 pcf
Angle of Friction, ϕ	34
Base Friction Coeff. Provided in Geo?	No
Bearing Type	Gross
Ultimate Bearing	12 ksf
Water Table Depth	7 ft
Neglected Depth	3.5 ft

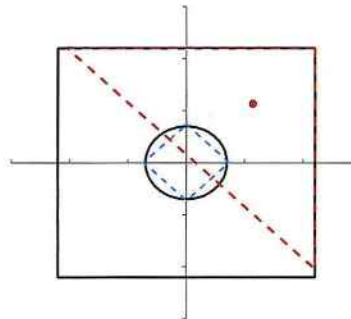
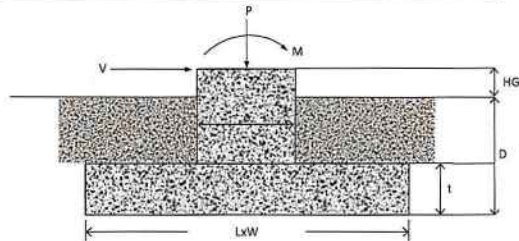
GPD Mat Foundation Analysis - V4.6

Bearing Summary					
Case	Demand/Limits	Capacity/Availability	Check	Eccentricity	Load Case
Q _{xmax}	5.19 ksf	9.00 ksf	OK, $\leq 105\%$	L/2.7	0.9D+1.0W
Q _{ymax}	5.19 ksf	9.00 ksf	OK, $\leq 105\%$	W/2.7	0.9D+1.0W
Q _{max @ 45°}	6.57 ksf	9.00 ksf	OK, $\leq 105\%$	W/3.9	0.9D+1.0W
Controlling Capacity		73.0%	Pass		

Overturning Summary					
Case	Demand/Limits	Capacity/Availability	Check	Load Case	
O _{vtx}	4007.4 k-ft	5429.0 k-ft	73.8% OK	0.9D+1.0W	
O _{vty}	4007.4 k-ft	5429.0 k-ft	73.8% OK	0.9D+1.0W	
O _{vtxy}	2809.7 k-ft	5429.0 k-ft	51.8% OK	0.9D+1.0W	
Controlling Capacity		73.8%	Pass		

Sliding Summary					
Case	Demand/Limits	Capacity/Availability	Check	Load Case	
Sliding _x	38.5 k	309.8 k	12.4% OK	0.9D+1.0W	
Sliding _y	38.5 k	309.8 k	12.4% OK	0.9D+1.0W	
Controlling Capacity		12.4%	Pass		

Reinforcement Summary					
Component	Demand/Limits	Capacity/Availability	Check	Load Case	
Pad Flexural Bending	1719.4 k-ft	4533.7 k-ft	37.9% OK	0.9D+1.0W	
One-Way Shear in Pad	303.6 k	669.9 k	45.3% OK	0.9D+1.0W	
Two-Way Shear in Pad	704.4 k	2138.1 k	32.9% OK	0.9D+1.0W	
Compression on Pier	98.8 k	18371.0 k	0.5% OK	1.2D+1.0W	
Moment on Pier	4327.6 k-ft	6754.6 k-ft	64.1% OK	1.2D+1.0W	
Pad Flexural 2-Way	2602.8 k-ft	6482.5 k-ft	40.2% OK	1.2D+1.0W	
As Min Pad Met?	3.12 sq. in.	0.30 sq. in.	Yes		
As Min Pier Met?	43.68 sq. in.	18.45 sq. in.	Yes		
Controlling Capacity		64.1%	Pass		





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Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10213287
Colliers Engineering & Design Project #: 22777023A (Rev. 1)

November 15, 2023

Site Information

Site ID: 5000248054-VZW / MIDDLETOWN W CT
Site Name: MIDDLETOWN W CT
Carrier Name: Verizon Wireless
Address: 290 Preston Ave
Middletown, Connecticut 06457
Middlesex County
Latitude: 41.557361°
Longitude: -72.743250°

Structure Information

Tower Type: 150-Ft Monopole
Mount Type: 13.67-Ft Platform

FUZE ID # 16092575

Analysis Results

Platform: 99.3% Pass w/ Modifications*

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

***Contractor PMI Requirements:

Included at the end of this MA report

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

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Conner Hoge



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 324358, dated October 12, 2023
Mount Mapping Report	Onsight Services, Site #: 467287, dated April 9, 2022
Previous Mount Analysis	Maser Consulting Project #: 22777023A, Rev. 1, dated October 26, 2023
Mount Modification Drawings	Maser Consulting Project #: 22777023A, Rev. 1, dated November 15, 2023

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.987
Seismic Parameters:	S_s : 0.209 g S_1 : 0.056 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V20)

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
109.00	110.00	3	Andrew	HBX-6516DS-VTM	Retained
		6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6413-77A	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff	35.9 %	Pass
Grating Angle	10.1 %	Pass
Cross Members	46.1 %	Pass
Face Horizontal	99.3 %	Pass
Mount Pipe	49.3 %	Pass
Proposed Mount Pipe	28.6 %	Pass
Support Rail	37.5 %	Pass
Support Rail Angles	30.9 %	Pass
Mount Connection	15.8 %	Pass

Structure Rating – (Controlling Utilization of all Components)	99.3%
---	--------------

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	26.9	26.9	41.3	41.3
0.5	33.4	33.4	53.6	53.6
1	39.6	39.6	65.5	65.5

Notes:

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

Requirements:

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

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to pmisupport@colliersengineering.com

PSLC #: 5000248054

SMART Project #: 10213287

Fuze Project ID: 16092575

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

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

Base Requirements:

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

Photo Requirements:

- Photos taken at ground level
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation of the modifications.
 - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.

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

Material Certification:

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

OR

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

Antenna & Equipment Placement and Geometry Confirmation:

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

OR

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

Comments:

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

- ☐ Yes ☐ No

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

Issue:

N/A

Response:

Special Instruction Confirmation:

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

Comments:

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

- ☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

- ☐ Yes ☐ No

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

- ☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Comments:

--

Certifying Individual:

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

Sector: **A**

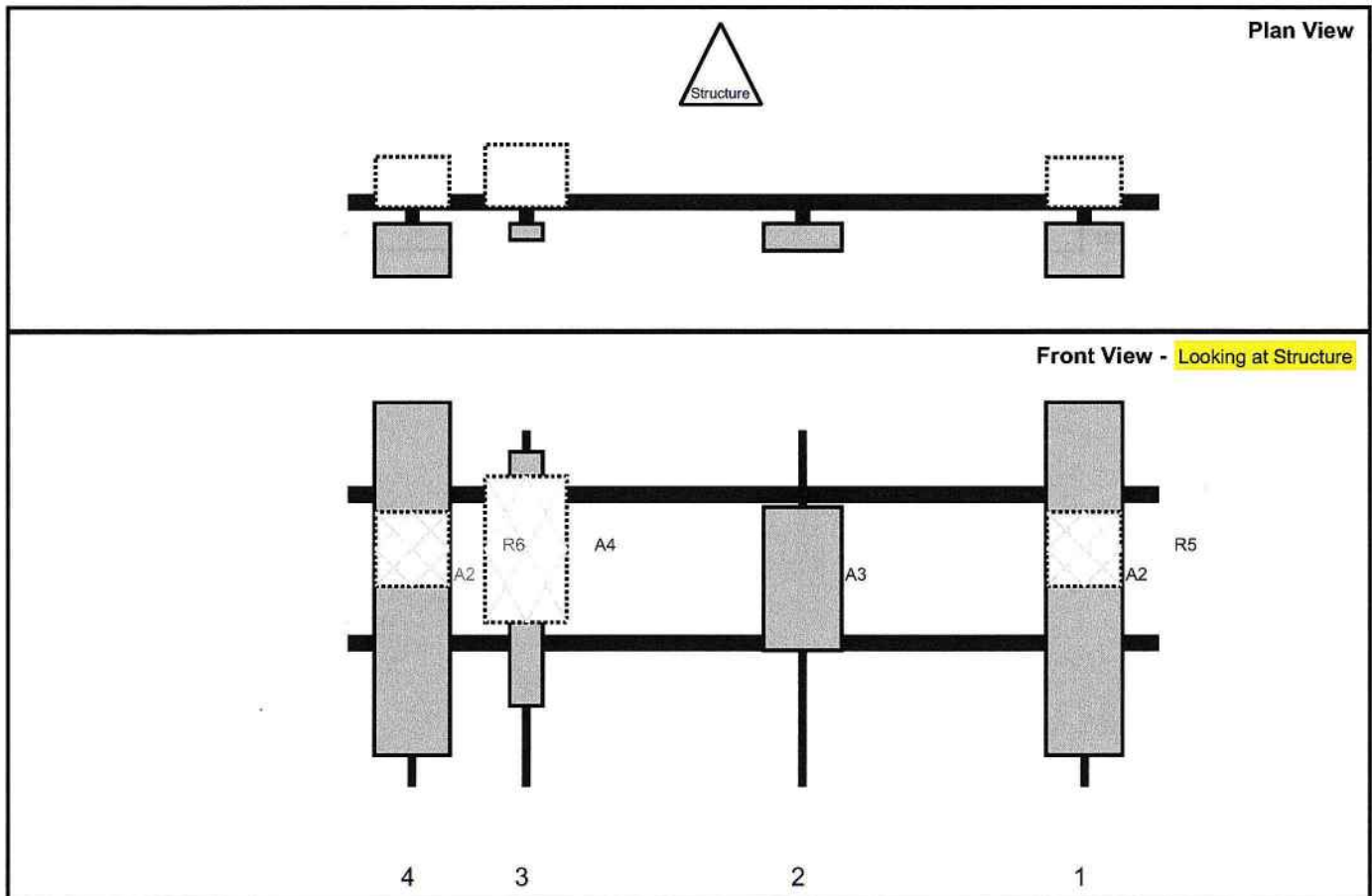
11/13/2023

Structure Type: Monopole

10213287

Mount Elev: 109.00

Page: 1



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MX06FRO660-03	71.3	15.4	149	1	a	Front	30	0	Added	
R5	RF4439d-25A	15	15	149	1	a	Behind	24	0	Added	
A3	MT6413-77A	28.9	15.8	92	2	a	Front	30	0	Added	
A1	HBX-6516DS-VTM	51.4	6.6	36	3	a	Front	30	0	Retained	04/09/2022
A4	RVZDC-6627-PF-48	29.5	16.5	36	3	a	Behind	24	0	Added	
A2	MX06FRO660-03	71.3	15.4	13	4	a	Front	30	0	Added	
R6	RF4461d-13A	15	15	13	4	a	Behind	24	0	Added	

Sector: **B**

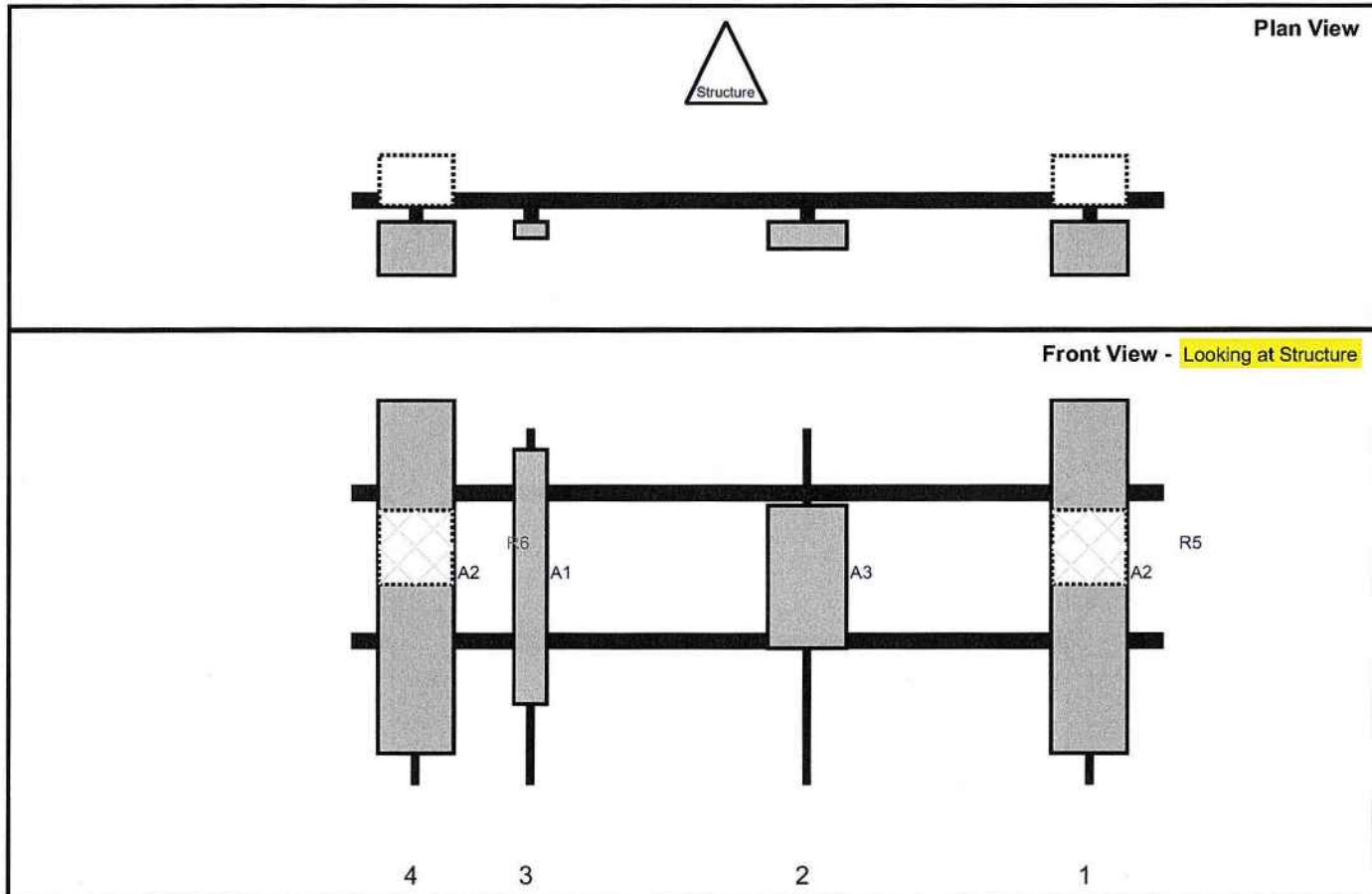
11/13/2023

Structure Type: Monopole

10213287

Mount Elev: 109.00

Page: 2



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MX06FRO660-03	71.3	15.4	149	1	a	Front	30	0	Added	
R5	RF4439d-25A	15	15	149	1	a	Behind	24	0	Added	
A3	MT6413-77A	28.9	15.8	92	2	a	Front	30	0	Added	
A1	HBX-6516DS-VTM	51.4	6.6	36	3	a	Front	30	0	Retained	04/09/2022
A2	MX06FRO660-03	71.3	15.4	13	4	a	Front	30	0	Added	
R6	RF4461d-13A	15	15	13	4	a	Behind	24	0	Added	

Sector: C

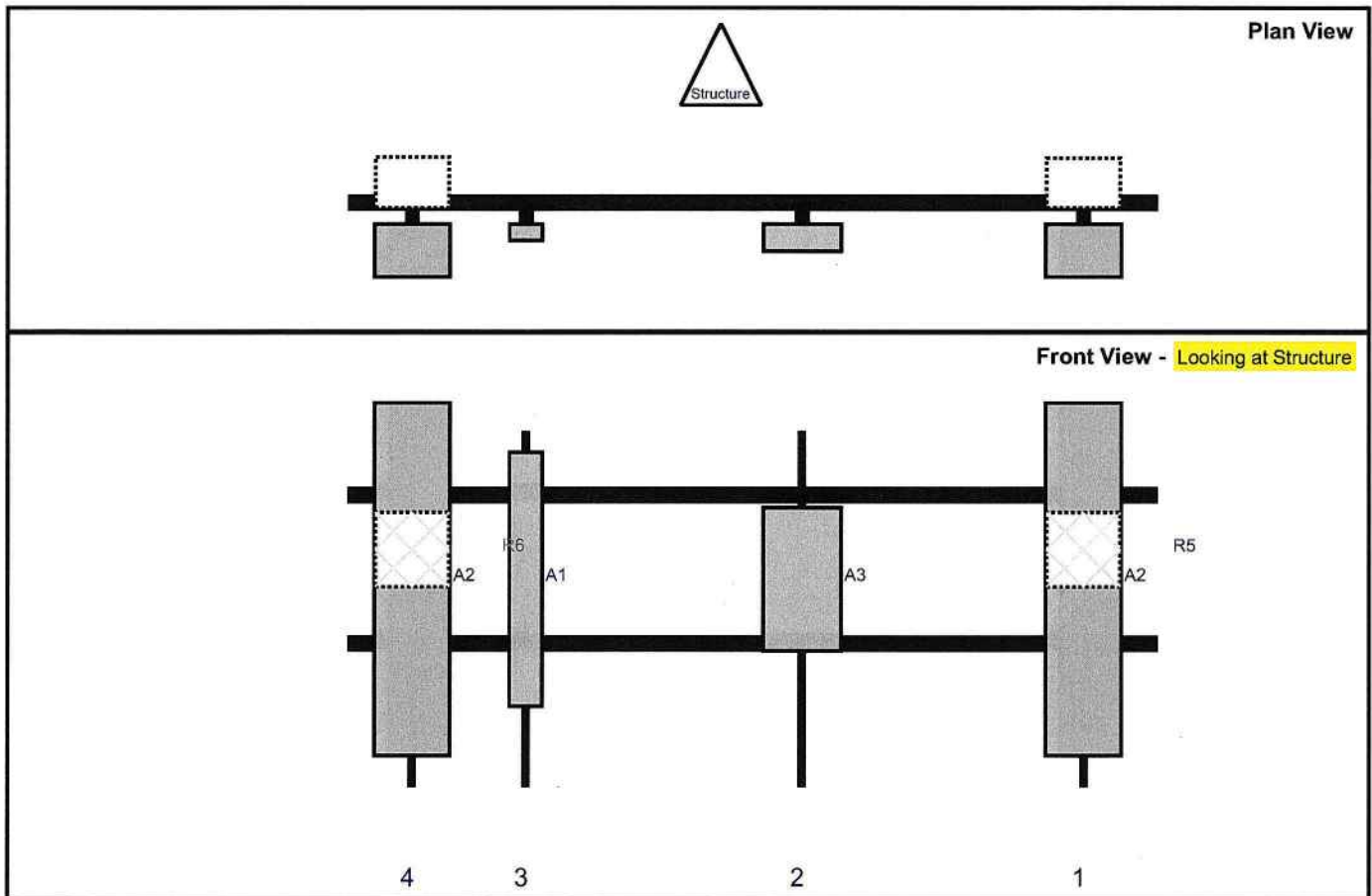
11/13/2023

Structure Type: Monopole

10213287

Mount Elev: 109.00

Page: 3



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	MX06FRO660-03	71.3	15.4	149	1	a	Front	30	0	Added	
R5	RF4439d-25A	15	15	149	1	a	Behind	24	0	Added	
A3	MT6413-77A	28.9	15.8	92	2	a	Front	30	0	Added	
A1	HBX-6516DS-VTM	51.4	6.6	36	3	a	Front	30	0	Retained	04/09/2022
A2	MX06FRO660-03	71.3	15.4	13	4	a	Front	30	0	Added	
R6	RF4461d-13A	15	15	13	4	a	Behind	24	0	Added	



MOUNT MODIFICATION DRAWINGS
EXISTING 13.67' PLATFORM

TOWER OWNER: AT&T TOWERS
TOWER OWNER SITE NUMBER: 14635

CARRIER SITE NAME: MIDDLETOWN W CT
MDG: 5000248054
FUZE ID: 16092575

290 PRESTON AVE
MIDDLETOWN, CT 06457
MIDDLESEX COUNTY

LATITUDE: 41.557361° N
LONGITUDE: 72.74325° W



www.collinsengineering.com
1000 N. 10th Street, Suite 100, Middlesex, CT 06457
TEL: 860.381.1234 FAX: 860.381.1235
E: info@collinsengineering.com



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www.811.org

PROJECT: 2021/12/24

NO.	DESCRIPTION	DATE
1	11/15/2021	CON.
2	11/15/2021	CON.
3	11/15/2021	CON.
4	11/15/2021	CON.
5	11/15/2021	CON.
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8	11/15/2021	CON.
9	11/15/2021	CON.
10	11/15/2021	CON.

COLLINS ENGINEERING & DESIGN, P.C.
C. F. COLLINS, P.E.

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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	GEOMETRY VERIFICATION SKETCHES
SS-3	MOUNT PHOTOS
	SPECIFICATION SHEETS

PROJECT INFORMATION

APPLICANT/LESSEE:	VERIZON WIRELESS
COMPANY:	VERIZON WIRELESS
CLIENT REPRESENTATIVE:	
COMPANY:	VERIZON WIRELESS
PROJECT MANAGER:	
COMPANY:	COLLINS ENGINEERING & DESIGN
CONTACT:	PETER ALBANO
PHONE:	860.381.1234
EMAIL:	PETER.ALBANO@COLLINSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	11115 JPM VZW SMART.COM
PMI PROJECT #:	5000248054
PMI ANALYSIS DATE:	10/26/2023

DESIGN CRITERIA

WIND LOADS
BASIC WIND SPEED (3 SECOND GUST), V = 120 MPH
EXPOSURE CATEGORY C
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 148.09'
ICE LOADS
ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN
SEISMIC LOADS
SEISMIC DESIGN CATEGORY 8
SHORT TERM HICR GROUND MOTION, S ₁ = .205
LONG TERM HICR GROUND MOTION, S ₁ = .051

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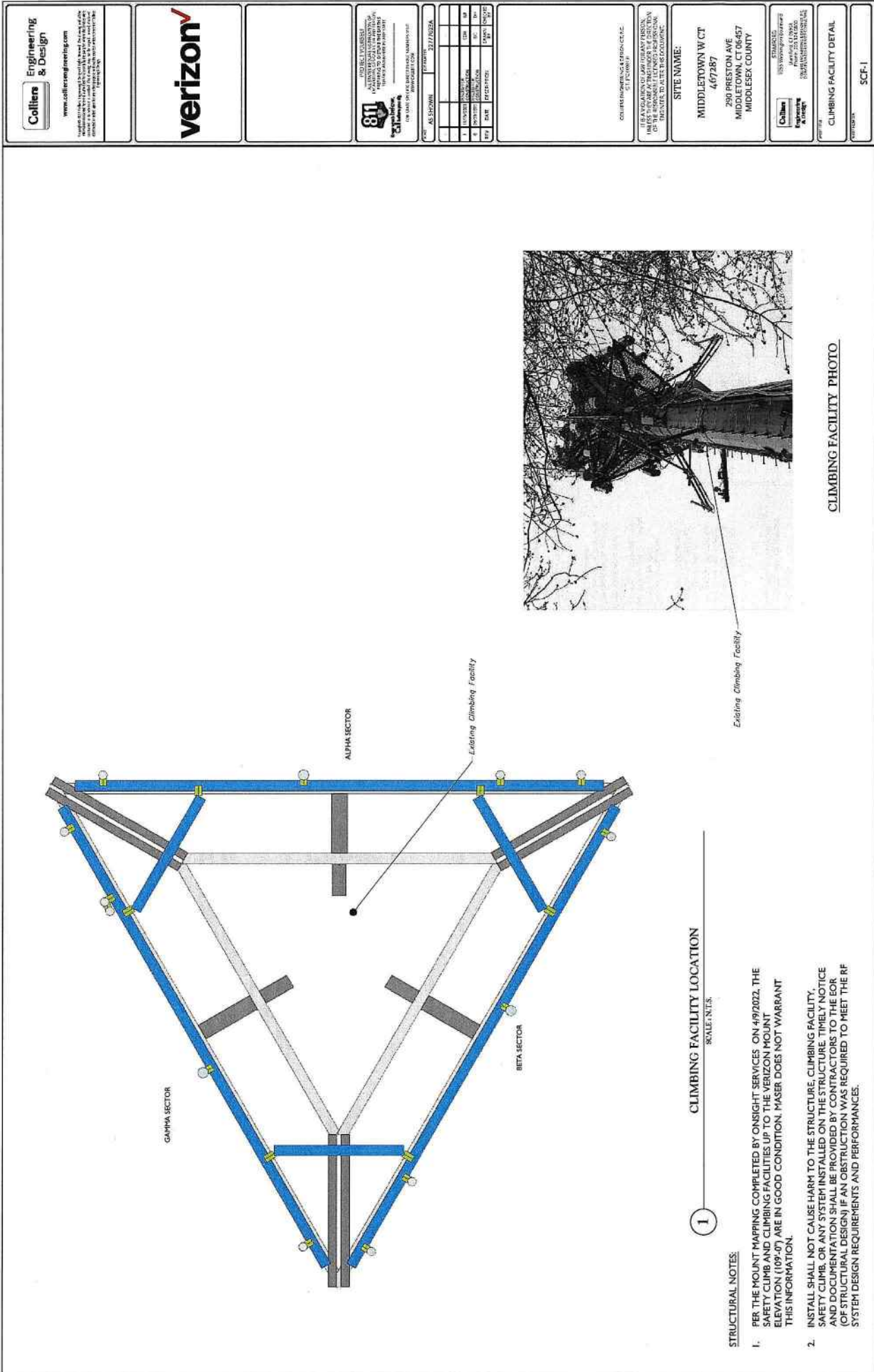
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

SECTION I - VZWSMART KITS

[illegible]

CONTACT	COMMSCOPE
PHONE	SALVADOR LANGUANO
FAX	(817) 304-7492
EMAIL	SALVADOR.LANGUANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RANNEY
PHONE	(704) 335-7045 (O), (704) 682-9788 (F)
FAX	KENT@METROSITELLC.COM
EMAIL	METROSITE@METROSITELLC.COM
WEBSITE	PERFECTVISION
CONTACT	WIRELESS SALES
PHONE	(844) 897-5773
FAX	WWW.PERFECT-VISION.COM
EMAIL	WIRELESS@SALES@PERFECT-VISION.COM
WEBSITE	SABRE INDUSTRIES, INC.
CONTACT	ANGIE WELCH
PHONE	(844) 428-4997
FAX	ANGIEWELCH@SABREINDUSTRIES.COM
EMAIL	WWW.SABRESOLUTIONS.COM
WEBSITE	SITE PRO 1
CONTACT	PALLA BOWRELL
PHONE	(972) 236-9849
FAX	PALLA.BOWRELL@VALMONT.COM
EMAIL	WWW.SITEPRO1.COM
WEBSITE	

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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DATE	AS SHOWN	PROJECT	2277022A
1	11/11/2022	PROJECT NO.	2277022A
2	11/11/2022	PROJECT NO.	2277022A
3	11/11/2022	PROJECT NO.	2277022A
4	11/11/2022	PROJECT NO.	2277022A
5	11/11/2022	PROJECT NO.	2277022A
6	11/11/2022	PROJECT NO.	2277022A
7	11/11/2022	PROJECT NO.	2277022A
8	11/11/2022	PROJECT NO.	2277022A
9	11/11/2022	PROJECT NO.	2277022A
10	11/11/2022	PROJECT NO.	2277022A

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SITE NAME:

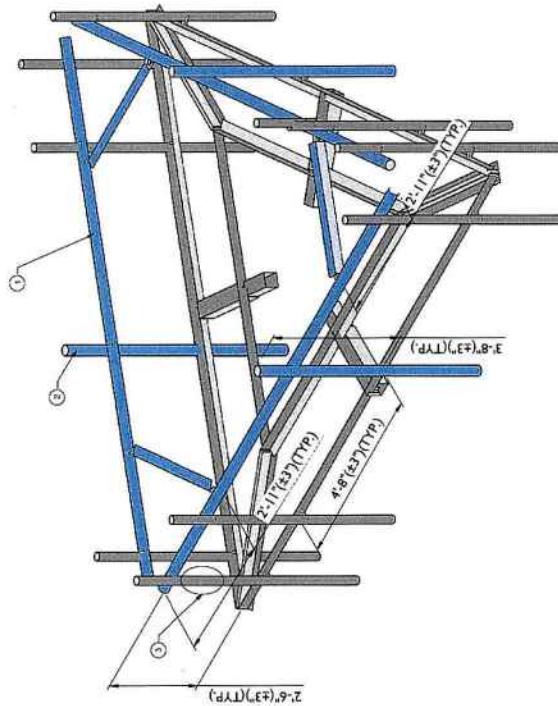
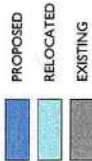
MIDDLETOWN W CT
4467287
290 PRESTON AVE
MIDDLETOWN, CT 06457
MIDDLESEX COUNTY

ESTIMATE
11/11/2022
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CLIMBING FACILITY DETAIL

SCF-1

LEGEND:



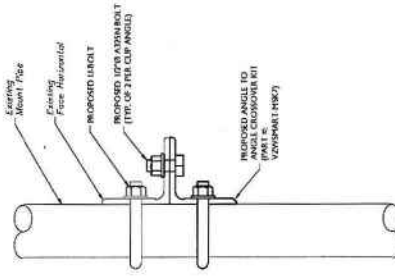
PROPOSED ISOMETRIC VIEW
SCALE: N.T.S.

MOUNT MODIFICATION SCHEDULE				NOTES
NO.	ELEVATION	QUANTITY	DESCRIPTION	
1	109'-0"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT NEW HORIZONTAL TO ALL EXISTING AND NEW VERTICAL MOUNT PIPES WITH PROPOSED HARDWARE IN THE PROVIDED KIT.
2		3	PROPOSED 7' LONG, 1/2" STD. (PART #: VZWSMART-40-278X072)	CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES PROVIDED IN SUPPORT RAIL KIT.
3		1	PROPOSED PIPE TO PIPE CLAMP SET (PART #: SCP10K)	MOUNT THE OVP TO THE INSIDE OF MOUNTING PIPE IN ALPHA POSITION 4 USING THIS CLAMP SET.

NOTES:

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

CONTRACTOR TO REMOVE EXISTING CLAMPS CONNECTING EXISTING AND PROPOSED MOUNT PIPES TO EXISTING FACE HORIZONTAL. REPLACE WITH (1) 1/2" 429 GR. 2 U-BOLT PER CONNECTION. INSTALL THE ANGLE TO ANGLE CROSSOVER KIT (PART #: VZWSMART-MSK7) ON THE FACE HORIZONTAL AND CONNECT THE SAME ANGLE TO ANGLE CROSSOVER KIT TO THE MOUNT PIPE. SEE DETAIL S-2 ON THIS PAGE FOR MORE DETAILS.



PROPOSED L3X3X1/4 CLIP
ANGLE CONNECTION DETAIL

SCALE: N.T.S.

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1-800-4-2-6-2-6

AS SHOWN
2277/2278

NO.	DESCRIPTION	QTY	UNIT
1	1/2" 429 GR. 2 U-BOLT	1	EA
2	1/2" 429 GR. 2 U-BOLT	1	EA
3	1/2" 429 GR. 2 U-BOLT	1	EA
4	1/2" 429 GR. 2 U-BOLT	1	EA
5	1/2" 429 GR. 2 U-BOLT	1	EA
6	1/2" 429 GR. 2 U-BOLT	1	EA
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97	1/2" 429 GR. 2 U-BOLT	1	EA
98	1/2" 429 GR. 2 U-BOLT	1	EA
99	1/2" 429 GR. 2 U-BOLT	1	EA
100	1/2" 429 GR. 2 U-BOLT	1	EA

COLLINS ENGINEERING & DESIGN, INC.
C-1, FLOOR 10

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MIDDLESEX COUNTY

Collins
Engineering
& Design
1000 WESTINGHOUSE BLVD
MIDDLETOWN, CT 06457
(860) 336-1111
www.collinsengineering.com

MODIFICATION DETAILS

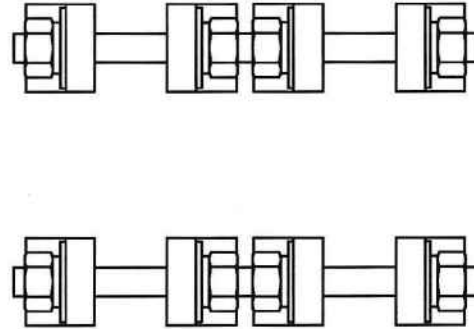
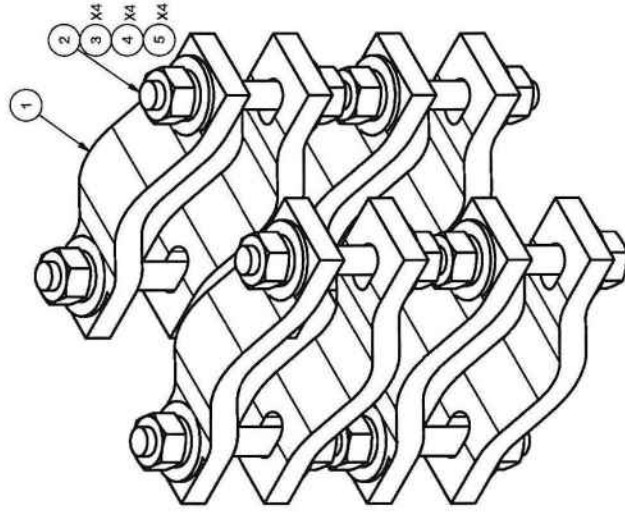
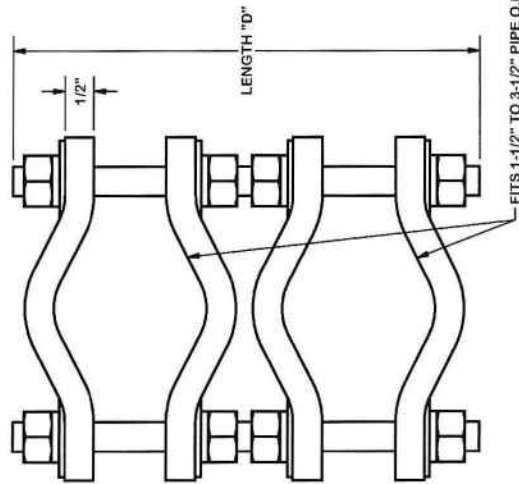
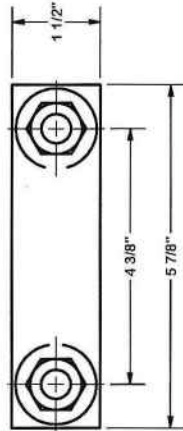
SS-1

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	8	SCP	CLAMP HALF, 1/2" THICK, 5-7/8"		1.25	10.00
2	B	C	1/2" THREADED ROD	D	E	F
3	16	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.14
4	16	G12LW	1/2" HDG LOCKWASHER		0.01	0.22
5	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.54

VARIABLE PARTS TABLE

ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	UNIT WT. "E"	NET WT. "F"	TOTAL WEIGHT
SCP08K	4	G12R-8	8"	.45	1.78	13.23
SCP10K	4	G12R-10	10"	.56	2.23	13.68



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.007)
 DRILLED AND GAS CUT HOLES (± 0.007), NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.007), NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.007)
 ALL OTHER ASSEMBLY (± 0.007)

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

DESCRIPTION

PIPE TO PIPE CLAMP SET
 1-1/2" TO 3-1/2" PIPE
 1/2" THICK CLAMP

CPD NO.

DRAWN BY

KC8

8/21/2012

ENG. APPROVAL

CHECKED BY

CEK

2/18/2013

DWG. NO.

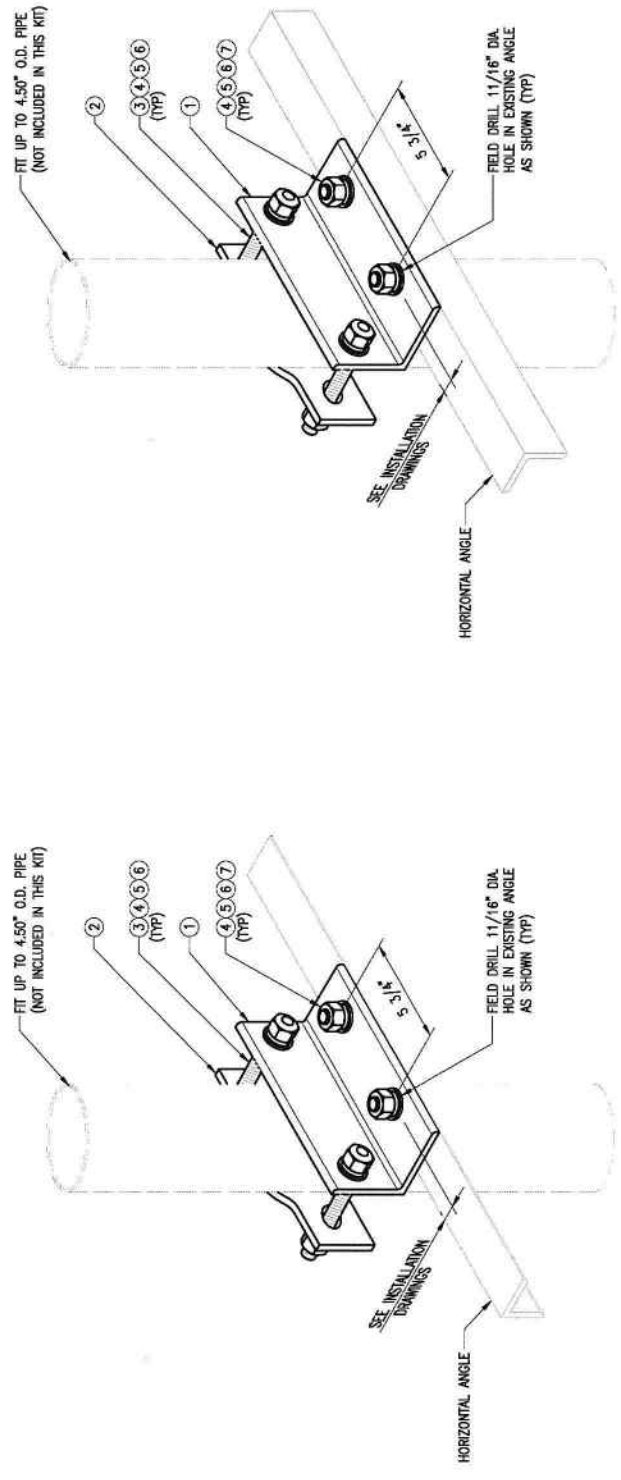
SEE ASSEMBLY "A"

SCPxxK

PAGE

1 OF 1

STEEL PRO
 A valmont COMPANY
 Locations:
 Houston, TX
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX
 Engineering Support Team:
 1-888-753-7446

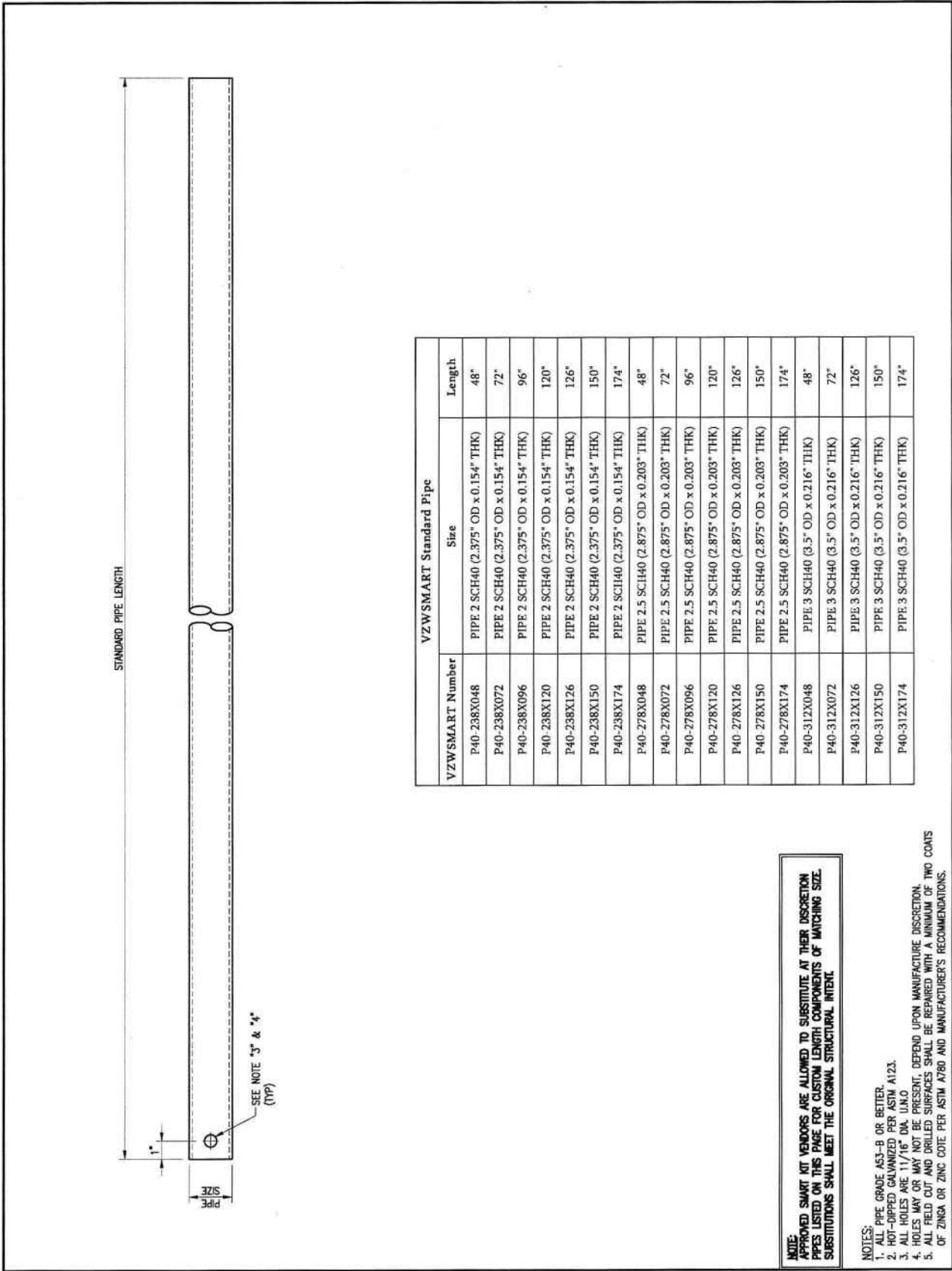


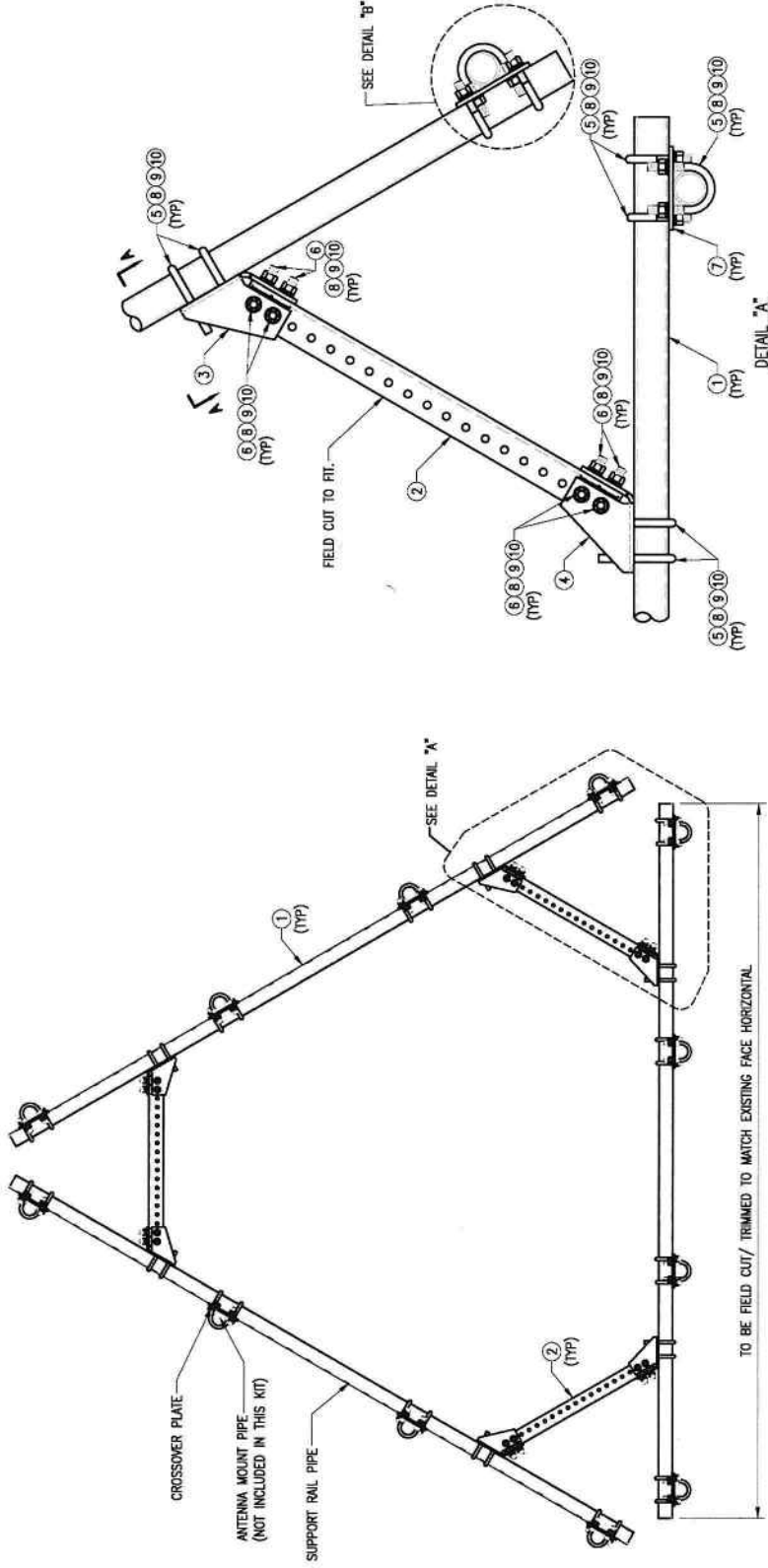
OPTION 2

ANGLE TO ANGLE CROSSOVER KIT

VZWSMART-MSK7 (ANGLE TO ANGLE CROSSOVER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	L3325-0.7	1. 3" X 3" X 1/4" X 0"-8" A36	MSK7-F2	3.33
2	1	VCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK7-F1	2.4
3	2	---	BOLT 5/8" DIA. X 6" FULL THREAD SAE GR 5		
4	4	NUT-625	5/8" HOG HEX NUT		0
5	8	FW-625	5/8" HOG USS FLAT WASHER		0
6	4	LW-625	5/8" HOG LOCK WASHER		0
7	2	---	BOLT 5/8" X 2" A325		0
GALVANIZED					7

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.
2. USE PROVIDED ADDITIONAL FLAT WASHERS FOR CONNECTING TO 3/16" THICK HORIZONTAL ANGLE

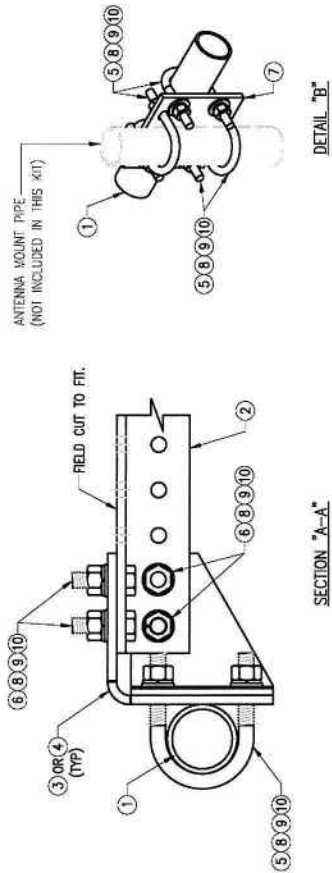




NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

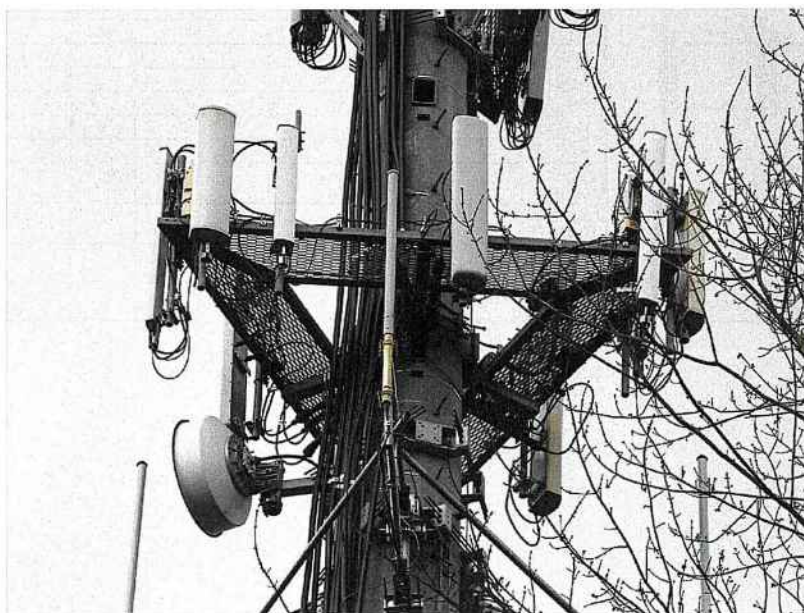
VZW SMART-PLK1 (SUPPORT RAIL KIT)				
ITEM NO.	QTY.	PART NO.	DESCRIPTION	WT
1	3	PS2875-12.5	2.5" PSI (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	292
2	3	1.333/5-3	L 3" X 3" X 3/8" X 3'-0" A36	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	28
5	50	MS02-625-300-500	RU-BOLT 5/8" X 3" LW X 5" LL A36 (OR EQUIV.)	82
6	24	---	BOLT 5/8" X 2" A325	9
7	12	PL375-85/	PL 3/8" X 8 1/2" X 7'-0" A36	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	12
9	144	LW-625	5/8" HDG LOCK WASHER	3
10	144	NUT-625	5/8" HDG HEX NUT	17
GALVANIZED WT				504

PLAN VIEW



SECTION "A-A"

DETAIL "B"



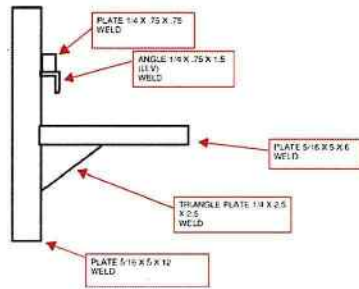
[illegible]

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.

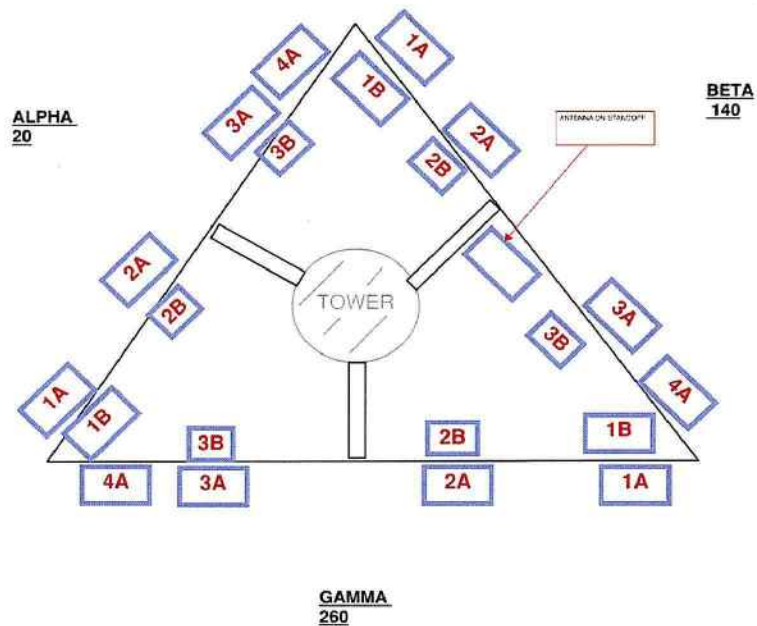
DETAIL 1

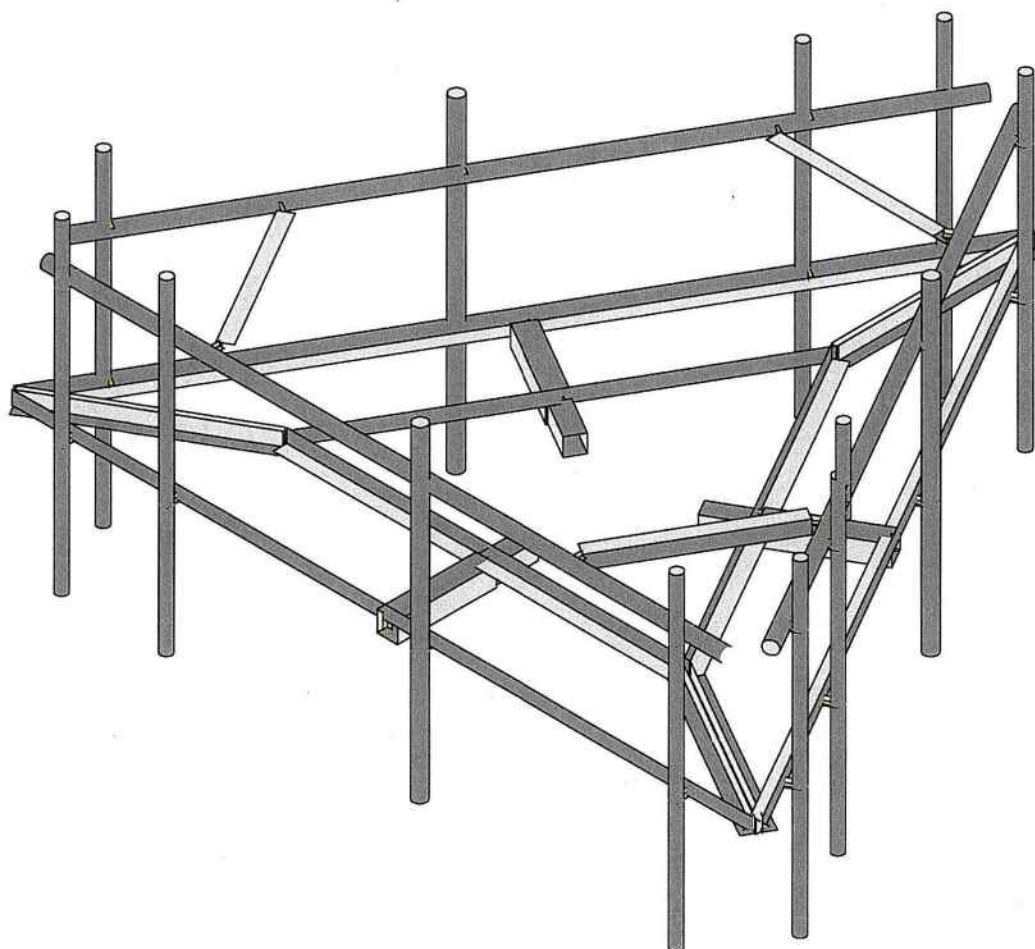
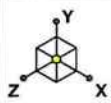


AZIMUTH

(12) 1-5/8" COAX
(1) 1.55" OD HYBRID

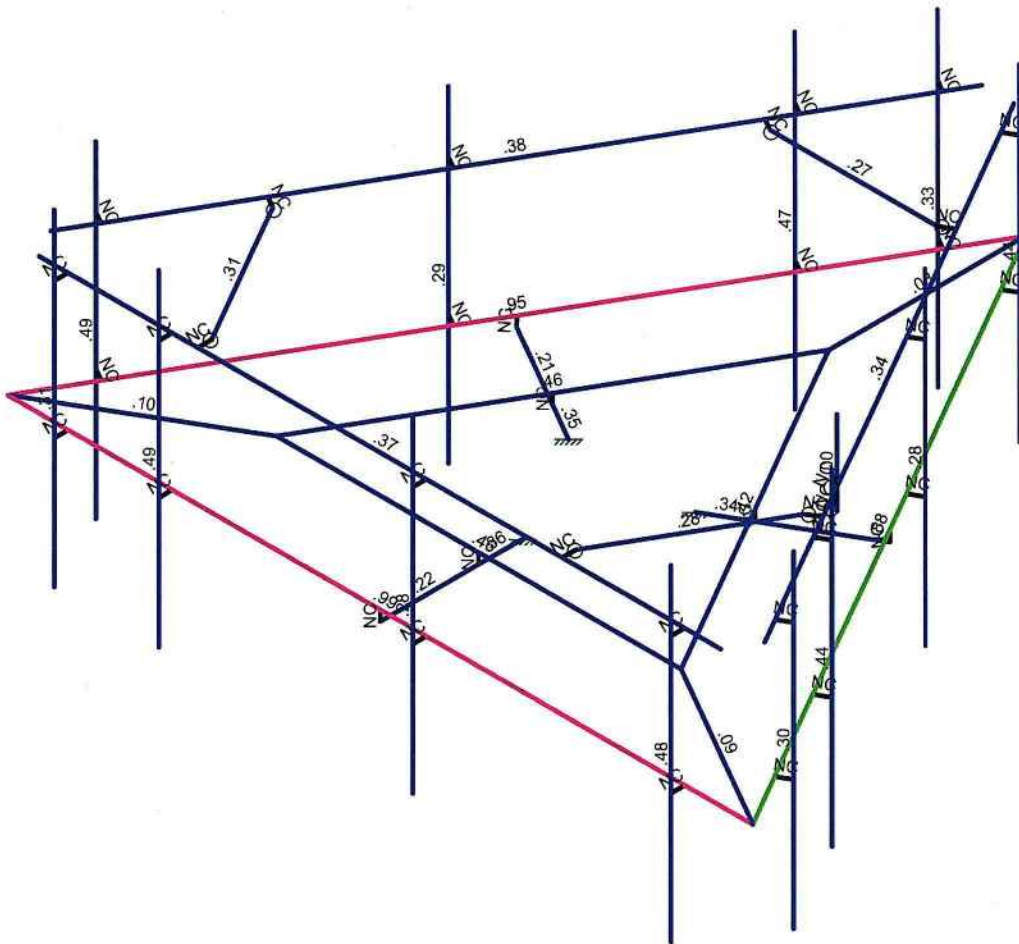
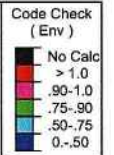
MCL: 109 FT
TOT: 150



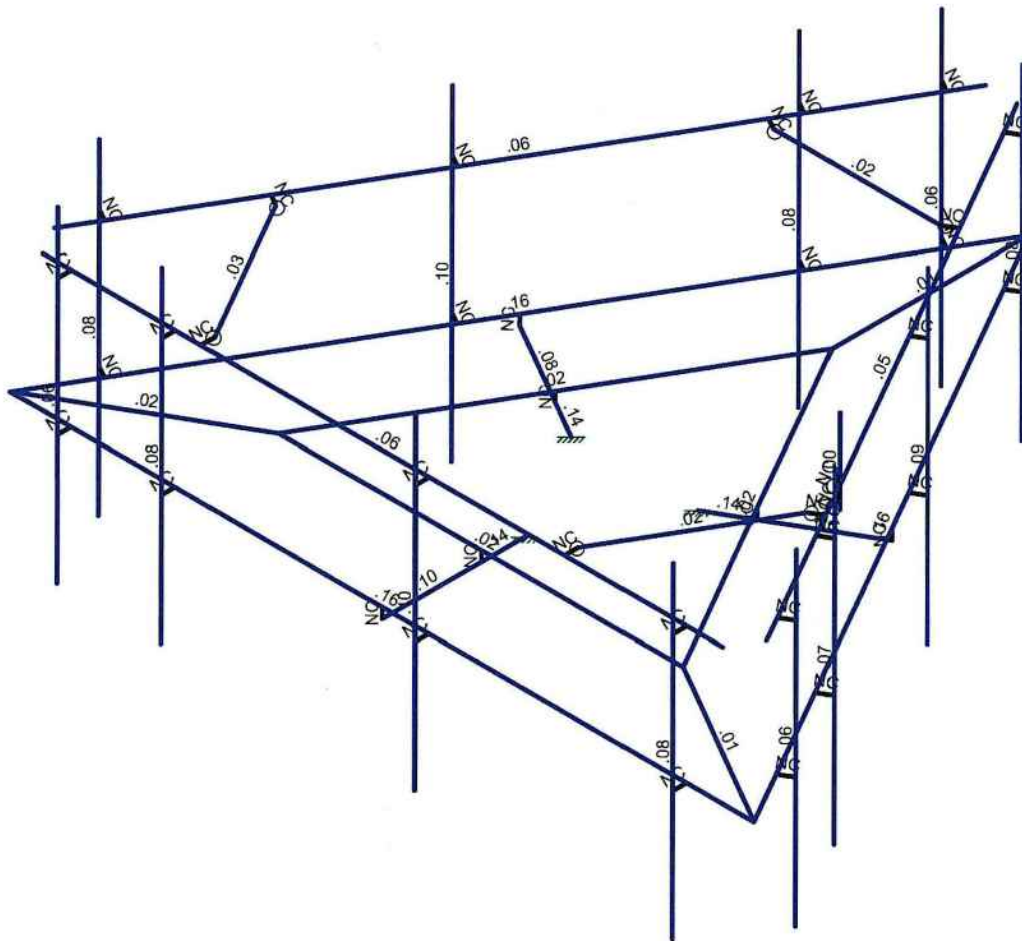
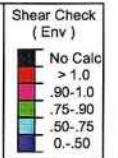
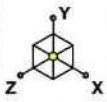


Envelope Only Solution

		SK - 1
		Nov 13, 2023 at 10:02 AM
		Mod_5000248054-VZW_MT_LO_...



SK - 2
Nov 13, 2023 at 10:02 AM
Mod_5000248054-VZW_MT_LO_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

SK - 3

Nov 13, 2023 at 10:02 AM

Mod_5000248054-VZW_MT_LO_...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					93		
2	Antenna Di	None					93		
3	Antenna Wo (0 Deg)	None					93		
4	Antenna Wo (30 Deg)	None					93		
5	Antenna Wo (60 Deg)	None					93		
6	Antenna Wo (90 Deg)	None					93		
7	Antenna Wo (120 Deg)	None					93		
8	Antenna Wo (150 Deg)	None					93		
9	Antenna Wo (180 Deg)	None					93		
10	Antenna Wo (210 Deg)	None					93		
11	Antenna Wo (240 Deg)	None					93		
12	Antenna Wo (270 Deg)	None					93		
13	Antenna Wo (300 Deg)	None					93		
14	Antenna Wo (330 Deg)	None					93		
15	Antenna Wi (0 Deg)	None					93		
16	Antenna Wi (30 Deg)	None					93		
17	Antenna Wi (60 Deg)	None					93		
18	Antenna Wi (90 Deg)	None					93		
19	Antenna Wi (120 Deg)	None					93		
20	Antenna Wi (150 Deg)	None					93		
21	Antenna Wi (180 Deg)	None					93		
22	Antenna Wi (210 Deg)	None					93		
23	Antenna Wi (240 Deg)	None					93		
24	Antenna Wi (270 Deg)	None					93		
25	Antenna Wi (300 Deg)	None					93		
26	Antenna Wi (330 Deg)	None					93		
27	Antenna Wm (0 Deg)	None					93		
28	Antenna Wm (30 Deg)	None					93		
29	Antenna Wm (60 Deg)	None					93		
30	Antenna Wm (90 Deg)	None					93		
31	Antenna Wm (120 Deg)	None					93		
32	Antenna Wm (150 Deg)	None					93		
33	Antenna Wm (180 Deg)	None					93		
34	Antenna Wm (210 Deg)	None					93		
35	Antenna Wm (240 Deg)	None					93		
36	Antenna Wm (270 Deg)	None					93		
37	Antenna Wm (300 Deg)	None					93		
38	Antenna Wm (330 Deg)	None					93		
39	Structure D	None		-1					3
40	Structure Di	None						34	3
41	Structure Wo (0 Deg)	None						68	
42	Structure Wo (30 Deg)	None						68	
43	Structure Wo (60 Deg)	None						68	
44	Structure Wo (90 Deg)	None						68	
45	Structure Wo (120 D...	None						68	
46	Structure Wo (150 D...	None						68	
47	Structure Wo (180 D...	None						68	
48	Structure Wo (210 D...	None						68	
49	Structure Wo (240 D...	None						68	
50	Structure Wo (270 D...	None						68	
51	Structure Wo (300 D...	None						68	
52	Structure Wo (330 D...	None						68	
53	Structure Wi (0 Deg)	None						68	
54	Structure Wi (30 Deg)	None						68	
55	Structure Wi (60 Deg)	None						68	
56	Structure Wi (90 Deg)	None						68	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						68	
58	Structure Wi (150 De...	None						68	
59	Structure Wi (180 De...	None						68	
60	Structure Wi (210 De...	None						68	
61	Structure Wi (240 De...	None						68	
62	Structure Wi (270 De...	None						68	
63	Structure Wi (300 De...	None						68	
64	Structure Wi (330 De...	None						68	
65	Structure Wm (0 Deg)	None						68	
66	Structure Wm (30 De...	None						68	
67	Structure Wm (60 De...	None						68	
68	Structure Wm (90 De...	None						68	
69	Structure Wm (120 D...	None						68	
70	Structure Wm (150 D...	None						68	
71	Structure Wm (180 D...	None						68	
72	Structure Wm (210 D...	None						68	
73	Structure Wm (240 D...	None						68	
74	Structure Wm (270 D...	None						68	
75	Structure Wm (300 D...	None						68	
76	Structure Wm (330 D...	None						68	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	Antenna Ev	None					93		
82	Antenna Eh (0 Deg)	None					62		
83	Antenna Eh (90 Deg)	None					62		
84	Structure Ev	ELY		-.025				3	
85	Structure Eh (0 Deg)	ELZ			-.063			3	
86	Structure Eh (90 Deg)	ELX	.063					3	
87	BLC 39 Transient Are...	None						15	
88	BLC 40 Transient Are...	None						27	
89	BLC 84 Transient Are...	None						30	
90	BLC 85 Transient Are...	None						30	
91	BLC 86 Transient Are...	None						30	

Load Combinations

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

Load Combinations (Continued)

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

Load Combinations (Continued)

[illegible]

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0.	0	-0.	0	
2	N2	0.	-0.1875	1.345417	0	
3	N10	-0.	0	-4.291667	0	
4	N11	-0.	0	-4.833334	0	
5	N12	-0.	0	-6.333334	0	
6	N13	-0.	0	-7.833334	0	
7	N15	-3.716692	0	2.145833	0	
8	N17	3.716693	0	2.145833	0	
9	N15A	0.	-0.1875	2.145833	0	
10	N16A	0.	-0.1875	3.958333	0	
11	N15B	-4.18579	0	2.416667	0	
12	N16B	-5.484828	0	3.166667	0	
13	N17A	-6.783866	0	3.916667	0	
14	N18A	4.18579	0	2.416666	0	
15	N19	5.484828	0	3.166666	0	
16	N20	6.783866	0	3.916666	0	
17	N77A	0.	0	2.145833	0	
18	N78A	0.	0	3.958333	0	
19	N111A	-0.	0	-5.791667	0	
20	N112	-5.015731	0	2.895833	0	
21	N113	5.015731	0	2.895833	0	
22	N37	-6.847461	0	3.958333	0	
23	N38	6.847461	0	3.958333	0	
24	N28	3.428018	-0.1875	-1.979167	0	
25	N29	3.423733	0	-1.979167	0	
26	N31	0.004288	0	-7.909242	0	
27	N33	-3.428017	-0.1875	-1.979167	0	
28	N34	-3.419443	0	-1.979167	0	
29	N33A	1.165165	-0.1875	-0.672709	0	
30	N36	1.858346	0	-1.072917	0	
31	N39	-1.165165	-0.1875	-0.672709	0	
32	N42	-1.858346	0	-1.072917	0	
33	N35	1.858347	-0.1875	-1.072917	0	
34	N39A	-1.858346	-0.1875	-1.072917	0	
35	N35A	5.597461	0	3.958333	0	
36	N36A	0.847461	0	3.958333	0	
37	N37A	-3.819206	0	3.958333	0	
38	N38A	-5.735873	0	3.958333	0	
39	N39B	5.597461	0	4.208333	0	
40	N40	0.847461	0	4.208333	0	
41	N41	-3.819206	0	4.208333	0	
42	N42A	-5.735873	0	4.208333	0	
43	N43	5.597461	3.625	4.208333	0	
44	N44	0.847461	3.625	4.208333	0	
45	N45	-3.819206	3.625	4.208333	0	
46	N46	-5.735873	3.625	4.208333	0	
47	N47	5.597461	-2.375	4.208333	0	
48	N48	0.847461	-2.375	4.208333	0	
49	N49	-3.819206	-2.375	4.208333	0	
50	N50	-5.735873	-2.375	4.208333	0	
51	N52	0.628701	0	-6.826371	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N53	3.001471	0	-2.711463	0	
53	N54	5.332614	0	1.331254	0	
54	N55	6.290047	0	2.991655	0	
55	N56	0.845794	0	-6.95171	0	
56	N57	3.220794	0	-2.838089	0	
57	N58	5.554127	0	1.203363	0	
58	N59	6.512461	0	2.863245	0	
59	N60	0.845794	3.625	-6.95171	0	
60	N61	3.220794	3.625	-2.838089	0	
61	N62	5.554127	3.625	1.203363	0	
62	N63	6.512461	3.625	2.863245	0	
63	N64	0.845794	-2.375	-6.95171	0	
64	N65	3.220794	-2.375	-2.838089	0	
65	N66	5.554127	-2.375	1.203363	0	
66	N67	6.512461	-2.375	2.863245	0	
67	N69	-6.220317	0	2.872089	0	
68	N70	-3.845317	0	-1.241532	0	
69	N71	-1.511983	0	-5.282984	0	
70	N72	-0.55365	0	-6.942866	0	
71	N73	-6.443254	0	2.743376	0	
72	N74	-4.068254	0	-1.370245	0	
73	N75	-1.73492	0	-5.411697	0	
74	N76	-0.776587	0	-7.071579	0	
75	N77	-6.443254	3.625	2.743376	0	
76	N78	-4.068254	3.625	-1.370245	0	
77	N79	-1.73492	3.625	-5.411697	0	
78	N80	-0.776587	3.625	-7.071579	0	
79	N81	-6.443254	-2.375	2.743376	0	
80	N82	-4.068254	-2.375	-1.370245	0	
81	N83	-1.73492	-2.375	-5.411697	0	
82	N84	-0.776587	-2.375	-7.071579	0	
83	N83A	5.554127	3.375	1.203363	0	
84	N84A	5.429127	3.375	0.986856	0	
85	N85	5.429127	4.333333	0.986856	0	
86	N86	5.429127	2.791667	0.986856	0	
87	N87	5.554127	3.042	1.203363	0	
88	N88	5.429127	3.042	0.986856	0	
89	N89	-6.264127	2.5	3.958333	0	
90	N90	6.264127	2.5	3.958333	0	
91	N91	5.597461	2.5	3.958333	0	
92	N92	0.847461	2.5	3.958333	0	
93	N93	-3.819206	2.5	3.958333	0	
94	N94	-5.735873	2.5	3.958333	0	
95	N95	5.597461	2.5	4.208333	0	
96	N96	0.847461	2.5	4.208333	0	
97	N97	-3.819206	2.5	4.208333	0	
98	N98	-5.735873	2.5	4.208333	0	
99	N100	6.560082	2.5	3.445727	0	
100	N101	0.295954	2.5	-7.40406	0	
101	N102	0.629288	2.5	-6.82671	0	
102	N103	3.004288	2.5	-2.713089	0	
103	N104	5.337621	2.5	1.328363	0	
104	N105	6.295954	2.5	2.988245	0	
105	N106	0.845794	2.5	-6.95171	0	
106	N107	3.220794	2.5	-2.838089	0	
107	N108	5.554127	2.5	1.203363	0	
108	N109	6.512461	2.5	2.863245	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N111	-0.295953	2.5	-7.404061	0	
110	N112A	-6.560081	2.5	3.445726	0	
111	N113A	-6.226747	2.5	2.868376	0	
112	N114	-3.851747	2.5	-1.245245	0	
113	N115	-1.518414	2.5	-5.286697	0	
114	N116	-0.560081	2.5	-6.946579	0	
115	N117	-6.443254	2.5	2.743376	0	
116	N118	-4.068254	2.5	-1.370245	0	
117	N119	-1.73492	2.5	-5.411697	0	
118	N120	-0.776587	2.5	-7.071579	0	
119	N119A	-3.347461	2.5	3.958333	0	
120	N120A	3.347461	2.5	3.958333	0	
121	N121	-3.347461	2.5	3.708333	0	
122	N122	3.347461	2.5	3.708333	0	
123	N124	5.101748	2.5	0.919819	0	
124	N125	1.754288	2.5	-4.878153	0	
125	N126	4.885242	2.5	1.044819	0	
126	N127	1.537781	2.5	-4.753153	0	
127	N129	-1.754287	2.5	-4.878153	0	
128	N130	-5.101747	2.5	0.919819	0	
129	N131	-1.53778	2.5	-4.753153	0	
130	N132	-4.885241	2.5	1.044819	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	I _{yy} [in4]	I _{zz} [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Support Rail	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Bottom Corner Plate	L15X6.5X6	Beam	Single Angle	A36 Gr.36	Typical	7.922	24.473	192.705	.363
4	Standoff 2	HSS4.5X4.5X3	Beam	Tube	A500 Gr.B Rect	Typical	2.93	9.02	9.02	14.4
5	Cross Members	L3X3X4	Beam	Channel	A36 Gr.36	Typical	1.44	1.23	1.23	.031
6	Face Horizontal	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
7	Standoff 1	HSS4X4X4	Beam	Tube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
8	Grating Angle	LL3x3x4x0	Beam	Double Angle ...	A36 Gr.36	Typical	2.88	4.5	2.46	.063
9	Top Corner Plate	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
10	MOD P2.5 Pipe	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
11	MOD Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
12	MOD Support Rail An...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N15A			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
2	M2	N15A	N16A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
3	M5	N31	N10		180	Grating Angle	Beam	Double Angle (..	A36 Gr.36	Typical
4	M6	N37	N15		180	Grating Angle	Beam	Double Angle (..	A36 Gr.36	Typical
5	M7	N38	N17		180	Grating Angle	Beam	Double Angle (..	A36 Gr.36	Typical
6	M6A	N17	N15		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
7	M7A	N37	N38		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
8	M23A	N10	N17		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
9	M39A	N15	N10		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
10	M40A	N78A	N16A			RIGID	None	None	RIGID	Typical
11	M41	N77A	N15A			RIGID	None	None	RIGID	Typical
12	M12	N38	N31		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
13	M13	N29	N28			RIGID	None	None	RIGID	Typical
14	M14	N31	N37		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
15	M15	N34	N33			RIGID	None	None	RIGID	Typical
16	M18A	N33A	N35			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
17	M19	N35	N28			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
18	M20	N39	N39A			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
19	M21	N39A	N33			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
20	M22A	N35A	N39B			RIGID	None	None	RIGID	Typical
21	M23	N36A	N40			RIGID	None	None	RIGID	Typical
22	M24	N37A	N41			RIGID	None	None	RIGID	Typical
23	M25	N38A	N42A			RIGID	None	None	RIGID	Typical
24	MP1A	N43	N47			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
25	MP2A	N44	N48			MOD P2.5 Pipe	Beam	Pipe	A53 Gr.B	Typical
26	MP3A	N45	N49			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
27	MP4A	N46	N50			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
28	M30	N52	N56			RIGID	None	None	RIGID	Typical
29	M31	N53	N57			RIGID	None	None	RIGID	Typical
30	M32	N54	N58			RIGID	None	None	RIGID	Typical
31	M33	N55	N59			RIGID	None	None	RIGID	Typical
32	MP1C	N60	N64			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
33	MP2C	N61	N65			MOD P2.5 Pipe	Beam	Pipe	A53 Gr.B	Typical
34	MP3C	N62	N66			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
35	MP4C	N63	N67			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
36	M38	N69	N73			RIGID	None	None	RIGID	Typical
37	M39	N70	N74			RIGID	None	None	RIGID	Typical
38	M40	N71	N75			RIGID	None	None	RIGID	Typical
39	M41A	N72	N76			RIGID	None	None	RIGID	Typical
40	MP1B	N77	N81			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
41	MP2B	N78	N82			MOD P2.5 Pipe	Beam	Pipe	A53 Gr.B	Typical
42	MP3B	N79	N83			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
43	MP4B	N80	N84			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
44	M46	N83A	N84A			RIGID	None	None	RIGID	Typical
45	M47	N85	N86			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
46	M48	N36	N35			RIGID	None	None	RIGID	Typical
47	M49	N42	N39A			RIGID	None	None	RIGID	Typical
48	M50	N87	N88			RIGID	None	None	RIGID	Typical
49	M49A	N89	N90		270	MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
50	M50A	N91	N95			RIGID	None	None	RIGID	Typical
51	M51	N92	N96			RIGID	None	None	RIGID	Typical
52	M52	N93	N97			RIGID	None	None	RIGID	Typical
53	M53	N94	N98			RIGID	None	None	RIGID	Typical
54	M54	N100	N101		270	MOD Support ...	Beam	Pipe	A53 Gr.B	Typical
55	M55	N102	N106			RIGID	None	None	RIGID	Typical
56	M56	N103	N107			RIGID	None	None	RIGID	Typical
57	M57	N104	N108			RIGID	None	None	RIGID	Typical
58	M58	N105	N109			RIGID	None	None	RIGID	Typical
59	M59	N111	N112A		270	MOD Support ...	Beam	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
60	M60	N113A	N117			RIGID	None	None	RIGID	Typical
61	M61	N114	N118			RIGID	None	None	RIGID	Typical
62	M62	N115	N119			RIGID	None	None	RIGID	Typical
63	M63	N116	N120			RIGID	None	None	RIGID	Typical
64	M64	N119A	N121			RIGID	None	None	RIGID	Typical
65	M65	N120A	N122			RIGID	None	None	RIGID	Typical
66	M66	N124	N126			RIGID	None	None	RIGID	Typical
67	M67	N125	N127			RIGID	None	None	RIGID	Typical
68	M68	N129	N131			RIGID	None	None	RIGID	Typical
69	M69	N130	N132			RIGID	None	None	RIGID	Typical
70	M70	N121	N132		90	MOD Support ...	Beam	Single Angle	A36 Gr.36	Typical
71	M71	N126	N122		90	MOD Support ...	Beam	Single Angle	A36 Gr.36	Typical
72	M72	N131	N127		90	MOD Support ...	Beam	Single Angle	A36 Gr.36	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top(ft)	Lcomp bot(ft)	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Standoff 1	.8			Lbyy						Lateral
2	M2	Standoff 2	1.813			Lbyy						Lateral
3	M5	Grating Angle	3.618			Lbyy						Lateral
4	M6	Grating Angle	3.618			Lbyy						Lateral
5	M7	Grating Angle	3.618			Lbyy						Lateral
6	M6A	Cross Mem...	7.433			Lbyy						Lateral
7	M7A	Face Horizo..	13.695	7		Lbyy						Lateral
8	M23A	Cross Mem...	7.433			Lbyy						Lateral
9	M39A	Cross Mem...	7.433			Lbyy						Lateral
10	M12	Face Horizo..	13.699	7		Lbyy						Lateral
11	M14	Face Horizo..	13.703	7		Lbyy						Lateral
12	M18A	Standoff 1	.8			Lbyy						Lateral
13	M19	Standoff 2	1.812			Lbyy						Lateral
14	M20	Standoff 1	.8			Lbyy						Lateral
15	M21	Standoff 2	1.812			Lbyy						Lateral
16	MP1A	Mount Pipe	6			Lbyy						Lateral
17	MP2A	MOD P2.5 ...	6			Lbyy						Lateral
18	MP3A	Mount Pipe	6			Lbyy						Lateral
19	MP4A	Mount Pipe	6			Lbyy						Lateral
20	MP1C	Mount Pipe	6			Lbyy						Lateral
21	MP2C	MOD P2.5 ...	6			Lbyy						Lateral
22	MP3C	Mount Pipe	6			Lbyy						Lateral
23	MP4C	Mount Pipe	6			Lbyy						Lateral
24	MP1B	Mount Pipe	6			Lbyy						Lateral
25	MP2B	MOD P2.5 ...	6			Lbyy						Lateral
26	MP3B	Mount Pipe	6			Lbyy						Lateral
27	MP4B	Mount Pipe	6			Lbyy						Lateral
28	M47	Mount Pipe	1.542			Lbyy						Lateral
29	M49A	MOD Supp...	12.528	7		Lbyy						Lateral
30	M54	MOD Supp...	12.528	7		Lbyy						Lateral
31	M59	MOD Supp...	12.528	7		Lbyy						Lateral
32	M70	MOD Supp...	3.076			Lbyy						Lateral
33	M71	MOD Supp...	3.076			Lbyy						Lateral
34	M72	MOD Supp...	3.076			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Y	-4.95	1
2	MP3A	My	-.002	1
3	MP3A	Mz	0	1
4	MP3A	Y	-4.95	4
5	MP3A	My	-.002	4
6	MP3A	Mz	0	4
7	MP3B	Y	-4.95	1
8	MP3B	My	.001	1
9	MP3B	Mz	-.002	1
10	MP3B	Y	-4.95	4
11	MP3B	My	.001	4
12	MP3B	Mz	-.002	4
13	MP3C	Y	-4.95	1
14	MP3C	My	.001	1
15	MP3C	Mz	.002	1
16	MP3C	Y	-4.95	4
17	MP3C	My	.001	4
18	MP3C	Mz	.002	4
19	MP1A	Y	-39	.5
20	MP1A	My	-.019	.5
21	MP1A	Mz	0	.5
22	MP1A	Y	-39	4.5
23	MP1A	My	-.019	4.5
24	MP1A	Mz	0	4.5
25	MP1B	Y	-39	.5
26	MP1B	My	.01	.5
27	MP1B	Mz	-.017	.5
28	MP1B	Y	-39	4.5
29	MP1B	My	.01	4.5
30	MP1B	Mz	-.017	4.5
31	MP1C	Y	-39	.5
32	MP1C	My	.01	.5
33	MP1C	Mz	.017	.5
34	MP1C	Y	-39	4.5
35	MP1C	My	.01	4.5
36	MP1C	Mz	.017	4.5
37	MP4A	Y	-39	.5
38	MP4A	My	-.019	.5
39	MP4A	Mz	0	.5
40	MP4A	Y	-39	4.5
41	MP4A	My	-.019	4.5
42	MP4A	Mz	0	4.5
43	MP4B	Y	-39	.5
44	MP4B	My	.01	.5
45	MP4B	Mz	-.017	.5
46	MP4B	Y	-39	4.5
47	MP4B	My	.01	4.5
48	MP4B	Mz	-.017	4.5
49	MP4C	Y	-39	.5
50	MP4C	My	.01	.5
51	MP4C	Mz	.017	.5
52	MP4C	Y	-39	4.5
53	MP4C	My	.01	4.5
54	MP4C	Mz	.017	4.5
55	MP2A	Y	-28.65	1.5
56	MP2A	My	-.019	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
57	MP2A	Mz	0	1.5
58	MP2A	Y	-28.65	3.5
59	MP2A	My	-.019	3.5
60	MP2A	Mz	0	3.5
61	MP2B	Y	-28.65	1.5
62	MP2B	My	.01	1.5
63	MP2B	Mz	-.017	1.5
64	MP2B	Y	-28.65	3.5
65	MP2B	My	.01	3.5
66	MP2B	Mz	-.017	3.5
67	MP2C	Y	-28.65	1.5
68	MP2C	My	.01	1.5
69	MP2C	Mz	.017	1.5
70	MP2C	Y	-28.65	3.5
71	MP2C	My	.01	3.5
72	MP2C	Mz	.017	3.5
73	MP3A	Y	-32	2
74	MP3A	My	.016	2
75	MP3A	Mz	0	2
76	MP1A	Y	-74.7	2
77	MP1A	My	.037	2
78	MP1A	Mz	0	2
79	MP1B	Y	-74.7	2
80	MP1B	My	-.019	2
81	MP1B	Mz	.032	2
82	MP1C	Y	-74.7	2
83	MP1C	My	-.019	2
84	MP1C	Mz	-.032	2
85	MP4A	Y	-79.1	2
86	MP4A	My	.04	2
87	MP4A	Mz	0	2
88	MP4B	Y	-79.1	2
89	MP4B	My	-.02	2
90	MP4B	Mz	.034	2
91	MP4C	Y	-79.1	2
92	MP4C	My	-.02	2
93	MP4C	Mz	-.034	2

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Y	-23.439	1
2	MP3A	My	-.012	1
3	MP3A	Mz	0	1
4	MP3A	Y	-23.439	4
5	MP3A	My	-.012	4
6	MP3A	Mz	0	4
7	MP3B	Y	-23.439	1
8	MP3B	My	.006	1
9	MP3B	Mz	-.01	1
10	MP3B	Y	-23.439	4
11	MP3B	My	.006	4
12	MP3B	Mz	-.01	4
13	MP3C	Y	-23.439	1
14	MP3C	My	.006	1
15	MP3C	Mz	.01	1
16	MP3C	Y	-23.439	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
17	MP3C	My	.006	4
18	MP3C	Mz	.01	4
19	MP1A	Y	-80.373	.5
20	MP1A	My	-.04	.5
21	MP1A	Mz	0	.5
22	MP1A	Y	-80.373	4.5
23	MP1A	My	-.04	4.5
24	MP1A	Mz	0	4.5
25	MP1B	Y	-80.373	.5
26	MP1B	My	.02	.5
27	MP1B	Mz	-.035	.5
28	MP1B	Y	-80.373	4.5
29	MP1B	My	.02	4.5
30	MP1B	Mz	-.035	4.5
31	MP1C	Y	-80.373	.5
32	MP1C	My	.02	.5
33	MP1C	Mz	.035	.5
34	MP1C	Y	-80.373	4.5
35	MP1C	My	.02	4.5
36	MP1C	Mz	.035	4.5
37	MP4A	Y	-80.373	.5
38	MP4A	My	-.04	.5
39	MP4A	Mz	0	.5
40	MP4A	Y	-80.373	4.5
41	MP4A	My	-.04	4.5
42	MP4A	Mz	0	4.5
43	MP4B	Y	-80.373	.5
44	MP4B	My	.02	.5
45	MP4B	Mz	-.035	.5
46	MP4B	Y	-80.373	4.5
47	MP4B	My	.02	4.5
48	MP4B	Mz	-.035	4.5
49	MP4C	Y	-80.373	.5
50	MP4C	My	.02	.5
51	MP4C	Mz	.035	.5
52	MP4C	Y	-80.373	4.5
53	MP4C	My	.02	4.5
54	MP4C	Mz	.035	4.5
55	MP2A	Y	-28.997	1.5
56	MP2A	My	-.019	1.5
57	MP2A	Mz	0	1.5
58	MP2A	Y	-28.997	3.5
59	MP2A	My	-.019	3.5
60	MP2A	Mz	0	3.5
61	MP2B	Y	-28.997	1.5
62	MP2B	My	.01	1.5
63	MP2B	Mz	-.017	1.5
64	MP2B	Y	-28.997	3.5
65	MP2B	My	.01	3.5
66	MP2B	Mz	-.017	3.5
67	MP2C	Y	-28.997	1.5
68	MP2C	My	.01	1.5
69	MP2C	Mz	.017	1.5
70	MP2C	Y	-28.997	3.5
71	MP2C	My	.01	3.5
72	MP2C	Mz	.017	3.5
73	MP3A	Y	-85.658	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
74	MP3A	My	.043	2
75	MP3A	Mz	0	2
76	MP1A	Y	-43.712	2
77	MP1A	My	.022	2
78	MP1A	Mz	0	2
79	MP1B	Y	-43.712	2
80	MP1B	My	-.011	2
81	MP1B	Mz	.019	2
82	MP1C	Y	-43.712	2
83	MP1C	My	-.011	2
84	MP1C	Mz	-.019	2
85	MP4A	Y	-44.177	2
86	MP4A	My	.022	2
87	MP4A	Mz	0	2
88	MP4B	Y	-44.177	2
89	MP4B	My	-.011	2
90	MP4B	Mz	.019	2
91	MP4C	Y	-44.177	2
92	MP4C	My	-.011	2
93	MP4C	Mz	-.019	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	1
2	MP3A	Z	-67.54	1
3	MP3A	Mx	0	1
4	MP3A	X	0	4
5	MP3A	Z	-67.54	4
6	MP3A	Mx	0	4
7	MP3B	X	0	1
8	MP3B	Z	-46.734	1
9	MP3B	Mx	.02	1
10	MP3B	X	0	4
11	MP3B	Z	-46.734	4
12	MP3B	Mx	.02	4
13	MP3C	X	0	1
14	MP3C	Z	-46.734	1
15	MP3C	Mx	-.02	1
16	MP3C	X	0	4
17	MP3C	Z	-46.734	4
18	MP3C	Mx	-.02	4
19	MP1A	X	0	.5
20	MP1A	Z	-94.797	.5
21	MP1A	Mx	0	.5
22	MP1A	X	0	4.5
23	MP1A	Z	-94.797	4.5
24	MP1A	Mx	0	4.5
25	MP1B	X	0	.5
26	MP1B	Z	-76.91	.5
27	MP1B	Mx	.033	.5
28	MP1B	X	0	4.5
29	MP1B	Z	-76.91	4.5
30	MP1B	Mx	.033	4.5
31	MP1C	X	0	.5
32	MP1C	Z	-76.91	.5
33	MP1C	Mx	-.033	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
34	MP1C	X	0	4.5
35	MP1C	Z	-76.91	4.5
36	MP1C	Mx	-.033	4.5
37	MP4A	X	0	.5
38	MP4A	Z	-94.797	.5
39	MP4A	Mx	0	.5
40	MP4A	X	0	4.5
41	MP4A	Z	-94.797	4.5
42	MP4A	Mx	0	4.5
43	MP4B	X	0	.5
44	MP4B	Z	-76.91	.5
45	MP4B	Mx	.033	.5
46	MP4B	X	0	4.5
47	MP4B	Z	-76.91	4.5
48	MP4B	Mx	.033	4.5
49	MP4C	X	0	.5
50	MP4C	Z	-76.91	.5
51	MP4C	Mx	-.033	.5
52	MP4C	X	0	4.5
53	MP4C	Z	-76.91	4.5
54	MP4C	Mx	-.033	4.5
55	MP2A	X	0	1.5
56	MP2A	Z	-75.958	1.5
57	MP2A	Mx	0	1.5
58	MP2A	X	0	3.5
59	MP2A	Z	-75.958	3.5
60	MP2A	Mx	0	3.5
61	MP2B	X	0	1.5
62	MP2B	Z	-40.931	1.5
63	MP2B	Mx	.024	1.5
64	MP2B	X	0	3.5
65	MP2B	Z	-40.931	3.5
66	MP2B	Mx	.024	3.5
67	MP2C	X	0	1.5
68	MP2C	Z	-40.931	1.5
69	MP2C	Mx	-.024	1.5
70	MP2C	X	0	3.5
71	MP2C	Z	-40.931	3.5
72	MP2C	Mx	-.024	3.5
73	MP3A	X	0	2
74	MP3A	Z	-127.064	2
75	MP3A	Mx	0	2
76	MP1A	X	0	2
77	MP1A	Z	-62.129	2
78	MP1A	Mx	0	2
79	MP1B	X	0	2
80	MP1B	Z	-46.797	2
81	MP1B	Mx	-.02	2
82	MP1C	X	0	2
83	MP1C	Z	-46.797	2
84	MP1C	Mx	.02	2
85	MP4A	X	0	2
86	MP4A	Z	-74.956	2
87	MP4A	Mx	0	2
88	MP4B	X	0	2
89	MP4B	Z	-57.069	2
90	MP4B	Mx	-.025	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
91	MP4C	X	0	2
92	MP4C	Z	-57.069	2
93	MP4C	Mx	.025	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	30.303	1
2	MP3A	Z	-52.485	1
3	MP3A	Mx	-.015	1
4	MP3A	X	30.303	4
5	MP3A	Z	-52.485	4
6	MP3A	Mx	-.015	4
7	MP3B	X	19.899	1
8	MP3B	Z	-34.467	1
9	MP3B	Mx	.02	1
10	MP3B	X	19.899	4
11	MP3B	Z	-34.467	4
12	MP3B	Mx	.02	4
13	MP3C	X	30.303	1
14	MP3C	Z	-52.485	1
15	MP3C	Mx	-.015	1
16	MP3C	X	30.303	4
17	MP3C	Z	-52.485	4
18	MP3C	Mx	-.015	4
19	MP1A	X	44.417	.5
20	MP1A	Z	-76.933	.5
21	MP1A	Mx	-.022	.5
22	MP1A	X	44.417	4.5
23	MP1A	Z	-76.933	4.5
24	MP1A	Mx	-.022	4.5
25	MP1B	X	35.474	.5
26	MP1B	Z	-61.442	.5
27	MP1B	Mx	.035	.5
28	MP1B	X	35.474	4.5
29	MP1B	Z	-61.442	4.5
30	MP1B	Mx	.035	4.5
31	MP1C	X	44.417	.5
32	MP1C	Z	-76.933	.5
33	MP1C	Mx	-.022	.5
34	MP1C	X	44.417	4.5
35	MP1C	Z	-76.933	4.5
36	MP1C	Mx	-.022	4.5
37	MP4A	X	44.417	.5
38	MP4A	Z	-76.933	.5
39	MP4A	Mx	-.022	.5
40	MP4A	X	44.417	4.5
41	MP4A	Z	-76.933	4.5
42	MP4A	Mx	-.022	4.5
43	MP4B	X	35.474	.5
44	MP4B	Z	-61.442	.5
45	MP4B	Mx	.035	.5
46	MP4B	X	35.474	4.5
47	MP4B	Z	-61.442	4.5
48	MP4B	Mx	.035	4.5
49	MP4C	X	44.417	.5
50	MP4C	Z	-76.933	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
51	MP4C	Mx	-.022	.5
52	MP4C	X	44.417	4.5
53	MP4C	Z	-76.933	4.5
54	MP4C	Mx	-.022	4.5
55	MP2A	X	32.141	1.5
56	MP2A	Z	-55.67	1.5
57	MP2A	Mx	-.021	1.5
58	MP2A	X	32.141	3.5
59	MP2A	Z	-55.67	3.5
60	MP2A	Mx	-.021	3.5
61	MP2B	X	14.628	1.5
62	MP2B	Z	-25.336	1.5
63	MP2B	Mx	.02	1.5
64	MP2B	X	14.628	3.5
65	MP2B	Z	-25.336	3.5
66	MP2B	Mx	.02	3.5
67	MP2C	X	32.141	1.5
68	MP2C	Z	-55.67	1.5
69	MP2C	Mx	-.021	1.5
70	MP2C	X	32.141	3.5
71	MP2C	Z	-55.67	3.5
72	MP2C	Mx	-.021	3.5
73	MP3A	X	59.724	2
74	MP3A	Z	-103.445	2
75	MP3A	Mx	.03	2
76	MP1A	X	28.509	2
77	MP1A	Z	-49.38	2
78	MP1A	Mx	.014	2
79	MP1B	X	20.843	2
80	MP1B	Z	-36.102	2
81	MP1B	Mx	-.021	2
82	MP1C	X	28.509	2
83	MP1C	Z	-49.38	2
84	MP1C	Mx	.014	2
85	MP4A	X	34.497	2
86	MP4A	Z	-59.75	2
87	MP4A	Mx	.017	2
88	MP4B	X	25.553	2
89	MP4B	Z	-44.259	2
90	MP4B	Mx	-.026	2
91	MP4C	X	34.497	2
92	MP4C	Z	-59.75	2
93	MP4C	Mx	.017	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	40.473	1
2	MP3A	Z	-23.367	1
3	MP3A	Mx	-.02	1
4	MP3A	X	40.473	4
5	MP3A	Z	-23.367	4
6	MP3A	Mx	-.02	4
7	MP3B	X	40.473	1
8	MP3B	Z	-23.367	1
9	MP3B	Mx	.02	1
10	MP3B	X	40.473	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP3B	Z	-23.367	4
12	MP3B	Mx	.02	4
13	MP3C	X	58.492	1
14	MP3C	Z	-33.77	1
15	MP3C	Mx	0	1
16	MP3C	X	58.492	4
17	MP3C	Z	-33.77	4
18	MP3C	Mx	0	4
19	MP1A	X	66.606	.5
20	MP1A	Z	-38.455	.5
21	MP1A	Mx	-.033	.5
22	MP1A	X	66.606	4.5
23	MP1A	Z	-38.455	4.5
24	MP1A	Mx	-.033	4.5
25	MP1B	X	66.606	.5
26	MP1B	Z	-38.455	.5
27	MP1B	Mx	.033	.5
28	MP1B	X	66.606	4.5
29	MP1B	Z	-38.455	4.5
30	MP1B	Mx	.033	4.5
31	MP1C	X	82.097	.5
32	MP1C	Z	-47.399	.5
33	MP1C	Mx	0	.5
34	MP1C	X	82.097	4.5
35	MP1C	Z	-47.399	4.5
36	MP1C	Mx	0	4.5
37	MP4A	X	66.606	.5
38	MP4A	Z	-38.455	.5
39	MP4A	Mx	-.033	.5
40	MP4A	X	66.606	4.5
41	MP4A	Z	-38.455	4.5
42	MP4A	Mx	-.033	4.5
43	MP4B	X	66.606	.5
44	MP4B	Z	-38.455	.5
45	MP4B	Mx	.033	.5
46	MP4B	X	66.606	4.5
47	MP4B	Z	-38.455	4.5
48	MP4B	Mx	.033	4.5
49	MP4C	X	82.097	.5
50	MP4C	Z	-47.399	.5
51	MP4C	Mx	0	.5
52	MP4C	X	82.097	4.5
53	MP4C	Z	-47.399	4.5
54	MP4C	Mx	0	4.5
55	MP2A	X	35.447	1.5
56	MP2A	Z	-20.465	1.5
57	MP2A	Mx	-.024	1.5
58	MP2A	X	35.447	3.5
59	MP2A	Z	-20.465	3.5
60	MP2A	Mx	-.024	3.5
61	MP2B	X	35.447	1.5
62	MP2B	Z	-20.465	1.5
63	MP2B	Mx	.024	1.5
64	MP2B	X	35.447	3.5
65	MP2B	Z	-20.465	3.5
66	MP2B	Mx	.024	3.5
67	MP2C	X	65.781	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP2C	Z	-37.979	1.5
69	MP2C	Mx	0	1.5
70	MP2C	X	65.781	3.5
71	MP2C	Z	-37.979	3.5
72	MP2C	Mx	0	3.5
73	MP3A	X	90.254	2
74	MP3A	Z	-52.108	2
75	MP3A	Mx	.045	2
76	MP1A	X	40.528	2
77	MP1A	Z	-23.399	2
78	MP1A	Mx	.02	2
79	MP1B	X	40.528	2
80	MP1B	Z	-23.399	2
81	MP1B	Mx	-.02	2
82	MP1C	X	53.805	2
83	MP1C	Z	-31.065	2
84	MP1C	Mx	0	2
85	MP4A	X	49.423	2
86	MP4A	Z	-28.534	2
87	MP4A	Mx	.025	2
88	MP4B	X	49.423	2
89	MP4B	Z	-28.534	2
90	MP4B	Mx	-.025	2
91	MP4C	X	64.914	2
92	MP4C	Z	-37.478	2
93	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	39.799	1
2	MP3A	Z	0	1
3	MP3A	Mx	-.02	1
4	MP3A	X	39.799	4
5	MP3A	Z	0	4
6	MP3A	Mx	-.02	4
7	MP3B	X	60.605	1
8	MP3B	Z	0	1
9	MP3B	Mx	.015	1
10	MP3B	X	60.605	4
11	MP3B	Z	0	4
12	MP3B	Mx	.015	4
13	MP3C	X	60.605	1
14	MP3C	Z	0	1
15	MP3C	Mx	.015	1
16	MP3C	X	60.605	4
17	MP3C	Z	0	4
18	MP3C	Mx	.015	4
19	MP1A	X	70.947	.5
20	MP1A	Z	0	.5
21	MP1A	Mx	-.035	.5
22	MP1A	X	70.947	4.5
23	MP1A	Z	0	4.5
24	MP1A	Mx	-.035	4.5
25	MP1B	X	88.835	.5
26	MP1B	Z	0	.5
27	MP1B	Mx	.022	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
28	MP1B	X	88.835	4.5
29	MP1B	Z	0	4.5
30	MP1B	Mx	.022	4.5
31	MP1C	X	88.835	.5
32	MP1C	Z	0	.5
33	MP1C	Mx	.022	.5
34	MP1C	X	88.835	4.5
35	MP1C	Z	0	4.5
36	MP1C	Mx	.022	4.5
37	MP4A	X	70.947	.5
38	MP4A	Z	0	.5
39	MP4A	Mx	-.035	.5
40	MP4A	X	70.947	4.5
41	MP4A	Z	0	4.5
42	MP4A	Mx	-.035	4.5
43	MP4B	X	88.835	.5
44	MP4B	Z	0	.5
45	MP4B	Mx	.022	.5
46	MP4B	X	88.835	4.5
47	MP4B	Z	0	4.5
48	MP4B	Mx	.022	4.5
49	MP4C	X	88.835	.5
50	MP4C	Z	0	.5
51	MP4C	Mx	.022	.5
52	MP4C	X	88.835	4.5
53	MP4C	Z	0	4.5
54	MP4C	Mx	.022	4.5
55	MP2A	X	29.255	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	-.02	1.5
58	MP2A	X	29.255	3.5
59	MP2A	Z	0	3.5
60	MP2A	Mx	-.02	3.5
61	MP2B	X	64.282	1.5
62	MP2B	Z	0	1.5
63	MP2B	Mx	.021	1.5
64	MP2B	X	64.282	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	.021	3.5
67	MP2C	X	64.282	1.5
68	MP2C	Z	0	1.5
69	MP2C	Mx	.021	1.5
70	MP2C	X	64.282	3.5
71	MP2C	Z	0	3.5
72	MP2C	Mx	.021	3.5
73	MP3A	X	96.601	2
74	MP3A	Z	0	2
75	MP3A	Mx	.048	2
76	MP1A	X	41.687	2
77	MP1A	Z	0	2
78	MP1A	Mx	.021	2
79	MP1B	X	57.019	2
80	MP1B	Z	0	2
81	MP1B	Mx	-.014	2
82	MP1C	X	57.019	2
83	MP1C	Z	0	2
84	MP1C	Mx	-.014	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
85	MP4A	X	51.106	2
86	MP4A	Z	0	2
87	MP4A	Mx	.026	2
88	MP4B	X	68.993	2
89	MP4B	Z	0	2
90	MP4B	Mx	-.017	2
91	MP4C	X	68.993	2
92	MP4C	Z	0	2
93	MP4C	Mx	-.017	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	40.473	1
2	MP3A	Z	23.367	1
3	MP3A	Mx	-.02	1
4	MP3A	X	40.473	4
5	MP3A	Z	23.367	4
6	MP3A	Mx	-.02	4
7	MP3B	X	58.492	1
8	MP3B	Z	33.77	1
9	MP3B	Mx	0	1
10	MP3B	X	58.492	4
11	MP3B	Z	33.77	4
12	MP3B	Mx	0	4
13	MP3C	X	40.473	1
14	MP3C	Z	23.367	1
15	MP3C	Mx	.02	1
16	MP3C	X	40.473	4
17	MP3C	Z	23.367	4
18	MP3C	Mx	.02	4
19	MP1A	X	66.606	.5
20	MP1A	Z	38.455	.5
21	MP1A	Mx	-.033	.5
22	MP1A	X	66.606	4.5
23	MP1A	Z	38.455	4.5
24	MP1A	Mx	-.033	4.5
25	MP1B	X	82.097	.5
26	MP1B	Z	47.399	.5
27	MP1B	Mx	0	.5
28	MP1B	X	82.097	4.5
29	MP1B	Z	47.399	4.5
30	MP1B	Mx	0	4.5
31	MP1C	X	66.606	.5
32	MP1C	Z	38.455	.5
33	MP1C	Mx	.033	.5
34	MP1C	X	66.606	4.5
35	MP1C	Z	38.455	4.5
36	MP1C	Mx	.033	4.5
37	MP4A	X	66.606	.5
38	MP4A	Z	38.455	.5
39	MP4A	Mx	-.033	.5
40	MP4A	X	66.606	4.5
41	MP4A	Z	38.455	4.5
42	MP4A	Mx	-.033	4.5
43	MP4B	X	82.097	.5
44	MP4B	Z	47.399	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
45	MP4B	Mx	0	.5
46	MP4B	X	82.097	4.5
47	MP4B	Z	47.399	4.5
48	MP4B	Mx	0	4.5
49	MP4C	X	66.606	.5
50	MP4C	Z	38.455	.5
51	MP4C	Mx	.033	.5
52	MP4C	X	66.606	4.5
53	MP4C	Z	38.455	4.5
54	MP4C	Mx	.033	4.5
55	MP2A	X	35.447	1.5
56	MP2A	Z	20.465	1.5
57	MP2A	Mx	-.024	1.5
58	MP2A	X	35.447	3.5
59	MP2A	Z	20.465	3.5
60	MP2A	Mx	-.024	3.5
61	MP2B	X	65.781	1.5
62	MP2B	Z	37.979	1.5
63	MP2B	Mx	0	1.5
64	MP2B	X	65.781	3.5
65	MP2B	Z	37.979	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	35.447	1.5
68	MP2C	Z	20.465	1.5
69	MP2C	Mx	.024	1.5
70	MP2C	X	35.447	3.5
71	MP2C	Z	20.465	3.5
72	MP2C	Mx	.024	3.5
73	MP3A	X	90.254	2
74	MP3A	Z	52.108	2
75	MP3A	Mx	.045	2
76	MP1A	X	40.528	2
77	MP1A	Z	23.399	2
78	MP1A	Mx	.02	2
79	MP1B	X	53.805	2
80	MP1B	Z	31.065	2
81	MP1B	Mx	0	2
82	MP1C	X	40.528	2
83	MP1C	Z	23.399	2
84	MP1C	Mx	-.02	2
85	MP4A	X	49.423	2
86	MP4A	Z	28.534	2
87	MP4A	Mx	.025	2
88	MP4B	X	64.914	2
89	MP4B	Z	37.478	2
90	MP4B	Mx	0	2
91	MP4C	X	49.423	2
92	MP4C	Z	28.534	2
93	MP4C	Mx	-.025	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP3A	X	30.303	1
2	MP3A	Z	52.485	1
3	MP3A	Mx	-.015	1
4	MP3A	X	30.303	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
5	MP3A	Z	52.485	4
6	MP3A	Mx	-.015	4
7	MP3B	X	30.303	1
8	MP3B	Z	52.485	1
9	MP3B	Mx	-.015	1
10	MP3B	X	30.303	4
11	MP3B	Z	52.485	4
12	MP3B	Mx	-.015	4
13	MP3C	X	19.899	1
14	MP3C	Z	34.467	1
15	MP3C	Mx	.02	1
16	MP3C	X	19.899	4
17	MP3C	Z	34.467	4
18	MP3C	Mx	.02	4
19	MP1A	X	44.417	.5
20	MP1A	Z	76.933	.5
21	MP1A	Mx	-.022	.5
22	MP1A	X	44.417	4.5
23	MP1A	Z	76.933	4.5
24	MP1A	Mx	-.022	4.5
25	MP1B	X	44.417	.5
26	MP1B	Z	76.933	.5
27	MP1B	Mx	-.022	.5
28	MP1B	X	44.417	4.5
29	MP1B	Z	76.933	4.5
30	MP1B	Mx	-.022	4.5
31	MP1C	X	35.474	.5
32	MP1C	Z	61.442	.5
33	MP1C	Mx	.035	.5
34	MP1C	X	35.474	4.5
35	MP1C	Z	61.442	4.5
36	MP1C	Mx	.035	4.5
37	MP4A	X	44.417	.5
38	MP4A	Z	76.933	.5
39	MP4A	Mx	-.022	.5
40	MP4A	X	44.417	4.5
41	MP4A	Z	76.933	4.5
42	MP4A	Mx	-.022	4.5
43	MP4B	X	44.417	.5
44	MP4B	Z	76.933	.5
45	MP4B	Mx	-.022	.5
46	MP4B	X	44.417	4.5
47	MP4B	Z	76.933	4.5
48	MP4B	Mx	-.022	4.5
49	MP4C	X	35.474	.5
50	MP4C	Z	61.442	.5
51	MP4C	Mx	.035	.5
52	MP4C	X	35.474	4.5
53	MP4C	Z	61.442	4.5
54	MP4C	Mx	.035	4.5
55	MP2A	X	32.141	1.5
56	MP2A	Z	55.67	1.5
57	MP2A	Mx	-.021	1.5
58	MP2A	X	32.141	3.5
59	MP2A	Z	55.67	3.5
60	MP2A	Mx	-.021	3.5
61	MP2B	X	32.141	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
62	MP2B	Z	55.67	1.5
63	MP2B	Mx	-.021	1.5
64	MP2B	X	32.141	3.5
65	MP2B	Z	55.67	3.5
66	MP2B	Mx	-.021	3.5
67	MP2C	X	14.628	1.5
68	MP2C	Z	25.336	1.5
69	MP2C	Mx	.02	1.5
70	MP2C	X	14.628	3.5
71	MP2C	Z	25.336	3.5
72	MP2C	Mx	.02	3.5
73	MP3A	X	59.724	2
74	MP3A	Z	103.445	2
75	MP3A	Mx	.03	2
76	MP1A	X	28.509	2
77	MP1A	Z	49.38	2
78	MP1A	Mx	.014	2
79	MP1B	X	28.509	2
80	MP1B	Z	49.38	2
81	MP1B	Mx	.014	2
82	MP1C	X	20.843	2
83	MP1C	Z	36.102	2
84	MP1C	Mx	-.021	2
85	MP4A	X	34.497	2
86	MP4A	Z	59.75	2
87	MP4A	Mx	.017	2
88	MP4B	X	34.497	2
89	MP4B	Z	59.75	2
90	MP4B	Mx	.017	2
91	MP4C	X	25.553	2
92	MP4C	Z	44.259	2
93	MP4C	Mx	-.026	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	1
2	MP3A	Z	67.54	1
3	MP3A	Mx	0	1
4	MP3A	X	0	4
5	MP3A	Z	67.54	4
6	MP3A	Mx	0	4
7	MP3B	X	0	1
8	MP3B	Z	46.734	1
9	MP3B	Mx	-.02	1
10	MP3B	X	0	4
11	MP3B	Z	46.734	4
12	MP3B	Mx	-.02	4
13	MP3C	X	0	1
14	MP3C	Z	46.734	1
15	MP3C	Mx	.02	1
16	MP3C	X	0	4
17	MP3C	Z	46.734	4
18	MP3C	Mx	.02	4
19	MP1A	X	0	.5
20	MP1A	Z	94.797	.5
21	MP1A	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
22	MP1A	X	0	4.5
23	MP1A	Z	94.797	4.5
24	MP1A	Mx	0	4.5
25	MP1B	X	0	.5
26	MP1B	Z	76.91	.5
27	MP1B	Mx	-.033	.5
28	MP1B	X	0	4.5
29	MP1B	Z	76.91	4.5
30	MP1B	Mx	-.033	4.5
31	MP1C	X	0	.5
32	MP1C	Z	76.91	.5
33	MP1C	Mx	.033	.5
34	MP1C	X	0	4.5
35	MP1C	Z	76.91	4.5
36	MP1C	Mx	.033	4.5
37	MP4A	X	0	.5
38	MP4A	Z	94.797	.5
39	MP4A	Mx	0	.5
40	MP4A	X	0	4.5
41	MP4A	Z	94.797	4.5
42	MP4A	Mx	0	4.5
43	MP4B	X	0	.5
44	MP4B	Z	76.91	.5
45	MP4B	Mx	-.033	.5
46	MP4B	X	0	4.5
47	MP4B	Z	76.91	4.5
48	MP4B	Mx	-.033	4.5
49	MP4C	X	0	.5
50	MP4C	Z	76.91	.5
51	MP4C	Mx	.033	.5
52	MP4C	X	0	4.5
53	MP4C	Z	76.91	4.5
54	MP4C	Mx	.033	4.5
55	MP2A	X	0	1.5
56	MP2A	Z	75.958	1.5
57	MP2A	Mx	0	1.5
58	MP2A	X	0	3.5
59	MP2A	Z	75.958	3.5
60	MP2A	Mx	0	3.5
61	MP2B	X	0	1.5
62	MP2B	Z	40.931	1.5
63	MP2B	Mx	-.024	1.5
64	MP2B	X	0	3.5
65	MP2B	Z	40.931	3.5
66	MP2B	Mx	-.024	3.5
67	MP2C	X	0	1.5
68	MP2C	Z	40.931	1.5
69	MP2C	Mx	.024	1.5
70	MP2C	X	0	3.5
71	MP2C	Z	40.931	3.5
72	MP2C	Mx	.024	3.5
73	MP3A	X	0	2
74	MP3A	Z	127.064	2
75	MP3A	Mx	0	2
76	MP1A	X	0	2
77	MP1A	Z	62.129	2
78	MP1A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
79	MP1B	X	0	2
80	MP1B	Z	46.797	2
81	MP1B	Mx	.02	2
82	MP1C	X	0	2
83	MP1C	Z	46.797	2
84	MP1C	Mx	-.02	2
85	MP4A	X	0	2
86	MP4A	Z	74.956	2
87	MP4A	Mx	0	2
88	MP4B	X	0	2
89	MP4B	Z	57.069	2
90	MP4B	Mx	.025	2
91	MP4C	X	0	2
92	MP4C	Z	57.069	2
93	MP4C	Mx	-.025	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-30.303	1
2	MP3A	Z	52.485	1
3	MP3A	Mx	.015	1
4	MP3A	X	-30.303	4
5	MP3A	Z	52.485	4
6	MP3A	Mx	.015	4
7	MP3B	X	-19.899	1
8	MP3B	Z	34.467	1
9	MP3B	Mx	-.02	1
10	MP3B	X	-19.899	4
11	MP3B	Z	34.467	4
12	MP3B	Mx	-.02	4
13	MP3C	X	-30.303	1
14	MP3C	Z	52.485	1
15	MP3C	Mx	.015	1
16	MP3C	X	-30.303	4
17	MP3C	Z	52.485	4
18	MP3C	Mx	.015	4
19	MP1A	X	-44.417	.5
20	MP1A	Z	76.933	.5
21	MP1A	Mx	.022	.5
22	MP1A	X	-44.417	4.5
23	MP1A	Z	76.933	4.5
24	MP1A	Mx	.022	4.5
25	MP1B	X	-35.474	.5
26	MP1B	Z	61.442	.5
27	MP1B	Mx	-.035	.5
28	MP1B	X	-35.474	4.5
29	MP1B	Z	61.442	4.5
30	MP1B	Mx	-.035	4.5
31	MP1C	X	-44.417	.5
32	MP1C	Z	76.933	.5
33	MP1C	Mx	.022	.5
34	MP1C	X	-44.417	4.5
35	MP1C	Z	76.933	4.5
36	MP1C	Mx	.022	4.5
37	MP4A	X	-44.417	.5
38	MP4A	Z	76.933	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
39	MP4A	Mx	.022	.5
40	MP4A	X	-44.417	4.5
41	MP4A	Z	76.933	4.5
42	MP4A	Mx	.022	4.5
43	MP4B	X	-35.474	.5
44	MP4B	Z	61.442	.5
45	MP4B	Mx	-.035	.5
46	MP4B	X	-35.474	4.5
47	MP4B	Z	61.442	4.5
48	MP4B	Mx	-.035	4.5
49	MP4C	X	-44.417	.5
50	MP4C	Z	76.933	.5
51	MP4C	Mx	.022	.5
52	MP4C	X	-44.417	4.5
53	MP4C	Z	76.933	4.5
54	MP4C	Mx	.022	4.5
55	MP2A	X	-32.141	1.5
56	MP2A	Z	55.67	1.5
57	MP2A	Mx	.021	1.5
58	MP2A	X	-32.141	3.5
59	MP2A	Z	55.67	3.5
60	MP2A	Mx	.021	3.5
61	MP2B	X	-14.628	1.5
62	MP2B	Z	25.336	1.5
63	MP2B	Mx	-.02	1.5
64	MP2B	X	-14.628	3.5
65	MP2B	Z	25.336	3.5
66	MP2B	Mx	-.02	3.5
67	MP2C	X	-32.141	1.5
68	MP2C	Z	55.67	1.5
69	MP2C	Mx	.021	1.5
70	MP2C	X	-32.141	3.5
71	MP2C	Z	55.67	3.5
72	MP2C	Mx	.021	3.5
73	MP3A	X	-59.724	2
74	MP3A	Z	103.445	2
75	MP3A	Mx	-.03	2
76	MP1A	X	-28.509	2
77	MP1A	Z	49.38	2
78	MP1A	Mx	-.014	2
79	MP1B	X	-20.843	2
80	MP1B	Z	36.102	2
81	MP1B	Mx	.021	2
82	MP1C	X	-28.509	2
83	MP1C	Z	49.38	2
84	MP1C	Mx	-.014	2
85	MP4A	X	-34.497	2
86	MP4A	Z	59.75	2
87	MP4A	Mx	-.017	2
88	MP4B	X	-25.553	2
89	MP4B	Z	44.259	2
90	MP4B	Mx	.026	2
91	MP4C	X	-34.497	2
92	MP4C	Z	59.75	2
93	MP4C	Mx	-.017	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-40.473	1
2	MP3A	Z	23.367	1
3	MP3A	Mx	.02	1
4	MP3A	X	-40.473	4
5	MP3A	Z	23.367	4
6	MP3A	Mx	.02	4
7	MP3B	X	-40.473	1
8	MP3B	Z	23.367	1
9	MP3B	Mx	-.02	1
10	MP3B	X	-40.473	4
11	MP3B	Z	23.367	4
12	MP3B	Mx	-.02	4
13	MP3C	X	-58.492	1
14	MP3C	Z	33.77	1
15	MP3C	Mx	0	1
16	MP3C	X	-58.492	4
17	MP3C	Z	33.77	4
18	MP3C	Mx	0	4
19	MP1A	X	-66.606	.5
20	MP1A	Z	38.455	.5
21	MP1A	Mx	.033	.5
22	MP1A	X	-66.606	4.5
23	MP1A	Z	38.455	4.5
24	MP1A	Mx	.033	4.5
25	MP1B	X	-66.606	.5
26	MP1B	Z	38.455	.5
27	MP1B	Mx	-.033	.5
28	MP1B	X	-66.606	4.5
29	MP1B	Z	38.455	4.5
30	MP1B	Mx	-.033	4.5
31	MP1C	X	-82.097	.5
32	MP1C	Z	47.399	.5
33	MP1C	Mx	0	.5
34	MP1C	X	-82.097	4.5
35	MP1C	Z	47.399	4.5
36	MP1C	Mx	0	4.5
37	MP4A	X	-66.606	.5
38	MP4A	Z	38.455	.5
39	MP4A	Mx	.033	.5
40	MP4A	X	-66.606	4.5
41	MP4A	Z	38.455	4.5
42	MP4A	Mx	.033	4.5
43	MP4B	X	-66.606	.5
44	MP4B	Z	38.455	.5
45	MP4B	Mx	-.033	.5
46	MP4B	X	-66.606	4.5
47	MP4B	Z	38.455	4.5
48	MP4B	Mx	-.033	4.5
49	MP4C	X	-82.097	.5
50	MP4C	Z	47.399	.5
51	MP4C	Mx	0	.5
52	MP4C	X	-82.097	4.5
53	MP4C	Z	47.399	4.5
54	MP4C	Mx	0	4.5
55	MP2A	X	-35.447	1.5
56	MP2A	Z	20.465	1.5
57	MP2A	Mx	.024	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2A	X	-35.447	3.5
59	MP2A	Z	20.465	3.5
60	MP2A	Mx	.024	3.5
61	MP2B	X	-35.447	1.5
62	MP2B	Z	20.465	1.5
63	MP2B	Mx	-.024	1.5
64	MP2B	X	-35.447	3.5
65	MP2B	Z	20.465	3.5
66	MP2B	Mx	-.024	3.5
67	MP2C	X	-65.781	1.5
68	MP2C	Z	37.979	1.5
69	MP2C	Mx	0	1.5
70	MP2C	X	-65.781	3.5
71	MP2C	Z	37.979	3.5
72	MP2C	Mx	0	3.5
73	MP3A	X	-90.254	2
74	MP3A	Z	52.108	2
75	MP3A	Mx	-.045	2
76	MP1A	X	-40.528	2
77	MP1A	Z	23.399	2
78	MP1A	Mx	-.02	2
79	MP1B	X	-40.528	2
80	MP1B	Z	23.399	2
81	MP1B	Mx	.02	2
82	MP1C	X	-53.805	2
83	MP1C	Z	31.065	2
84	MP1C	Mx	0	2
85	MP4A	X	-49.423	2
86	MP4A	Z	28.534	2
87	MP4A	Mx	-.025	2
88	MP4B	X	-49.423	2
89	MP4B	Z	28.534	2
90	MP4B	Mx	.025	2
91	MP4C	X	-64.914	2
92	MP4C	Z	37.478	2
93	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-39.799	1
2	MP3A	Z	0	1
3	MP3A	Mx	.02	1
4	MP3A	X	-39.799	4
5	MP3A	Z	0	4
6	MP3A	Mx	.02	4
7	MP3B	X	-60.605	1
8	MP3B	Z	0	1
9	MP3B	Mx	-.015	1
10	MP3B	X	-60.605	4
11	MP3B	Z	0	4
12	MP3B	Mx	-.015	4
13	MP3C	X	-60.605	1
14	MP3C	Z	0	1
15	MP3C	Mx	-.015	1
16	MP3C	X	-60.605	4
17	MP3C	Z	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP3C	Mx	-.015	4
19	MP1A	X	-70.947	.5
20	MP1A	Z	0	.5
21	MP1A	Mx	.035	.5
22	MP1A	X	-70.947	4.5
23	MP1A	Z	0	4.5
24	MP1A	Mx	.035	4.5
25	MP1B	X	-88.835	.5
26	MP1B	Z	0	.5
27	MP1B	Mx	-.022	.5
28	MP1B	X	-88.835	4.5
29	MP1B	Z	0	4.5
30	MP1B	Mx	-.022	4.5
31	MP1C	X	-88.835	.5
32	MP1C	Z	0	.5
33	MP1C	Mx	-.022	.5
34	MP1C	X	-88.835	4.5
35	MP1C	Z	0	4.5
36	MP1C	Mx	-.022	4.5
37	MP4A	X	-70.947	.5
38	MP4A	Z	0	.5
39	MP4A	Mx	.035	.5
40	MP4A	X	-70.947	4.5
41	MP4A	Z	0	4.5
42	MP4A	Mx	.035	4.5
43	MP4B	X	-88.835	.5
44	MP4B	Z	0	.5
45	MP4B	Mx	-.022	.5
46	MP4B	X	-88.835	4.5
47	MP4B	Z	0	4.5
48	MP4B	Mx	-.022	4.5
49	MP4C	X	-88.835	.5
50	MP4C	Z	0	.5
51	MP4C	Mx	-.022	.5
52	MP4C	X	-88.835	4.5
53	MP4C	Z	0	4.5
54	MP4C	Mx	-.022	4.5
55	MP2A	X	-29.255	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	.02	1.5
58	MP2A	X	-29.255	3.5
59	MP2A	Z	0	3.5
60	MP2A	Mx	.02	3.5
61	MP2B	X	-64.282	1.5
62	MP2B	Z	0	1.5
63	MP2B	Mx	-.021	1.5
64	MP2B	X	-64.282	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	-.021	3.5
67	MP2C	X	-64.282	1.5
68	MP2C	Z	0	1.5
69	MP2C	Mx	-.021	1.5
70	MP2C	X	-64.282	3.5
71	MP2C	Z	0	3.5
72	MP2C	Mx	-.021	3.5
73	MP3A	X	-96.601	2
74	MP3A	Z	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	MP3A	Mx	-.048	2
76	MP1A	X	-41.687	2
77	MP1A	Z	0	2
78	MP1A	Mx	-.021	2
79	MP1B	X	-57.019	2
80	MP1B	Z	0	2
81	MP1B	Mx	.014	2
82	MP1C	X	-57.019	2
83	MP1C	Z	0	2
84	MP1C	Mx	.014	2
85	MP4A	X	-51.106	2
86	MP4A	Z	0	2
87	MP4A	Mx	-.026	2
88	MP4B	X	-68.993	2
89	MP4B	Z	0	2
90	MP4B	Mx	.017	2
91	MP4C	X	-68.993	2
92	MP4C	Z	0	2
93	MP4C	Mx	.017	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-40.473	1
2	MP3A	Z	-23.367	1
3	MP3A	Mx	.02	1
4	MP3A	X	-40.473	4
5	MP3A	Z	-23.367	4
6	MP3A	Mx	.02	4
7	MP3B	X	-58.492	1
8	MP3B	Z	-33.77	1
9	MP3B	Mx	0	1
10	MP3B	X	-58.492	4
11	MP3B	Z	-33.77	4
12	MP3B	Mx	0	4
13	MP3C	X	-40.473	1
14	MP3C	Z	-23.367	1
15	MP3C	Mx	-.02	1
16	MP3C	X	-40.473	4
17	MP3C	Z	-23.367	4
18	MP3C	Mx	-.02	4
19	MP1A	X	-66.606	.5
20	MP1A	Z	-38.455	.5
21	MP1A	Mx	.033	.5
22	MP1A	X	-66.606	4.5
23	MP1A	Z	-38.455	4.5
24	MP1A	Mx	.033	4.5
25	MP1B	X	-82.097	.5
26	MP1B	Z	-47.399	.5
27	MP1B	Mx	0	.5
28	MP1B	X	-82.097	4.5
29	MP1B	Z	-47.399	4.5
30	MP1B	Mx	0	4.5
31	MP1C	X	-66.606	.5
32	MP1C	Z	-38.455	.5
33	MP1C	Mx	-.033	.5
34	MP1C	X	-66.606	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
35	MP1C	Z	-38.455	4.5
36	MP1C	Mx	-.033	4.5
37	MP4A	X	-66.606	.5
38	MP4A	Z	-38.455	.5
39	MP4A	Mx	.033	.5
40	MP4A	X	-66.606	4.5
41	MP4A	Z	-38.455	4.5
42	MP4A	Mx	.033	4.5
43	MP4B	X	-82.097	.5
44	MP4B	Z	-47.399	.5
45	MP4B	Mx	0	.5
46	MP4B	X	-82.097	4.5
47	MP4B	Z	-47.399	4.5
48	MP4B	Mx	0	4.5
49	MP4C	X	-66.606	.5
50	MP4C	Z	-38.455	.5
51	MP4C	Mx	-.033	.5
52	MP4C	X	-66.606	4.5
53	MP4C	Z	-38.455	4.5
54	MP4C	Mx	-.033	4.5
55	MP2A	X	-35.447	1.5
56	MP2A	Z	-20.465	1.5
57	MP2A	Mx	.024	1.5
58	MP2A	X	-35.447	3.5
59	MP2A	Z	-20.465	3.5
60	MP2A	Mx	.024	3.5
61	MP2B	X	-65.781	1.5
62	MP2B	Z	-37.979	1.5
63	MP2B	Mx	0	1.5
64	MP2B	X	-65.781	3.5
65	MP2B	Z	-37.979	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	-35.447	1.5
68	MP2C	Z	-20.465	1.5
69	MP2C	Mx	-.024	1.5
70	MP2C	X	-35.447	3.5
71	MP2C	Z	-20.465	3.5
72	MP2C	Mx	-.024	3.5
73	MP3A	X	-90.254	2
74	MP3A	Z	-52.108	2
75	MP3A	Mx	-.045	2
76	MP1A	X	-40.528	2
77	MP1A	Z	-23.399	2
78	MP1A	Mx	-.02	2
79	MP1B	X	-53.805	2
80	MP1B	Z	-31.065	2
81	MP1B	Mx	0	2
82	MP1C	X	-40.528	2
83	MP1C	Z	-23.399	2
84	MP1C	Mx	.02	2
85	MP4A	X	-49.423	2
86	MP4A	Z	-28.534	2
87	MP4A	Mx	-.025	2
88	MP4B	X	-64.914	2
89	MP4B	Z	-37.478	2
90	MP4B	Mx	0	2
91	MP4C	X	-49.423	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
92	MP4C	Z	-28.534	2
93	MP4C	Mx	.025	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-30.303	1
2	MP3A	Z	-52.485	1
3	MP3A	Mx	.015	1
4	MP3A	X	-30.303	4
5	MP3A	Z	-52.485	4
6	MP3A	Mx	.015	4
7	MP3B	X	-30.303	1
8	MP3B	Z	-52.485	1
9	MP3B	Mx	.015	1
10	MP3B	X	-30.303	4
11	MP3B	Z	-52.485	4
12	MP3B	Mx	.015	4
13	MP3C	X	-19.899	1
14	MP3C	Z	-34.467	1
15	MP3C	Mx	-.02	1
16	MP3C	X	-19.899	4
17	MP3C	Z	-34.467	4
18	MP3C	Mx	-.02	4
19	MP1A	X	-44.417	.5
20	MP1A	Z	-76.933	.5
21	MP1A	Mx	.022	.5
22	MP1A	X	-44.417	4.5
23	MP1A	Z	-76.933	4.5
24	MP1A	Mx	.022	4.5
25	MP1B	X	-44.417	.5
26	MP1B	Z	-76.933	.5
27	MP1B	Mx	.022	.5
28	MP1B	X	-44.417	4.5
29	MP1B	Z	-76.933	4.5
30	MP1B	Mx	.022	4.5
31	MP1C	X	-35.474	.5
32	MP1C	Z	-61.442	.5
33	MP1C	Mx	-.035	.5
34	MP1C	X	-35.474	4.5
35	MP1C	Z	-61.442	4.5
36	MP1C	Mx	-.035	4.5
37	MP4A	X	-44.417	.5
38	MP4A	Z	-76.933	.5
39	MP4A	Mx	.022	.5
40	MP4A	X	-44.417	4.5
41	MP4A	Z	-76.933	4.5
42	MP4A	Mx	.022	4.5
43	MP4B	X	-44.417	.5
44	MP4B	Z	-76.933	.5
45	MP4B	Mx	.022	.5
46	MP4B	X	-44.417	4.5
47	MP4B	Z	-76.933	4.5
48	MP4B	Mx	.022	4.5
49	MP4C	X	-35.474	.5
50	MP4C	Z	-61.442	.5
51	MP4C	Mx	-.035	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
52	MP4C	X	-35.474	4.5
53	MP4C	Z	-61.442	4.5
54	MP4C	Mx	-.035	4.5
55	MP2A	X	-32.141	1.5
56	MP2A	Z	-55.67	1.5
57	MP2A	Mx	.021	1.5
58	MP2A	X	-32.141	3.5
59	MP2A	Z	-55.67	3.5
60	MP2A	Mx	.021	3.5
61	MP2B	X	-32.141	1.5
62	MP2B	Z	-55.67	1.5
63	MP2B	Mx	.021	1.5
64	MP2B	X	-32.141	3.5
65	MP2B	Z	-55.67	3.5
66	MP2B	Mx	.021	3.5
67	MP2C	X	-14.628	1.5
68	MP2C	Z	-25.336	1.5
69	MP2C	Mx	-.02	1.5
70	MP2C	X	-14.628	3.5
71	MP2C	Z	-25.336	3.5
72	MP2C	Mx	-.02	3.5
73	MP3A	X	-59.724	2
74	MP3A	Z	-103.445	2
75	MP3A	Mx	-.03	2
76	MP1A	X	-28.509	2
77	MP1A	Z	-49.38	2
78	MP1A	Mx	-.014	2
79	MP1B	X	-28.509	2
80	MP1B	Z	-49.38	2
81	MP1B	Mx	-.014	2
82	MP1C	X	-20.843	2
83	MP1C	Z	-36.102	2
84	MP1C	Mx	.021	2
85	MP4A	X	-34.497	2
86	MP4A	Z	-59.75	2
87	MP4A	Mx	-.017	2
88	MP4B	X	-34.497	2
89	MP4B	Z	-59.75	2
90	MP4B	Mx	-.017	2
91	MP4C	X	-25.553	2
92	MP4C	Z	-44.259	2
93	MP4C	Mx	.026	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	1
2	MP3A	Z	-13.69	1
3	MP3A	Mx	0	1
4	MP3A	X	0	4
5	MP3A	Z	-13.69	4
6	MP3A	Mx	0	4
7	MP3B	X	0	1
8	MP3B	Z	-9.997	1
9	MP3B	Mx	.004	1
10	MP3B	X	0	4
11	MP3B	Z	-9.997	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP3B	Mx	.004	4
13	MP3C	X	0	1
14	MP3C	Z	-9.997	1
15	MP3C	Mx	-.004	1
16	MP3C	X	0	4
17	MP3C	Z	-9.997	4
18	MP3C	Mx	-.004	4
19	MP1A	X	0	.5
20	MP1A	Z	-37.373	.5
21	MP1A	Mx	0	.5
22	MP1A	X	0	4.5
23	MP1A	Z	-37.373	4.5
24	MP1A	Mx	0	4.5
25	MP1B	X	0	.5
26	MP1B	Z	-30.539	.5
27	MP1B	Mx	.013	.5
28	MP1B	X	0	4.5
29	MP1B	Z	-30.539	4.5
30	MP1B	Mx	.013	4.5
31	MP1C	X	0	.5
32	MP1C	Z	-30.539	.5
33	MP1C	Mx	-.013	.5
34	MP1C	X	0	4.5
35	MP1C	Z	-30.539	4.5
36	MP1C	Mx	-.013	4.5
37	MP4A	X	0	.5
38	MP4A	Z	-37.373	.5
39	MP4A	Mx	0	.5
40	MP4A	X	0	4.5
41	MP4A	Z	-37.373	4.5
42	MP4A	Mx	0	4.5
43	MP4B	X	0	.5
44	MP4B	Z	-30.539	.5
45	MP4B	Mx	.013	.5
46	MP4B	X	0	4.5
47	MP4B	Z	-30.539	4.5
48	MP4B	Mx	.013	4.5
49	MP4C	X	0	.5
50	MP4C	Z	-30.539	.5
51	MP4C	Mx	-.013	.5
52	MP4C	X	0	4.5
53	MP4C	Z	-30.539	4.5
54	MP4C	Mx	-.013	4.5
55	MP2A	X	0	1.5
56	MP2A	Z	-15.03	1.5
57	MP2A	Mx	0	1.5
58	MP2A	X	0	3.5
59	MP2A	Z	-15.03	3.5
60	MP2A	Mx	0	3.5
61	MP2B	X	0	1.5
62	MP2B	Z	-8.507	1.5
63	MP2B	Mx	.005	1.5
64	MP2B	X	0	3.5
65	MP2B	Z	-8.507	3.5
66	MP2B	Mx	.005	3.5
67	MP2C	X	0	1.5
68	MP2C	Z	-8.507	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
69	MP2C	Mx	-.005	1.5
70	MP2C	X	0	3.5
71	MP2C	Z	-8.507	3.5
72	MP2C	Mx	-.005	3.5
73	MP3A	X	0	2
74	MP3A	Z	-31.906	2
75	MP3A	Mx	0	2
76	MP1A	X	0	2
77	MP1A	Z	-15.507	2
78	MP1A	Mx	0	2
79	MP1B	X	0	2
80	MP1B	Z	-11.959	2
81	MP1B	Mx	-.005	2
82	MP1C	X	0	2
83	MP1C	Z	-11.959	2
84	MP1C	Mx	.005	2
85	MP4A	X	0	2
86	MP4A	Z	-15.507	2
87	MP4A	Mx	0	2
88	MP4B	X	0	2
89	MP4B	Z	-12.101	2
90	MP4B	Mx	-.005	2
91	MP4C	X	0	2
92	MP4C	Z	-12.101	2
93	MP4C	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	6.229	1
2	MP3A	Z	-10.79	1
3	MP3A	Mx	-.003	1
4	MP3A	X	6.229	4
5	MP3A	Z	-10.79	4
6	MP3A	Mx	-.003	4
7	MP3B	X	4.383	1
8	MP3B	Z	-7.592	1
9	MP3B	Mx	.004	1
10	MP3B	X	4.383	4
11	MP3B	Z	-7.592	4
12	MP3B	Mx	.004	4
13	MP3C	X	6.229	1
14	MP3C	Z	-10.79	1
15	MP3C	Mx	-.003	1
16	MP3C	X	6.229	4
17	MP3C	Z	-10.79	4
18	MP3C	Mx	-.003	4
19	MP1A	X	17.547	.5
20	MP1A	Z	-30.393	.5
21	MP1A	Mx	-.009	.5
22	MP1A	X	17.547	4.5
23	MP1A	Z	-30.393	4.5
24	MP1A	Mx	-.009	4.5
25	MP1B	X	14.13	.5
26	MP1B	Z	-24.474	.5
27	MP1B	Mx	.014	.5
28	MP1B	X	14.13	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	-24.474	4.5
30	MP1B	Mx	.014	4.5
31	MP1C	X	17.547	.5
32	MP1C	Z	-30.393	.5
33	MP1C	Mx	-.009	.5
34	MP1C	X	17.547	4.5
35	MP1C	Z	-30.393	4.5
36	MP1C	Mx	-.009	4.5
37	MP4A	X	17.547	.5
38	MP4A	Z	-30.393	.5
39	MP4A	Mx	-.009	.5
40	MP4A	X	17.547	4.5
41	MP4A	Z	-30.393	4.5
42	MP4A	Mx	-.009	4.5
43	MP4B	X	14.13	.5
44	MP4B	Z	-24.474	.5
45	MP4B	Mx	.014	.5
46	MP4B	X	14.13	4.5
47	MP4B	Z	-24.474	4.5
48	MP4B	Mx	.014	4.5
49	MP4C	X	17.547	.5
50	MP4C	Z	-30.393	.5
51	MP4C	Mx	-.009	.5
52	MP4C	X	17.547	4.5
53	MP4C	Z	-30.393	4.5
54	MP4C	Mx	-.009	4.5
55	MP2A	X	6.428	1.5
56	MP2A	Z	-11.133	1.5
57	MP2A	Mx	-.004	1.5
58	MP2A	X	6.428	3.5
59	MP2A	Z	-11.133	3.5
60	MP2A	Mx	-.004	3.5
61	MP2B	X	3.166	1.5
62	MP2B	Z	-5.484	1.5
63	MP2B	Mx	.004	1.5
64	MP2B	X	3.166	3.5
65	MP2B	Z	-5.484	3.5
66	MP2B	Mx	.004	3.5
67	MP2C	X	6.428	1.5
68	MP2C	Z	-11.133	1.5
69	MP2C	Mx	-.004	1.5
70	MP2C	X	6.428	3.5
71	MP2C	Z	-11.133	3.5
72	MP2C	Mx	-.004	3.5
73	MP3A	X	15.082	2
74	MP3A	Z	-26.123	2
75	MP3A	Mx	.008	2
76	MP1A	X	7.162	2
77	MP1A	Z	-12.405	2
78	MP1A	Mx	.004	2
79	MP1B	X	5.388	2
80	MP1B	Z	-9.333	2
81	MP1B	Mx	-.005	2
82	MP1C	X	7.162	2
83	MP1C	Z	-12.405	2
84	MP1C	Mx	.004	2
85	MP4A	X	7.186	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
86	MP4A	Z	-12.446	2
87	MP4A	Mx	.004	2
88	MP4B	X	5.483	2
89	MP4B	Z	-9.497	2
90	MP4B	Mx	-.005	2
91	MP4C	X	7.186	2
92	MP4C	Z	-12.446	2
93	MP4C	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	8.658	1
2	MP3A	Z	-4.999	1
3	MP3A	Mx	-.004	1
4	MP3A	X	8.658	4
5	MP3A	Z	-4.999	4
6	MP3A	Mx	-.004	4
7	MP3B	X	8.658	1
8	MP3B	Z	-4.999	1
9	MP3B	Mx	.004	1
10	MP3B	X	8.658	4
11	MP3B	Z	-4.999	4
12	MP3B	Mx	.004	4
13	MP3C	X	11.856	1
14	MP3C	Z	-6.845	1
15	MP3C	Mx	0	1
16	MP3C	X	11.856	4
17	MP3C	Z	-6.845	4
18	MP3C	Mx	0	4
19	MP1A	X	26.447	.5
20	MP1A	Z	-15.269	.5
21	MP1A	Mx	-.013	.5
22	MP1A	X	26.447	4.5
23	MP1A	Z	-15.269	4.5
24	MP1A	Mx	-.013	4.5
25	MP1B	X	26.447	.5
26	MP1B	Z	-15.269	.5
27	MP1B	Mx	.013	.5
28	MP1B	X	26.447	4.5
29	MP1B	Z	-15.269	4.5
30	MP1B	Mx	.013	4.5
31	MP1C	X	32.366	.5
32	MP1C	Z	-18.687	.5
33	MP1C	Mx	0	.5
34	MP1C	X	32.366	4.5
35	MP1C	Z	-18.687	4.5
36	MP1C	Mx	0	4.5
37	MP4A	X	26.447	.5
38	MP4A	Z	-15.269	.5
39	MP4A	Mx	-.013	.5
40	MP4A	X	26.447	4.5
41	MP4A	Z	-15.269	4.5
42	MP4A	Mx	-.013	4.5
43	MP4B	X	26.447	.5
44	MP4B	Z	-15.269	.5
45	MP4B	Mx	.013	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
46	MP4B	X	26.447	4.5
47	MP4B	Z	-15.269	4.5
48	MP4B	Mx	.013	4.5
49	MP4C	X	32.366	.5
50	MP4C	Z	-18.687	.5
51	MP4C	Mx	0	.5
52	MP4C	X	32.366	4.5
53	MP4C	Z	-18.687	4.5
54	MP4C	Mx	0	4.5
55	MP2A	X	7.367	1.5
56	MP2A	Z	-4.253	1.5
57	MP2A	Mx	-.005	1.5
58	MP2A	X	7.367	3.5
59	MP2A	Z	-4.253	3.5
60	MP2A	Mx	-.005	3.5
61	MP2B	X	7.367	1.5
62	MP2B	Z	-4.253	1.5
63	MP2B	Mx	.005	1.5
64	MP2B	X	7.367	3.5
65	MP2B	Z	-4.253	3.5
66	MP2B	Mx	.005	3.5
67	MP2C	X	13.016	1.5
68	MP2C	Z	-7.515	1.5
69	MP2C	Mx	0	1.5
70	MP2C	X	13.016	3.5
71	MP2C	Z	-7.515	3.5
72	MP2C	Mx	0	3.5
73	MP3A	X	23.105	2
74	MP3A	Z	-13.34	2
75	MP3A	Mx	.012	2
76	MP1A	X	10.357	2
77	MP1A	Z	-5.98	2
78	MP1A	Mx	.005	2
79	MP1B	X	10.357	2
80	MP1B	Z	-5.98	2
81	MP1B	Mx	-.005	2
82	MP1C	X	13.43	2
83	MP1C	Z	-7.754	2
84	MP1C	Mx	0	2
85	MP4A	X	10.48	2
86	MP4A	Z	-6.051	2
87	MP4A	Mx	.005	2
88	MP4B	X	10.48	2
89	MP4B	Z	-6.051	2
90	MP4B	Mx	-.005	2
91	MP4C	X	13.43	2
92	MP4C	Z	-7.754	2
93	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	8.766	1
2	MP3A	Z	0	1
3	MP3A	Mx	-.004	1
4	MP3A	X	8.766	4
5	MP3A	Z	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
6	MP3A	Mx	-.004	4
7	MP3B	X	12.459	1
8	MP3B	Z	0	1
9	MP3B	Mx	.003	1
10	MP3B	X	12.459	4
11	MP3B	Z	0	4
12	MP3B	Mx	.003	4
13	MP3C	X	12.459	1
14	MP3C	Z	0	1
15	MP3C	Mx	.003	1
16	MP3C	X	12.459	4
17	MP3C	Z	0	4
18	MP3C	Mx	.003	4
19	MP1A	X	28.261	.5
20	MP1A	Z	0	.5
21	MP1A	Mx	-.014	.5
22	MP1A	X	28.261	4.5
23	MP1A	Z	0	4.5
24	MP1A	Mx	-.014	4.5
25	MP1B	X	35.095	.5
26	MP1B	Z	0	.5
27	MP1B	Mx	.009	.5
28	MP1B	X	35.095	4.5
29	MP1B	Z	0	4.5
30	MP1B	Mx	.009	4.5
31	MP1C	X	35.095	.5
32	MP1C	Z	0	.5
33	MP1C	Mx	.009	.5
34	MP1C	X	35.095	4.5
35	MP1C	Z	0	4.5
36	MP1C	Mx	.009	4.5
37	MP4A	X	28.261	.5
38	MP4A	Z	0	.5
39	MP4A	Mx	-.014	.5
40	MP4A	X	28.261	4.5
41	MP4A	Z	0	4.5
42	MP4A	Mx	-.014	4.5
43	MP4B	X	35.095	.5
44	MP4B	Z	0	.5
45	MP4B	Mx	.009	.5
46	MP4B	X	35.095	4.5
47	MP4B	Z	0	4.5
48	MP4B	Mx	.009	4.5
49	MP4C	X	35.095	.5
50	MP4C	Z	0	.5
51	MP4C	Mx	.009	.5
52	MP4C	X	35.095	4.5
53	MP4C	Z	0	4.5
54	MP4C	Mx	.009	4.5
55	MP2A	X	6.333	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	-.004	1.5
58	MP2A	X	6.333	3.5
59	MP2A	Z	0	3.5
60	MP2A	Mx	-.004	3.5
61	MP2B	X	12.856	1.5
62	MP2B	Z	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP2B	Mx	.004	1.5
64	MP2B	X	12.856	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	.004	3.5
67	MP2C	X	12.856	1.5
68	MP2C	Z	0	1.5
69	MP2C	Mx	.004	1.5
70	MP2C	X	12.856	3.5
71	MP2C	Z	0	3.5
72	MP2C	Mx	.004	3.5
73	MP3A	X	24.937	2
74	MP3A	Z	0	2
75	MP3A	Mx	.012	2
76	MP1A	X	10.777	2
77	MP1A	Z	0	2
78	MP1A	Mx	.005	2
79	MP1B	X	14.324	2
80	MP1B	Z	0	2
81	MP1B	Mx	-.004	2
82	MP1C	X	14.324	2
83	MP1C	Z	0	2
84	MP1C	Mx	-.004	2
85	MP4A	X	10.966	2
86	MP4A	Z	0	2
87	MP4A	Mx	.005	2
88	MP4B	X	14.372	2
89	MP4B	Z	0	2
90	MP4B	Mx	-.004	2
91	MP4C	X	14.372	2
92	MP4C	Z	0	2
93	MP4C	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	8.658	1
2	MP3A	Z	4.999	1
3	MP3A	Mx	-.004	1
4	MP3A	X	8.658	4
5	MP3A	Z	4.999	4
6	MP3A	Mx	-.004	4
7	MP3B	X	11.856	1
8	MP3B	Z	6.845	1
9	MP3B	Mx	0	1
10	MP3B	X	11.856	4
11	MP3B	Z	6.845	4
12	MP3B	Mx	0	4
13	MP3C	X	8.658	1
14	MP3C	Z	4.999	1
15	MP3C	Mx	.004	1
16	MP3C	X	8.658	4
17	MP3C	Z	4.999	4
18	MP3C	Mx	.004	4
19	MP1A	X	26.447	.5
20	MP1A	Z	15.269	.5
21	MP1A	Mx	-.013	.5
22	MP1A	X	26.447	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
23	MP1A	Z	15.269	4.5
24	MP1A	Mx	-.013	4.5
25	MP1B	X	32.366	.5
26	MP1B	Z	18.687	.5
27	MP1B	Mx	0	.5
28	MP1B	X	32.366	4.5
29	MP1B	Z	18.687	4.5
30	MP1B	Mx	0	4.5
31	MP1C	X	26.447	.5
32	MP1C	Z	15.269	.5
33	MP1C	Mx	.013	.5
34	MP1C	X	26.447	4.5
35	MP1C	Z	15.269	4.5
36	MP1C	Mx	.013	4.5
37	MP4A	X	26.447	.5
38	MP4A	Z	15.269	.5
39	MP4A	Mx	-.013	.5
40	MP4A	X	26.447	4.5
41	MP4A	Z	15.269	4.5
42	MP4A	Mx	-.013	4.5
43	MP4B	X	32.366	.5
44	MP4B	Z	18.687	.5
45	MP4B	Mx	0	.5
46	MP4B	X	32.366	4.5
47	MP4B	Z	18.687	4.5
48	MP4B	Mx	0	4.5
49	MP4C	X	26.447	.5
50	MP4C	Z	15.269	.5
51	MP4C	Mx	.013	.5
52	MP4C	X	26.447	4.5
53	MP4C	Z	15.269	4.5
54	MP4C	Mx	.013	4.5
55	MP2A	X	7.367	1.5
56	MP2A	Z	4.253	1.5
57	MP2A	Mx	-.005	1.5
58	MP2A	X	7.367	3.5
59	MP2A	Z	4.253	3.5
60	MP2A	Mx	-.005	3.5
61	MP2B	X	13.016	1.5
62	MP2B	Z	7.515	1.5
63	MP2B	Mx	0	1.5
64	MP2B	X	13.016	3.5
65	MP2B	Z	7.515	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	7.367	1.5
68	MP2C	Z	4.253	1.5
69	MP2C	Mx	.005	1.5
70	MP2C	X	7.367	3.5
71	MP2C	Z	4.253	3.5
72	MP2C	Mx	.005	3.5
73	MP3A	X	23.105	2
74	MP3A	Z	13.34	2
75	MP3A	Mx	.012	2
76	MP1A	X	10.357	2
77	MP1A	Z	5.98	2
78	MP1A	Mx	.005	2
79	MP1B	X	13.43	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
80	MP1B	Z	7.754	2
81	MP1B	Mx	0	2
82	MP1C	X	10.357	2
83	MP1C	Z	5.98	2
84	MP1C	Mx	-.005	2
85	MP4A	X	10.48	2
86	MP4A	Z	6.051	2
87	MP4A	Mx	.005	2
88	MP4B	X	13.43	2
89	MP4B	Z	7.754	2
90	MP4B	Mx	0	2
91	MP4C	X	10.48	2
92	MP4C	Z	6.051	2
93	MP4C	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	6.229	1
2	MP3A	Z	10.79	1
3	MP3A	Mx	-.003	1
4	MP3A	X	6.229	4
5	MP3A	Z	10.79	4
6	MP3A	Mx	-.003	4
7	MP3B	X	6.229	1
8	MP3B	Z	10.79	1
9	MP3B	Mx	-.003	1
10	MP3B	X	6.229	4
11	MP3B	Z	10.79	4
12	MP3B	Mx	-.003	4
13	MP3C	X	4.383	1
14	MP3C	Z	7.592	1
15	MP3C	Mx	.004	1
16	MP3C	X	4.383	4
17	MP3C	Z	7.592	4
18	MP3C	Mx	.004	4
19	MP1A	X	17.547	.5
20	MP1A	Z	30.393	.5
21	MP1A	Mx	-.009	.5
22	MP1A	X	17.547	4.5
23	MP1A	Z	30.393	4.5
24	MP1A	Mx	-.009	4.5
25	MP1B	X	17.547	.5
26	MP1B	Z	30.393	.5
27	MP1B	Mx	-.009	.5
28	MP1B	X	17.547	4.5
29	MP1B	Z	30.393	4.5
30	MP1B	Mx	-.009	4.5
31	MP1C	X	14.13	.5
32	MP1C	Z	24.474	.5
33	MP1C	Mx	.014	.5
34	MP1C	X	14.13	4.5
35	MP1C	Z	24.474	4.5
36	MP1C	Mx	.014	4.5
37	MP4A	X	17.547	.5
38	MP4A	Z	30.393	.5
39	MP4A	Mx	-.009	.5

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

	Member Label	Direction	Magnitude[lb.k.ft]	Location[ft. %]
40	MP4A	X	17.547	4.5
41	MP4A	Z	30.393	4.5
42	MP4A	Mx	-.009	4.5
43	MP4B	X	17.547	.5
44	MP4B	Z	30.393	.5
45	MP4B	Mx	-.009	.5
46	MP4B	X	17.547	4.5
47	MP4B	Z	30.393	4.5
48	MP4B	Mx	-.009	4.5
49	MP4C	X	14.13	.5
50	MP4C	Z	24.474	.5
51	MP4C	Mx	.014	.5
52	MP4C	X	14.13	4.5
53	MP4C	Z	24.474	4.5
54	MP4C	Mx	.014	4.5
55	MP2A	X	6.428	1.5
56	MP2A	Z	11.133	1.5
57	MP2A	Mx	-.004	1.5
58	MP2A	X	6.428	3.5
59	MP2A	Z	11.133	3.5
60	MP2A	Mx	-.004	3.5
61	MP2B	X	6.428	1.5
62	MP2B	Z	11.133	1.5
63	MP2B	Mx	-.004	1.5
64	MP2B	X	6.428	3.5
65	MP2B	Z	11.133	3.5
66	MP2B	Mx	-.004	3.5
67	MP2C	X	3.166	1.5
68	MP2C	Z	5.484	1.5
69	MP2C	Mx	.004	1.5
70	MP2C	X	3.166	3.5
71	MP2C	Z	5.484	3.5
72	MP2C	Mx	.004	3.5
73	MP3A	X	15.082	2
74	MP3A	Z	26.123	2
75	MP3A	Mx	.008	2
76	MP1A	X	7.162	2
77	MP1A	Z	12.405	2
78	MP1A	Mx	.004	2
79	MP1B	X	7.162	2
80	MP1B	Z	12.405	2
81	MP1B	Mx	.004	2
82	MP1C	X	5.388	2
83	MP1C	Z	9.333	2
84	MP1C	Mx	-.005	2
85	MP4A	X	7.186	2
86	MP4A	Z	12.446	2
87	MP4A	Mx	.004	2
88	MP4B	X	7.186	2
89	MP4B	Z	12.446	2
90	MP4B	Mx	.004	2
91	MP4C	X	5.483	2
92	MP4C	Z	9.497	2
93	MP4C	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb.k.ft]	Location[ft. %]
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Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	1
2	MP3A	Z	13.69	1
3	MP3A	Mx	0	1
4	MP3A	X	0	4
5	MP3A	Z	13.69	4
6	MP3A	Mx	0	4
7	MP3B	X	0	1
8	MP3B	Z	9.997	1
9	MP3B	Mx	-.004	1
10	MP3B	X	0	4
11	MP3B	Z	9.997	4
12	MP3B	Mx	-.004	4
13	MP3C	X	0	1
14	MP3C	Z	9.997	1
15	MP3C	Mx	.004	1
16	MP3C	X	0	4
17	MP3C	Z	9.997	4
18	MP3C	Mx	.004	4
19	MP1A	X	0	.5
20	MP1A	Z	37.373	.5
21	MP1A	Mx	0	.5
22	MP1A	X	0	4.5
23	MP1A	Z	37.373	4.5
24	MP1A	Mx	0	4.5
25	MP1B	X	0	.5
26	MP1B	Z	30.539	.5
27	MP1B	Mx	-.013	.5
28	MP1B	X	0	4.5
29	MP1B	Z	30.539	4.5
30	MP1B	Mx	-.013	4.5
31	MP1C	X	0	.5
32	MP1C	Z	30.539	.5
33	MP1C	Mx	.013	.5
34	MP1C	X	0	4.5
35	MP1C	Z	30.539	4.5
36	MP1C	Mx	.013	4.5
37	MP4A	X	0	.5
38	MP4A	Z	37.373	.5
39	MP4A	Mx	0	.5
40	MP4A	X	0	4.5
41	MP4A	Z	37.373	4.5
42	MP4A	Mx	0	4.5
43	MP4B	X	0	.5
44	MP4B	Z	30.539	.5
45	MP4B	Mx	-.013	.5
46	MP4B	X	0	4.5
47	MP4B	Z	30.539	4.5
48	MP4B	Mx	-.013	4.5
49	MP4C	X	0	.5
50	MP4C	Z	30.539	.5
51	MP4C	Mx	.013	.5
52	MP4C	X	0	4.5
53	MP4C	Z	30.539	4.5
54	MP4C	Mx	.013	4.5
55	MP2A	X	0	1.5
56	MP2A	Z	15.03	1.5
57	MP2A	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2A	X	0	3.5
59	MP2A	Z	15.03	3.5
60	MP2A	Mx	0	3.5
61	MP2B	X	0	1.5
62	MP2B	Z	8.507	1.5
63	MP2B	Mx	-.005	1.5
64	MP2B	X	0	3.5
65	MP2B	Z	8.507	3.5
66	MP2B	Mx	-.005	3.5
67	MP2C	X	0	1.5
68	MP2C	Z	8.507	1.5
69	MP2C	Mx	.005	1.5
70	MP2C	X	0	3.5
71	MP2C	Z	8.507	3.5
72	MP2C	Mx	.005	3.5
73	MP3A	X	0	2
74	MP3A	Z	31.906	2
75	MP3A	Mx	0	2
76	MP1A	X	0	2
77	MP1A	Z	15.507	2
78	MP1A	Mx	0	2
79	MP1B	X	0	2
80	MP1B	Z	11.959	2
81	MP1B	Mx	.005	2
82	MP1C	X	0	2
83	MP1C	Z	11.959	2
84	MP1C	Mx	-.005	2
85	MP4A	X	0	2
86	MP4A	Z	15.507	2
87	MP4A	Mx	0	2
88	MP4B	X	0	2
89	MP4B	Z	12.101	2
90	MP4B	Mx	.005	2
91	MP4C	X	0	2
92	MP4C	Z	12.101	2
93	MP4C	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-6.229	1
2	MP3A	Z	10.79	1
3	MP3A	Mx	.003	1
4	MP3A	X	-6.229	4
5	MP3A	Z	10.79	4
6	MP3A	Mx	.003	4
7	MP3B	X	-4.383	1
8	MP3B	Z	7.592	1
9	MP3B	Mx	-.004	1
10	MP3B	X	-4.383	4
11	MP3B	Z	7.592	4
12	MP3B	Mx	-.004	4
13	MP3C	X	-6.229	1
14	MP3C	Z	10.79	1
15	MP3C	Mx	.003	1
16	MP3C	X	-6.229	4
17	MP3C	Z	10.79	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	MP3C	Mx	.003	4
19	MP1A	X	-17.547	.5
20	MP1A	Z	30.393	.5
21	MP1A	Mx	.009	.5
22	MP1A	X	-17.547	4.5
23	MP1A	Z	30.393	4.5
24	MP1A	Mx	.009	4.5
25	MP1B	X	-14.13	.5
26	MP1B	Z	24.474	.5
27	MP1B	Mx	-.014	.5
28	MP1B	X	-14.13	4.5
29	MP1B	Z	24.474	4.5
30	MP1B	Mx	-.014	4.5
31	MP1C	X	-17.547	.5
32	MP1C	Z	30.393	.5
33	MP1C	Mx	.009	.5
34	MP1C	X	-17.547	4.5
35	MP1C	Z	30.393	4.5
36	MP1C	Mx	.009	4.5
37	MP4A	X	-17.547	.5
38	MP4A	Z	30.393	.5
39	MP4A	Mx	.009	.5
40	MP4A	X	-17.547	4.5
41	MP4A	Z	30.393	4.5
42	MP4A	Mx	.009	4.5
43	MP4B	X	-14.13	.5
44	MP4B	Z	24.474	.5
45	MP4B	Mx	-.014	.5
46	MP4B	X	-14.13	4.5
47	MP4B	Z	24.474	4.5
48	MP4B	Mx	-.014	4.5
49	MP4C	X	-17.547	.5
50	MP4C	Z	30.393	.5
51	MP4C	Mx	.009	.5
52	MP4C	X	-17.547	4.5
53	MP4C	Z	30.393	4.5
54	MP4C	Mx	.009	4.5
55	MP2A	X	-6.428	1.5
56	MP2A	Z	11.133	1.5
57	MP2A	Mx	.004	1.5
58	MP2A	X	-6.428	3.5
59	MP2A	Z	11.133	3.5
60	MP2A	Mx	.004	3.5
61	MP2B	X	-3.166	1.5
62	MP2B	Z	5.484	1.5
63	MP2B	Mx	-.004	1.5
64	MP2B	X	-3.166	3.5
65	MP2B	Z	5.484	3.5
66	MP2B	Mx	-.004	3.5
67	MP2C	X	-6.428	1.5
68	MP2C	Z	11.133	1.5
69	MP2C	Mx	.004	1.5
70	MP2C	X	-6.428	3.5
71	MP2C	Z	11.133	3.5
72	MP2C	Mx	.004	3.5
73	MP3A	X	-15.082	2
74	MP3A	Z	26.123	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
75	MP3A	Mx	-.008	2
76	MP1A	X	-7.162	2
77	MP1A	Z	12.405	2
78	MP1A	Mx	-.004	2
79	MP1B	X	-5.388	2
80	MP1B	Z	9.333	2
81	MP1B	Mx	.005	2
82	MP1C	X	-7.162	2
83	MP1C	Z	12.405	2
84	MP1C	Mx	-.004	2
85	MP4A	X	-7.186	2
86	MP4A	Z	12.446	2
87	MP4A	Mx	-.004	2
88	MP4B	X	-5.483	2
89	MP4B	Z	9.497	2
90	MP4B	Mx	.005	2
91	MP4C	X	-7.186	2
92	MP4C	Z	12.446	2
93	MP4C	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-8.658	1
2	MP3A	Z	4.999	1
3	MP3A	Mx	.004	1
4	MP3A	X	-8.658	4
5	MP3A	Z	4.999	4
6	MP3A	Mx	.004	4
7	MP3B	X	-8.658	1
8	MP3B	Z	4.999	1
9	MP3B	Mx	-.004	1
10	MP3B	X	-8.658	4
11	MP3B	Z	4.999	4
12	MP3B	Mx	-.004	4
13	MP3C	X	-11.856	1
14	MP3C	Z	6.845	1
15	MP3C	Mx	0	1
16	MP3C	X	-11.856	4
17	MP3C	Z	6.845	4
18	MP3C	Mx	0	4
19	MP1A	X	-26.447	.5
20	MP1A	Z	15.269	.5
21	MP1A	Mx	.013	.5
22	MP1A	X	-26.447	4.5
23	MP1A	Z	15.269	4.5
24	MP1A	Mx	.013	4.5
25	MP1B	X	-26.447	.5
26	MP1B	Z	15.269	.5
27	MP1B	Mx	-.013	.5
28	MP1B	X	-26.447	4.5
29	MP1B	Z	15.269	4.5
30	MP1B	Mx	-.013	4.5
31	MP1C	X	-32.366	.5
32	MP1C	Z	18.687	.5
33	MP1C	Mx	0	.5
34	MP1C	X	-32.366	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
35	MP1C	Z	18.687	4.5
36	MP1C	Mx	0	4.5
37	MP4A	X	-26.447	.5
38	MP4A	Z	15.269	.5
39	MP4A	Mx	.013	.5
40	MP4A	X	-26.447	4.5
41	MP4A	Z	15.269	4.5
42	MP4A	Mx	.013	4.5
43	MP4B	X	-26.447	.5
44	MP4B	Z	15.269	.5
45	MP4B	Mx	-.013	.5
46	MP4B	X	-26.447	4.5
47	MP4B	Z	15.269	4.5
48	MP4B	Mx	-.013	4.5
49	MP4C	X	-32.366	.5
50	MP4C	Z	18.687	.5
51	MP4C	Mx	0	.5
52	MP4C	X	-32.366	4.5
53	MP4C	Z	18.687	4.5
54	MP4C	Mx	0	4.5
55	MP2A	X	-7.367	1.5
56	MP2A	Z	4.253	1.5
57	MP2A	Mx	.005	1.5
58	MP2A	X	-7.367	3.5
59	MP2A	Z	4.253	3.5
60	MP2A	Mx	.005	3.5
61	MP2B	X	-7.367	1.5
62	MP2B	Z	4.253	1.5
63	MP2B	Mx	-.005	1.5
64	MP2B	X	-7.367	3.5
65	MP2B	Z	4.253	3.5
66	MP2B	Mx	-.005	3.5
67	MP2C	X	-13.016	1.5
68	MP2C	Z	7.515	1.5
69	MP2C	Mx	0	1.5
70	MP2C	X	-13.016	3.5
71	MP2C	Z	7.515	3.5
72	MP2C	Mx	0	3.5
73	MP3A	X	-23.105	2
74	MP3A	Z	13.34	2
75	MP3A	Mx	-.012	2
76	MP1A	X	-10.357	2
77	MP1A	Z	5.98	2
78	MP1A	Mx	-.005	2
79	MP1B	X	-10.357	2
80	MP1B	Z	5.98	2
81	MP1B	Mx	.005	2
82	MP1C	X	-13.43	2
83	MP1C	Z	7.754	2
84	MP1C	Mx	0	2
85	MP4A	X	-10.48	2
86	MP4A	Z	6.051	2
87	MP4A	Mx	-.005	2
88	MP4B	X	-10.48	2
89	MP4B	Z	6.051	2
90	MP4B	Mx	.005	2
91	MP4C	X	-13.43	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP4C	Z	7.754	2
93	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-8.766	1
2	MP3A	Z	0	1
3	MP3A	Mx	.004	1
4	MP3A	X	-8.766	4
5	MP3A	Z	0	4
6	MP3A	Mx	.004	4
7	MP3B	X	-12.459	1
8	MP3B	Z	0	1
9	MP3B	Mx	-.003	1
10	MP3B	X	-12.459	4
11	MP3B	Z	0	4
12	MP3B	Mx	-.003	4
13	MP3C	X	-12.459	1
14	MP3C	Z	0	1
15	MP3C	Mx	-.003	1
16	MP3C	X	-12.459	4
17	MP3C	Z	0	4
18	MP3C	Mx	-.003	4
19	MP1A	X	-28.261	.5
20	MP1A	Z	0	.5
21	MP1A	Mx	.014	.5
22	MP1A	X	-28.261	4.5
23	MP1A	Z	0	4.5
24	MP1A	Mx	.014	4.5
25	MP1B	X	-35.095	.5
26	MP1B	Z	0	.5
27	MP1B	Mx	-.009	.5
28	MP1B	X	-35.095	4.5
29	MP1B	Z	0	4.5
30	MP1B	Mx	-.009	4.5
31	MP1C	X	-35.095	.5
32	MP1C	Z	0	.5
33	MP1C	Mx	-.009	.5
34	MP1C	X	-35.095	4.5
35	MP1C	Z	0	4.5
36	MP1C	Mx	-.009	4.5
37	MP4A	X	-28.261	.5
38	MP4A	Z	0	.5
39	MP4A	Mx	.014	.5
40	MP4A	X	-28.261	4.5
41	MP4A	Z	0	4.5
42	MP4A	Mx	.014	4.5
43	MP4B	X	-35.095	.5
44	MP4B	Z	0	.5
45	MP4B	Mx	-.009	.5
46	MP4B	X	-35.095	4.5
47	MP4B	Z	0	4.5
48	MP4B	Mx	-.009	4.5
49	MP4C	X	-35.095	.5
50	MP4C	Z	0	.5
51	MP4C	Mx	-.009	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
52	MP4C	X	-35.095	4.5
53	MP4C	Z	0	4.5
54	MP4C	Mx	-.009	4.5
55	MP2A	X	-6.333	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	.004	1.5
58	MP2A	X	-6.333	3.5
59	MP2A	Z	0	3.5
60	MP2A	Mx	.004	3.5
61	MP2B	X	-12.856	1.5
62	MP2B	Z	0	1.5
63	MP2B	Mx	-.004	1.5
64	MP2B	X	-12.856	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	-.004	3.5
67	MP2C	X	-12.856	1.5
68	MP2C	Z	0	1.5
69	MP2C	Mx	-.004	1.5
70	MP2C	X	-12.856	3.5
71	MP2C	Z	0	3.5
72	MP2C	Mx	-.004	3.5
73	MP3A	X	-24.937	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.012	2
76	MP1A	X	-10.777	2
77	MP1A	Z	0	2
78	MP1A	Mx	-.005	2
79	MP1B	X	-14.324	2
80	MP1B	Z	0	2
81	MP1B	Mx	.004	2
82	MP1C	X	-14.324	2
83	MP1C	Z	0	2
84	MP1C	Mx	.004	2
85	MP4A	X	-10.966	2
86	MP4A	Z	0	2
87	MP4A	Mx	-.005	2
88	MP4B	X	-14.372	2
89	MP4B	Z	0	2
90	MP4B	Mx	.004	2
91	MP4C	X	-14.372	2
92	MP4C	Z	0	2
93	MP4C	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-8.658	1
2	MP3A	Z	-4.999	1
3	MP3A	Mx	.004	1
4	MP3A	X	-8.658	4
5	MP3A	Z	-4.999	4
6	MP3A	Mx	.004	4
7	MP3B	X	-11.856	1
8	MP3B	Z	-6.845	1
9	MP3B	Mx	0	1
10	MP3B	X	-11.856	4
11	MP3B	Z	-6.845	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP3B	Mx	0	4
13	MP3C	X	-8.658	1
14	MP3C	Z	-4.999	1
15	MP3C	Mx	-.004	1
16	MP3C	X	-8.658	4
17	MP3C	Z	-4.999	4
18	MP3C	Mx	-.004	4
19	MP1A	X	-26.447	.5
20	MP1A	Z	-15.269	.5
21	MP1A	Mx	.013	.5
22	MP1A	X	-26.447	4.5
23	MP1A	Z	-15.269	4.5
24	MP1A	Mx	.013	4.5
25	MP1B	X	-32.366	.5
26	MP1B	Z	-18.687	.5
27	MP1B	Mx	0	.5
28	MP1B	X	-32.366	4.5
29	MP1B	Z	-18.687	4.5
30	MP1B	Mx	0	4.5
31	MP1C	X	-26.447	.5
32	MP1C	Z	-15.269	.5
33	MP1C	Mx	-.013	.5
34	MP1C	X	-26.447	4.5
35	MP1C	Z	-15.269	4.5
36	MP1C	Mx	-.013	4.5
37	MP4A	X	-26.447	.5
38	MP4A	Z	-15.269	.5
39	MP4A	Mx	.013	.5
40	MP4A	X	-26.447	4.5
41	MP4A	Z	-15.269	4.5
42	MP4A	Mx	.013	4.5
43	MP4B	X	-32.366	.5
44	MP4B	Z	-18.687	.5
45	MP4B	Mx	0	.5
46	MP4B	X	-32.366	4.5
47	MP4B	Z	-18.687	4.5
48	MP4B	Mx	0	4.5
49	MP4C	X	-26.447	.5
50	MP4C	Z	-15.269	.5
51	MP4C	Mx	-.013	.5
52	MP4C	X	-26.447	4.5
53	MP4C	Z	-15.269	4.5
54	MP4C	Mx	-.013	4.5
55	MP2A	X	-7.367	1.5
56	MP2A	Z	-4.253	1.5
57	MP2A	Mx	.005	1.5
58	MP2A	X	-7.367	3.5
59	MP2A	Z	-4.253	3.5
60	MP2A	Mx	.005	3.5
61	MP2B	X	-13.016	1.5
62	MP2B	Z	-7.515	1.5
63	MP2B	Mx	0	1.5
64	MP2B	X	-13.016	3.5
65	MP2B	Z	-7.515	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	-7.367	1.5
68	MP2C	Z	-4.253	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
69	MP2C	Mx	-.005	1.5
70	MP2C	X	-7.367	3.5
71	MP2C	Z	-4.253	3.5
72	MP2C	Mx	-.005	3.5
73	MP3A	X	-23.105	2
74	MP3A	Z	-13.34	2
75	MP3A	Mx	-.012	2
76	MP1A	X	-10.357	2
77	MP1A	Z	-5.98	2
78	MP1A	Mx	-.005	2
79	MP1B	X	-13.43	2
80	MP1B	Z	-7.754	2
81	MP1B	Mx	0	2
82	MP1C	X	-10.357	2
83	MP1C	Z	-5.98	2
84	MP1C	Mx	.005	2
85	MP4A	X	-10.48	2
86	MP4A	Z	-6.051	2
87	MP4A	Mx	-.005	2
88	MP4B	X	-13.43	2
89	MP4B	Z	-7.754	2
90	MP4B	Mx	0	2
91	MP4C	X	-10.48	2
92	MP4C	Z	-6.051	2
93	MP4C	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-6.229	1
2	MP3A	Z	-10.79	1
3	MP3A	Mx	.003	1
4	MP3A	X	-6.229	4
5	MP3A	Z	-10.79	4
6	MP3A	Mx	.003	4
7	MP3B	X	-6.229	1
8	MP3B	Z	-10.79	1
9	MP3B	Mx	.003	1
10	MP3B	X	-6.229	4
11	MP3B	Z	-10.79	4
12	MP3B	Mx	.003	4
13	MP3C	X	-4.383	1
14	MP3C	Z	-7.592	1
15	MP3C	Mx	-.004	1
16	MP3C	X	-4.383	4
17	MP3C	Z	-7.592	4
18	MP3C	Mx	-.004	4
19	MP1A	X	-17.547	.5
20	MP1A	Z	-30.393	.5
21	MP1A	Mx	.009	.5
22	MP1A	X	-17.547	4.5
23	MP1A	Z	-30.393	4.5
24	MP1A	Mx	.009	4.5
25	MP1B	X	-17.547	.5
26	MP1B	Z	-30.393	.5
27	MP1B	Mx	.009	.5
28	MP1B	X	-17.547	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	-30.393	4.5
30	MP1B	Mx	.009	4.5
31	MP1C	X	-14.13	.5
32	MP1C	Z	-24.474	.5
33	MP1C	Mx	-.014	.5
34	MP1C	X	-14.13	4.5
35	MP1C	Z	-24.474	4.5
36	MP1C	Mx	-.014	4.5
37	MP4A	X	-17.547	.5
38	MP4A	Z	-30.393	.5
39	MP4A	Mx	.009	.5
40	MP4A	X	-17.547	4.5
41	MP4A	Z	-30.393	4.5
42	MP4A	Mx	.009	4.5
43	MP4B	X	-17.547	.5
44	MP4B	Z	-30.393	.5
45	MP4B	Mx	.009	.5
46	MP4B	X	-17.547	4.5
47	MP4B	Z	-30.393	4.5
48	MP4B	Mx	.009	4.5
49	MP4C	X	-14.13	.5
50	MP4C	Z	-24.474	.5
51	MP4C	Mx	-.014	.5
52	MP4C	X	-14.13	4.5
53	MP4C	Z	-24.474	4.5
54	MP4C	Mx	-.014	4.5
55	MP2A	X	-6.428	1.5
56	MP2A	Z	-11.133	1.5
57	MP2A	Mx	.004	1.5
58	MP2A	X	-6.428	3.5
59	MP2A	Z	-11.133	3.5
60	MP2A	Mx	.004	3.5
61	MP2B	X	-6.428	1.5
62	MP2B	Z	-11.133	1.5
63	MP2B	Mx	.004	1.5
64	MP2B	X	-6.428	3.5
65	MP2B	Z	-11.133	3.5
66	MP2B	Mx	.004	3.5
67	MP2C	X	-3.166	1.5
68	MP2C	Z	-5.484	1.5
69	MP2C	Mx	-.004	1.5
70	MP2C	X	-3.166	3.5
71	MP2C	Z	-5.484	3.5
72	MP2C	Mx	-.004	3.5
73	MP3A	X	-15.082	2
74	MP3A	Z	-26.123	2
75	MP3A	Mx	-.008	2
76	MP1A	X	-7.162	2
77	MP1A	Z	-12.405	2
78	MP1A	Mx	-.004	2
79	MP1B	X	-7.162	2
80	MP1B	Z	-12.405	2
81	MP1B	Mx	-.004	2
82	MP1C	X	-5.388	2
83	MP1C	Z	-9.333	2
84	MP1C	Mx	.005	2
85	MP4A	X	-7.186	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
86	MP4A	Z	-12.446	2
87	MP4A	Mx	-.004	2
88	MP4B	X	-7.186	2
89	MP4B	Z	-12.446	2
90	MP4B	Mx	-.004	2
91	MP4C	X	-5.483	2
92	MP4C	Z	-9.497	2
93	MP4C	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	1
2	MP3A	Z	-4.221	1
3	MP3A	Mx	0	1
4	MP3A	X	0	4
5	MP3A	Z	-4.221	4
6	MP3A	Mx	0	4
7	MP3B	X	0	1
8	MP3B	Z	-2.921	1
9	MP3B	Mx	.001	1
10	MP3B	X	0	4
11	MP3B	Z	-2.921	4
12	MP3B	Mx	.001	4
13	MP3C	X	0	1
14	MP3C	Z	-2.921	1
15	MP3C	Mx	-.001	1
16	MP3C	X	0	4
17	MP3C	Z	-2.921	4
18	MP3C	Mx	-.001	4
19	MP1A	X	0	.5
20	MP1A	Z	-5.925	.5
21	MP1A	Mx	0	.5
22	MP1A	X	0	4.5
23	MP1A	Z	-5.925	4.5
24	MP1A	Mx	0	4.5
25	MP1B	X	0	.5
26	MP1B	Z	-4.807	.5
27	MP1B	Mx	.002	.5
28	MP1B	X	0	4.5
29	MP1B	Z	-4.807	4.5
30	MP1B	Mx	.002	4.5
31	MP1C	X	0	.5
32	MP1C	Z	-4.807	.5
33	MP1C	Mx	-.002	.5
34	MP1C	X	0	4.5
35	MP1C	Z	-4.807	4.5
36	MP1C	Mx	-.002	4.5
37	MP4A	X	0	.5
38	MP4A	Z	-5.925	.5
39	MP4A	Mx	0	.5
40	MP4A	X	0	4.5
41	MP4A	Z	-5.925	4.5
42	MP4A	Mx	0	4.5
43	MP4B	X	0	.5
44	MP4B	Z	-4.807	.5
45	MP4B	Mx	.002	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
46	MP4B	X	0	4.5
47	MP4B	Z	-4.807	4.5
48	MP4B	Mx	.002	4.5
49	MP4C	X	0	.5
50	MP4C	Z	-4.807	.5
51	MP4C	Mx	-.002	.5
52	MP4C	X	0	4.5
53	MP4C	Z	-4.807	4.5
54	MP4C	Mx	-.002	4.5
55	MP2A	X	0	1.5
56	MP2A	Z	-4.747	1.5
57	MP2A	Mx	0	1.5
58	MP2A	X	0	3.5
59	MP2A	Z	-4.747	3.5
60	MP2A	Mx	0	3.5
61	MP2B	X	0	1.5
62	MP2B	Z	-2.558	1.5
63	MP2B	Mx	.001	1.5
64	MP2B	X	0	3.5
65	MP2B	Z	-2.558	3.5
66	MP2B	Mx	.001	3.5
67	MP2C	X	0	1.5
68	MP2C	Z	-2.558	1.5
69	MP2C	Mx	-.001	1.5
70	MP2C	X	0	3.5
71	MP2C	Z	-2.558	3.5
72	MP2C	Mx	-.001	3.5
73	MP3A	X	0	2
74	MP3A	Z	-7.942	2
75	MP3A	Mx	0	2
76	MP1A	X	0	2
77	MP1A	Z	-3.883	2
78	MP1A	Mx	0	2
79	MP1B	X	0	2
80	MP1B	Z	-2.925	2
81	MP1B	Mx	-.001	2
82	MP1C	X	0	2
83	MP1C	Z	-2.925	2
84	MP1C	Mx	.001	2
85	MP4A	X	0	2
86	MP4A	Z	-4.685	2
87	MP4A	Mx	0	2
88	MP4B	X	0	2
89	MP4B	Z	-3.567	2
90	MP4B	Mx	-.002	2
91	MP4C	X	0	2
92	MP4C	Z	-3.567	2
93	MP4C	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	1.894	1
2	MP3A	Z	-3.28	1
3	MP3A	Mx	-.000947	1
4	MP3A	X	1.894	4
5	MP3A	Z	-3.28	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP3A	Mx	-.000947	4
7	MP3B	X	1.244	1
8	MP3B	Z	-2.154	1
9	MP3B	Mx	.001	1
10	MP3B	X	1.244	4
11	MP3B	Z	-2.154	4
12	MP3B	Mx	.001	4
13	MP3C	X	1.894	1
14	MP3C	Z	-3.28	1
15	MP3C	Mx	-.000947	1
16	MP3C	X	1.894	4
17	MP3C	Z	-3.28	4
18	MP3C	Mx	-.000947	4
19	MP1A	X	2.776	.5
20	MP1A	Z	-4.808	.5
21	MP1A	Mx	-.001	.5
22	MP1A	X	2.776	4.5
23	MP1A	Z	-4.808	4.5
24	MP1A	Mx	-.001	4.5
25	MP1B	X	2.217	.5
26	MP1B	Z	-3.84	.5
27	MP1B	Mx	.002	.5
28	MP1B	X	2.217	4.5
29	MP1B	Z	-3.84	4.5
30	MP1B	Mx	.002	4.5
31	MP1C	X	2.776	.5
32	MP1C	Z	-4.808	.5
33	MP1C	Mx	-.001	.5
34	MP1C	X	2.776	4.5
35	MP1C	Z	-4.808	4.5
36	MP1C	Mx	-.001	4.5
37	MP4A	X	2.776	.5
38	MP4A	Z	-4.808	.5
39	MP4A	Mx	-.001	.5
40	MP4A	X	2.776	4.5
41	MP4A	Z	-4.808	4.5
42	MP4A	Mx	-.001	4.5
43	MP4B	X	2.217	.5
44	MP4B	Z	-3.84	.5
45	MP4B	Mx	.002	.5
46	MP4B	X	2.217	4.5
47	MP4B	Z	-3.84	4.5
48	MP4B	Mx	.002	4.5
49	MP4C	X	2.776	.5
50	MP4C	Z	-4.808	.5
51	MP4C	Mx	-.001	.5
52	MP4C	X	2.776	4.5
53	MP4C	Z	-4.808	4.5
54	MP4C	Mx	-.001	4.5
55	MP2A	X	2.009	1.5
56	MP2A	Z	-3.479	1.5
57	MP2A	Mx	-.001	1.5
58	MP2A	X	2.009	3.5
59	MP2A	Z	-3.479	3.5
60	MP2A	Mx	-.001	3.5
61	MP2B	X	.914	1.5
62	MP2B	Z	-1.583	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
63	MP2B	Mx	.001	1.5
64	MP2B	X	.914	3.5
65	MP2B	Z	-1.583	3.5
66	MP2B	Mx	.001	3.5
67	MP2C	X	2.009	1.5
68	MP2C	Z	-3.479	1.5
69	MP2C	Mx	-.001	1.5
70	MP2C	X	2.009	3.5
71	MP2C	Z	-3.479	3.5
72	MP2C	Mx	-.001	3.5
73	MP3A	X	3.733	2
74	MP3A	Z	-6.465	2
75	MP3A	Mx	.002	2
76	MP1A	X	1.782	2
77	MP1A	Z	-3.086	2
78	MP1A	Mx	.000891	2
79	MP1B	X	1.303	2
80	MP1B	Z	-2.256	2
81	MP1B	Mx	-.001	2
82	MP1C	X	1.782	2
83	MP1C	Z	-3.086	2
84	MP1C	Mx	.000891	2
85	MP4A	X	2.156	2
86	MP4A	Z	-3.734	2
87	MP4A	Mx	.001	2
88	MP4B	X	1.597	2
89	MP4B	Z	-2.766	2
90	MP4B	Mx	-.002	2
91	MP4C	X	2.156	2
92	MP4C	Z	-3.734	2
93	MP4C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	2.53	1
2	MP3A	Z	-1.46	1
3	MP3A	Mx	-.001	1
4	MP3A	X	2.53	4
5	MP3A	Z	-1.46	4
6	MP3A	Mx	-.001	4
7	MP3B	X	2.53	1
8	MP3B	Z	-1.46	1
9	MP3B	Mx	.001	1
10	MP3B	X	2.53	4
11	MP3B	Z	-1.46	4
12	MP3B	Mx	.001	4
13	MP3C	X	3.656	1
14	MP3C	Z	-2.111	1
15	MP3C	Mx	0	1
16	MP3C	X	3.656	4
17	MP3C	Z	-2.111	4
18	MP3C	Mx	0	4
19	MP1A	X	4.163	.5
20	MP1A	Z	-2.403	.5
21	MP1A	Mx	-.002	.5
22	MP1A	X	4.163	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP1A	Z	-2.403	4.5
24	MP1A	Mx	-.002	4.5
25	MP1B	X	4.163	.5
26	MP1B	Z	-2.403	.5
27	MP1B	Mx	.002	.5
28	MP1B	X	4.163	4.5
29	MP1B	Z	-2.403	4.5
30	MP1B	Mx	.002	4.5
31	MP1C	X	5.131	.5
32	MP1C	Z	-2.962	.5
33	MP1C	Mx	0	.5
34	MP1C	X	5.131	4.5
35	MP1C	Z	-2.962	4.5
36	MP1C	Mx	0	4.5
37	MP4A	X	4.163	.5
38	MP4A	Z	-2.403	.5
39	MP4A	Mx	-.002	.5
40	MP4A	X	4.163	4.5
41	MP4A	Z	-2.403	4.5
42	MP4A	Mx	-.002	4.5
43	MP4B	X	4.163	.5
44	MP4B	Z	-2.403	.5
45	MP4B	Mx	.002	.5
46	MP4B	X	4.163	4.5
47	MP4B	Z	-2.403	4.5
48	MP4B	Mx	.002	4.5
49	MP4C	X	5.131	.5
50	MP4C	Z	-2.962	.5
51	MP4C	Mx	0	.5
52	MP4C	X	5.131	4.5
53	MP4C	Z	-2.962	4.5
54	MP4C	Mx	0	4.5
55	MP2A	X	2.215	1.5
56	MP2A	Z	-1.279	1.5
57	MP2A	Mx	-.001	1.5
58	MP2A	X	2.215	3.5
59	MP2A	Z	-1.279	3.5
60	MP2A	Mx	-.001	3.5
61	MP2B	X	2.215	1.5
62	MP2B	Z	-1.279	1.5
63	MP2B	Mx	.001	1.5
64	MP2B	X	2.215	3.5
65	MP2B	Z	-1.279	3.5
66	MP2B	Mx	.001	3.5
67	MP2C	X	4.111	1.5
68	MP2C	Z	-2.374	1.5
69	MP2C	Mx	0	1.5
70	MP2C	X	4.111	3.5
71	MP2C	Z	-2.374	3.5
72	MP2C	Mx	0	3.5
73	MP3A	X	5.641	2
74	MP3A	Z	-3.257	2
75	MP3A	Mx	.003	2
76	MP1A	X	2.533	2
77	MP1A	Z	-1.462	2
78	MP1A	Mx	.001	2
79	MP1B	X	2.533	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
80	MP1B	Z	-1.462	2
81	MP1B	Mx	-.001	2
82	MP1C	X	3.363	2
83	MP1C	Z	-1.942	2
84	MP1C	Mx	0	2
85	MP4A	X	3.089	2
86	MP4A	Z	-1.783	2
87	MP4A	Mx	.002	2
88	MP4B	X	3.089	2
89	MP4B	Z	-1.783	2
90	MP4B	Mx	-.002	2
91	MP4C	X	4.057	2
92	MP4C	Z	-2.342	2
93	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	2.487	1
2	MP3A	Z	0	1
3	MP3A	Mx	-.001	1
4	MP3A	X	2.487	4
5	MP3A	Z	0	4
6	MP3A	Mx	-.001	4
7	MP3B	X	3.788	1
8	MP3B	Z	0	1
9	MP3B	Mx	.000947	1
10	MP3B	X	3.788	4
11	MP3B	Z	0	4
12	MP3B	Mx	.000947	4
13	MP3C	X	3.788	1
14	MP3C	Z	0	1
15	MP3C	Mx	.000947	1
16	MP3C	X	3.788	4
17	MP3C	Z	0	4
18	MP3C	Mx	.000947	4
19	MP1A	X	4.434	.5
20	MP1A	Z	0	.5
21	MP1A	Mx	-.002	.5
22	MP1A	X	4.434	4.5
23	MP1A	Z	0	4.5
24	MP1A	Mx	-.002	4.5
25	MP1B	X	5.552	.5
26	MP1B	Z	0	.5
27	MP1B	Mx	.001	.5
28	MP1B	X	5.552	4.5
29	MP1B	Z	0	4.5
30	MP1B	Mx	.001	4.5
31	MP1C	X	5.552	.5
32	MP1C	Z	0	.5
33	MP1C	Mx	.001	.5
34	MP1C	X	5.552	4.5
35	MP1C	Z	0	4.5
36	MP1C	Mx	.001	4.5
37	MP4A	X	4.434	.5
38	MP4A	Z	0	.5
39	MP4A	Mx	-.002	.5



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	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
40	MP4A	X	4.434	4.5
41	MP4A	Z	0	4.5
42	MP4A	Mx	-.002	4.5
43	MP4B	X	5.552	.5
44	MP4B	Z	0	.5
45	MP4B	Mx	.001	.5
46	MP4B	X	5.552	4.5
47	MP4B	Z	0	4.5
48	MP4B	Mx	.001	4.5
49	MP4C	X	5.552	.5
50	MP4C	Z	0	.5
51	MP4C	Mx	.001	.5
52	MP4C	X	5.552	4.5
53	MP4C	Z	0	4.5
54	MP4C	Mx	.001	4.5
55	MP2A	X	1.828	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	-.001	1.5
58	MP2A	X	1.828	3.5
59	MP2A	Z	0	3.5
60	MP2A	Mx	-.001	3.5
61	MP2B	X	4.018	1.5
62	MP2B	Z	0	1.5
63	MP2B	Mx	.001	1.5
64	MP2B	X	4.018	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	.001	3.5
67	MP2C	X	4.018	1.5
68	MP2C	Z	0	1.5
69	MP2C	Mx	.001	1.5
70	MP2C	X	4.018	3.5
71	MP2C	Z	0	3.5
72	MP2C	Mx	.001	3.5
73	MP3A	X	6.038	2
74	MP3A	Z	0	2
75	MP3A	Mx	.003	2
76	MP1A	X	2.605	2
77	MP1A	Z	0	2
78	MP1A	Mx	.001	2
79	MP1B	X	3.564	2
80	MP1B	Z	0	2
81	MP1B	Mx	-.000891	2
82	MP1C	X	3.564	2
83	MP1C	Z	0	2
84	MP1C	Mx	-.000891	2
85	MP4A	X	3.194	2
86	MP4A	Z	0	2
87	MP4A	Mx	.002	2
88	MP4B	X	4.312	2
89	MP4B	Z	0	2
90	MP4B	Mx	-.001	2
91	MP4C	X	4.312	2
92	MP4C	Z	0	2
93	MP4C	Mx	-.001	2

Member Label	Direction	Magnitude [h.k.m]	Location [x,y]
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Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	2.53	1
2	MP3A	Z	1.46	1
3	MP3A	Mx	-.001	1
4	MP3A	X	2.53	4
5	MP3A	Z	1.46	4
6	MP3A	Mx	-.001	4
7	MP3B	X	3.656	1
8	MP3B	Z	2.111	1
9	MP3B	Mx	0	1
10	MP3B	X	3.656	4
11	MP3B	Z	2.111	4
12	MP3B	Mx	0	4
13	MP3C	X	2.53	1
14	MP3C	Z	1.46	1
15	MP3C	Mx	.001	1
16	MP3C	X	2.53	4
17	MP3C	Z	1.46	4
18	MP3C	Mx	.001	4
19	MP1A	X	4.163	.5
20	MP1A	Z	2.403	.5
21	MP1A	Mx	-.002	.5
22	MP1A	X	4.163	4.5
23	MP1A	Z	2.403	4.5
24	MP1A	Mx	-.002	4.5
25	MP1B	X	5.131	.5
26	MP1B	Z	2.962	.5
27	MP1B	Mx	0	.5
28	MP1B	X	5.131	4.5
29	MP1B	Z	2.962	4.5
30	MP1B	Mx	0	4.5
31	MP1C	X	4.163	.5
32	MP1C	Z	2.403	.5
33	MP1C	Mx	.002	.5
34	MP1C	X	4.163	4.5
35	MP1C	Z	2.403	4.5
36	MP1C	Mx	.002	4.5
37	MP4A	X	4.163	.5
38	MP4A	Z	2.403	.5
39	MP4A	Mx	-.002	.5
40	MP4A	X	4.163	4.5
41	MP4A	Z	2.403	4.5
42	MP4A	Mx	-.002	4.5
43	MP4B	X	5.131	.5
44	MP4B	Z	2.962	.5
45	MP4B	Mx	0	.5
46	MP4B	X	5.131	4.5
47	MP4B	Z	2.962	4.5
48	MP4B	Mx	0	4.5
49	MP4C	X	4.163	.5
50	MP4C	Z	2.403	.5
51	MP4C	Mx	.002	.5
52	MP4C	X	4.163	4.5
53	MP4C	Z	2.403	4.5
54	MP4C	Mx	.002	4.5
55	MP2A	X	2.215	1.5
56	MP2A	Z	1.279	1.5
57	MP2A	Mx	-.001	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2A	X	2.215	3.5
59	MP2A	Z	1.279	3.5
60	MP2A	Mx	-.001	3.5
61	MP2B	X	4.111	1.5
62	MP2B	Z	2.374	1.5
63	MP2B	Mx	0	1.5
64	MP2B	X	4.111	3.5
65	MP2B	Z	2.374	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	2.215	1.5
68	MP2C	Z	1.279	1.5
69	MP2C	Mx	.001	1.5
70	MP2C	X	2.215	3.5
71	MP2C	Z	1.279	3.5
72	MP2C	Mx	.001	3.5
73	MP3A	X	5.641	2
74	MP3A	Z	3.257	2
75	MP3A	Mx	.003	2
76	MP1A	X	2.533	2
77	MP1A	Z	1.462	2
78	MP1A	Mx	.001	2
79	MP1B	X	3.363	2
80	MP1B	Z	1.942	2
81	MP1B	Mx	0	2
82	MP1C	X	2.533	2
83	MP1C	Z	1.462	2
84	MP1C	Mx	-.001	2
85	MP4A	X	3.089	2
86	MP4A	Z	1.783	2
87	MP4A	Mx	.002	2
88	MP4B	X	4.057	2
89	MP4B	Z	2.342	2
90	MP4B	Mx	0	2
91	MP4C	X	3.089	2
92	MP4C	Z	1.783	2
93	MP4C	Mx	-.002	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	1.894	1
2	MP3A	Z	3.28	1
3	MP3A	Mx	-.000947	1
4	MP3A	X	1.894	4
5	MP3A	Z	3.28	4
6	MP3A	Mx	-.000947	4
7	MP3B	X	1.894	1
8	MP3B	Z	3.28	1
9	MP3B	Mx	-.000947	1
10	MP3B	X	1.894	4
11	MP3B	Z	3.28	4
12	MP3B	Mx	-.000947	4
13	MP3C	X	1.244	1
14	MP3C	Z	2.154	1
15	MP3C	Mx	.001	1
16	MP3C	X	1.244	4
17	MP3C	Z	2.154	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	MP3C	Mx	.001	4
19	MP1A	X	2.776	.5
20	MP1A	Z	4.808	.5
21	MP1A	Mx	-.001	.5
22	MP1A	X	2.776	4.5
23	MP1A	Z	4.808	4.5
24	MP1A	Mx	-.001	4.5
25	MP1B	X	2.776	.5
26	MP1B	Z	4.808	.5
27	MP1B	Mx	-.001	.5
28	MP1B	X	2.776	4.5
29	MP1B	Z	4.808	4.5
30	MP1B	Mx	-.001	4.5
31	MP1C	X	2.217	.5
32	MP1C	Z	3.84	.5
33	MP1C	Mx	.002	.5
34	MP1C	X	2.217	4.5
35	MP1C	Z	3.84	4.5
36	MP1C	Mx	.002	4.5
37	MP4A	X	2.776	.5
38	MP4A	Z	4.808	.5
39	MP4A	Mx	-.001	.5
40	MP4A	X	2.776	4.5
41	MP4A	Z	4.808	4.5
42	MP4A	Mx	-.001	4.5
43	MP4B	X	2.776	.5
44	MP4B	Z	4.808	.5
45	MP4B	Mx	-.001	.5
46	MP4B	X	2.776	4.5
47	MP4B	Z	4.808	4.5
48	MP4B	Mx	-.001	4.5
49	MP4C	X	2.217	.5
50	MP4C	Z	3.84	.5
51	MP4C	Mx	.002	.5
52	MP4C	X	2.217	4.5
53	MP4C	Z	3.84	4.5
54	MP4C	Mx	.002	4.5
55	MP2A	X	2.009	1.5
56	MP2A	Z	3.479	1.5
57	MP2A	Mx	-.001	1.5
58	MP2A	X	2.009	3.5
59	MP2A	Z	3.479	3.5
60	MP2A	Mx	-.001	3.5
61	MP2B	X	2.009	1.5
62	MP2B	Z	3.479	1.5
63	MP2B	Mx	-.001	1.5
64	MP2B	X	2.009	3.5
65	MP2B	Z	3.479	3.5
66	MP2B	Mx	-.001	3.5
67	MP2C	X	.914	1.5
68	MP2C	Z	1.583	1.5
69	MP2C	Mx	.001	1.5
70	MP2C	X	.914	3.5
71	MP2C	Z	1.583	3.5
72	MP2C	Mx	.001	3.5
73	MP3A	X	3.733	2
74	MP3A	Z	6.465	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
75	MP3A	Mx	.002	2
76	MP1A	X	1.782	2
77	MP1A	Z	3.086	2
78	MP1A	Mx	.000891	2
79	MP1B	X	1.782	2
80	MP1B	Z	3.086	2
81	MP1B	Mx	.000891	2
82	MP1C	X	1.303	2
83	MP1C	Z	2.256	2
84	MP1C	Mx	-.001	2
85	MP4A	X	2.156	2
86	MP4A	Z	3.734	2
87	MP4A	Mx	.001	2
88	MP4B	X	2.156	2
89	MP4B	Z	3.734	2
90	MP4B	Mx	.001	2
91	MP4C	X	1.597	2
92	MP4C	Z	2.766	2
93	MP4C	Mx	-.002	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	1
2	MP3A	Z	4.221	1
3	MP3A	Mx	0	1
4	MP3A	X	0	4
5	MP3A	Z	4.221	4
6	MP3A	Mx	0	4
7	MP3B	X	0	1
8	MP3B	Z	2.921	1
9	MP3B	Mx	-.001	1
10	MP3B	X	0	4
11	MP3B	Z	2.921	4
12	MP3B	Mx	-.001	4
13	MP3C	X	0	1
14	MP3C	Z	2.921	1
15	MP3C	Mx	.001	1
16	MP3C	X	0	4
17	MP3C	Z	2.921	4
18	MP3C	Mx	.001	4
19	MP1A	X	0	.5
20	MP1A	Z	5.925	.5
21	MP1A	Mx	0	.5
22	MP1A	X	0	4.5
23	MP1A	Z	5.925	4.5
24	MP1A	Mx	0	4.5
25	MP1B	X	0	.5
26	MP1B	Z	4.807	.5
27	MP1B	Mx	-.002	.5
28	MP1B	X	0	4.5
29	MP1B	Z	4.807	4.5
30	MP1B	Mx	-.002	4.5
31	MP1C	X	0	.5
32	MP1C	Z	4.807	.5
33	MP1C	Mx	.002	.5
34	MP1C	X	0	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
35	MP1C	Z	4.807	4.5
36	MP1C	Mx	.002	4.5
37	MP4A	X	0	.5
38	MP4A	Z	5.925	.5
39	MP4A	Mx	0	.5
40	MP4A	X	0	4.5
41	MP4A	Z	5.925	4.5
42	MP4A	Mx	0	4.5
43	MP4B	X	0	.5
44	MP4B	Z	4.807	.5
45	MP4B	Mx	-.002	.5
46	MP4B	X	0	4.5
47	MP4B	Z	4.807	4.5
48	MP4B	Mx	-.002	4.5
49	MP4C	X	0	.5
50	MP4C	Z	4.807	.5
51	MP4C	Mx	.002	.5
52	MP4C	X	0	4.5
53	MP4C	Z	4.807	4.5
54	MP4C	Mx	.002	4.5
55	MP2A	X	0	1.5
56	MP2A	Z	4.747	1.5
57	MP2A	Mx	0	1.5
58	MP2A	X	0	3.5
59	MP2A	Z	4.747	3.5
60	MP2A	Mx	0	3.5
61	MP2B	X	0	1.5
62	MP2B	Z	2.558	1.5
63	MP2B	Mx	-.001	1.5
64	MP2B	X	0	3.5
65	MP2B	Z	2.558	3.5
66	MP2B	Mx	-.001	3.5
67	MP2C	X	0	1.5
68	MP2C	Z	2.558	1.5
69	MP2C	Mx	.001	1.5
70	MP2C	X	0	3.5
71	MP2C	Z	2.558	3.5
72	MP2C	Mx	.001	3.5
73	MP3A	X	0	2
74	MP3A	Z	7.942	2
75	MP3A	Mx	0	2
76	MP1A	X	0	2
77	MP1A	Z	3.883	2
78	MP1A	Mx	0	2
79	MP1B	X	0	2
80	MP1B	Z	2.925	2
81	MP1B	Mx	.001	2
82	MP1C	X	0	2
83	MP1C	Z	2.925	2
84	MP1C	Mx	-.001	2
85	MP4A	X	0	2
86	MP4A	Z	4.685	2
87	MP4A	Mx	0	2
88	MP4B	X	0	2
89	MP4B	Z	3.567	2
90	MP4B	Mx	.002	2
91	MP4C	X	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
92	MP4C	Z	3.567	2
93	MP4C	Mx	-.002	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.894	1
2	MP3A	Z	3.28	1
3	MP3A	Mx	.000947	1
4	MP3A	X	-1.894	4
5	MP3A	Z	3.28	4
6	MP3A	Mx	.000947	4
7	MP3B	X	-1.244	1
8	MP3B	Z	2.154	1
9	MP3B	Mx	-.001	1
10	MP3B	X	-1.244	4
11	MP3B	Z	2.154	4
12	MP3B	Mx	-.001	4
13	MP3C	X	-1.894	1
14	MP3C	Z	3.28	1
15	MP3C	Mx	.000947	1
16	MP3C	X	-1.894	4
17	MP3C	Z	3.28	4
18	MP3C	Mx	.000947	4
19	MP1A	X	-2.776	.5
20	MP1A	Z	4.808	.5
21	MP1A	Mx	.001	.5
22	MP1A	X	-2.776	4.5
23	MP1A	Z	4.808	4.5
24	MP1A	Mx	.001	4.5
25	MP1B	X	-2.217	.5
26	MP1B	Z	3.84	.5
27	MP1B	Mx	-.002	.5
28	MP1B	X	-2.217	4.5
29	MP1B	Z	3.84	4.5
30	MP1B	Mx	-.002	4.5
31	MP1C	X	-2.776	.5
32	MP1C	Z	4.808	.5
33	MP1C	Mx	.001	.5
34	MP1C	X	-2.776	4.5
35	MP1C	Z	4.808	4.5
36	MP1C	Mx	.001	4.5
37	MP4A	X	-2.776	.5
38	MP4A	Z	4.808	.5
39	MP4A	Mx	.001	.5
40	MP4A	X	-2.776	4.5
41	MP4A	Z	4.808	4.5
42	MP4A	Mx	.001	4.5
43	MP4B	X	-2.217	.5
44	MP4B	Z	3.84	.5
45	MP4B	Mx	-.002	.5
46	MP4B	X	-2.217	4.5
47	MP4B	Z	3.84	4.5
48	MP4B	Mx	-.002	4.5
49	MP4C	X	-2.776	.5
50	MP4C	Z	4.808	.5
51	MP4C	Mx	.001	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
52	MP4C	X	-2.776	4.5
53	MP4C	Z	4.808	4.5
54	MP4C	Mx	.001	4.5
55	MP2A	X	-2.009	1.5
56	MP2A	Z	3.479	1.5
57	MP2A	Mx	.001	1.5
58	MP2A	X	-2.009	3.5
59	MP2A	Z	3.479	3.5
60	MP2A	Mx	.001	3.5
61	MP2B	X	-.914	1.5
62	MP2B	Z	1.583	1.5
63	MP2B	Mx	-.001	1.5
64	MP2B	X	-.914	3.5
65	MP2B	Z	1.583	3.5
66	MP2B	Mx	-.001	3.5
67	MP2C	X	-2.009	1.5
68	MP2C	Z	3.479	1.5
69	MP2C	Mx	.001	1.5
70	MP2C	X	-2.009	3.5
71	MP2C	Z	3.479	3.5
72	MP2C	Mx	.001	3.5
73	MP3A	X	-3.733	2
74	MP3A	Z	6.465	2
75	MP3A	Mx	-.002	2
76	MP1A	X	-1.782	2
77	MP1A	Z	3.086	2
78	MP1A	Mx	-.000891	2
79	MP1B	X	-1.303	2
80	MP1B	Z	2.256	2
81	MP1B	Mx	.001	2
82	MP1C	X	-1.782	2
83	MP1C	Z	3.086	2
84	MP1C	Mx	-.000891	2
85	MP4A	X	-2.156	2
86	MP4A	Z	3.734	2
87	MP4A	Mx	-.001	2
88	MP4B	X	-1.597	2
89	MP4B	Z	2.766	2
90	MP4B	Mx	.002	2
91	MP4C	X	-2.156	2
92	MP4C	Z	3.734	2
93	MP4C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-2.53	1
2	MP3A	Z	1.46	1
3	MP3A	Mx	.001	1
4	MP3A	X	-2.53	4
5	MP3A	Z	1.46	4
6	MP3A	Mx	.001	4
7	MP3B	X	-2.53	1
8	MP3B	Z	1.46	1
9	MP3B	Mx	-.001	1
10	MP3B	X	-2.53	4
11	MP3B	Z	1.46	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP3B	Mx	-.001	4
13	MP3C	X	-3.656	1
14	MP3C	Z	2.111	1
15	MP3C	Mx	0	1
16	MP3C	X	-3.656	4
17	MP3C	Z	2.111	4
18	MP3C	Mx	0	4
19	MP1A	X	-4.163	.5
20	MP1A	Z	2.403	.5
21	MP1A	Mx	.002	.5
22	MP1A	X	-4.163	4.5
23	MP1A	Z	2.403	4.5
24	MP1A	Mx	.002	4.5
25	MP1B	X	-4.163	.5
26	MP1B	Z	2.403	.5
27	MP1B	Mx	-.002	.5
28	MP1B	X	-4.163	4.5
29	MP1B	Z	2.403	4.5
30	MP1B	Mx	-.002	4.5
31	MP1C	X	-5.131	.5
32	MP1C	Z	2.962	.5
33	MP1C	Mx	0	.5
34	MP1C	X	-5.131	4.5
35	MP1C	Z	2.962	4.5
36	MP1C	Mx	0	4.5
37	MP4A	X	-4.163	.5
38	MP4A	Z	2.403	.5
39	MP4A	Mx	.002	.5
40	MP4A	X	-4.163	4.5
41	MP4A	Z	2.403	4.5
42	MP4A	Mx	.002	4.5
43	MP4B	X	-4.163	.5
44	MP4B	Z	2.403	.5
45	MP4B	Mx	-.002	.5
46	MP4B	X	-4.163	4.5
47	MP4B	Z	2.403	4.5
48	MP4B	Mx	-.002	4.5
49	MP4C	X	-5.131	.5
50	MP4C	Z	2.962	.5
51	MP4C	Mx	0	.5
52	MP4C	X	-5.131	4.5
53	MP4C	Z	2.962	4.5
54	MP4C	Mx	0	4.5
55	MP2A	X	-2.215	1.5
56	MP2A	Z	1.279	1.5
57	MP2A	Mx	.001	1.5
58	MP2A	X	-2.215	3.5
59	MP2A	Z	1.279	3.5
60	MP2A	Mx	.001	3.5
61	MP2B	X	-2.215	1.5
62	MP2B	Z	1.279	1.5
63	MP2B	Mx	-.001	1.5
64	MP2B	X	-2.215	3.5
65	MP2B	Z	1.279	3.5
66	MP2B	Mx	-.001	3.5
67	MP2C	X	-4.111	1.5
68	MP2C	Z	2.374	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
69	MP2C	Mx	0	1.5
70	MP2C	X	-4.111	3.5
71	MP2C	Z	2.374	3.5
72	MP2C	Mx	0	3.5
73	MP3A	X	-5.641	2
74	MP3A	Z	3.257	2
75	MP3A	Mx	-.003	2
76	MP1A	X	-2.533	2
77	MP1A	Z	1.462	2
78	MP1A	Mx	-.001	2
79	MP1B	X	-2.533	2
80	MP1B	Z	1.462	2
81	MP1B	Mx	.001	2
82	MP1C	X	-3.363	2
83	MP1C	Z	1.942	2
84	MP1C	Mx	0	2
85	MP4A	X	-3.089	2
86	MP4A	Z	1.783	2
87	MP4A	Mx	-.002	2
88	MP4B	X	-3.089	2
89	MP4B	Z	1.783	2
90	MP4B	Mx	.002	2
91	MP4C	X	-4.057	2
92	MP4C	Z	2.342	2
93	MP4C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-2.487	1
2	MP3A	Z	0	1
3	MP3A	Mx	.001	1
4	MP3A	X	-2.487	4
5	MP3A	Z	0	4
6	MP3A	Mx	.001	4
7	MP3B	X	-3.788	1
8	MP3B	Z	0	1
9	MP3B	Mx	-.000947	1
10	MP3B	X	-3.788	4
11	MP3B	Z	0	4
12	MP3B	Mx	-.000947	4
13	MP3C	X	-3.788	1
14	MP3C	Z	0	1
15	MP3C	Mx	-.000947	1
16	MP3C	X	-3.788	4
17	MP3C	Z	0	4
18	MP3C	Mx	-.000947	4
19	MP1A	X	-4.434	.5
20	MP1A	Z	0	.5
21	MP1A	Mx	.002	.5
22	MP1A	X	-4.434	4.5
23	MP1A	Z	0	4.5
24	MP1A	Mx	.002	4.5
25	MP1B	X	-5.552	.5
26	MP1B	Z	0	.5
27	MP1B	Mx	-.001	.5
28	MP1B	X	-5.552	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP1B	Z	0	4.5
30	MP1B	Mx	-.001	4.5
31	MP1C	X	-5.552	.5
32	MP1C	Z	0	.5
33	MP1C	Mx	-.001	.5
34	MP1C	X	-5.552	4.5
35	MP1C	Z	0	4.5
36	MP1C	Mx	-.001	4.5
37	MP4A	X	-4.434	.5
38	MP4A	Z	0	.5
39	MP4A	Mx	.002	.5
40	MP4A	X	-4.434	4.5
41	MP4A	Z	0	4.5
42	MP4A	Mx	.002	4.5
43	MP4B	X	-5.552	.5
44	MP4B	Z	0	.5
45	MP4B	Mx	-.001	.5
46	MP4B	X	-5.552	4.5
47	MP4B	Z	0	4.5
48	MP4B	Mx	-.001	4.5
49	MP4C	X	-5.552	.5
50	MP4C	Z	0	.5
51	MP4C	Mx	-.001	.5
52	MP4C	X	-5.552	4.5
53	MP4C	Z	0	4.5
54	MP4C	Mx	-.001	4.5
55	MP2A	X	-1.828	1.5
56	MP2A	Z	0	1.5
57	MP2A	Mx	.001	1.5
58	MP2A	X	-1.828	3.5
59	MP2A	Z	0	3.5
60	MP2A	Mx	.001	3.5
61	MP2B	X	-4.018	1.5
62	MP2B	Z	0	1.5
63	MP2B	Mx	-.001	1.5
64	MP2B	X	-4.018	3.5
65	MP2B	Z	0	3.5
66	MP2B	Mx	-.001	3.5
67	MP2C	X	-4.018	1.5
68	MP2C	Z	0	1.5
69	MP2C	Mx	-.001	1.5
70	MP2C	X	-4.018	3.5
71	MP2C	Z	0	3.5
72	MP2C	Mx	-.001	3.5
73	MP3A	X	-6.038	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.003	2
76	MP1A	X	-2.605	2
77	MP1A	Z	0	2
78	MP1A	Mx	-.001	2
79	MP1B	X	-3.564	2
80	MP1B	Z	0	2
81	MP1B	Mx	.000891	2
82	MP1C	X	-3.564	2
83	MP1C	Z	0	2
84	MP1C	Mx	.000891	2
85	MP4A	X	-3.194	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP4A	Z	0	2
87	MP4A	Mx	-.002	2
88	MP4B	X	-4.312	2
89	MP4B	Z	0	2
90	MP4B	Mx	.001	2
91	MP4C	X	-4.312	2
92	MP4C	Z	0	2
93	MP4C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-2.53	1
2	MP3A	Z	-1.46	1
3	MP3A	Mx	.001	1
4	MP3A	X	-2.53	4
5	MP3A	Z	-1.46	4
6	MP3A	Mx	.001	4
7	MP3B	X	-3.656	1
8	MP3B	Z	-2.111	1
9	MP3B	Mx	0	1
10	MP3B	X	-3.656	4
11	MP3B	Z	-2.111	4
12	MP3B	Mx	0	4
13	MP3C	X	-2.53	1
14	MP3C	Z	-1.46	1
15	MP3C	Mx	-.001	1
16	MP3C	X	-2.53	4
17	MP3C	Z	-1.46	4
18	MP3C	Mx	-.001	4
19	MP1A	X	-4.163	.5
20	MP1A	Z	-2.403	.5
21	MP1A	Mx	.002	.5
22	MP1A	X	-4.163	4.5
23	MP1A	Z	-2.403	4.5
24	MP1A	Mx	.002	4.5
25	MP1B	X	-5.131	.5
26	MP1B	Z	-2.962	.5
27	MP1B	Mx	0	.5
28	MP1B	X	-5.131	4.5
29	MP1B	Z	-2.962	4.5
30	MP1B	Mx	0	4.5
31	MP1C	X	-4.163	.5
32	MP1C	Z	-2.403	.5
33	MP1C	Mx	-.002	.5
34	MP1C	X	-4.163	4.5
35	MP1C	Z	-2.403	4.5
36	MP1C	Mx	-.002	4.5
37	MP4A	X	-4.163	.5
38	MP4A	Z	-2.403	.5
39	MP4A	Mx	.002	.5
40	MP4A	X	-4.163	4.5
41	MP4A	Z	-2.403	4.5
42	MP4A	Mx	.002	4.5
43	MP4B	X	-5.131	.5
44	MP4B	Z	-2.962	.5
45	MP4B	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP4B	X	-5.131	4.5
47	MP4B	Z	-2.962	4.5
48	MP4B	Mx	0	4.5
49	MP4C	X	-4.163	.5
50	MP4C	Z	-2.403	.5
51	MP4C	Mx	-.002	.5
52	MP4C	X	-4.163	4.5
53	MP4C	Z	-2.403	4.5
54	MP4C	Mx	-.002	4.5
55	MP2A	X	-2.215	1.5
56	MP2A	Z	-1.279	1.5
57	MP2A	Mx	.001	1.5
58	MP2A	X	-2.215	3.5
59	MP2A	Z	-1.279	3.5
60	MP2A	Mx	.001	3.5
61	MP2B	X	-4.111	1.5
62	MP2B	Z	-2.374	1.5
63	MP2B	Mx	0	1.5
64	MP2B	X	-4.111	3.5
65	MP2B	Z	-2.374	3.5
66	MP2B	Mx	0	3.5
67	MP2C	X	-2.215	1.5
68	MP2C	Z	-1.279	1.5
69	MP2C	Mx	-.001	1.5
70	MP2C	X	-2.215	3.5
71	MP2C	Z	-1.279	3.5
72	MP2C	Mx	-.001	3.5
73	MP3A	X	-5.641	2
74	MP3A	Z	-3.257	2
75	MP3A	Mx	-.003	2
76	MP1A	X	-2.533	2
77	MP1A	Z	-1.462	2
78	MP1A	Mx	-.001	2
79	MP1B	X	-3.363	2
80	MP1B	Z	-1.942	2
81	MP1B	Mx	0	2
82	MP1C	X	-2.533	2
83	MP1C	Z	-1.462	2
84	MP1C	Mx	.001	2
85	MP4A	X	-3.089	2
86	MP4A	Z	-1.783	2
87	MP4A	Mx	-.002	2
88	MP4B	X	-4.057	2
89	MP4B	Z	-2.342	2
90	MP4B	Mx	0	2
91	MP4C	X	-3.089	2
92	MP4C	Z	-1.783	2
93	MP4C	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.894	1
2	MP3A	Z	-3.28	1
3	MP3A	Mx	.000947	1
4	MP3A	X	-1.894	4
5	MP3A	Z	-3.28	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
6	MP3A	Mx	.000947	4
7	MP3B	X	-1.894	1
8	MP3B	Z	-3.28	1
9	MP3B	Mx	.000947	1
10	MP3B	X	-1.894	4
11	MP3B	Z	-3.28	4
12	MP3B	Mx	.000947	4
13	MP3C	X	-1.244	1
14	MP3C	Z	-2.154	1
15	MP3C	Mx	-.001	1
16	MP3C	X	-1.244	4
17	MP3C	Z	-2.154	4
18	MP3C	Mx	-.001	4
19	MP1A	X	-2.776	.5
20	MP1A	Z	-4.808	.5
21	MP1A	Mx	.001	.5
22	MP1A	X	-2.776	4.5
23	MP1A	Z	-4.808	4.5
24	MP1A	Mx	.001	4.5
25	MP1B	X	-2.776	.5
26	MP1B	Z	-4.808	.5
27	MP1B	Mx	.001	.5
28	MP1B	X	-2.776	4.5
29	MP1B	Z	-4.808	4.5
30	MP1B	Mx	.001	4.5
31	MP1C	X	-2.217	.5
32	MP1C	Z	-3.84	.5
33	MP1C	Mx	-.002	.5
34	MP1C	X	-2.217	4.5
35	MP1C	Z	-3.84	4.5
36	MP1C	Mx	-.002	4.5
37	MP4A	X	-2.776	.5
38	MP4A	Z	-4.808	.5
39	MP4A	Mx	.001	.5
40	MP4A	X	-2.776	4.5
41	MP4A	Z	-4.808	4.5
42	MP4A	Mx	.001	4.5
43	MP4B	X	-2.776	.5
44	MP4B	Z	-4.808	.5
45	MP4B	Mx	.001	.5
46	MP4B	X	-2.776	4.5
47	MP4B	Z	-4.808	4.5
48	MP4B	Mx	.001	4.5
49	MP4C	X	-2.217	.5
50	MP4C	Z	-3.84	.5
51	MP4C	Mx	-.002	.5
52	MP4C	X	-2.217	4.5
53	MP4C	Z	-3.84	4.5
54	MP4C	Mx	-.002	4.5
55	MP2A	X	-2.009	1.5
56	MP2A	Z	-3.479	1.5
57	MP2A	Mx	.001	1.5
58	MP2A	X	-2.009	3.5
59	MP2A	Z	-3.479	3.5
60	MP2A	Mx	.001	3.5
61	MP2B	X	-2.009	1.5
62	MP2B	Z	-3.479	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
63	MP2B	Mx	.001	1.5
64	MP2B	X	-2.009	3.5
65	MP2B	Z	-3.479	3.5
66	MP2B	Mx	.001	3.5
67	MP2C	X	-.914	1.5
68	MP2C	Z	-1.583	1.5
69	MP2C	Mx	-.001	1.5
70	MP2C	X	-.914	3.5
71	MP2C	Z	-1.583	3.5
72	MP2C	Mx	-.001	3.5
73	MP3A	X	-3.733	2
74	MP3A	Z	-6.465	2
75	MP3A	Mx	-.002	2
76	MP1A	X	-1.782	2
77	MP1A	Z	-3.086	2
78	MP1A	Mx	-.000891	2
79	MP1B	X	-1.782	2
80	MP1B	Z	-3.086	2
81	MP1B	Mx	-.000891	2
82	MP1C	X	-1.303	2
83	MP1C	Z	-2.256	2
84	MP1C	Mx	.001	2
85	MP4A	X	-2.156	2
86	MP4A	Z	-3.734	2
87	MP4A	Mx	-.001	2
88	MP4B	X	-2.156	2
89	MP4B	Z	-3.734	2
90	MP4B	Mx	-.001	2
91	MP4C	X	-1.597	2
92	MP4C	Z	-2.766	2
93	MP4C	Mx	.002	2

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M24	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M25	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M7A	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M7A	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Y	-.124	1
2	MP3A	My	-6.2e-5	1
3	MP3A	Mz	0	1
4	MP3A	Y	-.124	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP3A	My	-6.2e-5	4
6	MP3A	Mz	0	4
7	MP3B	Y	-.124	1
8	MP3B	My	3.1e-5	1
9	MP3B	Mz	-5.4e-5	1
10	MP3B	Y	-.124	4
11	MP3B	My	3.1e-5	4
12	MP3B	Mz	-5.4e-5	4
13	MP3C	Y	-.124	1
14	MP3C	My	3.1e-5	1
15	MP3C	Mz	5.4e-5	1
16	MP3C	Y	-.124	4
17	MP3C	My	3.1e-5	4
18	MP3C	Mz	5.4e-5	4
19	MP1A	Y	-.978	.5
20	MP1A	My	-.000489	.5
21	MP1A	Mz	0	.5
22	MP1A	Y	-.978	4.5
23	MP1A	My	-.000489	4.5
24	MP1A	Mz	0	4.5
25	MP1B	Y	-.978	.5
26	MP1B	My	.000245	.5
27	MP1B	Mz	-.000424	.5
28	MP1B	Y	-.978	4.5
29	MP1B	My	.000245	4.5
30	MP1B	Mz	-.000424	4.5
31	MP1C	Y	-.978	.5
32	MP1C	My	.000245	.5
33	MP1C	Mz	.000424	.5
34	MP1C	Y	-.978	4.5
35	MP1C	My	.000245	4.5
36	MP1C	Mz	.000424	4.5
37	MP4A	Y	-.978	.5
38	MP4A	My	-.000489	.5
39	MP4A	Mz	0	.5
40	MP4A	Y	-.978	4.5
41	MP4A	My	-.000489	4.5
42	MP4A	Mz	0	4.5
43	MP4B	Y	-.978	.5
44	MP4B	My	.000245	.5
45	MP4B	Mz	-.000424	.5
46	MP4B	Y	-.978	4.5
47	MP4B	My	.000245	4.5
48	MP4B	Mz	-.000424	4.5
49	MP4C	Y	-.978	.5
50	MP4C	My	.000245	.5
51	MP4C	Mz	.000424	.5
52	MP4C	Y	-.978	4.5
53	MP4C	My	.000245	4.5
54	MP4C	Mz	.000424	4.5
55	MP2A	Y	-.719	1.5
56	MP2A	My	-.000479	1.5
57	MP2A	Mz	0	1.5
58	MP2A	Y	-.719	3.5
59	MP2A	My	-.000479	3.5
60	MP2A	Mz	0	3.5
61	MP2B	Y	-.719	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
62	MP2B	My	.00024	1.5
63	MP2B	Mz	-.000415	1.5
64	MP2B	Y	-.719	3.5
65	MP2B	My	.00024	3.5
66	MP2B	Mz	-.000415	3.5
67	MP2C	Y	-.719	1.5
68	MP2C	My	.00024	1.5
69	MP2C	Mz	.000415	1.5
70	MP2C	Y	-.719	3.5
71	MP2C	My	.00024	3.5
72	MP2C	Mz	.000415	3.5
73	MP3A	Y	-.803	2
74	MP3A	My	.000401	2
75	MP3A	Mz	0	2
76	MP1A	Y	-1.873	2
77	MP1A	My	.000937	2
78	MP1A	Mz	0	2
79	MP1B	Y	-1.873	2
80	MP1B	My	-.000468	2
81	MP1B	Mz	.000811	2
82	MP1C	Y	-1.873	2
83	MP1C	My	-.000468	2
84	MP1C	Mz	-.000811	2
85	MP4A	Y	-1.984	2
86	MP4A	My	.000992	2
87	MP4A	Mz	0	2
88	MP4B	Y	-1.984	2
89	MP4B	My	-.000496	2
90	MP4B	Mz	.000859	2
91	MP4C	Y	-1.984	2
92	MP4C	My	-.000496	2
93	MP4C	Mz	-.000859	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Z	-.31	1
2	MP3A	Mx	0	1
3	MP3A	Z	-.31	4
4	MP3A	Mx	0	4
5	MP3B	Z	-.31	1
6	MP3B	Mx	.000134	1
7	MP3B	Z	-.31	4
8	MP3B	Mx	.000134	4
9	MP3C	Z	-.31	1
10	MP3C	Mx	-.000134	1
11	MP3C	Z	-.31	4
12	MP3C	Mx	-.000134	4
13	MP1A	Z	-2.445	.5
14	MP1A	Mx	0	.5
15	MP1A	Z	-2.445	4.5
16	MP1A	Mx	0	4.5
17	MP1B	Z	-2.445	.5
18	MP1B	Mx	.001	.5
19	MP1B	Z	-2.445	4.5
20	MP1B	Mx	.001	4.5
21	MP1C	Z	-2.445	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
22	MP1C	Mx	-.001	.5
23	MP1C	Z	-2.445	4.5
24	MP1C	Mx	-.001	4.5
25	MP4A	Z	-2.445	.5
26	MP4A	Mx	0	.5
27	MP4A	Z	-2.445	4.5
28	MP4A	Mx	0	4.5
29	MP4B	Z	-2.445	.5
30	MP4B	Mx	.001	.5
31	MP4B	Z	-2.445	4.5
32	MP4B	Mx	.001	4.5
33	MP4C	Z	-2.445	.5
34	MP4C	Mx	-.001	.5
35	MP4C	Z	-2.445	4.5
36	MP4C	Mx	-.001	4.5
37	MP2A	Z	-1.796	1.5
38	MP2A	Mx	0	1.5
39	MP2A	Z	-1.796	3.5
40	MP2A	Mx	0	3.5
41	MP2B	Z	-1.796	1.5
42	MP2B	Mx	.001	1.5
43	MP2B	Z	-1.796	3.5
44	MP2B	Mx	.001	3.5
45	MP2C	Z	-1.796	1.5
46	MP2C	Mx	-.001	1.5
47	MP2C	Z	-1.796	3.5
48	MP2C	Mx	-.001	3.5
49	MP3A	Z	-2.006	2
50	MP3A	Mx	0	2
51	MP1A	Z	-4.684	2
52	MP1A	Mx	0	2
53	MP1B	Z	-4.684	2
54	MP1B	Mx	-.002	2
55	MP1C	Z	-4.684	2
56	MP1C	Mx	.002	2
57	MP4A	Z	-4.96	2
58	MP4A	Mx	0	2
59	MP4B	Z	-4.96	2
60	MP4B	Mx	-.002	2
61	MP4C	Z	-4.96	2
62	MP4C	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	.31	1
2	MP3A	Mx	-.000155	1
3	MP3A	X	.31	4
4	MP3A	Mx	-.000155	4
5	MP3B	X	.31	1
6	MP3B	Mx	7.8e-5	1
7	MP3B	X	.31	4
8	MP3B	Mx	7.8e-5	4
9	MP3C	X	.31	1
10	MP3C	Mx	7.8e-5	1
11	MP3C	X	.31	4
12	MP3C	Mx	7.8e-5	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP1A	X	2.445	.5
14	MP1A	Mx	-.001	.5
15	MP1A	X	2.445	4.5
16	MP1A	Mx	-.001	4.5
17	MP1B	X	2.445	.5
18	MP1B	Mx	.000611	.5
19	MP1B	X	2.445	4.5
20	MP1B	Mx	.000611	4.5
21	MP1C	X	2.445	.5
22	MP1C	Mx	.000611	.5
23	MP1C	X	2.445	4.5
24	MP1C	Mx	.000611	4.5
25	MP4A	X	2.445	.5
26	MP4A	Mx	-.001	.5
27	MP4A	X	2.445	4.5
28	MP4A	Mx	-.001	4.5
29	MP4B	X	2.445	.5
30	MP4B	Mx	.000611	.5
31	MP4B	X	2.445	4.5
32	MP4B	Mx	.000611	4.5
33	MP4C	X	2.445	.5
34	MP4C	Mx	.000611	.5
35	MP4C	X	2.445	4.5
36	MP4C	Mx	.000611	4.5
37	MP2A	X	1.796	1.5
38	MP2A	Mx	-.001	1.5
39	MP2A	X	1.796	3.5
40	MP2A	Mx	-.001	3.5
41	MP2B	X	1.796	1.5
42	MP2B	Mx	.000599	1.5
43	MP2B	X	1.796	3.5
44	MP2B	Mx	.000599	3.5
45	MP2C	X	1.796	1.5
46	MP2C	Mx	.000599	1.5
47	MP2C	X	1.796	3.5
48	MP2C	Mx	.000599	3.5
49	MP3A	X	2.006	2
50	MP3A	Mx	.001	2
51	MP1A	X	4.684	2
52	MP1A	Mx	.002	2
53	MP1B	X	4.684	2
54	MP1B	Mx	-.001	2
55	MP1C	X	4.684	2
56	MP1C	Mx	-.001	2
57	MP4A	X	4.96	2
58	MP4A	Mx	.002	2
59	MP4B	X	4.96	2
60	MP4B	Mx	-.001	2
61	MP4C	X	4.96	2
62	MP4C	Mx	-.001	2

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	Y	-9.34	-9.34	0	%100
2	M2	Y	-10.313	-10.313	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
3	M5	Y	-9.812	-9.812	0	%100
4	M6	Y	-9.812	-9.812	0	%100
5	M7	Y	-9.812	-9.812	0	%100
6	M6A	Y	-7.393	-7.393	0	%100
7	M7A	Y	-7.393	-7.393	0	%100
8	M23A	Y	-7.393	-7.393	0	%100
9	M39A	Y	-7.393	-7.393	0	%100
10	M12	Y	-7.393	-7.393	0	%100
11	M14	Y	-7.393	-7.393	0	%100
12	M18A	Y	-9.34	-9.34	0	%100
13	M19	Y	-10.313	-10.313	0	%100
14	M20	Y	-9.34	-9.34	0	%100
15	M21	Y	-10.313	-10.313	0	%100
16	MP1A	Y	-4.821	-4.821	0	%100
17	MP2A	Y	-5.51	-5.51	0	%100
18	MP3A	Y	-4.821	-4.821	0	%100
19	MP4A	Y	-4.821	-4.821	0	%100
20	MP1C	Y	-4.821	-4.821	0	%100
21	MP2C	Y	-5.51	-5.51	0	%100
22	MP3C	Y	-4.821	-4.821	0	%100
23	MP4C	Y	-4.821	-4.821	0	%100
24	MP1B	Y	-4.821	-4.821	0	%100
25	MP2B	Y	-5.51	-5.51	0	%100
26	MP3B	Y	-4.821	-4.821	0	%100
27	MP4B	Y	-4.821	-4.821	0	%100
28	M47	Y	-4.821	-4.821	0	%100
29	M49A	Y	-5.51	-5.51	0	%100
30	M54	Y	-5.51	-5.51	0	%100
31	M59	Y	-5.51	-5.51	0	%100
32	M70	Y	-7.393	-7.393	0	%100
33	M71	Y	-7.393	-7.393	0	%100
34	M72	Y	-7.393	-7.393	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	-2.3e-5	-2.3e-5	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-12.376	-12.376	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-12.376	-12.376	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-20.042	-20.042	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-20.042	-20.042	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-5.01	-5.01	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	-5.01	-5.01	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-5.001	-5.001	0	%100
21	M14	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
22	M14	Z	-5.01	-5.01	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	-8.518	-8.518	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	-11.08	-11.08	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	-8.518	-8.518	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	-11.08	-11.08	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-9.52	-9.52	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-11.524	-11.524	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-9.52	-9.52	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-9.52	-9.52	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	-9.52	-9.52	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-11.524	-11.524	0	%100
43	MP3C	X	0	0	0	%100
44	MP3C	Z	-9.52	-9.52	0	%100
45	MP4C	X	0	0	0	%100
46	MP4C	Z	-9.52	-9.52	0	%100
47	MP1B	X	0	0	0	%100
48	MP1B	Z	-9.52	-9.52	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	-11.524	-11.524	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	-9.52	-9.52	0	%100
53	MP4B	X	0	0	0	%100
54	MP4B	Z	-9.52	-9.52	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-6.486	-6.486	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	-11.524	-11.524	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	-2.881	-2.881	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	-2.881	-2.881	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	-3.95	-3.95	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	-3.95	-3.95	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	-15.8	-15.8	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.42	1.42	0	%100
2	M1	Z	-2.459	-2.459	0	%100
3	M2	X	1.847	1.847	0	%100
4	M2	Z	-3.199	-3.199	0	%100
5	M5	X	2.057	2.057	0	%100
6	M5	Z	-3.563	-3.563	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
7	M6	X	2.057	2.057	0	%100
8	M6	Z	-3.563	-3.563	0	%100
9	M7	X	8.262	8.262	0	%100
10	M7	Z	-14.311	-14.311	0	%100
11	M6A	X	7.516	7.516	0	%100
12	M6A	Z	-13.017	-13.017	0	%100
13	M7A	X	7.516	7.516	0	%100
14	M7A	Z	-13.017	-13.017	0	%100
15	M23A	X	7.516	7.516	0	%100
16	M23A	Z	-13.017	-13.017	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	7.511	7.511	0	%100
20	M12	Z	-13.009	-13.009	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	1.42	1.42	0	%100
24	M18A	Z	-2.459	-2.459	0	%100
25	M19	X	1.847	1.847	0	%100
26	M19	Z	-3.199	-3.199	0	%100
27	M20	X	5.678	5.678	0	%100
28	M20	Z	-9.835	-9.835	0	%100
29	M21	X	7.387	7.387	0	%100
30	M21	Z	-12.794	-12.794	0	%100
31	MP1A	X	4.76	4.76	0	%100
32	MP1A	Z	-8.244	-8.244	0	%100
33	MP2A	X	5.762	5.762	0	%100
34	MP2A	Z	-9.98	-9.98	0	%100
35	MP3A	X	4.76	4.76	0	%100
36	MP3A	Z	-8.244	-8.244	0	%100
37	MP4A	X	4.76	4.76	0	%100
38	MP4A	Z	-8.244	-8.244	0	%100
39	MP1C	X	4.76	4.76	0	%100
40	MP1C	Z	-8.244	-8.244	0	%100
41	MP2C	X	5.762	5.762	0	%100
42	MP2C	Z	-9.98	-9.98	0	%100
43	MP3C	X	4.76	4.76	0	%100
44	MP3C	Z	-8.244	-8.244	0	%100
45	MP4C	X	4.76	4.76	0	%100
46	MP4C	Z	-8.244	-8.244	0	%100
47	MP1B	X	4.76	4.76	0	%100
48	MP1B	Z	-8.244	-8.244	0	%100
49	MP2B	X	5.762	5.762	0	%100
50	MP2B	Z	-9.98	-9.98	0	%100
51	MP3B	X	4.76	4.76	0	%100
52	MP3B	Z	-8.244	-8.244	0	%100
53	MP4B	X	4.76	4.76	0	%100
54	MP4B	Z	-8.244	-8.244	0	%100
55	M47	X	3.243	3.243	0	%100
56	M47	Z	-5.617	-5.617	0	%100
57	M49A	X	4.321	4.321	0	%100
58	M49A	Z	-7.485	-7.485	0	%100
59	M54	X	4.321	4.321	0	%100
60	M54	Z	-7.485	-7.485	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	5.925	5.925	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
64	M70	Z	-10.263	-10.263	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	5.925	5.925	0	%100
68	M72	Z	-10.263	-10.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	7.377	7.377	0	%100
2	M1	Z	-4.259	-4.259	0	%100
3	M2	X	9.596	9.596	0	%100
4	M2	Z	-5.54	-5.54	0	%100
5	M5	X	10.718	10.718	0	%100
6	M5	Z	-6.188	-6.188	0	%100
7	M6	X	2e-5	2e-5	0	%100
8	M6	Z	-1.2e-5	-1.2e-5	0	%100
9	M7	X	10.748	10.748	0	%100
10	M7	Z	-6.205	-6.205	0	%100
11	M6A	X	4.339	4.339	0	%100
12	M6A	Z	-2.505	-2.505	0	%100
13	M7A	X	4.339	4.339	0	%100
14	M7A	Z	-2.505	-2.505	0	%100
15	M23A	X	17.357	17.357	0	%100
16	M23A	Z	-10.021	-10.021	0	%100
17	M39A	X	4.339	4.339	0	%100
18	M39A	Z	-2.505	-2.505	0	%100
19	M12	X	17.357	17.357	0	%100
20	M12	Z	-10.021	-10.021	0	%100
21	M14	X	4.339	4.339	0	%100
22	M14	Z	-2.505	-2.505	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	7.377	7.377	0	%100
28	M20	Z	-4.259	-4.259	0	%100
29	M21	X	9.596	9.596	0	%100
30	M21	Z	-5.54	-5.54	0	%100
31	MP1A	X	8.244	8.244	0	%100
32	MP1A	Z	-4.76	-4.76	0	%100
33	MP2A	X	9.98	9.98	0	%100
34	MP2A	Z	-5.762	-5.762	0	%100
35	MP3A	X	8.244	8.244	0	%100
36	MP3A	Z	-4.76	-4.76	0	%100
37	MP4A	X	8.244	8.244	0	%100
38	MP4A	Z	-4.76	-4.76	0	%100
39	MP1C	X	8.244	8.244	0	%100
40	MP1C	Z	-4.76	-4.76	0	%100
41	MP2C	X	9.98	9.98	0	%100
42	MP2C	Z	-5.762	-5.762	0	%100
43	MP3C	X	8.244	8.244	0	%100
44	MP3C	Z	-4.76	-4.76	0	%100
45	MP4C	X	8.244	8.244	0	%100
46	MP4C	Z	-4.76	-4.76	0	%100
47	MP1B	X	8.244	8.244	0	%100
48	MP1B	Z	-4.76	-4.76	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
49	MP2B	X	9.98	9.98	0	%100
50	MP2B	Z	-5.762	-5.762	0	%100
51	MP3B	X	8.244	8.244	0	%100
52	MP3B	Z	-4.76	-4.76	0	%100
53	MP4B	X	8.244	8.244	0	%100
54	MP4B	Z	-4.76	-4.76	0	%100
55	M47	X	5.617	5.617	0	%100
56	M47	Z	-3.243	-3.243	0	%100
57	M49A	X	2.495	2.495	0	%100
58	M49A	Z	-1.44	-1.44	0	%100
59	M54	X	9.98	9.98	0	%100
60	M54	Z	-5.762	-5.762	0	%100
61	M59	X	2.495	2.495	0	%100
62	M59	Z	-1.44	-1.44	0	%100
63	M70	X	13.683	13.683	0	%100
64	M70	Z	-7.9	-7.9	0	%100
65	M71	X	3.421	3.421	0	%100
66	M71	Z	-1.975	-1.975	0	%100
67	M72	X	3.421	3.421	0	%100
68	M72	Z	-1.975	-1.975	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	11.357	11.357	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	14.774	14.774	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	16.524	16.524	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	4.148	4.148	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	4.148	4.148	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	15.031	15.031	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	15.031	15.031	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	15.041	15.041	0	%100
20	M12	Z	0	0	0	%100
21	M14	X	15.031	15.031	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	2.839	2.839	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	3.693	3.693	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	2.839	2.839	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	3.693	3.693	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	9.52	9.52	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	11.524	11.524	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
34	MP2A	Z	0	0	0	%100
35	MP3A	X	9.52	9.52	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	9.52	9.52	0	%100
38	MP4A	Z	0	0	0	%100
39	MP1C	X	9.52	9.52	0	%100
40	MP1C	Z	0	0	0	%100
41	MP2C	X	11.524	11.524	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3C	X	9.52	9.52	0	%100
44	MP3C	Z	0	0	0	%100
45	MP4C	X	9.52	9.52	0	%100
46	MP4C	Z	0	0	0	%100
47	MP1B	X	9.52	9.52	0	%100
48	MP1B	Z	0	0	0	%100
49	MP2B	X	11.524	11.524	0	%100
50	MP2B	Z	0	0	0	%100
51	MP3B	X	9.52	9.52	0	%100
52	MP3B	Z	0	0	0	%100
53	MP4B	X	9.52	9.52	0	%100
54	MP4B	Z	0	0	0	%100
55	M47	X	6.486	6.486	0	%100
56	M47	Z	0	0	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	0	0	0	%100
59	M54	X	8.643	8.643	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	8.643	8.643	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	11.85	11.85	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	11.85	11.85	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	7.377	7.377	0	%100
2	M1	Z	4.259	4.259	0	%100
3	M2	X	9.596	9.596	0	%100
4	M2	Z	5.54	5.54	0	%100
5	M5	X	10.748	10.748	0	%100
6	M5	Z	6.205	6.205	0	%100
7	M6	X	10.748	10.748	0	%100
8	M6	Z	6.205	6.205	0	%100
9	M7	X	2e-5	2e-5	0	%100
10	M7	Z	1.2e-5	1.2e-5	0	%100
11	M6A	X	4.339	4.339	0	%100
12	M6A	Z	2.505	2.505	0	%100
13	M7A	X	4.339	4.339	0	%100
14	M7A	Z	2.505	2.505	0	%100
15	M23A	X	4.339	4.339	0	%100
16	M23A	Z	2.505	2.505	0	%100
17	M39A	X	17.357	17.357	0	%100
18	M39A	Z	10.021	10.021	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
19	M12	X	4.347	4.347	0	%100
20	M12	Z	2.51	2.51	0	%100
21	M14	X	17.357	17.357	0	%100
22	M14	Z	10.021	10.021	0	%100
23	M18A	X	7.377	7.377	0	%100
24	M18A	Z	4.259	4.259	0	%100
25	M19	X	9.596	9.596	0	%100
26	M19	Z	5.54	5.54	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	8.244	8.244	0	%100
32	MP1A	Z	4.76	4.76	0	%100
33	MP2A	X	9.98	9.98	0	%100
34	MP2A	Z	5.762	5.762	0	%100
35	MP3A	X	8.244	8.244	0	%100
36	MP3A	Z	4.76	4.76	0	%100
37	MP4A	X	8.244	8.244	0	%100
38	MP4A	Z	4.76	4.76	0	%100
39	MP1C	X	8.244	8.244	0	%100
40	MP1C	Z	4.76	4.76	0	%100
41	MP2C	X	9.98	9.98	0	%100
42	MP2C	Z	5.762	5.762	0	%100
43	MP3C	X	8.244	8.244	0	%100
44	MP3C	Z	4.76	4.76	0	%100
45	MP4C	X	8.244	8.244	0	%100
46	MP4C	Z	4.76	4.76	0	%100
47	MP1B	X	8.244	8.244	0	%100
48	MP1B	Z	4.76	4.76	0	%100
49	MP2B	X	9.98	9.98	0	%100
50	MP2B	Z	5.762	5.762	0	%100
51	MP3B	X	8.244	8.244	0	%100
52	MP3B	Z	4.76	4.76	0	%100
53	MP4B	X	8.244	8.244	0	%100
54	MP4B	Z	4.76	4.76	0	%100
55	M47	X	5.617	5.617	0	%100
56	M47	Z	3.243	3.243	0	%100
57	M49A	X	2.495	2.495	0	%100
58	M49A	Z	1.44	1.44	0	%100
59	M54	X	2.495	2.495	0	%100
60	M54	Z	1.44	1.44	0	%100
61	M59	X	9.98	9.98	0	%100
62	M59	Z	5.762	5.762	0	%100
63	M70	X	3.421	3.421	0	%100
64	M70	Z	1.975	1.975	0	%100
65	M71	X	13.683	13.683	0	%100
66	M71	Z	7.9	7.9	0	%100
67	M72	X	3.421	3.421	0	%100
68	M72	Z	1.975	1.975	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.42	1.42	0	%100
2	M1	Z	2.459	2.459	0	%100
3	M2	X	1.847	1.847	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
4	M2	Z	3.199	3.199	0	%100
5	M5	X	2.074	2.074	0	%100
6	M5	Z	3.592	3.592	0	%100
7	M6	X	8.262	8.262	0	%100
8	M6	Z	14.311	14.311	0	%100
9	M7	X	2.057	2.057	0	%100
10	M7	Z	3.563	3.563	0	%100
11	M6A	X	7.516	7.516	0	%100
12	M6A	Z	13.017	13.017	0	%100
13	M7A	X	7.516	7.516	0	%100
14	M7A	Z	13.017	13.017	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	7.516	7.516	0	%100
18	M39A	Z	13.017	13.017	0	%100
19	M12	X	3e-6	3e-6	0	%100
20	M12	Z	5e-6	5e-6	0	%100
21	M14	X	7.516	7.516	0	%100
22	M14	Z	13.017	13.017	0	%100
23	M18A	X	5.678	5.678	0	%100
24	M18A	Z	9.835	9.835	0	%100
25	M19	X	7.387	7.387	0	%100
26	M19	Z	12.794	12.794	0	%100
27	M20	X	1.42	1.42	0	%100
28	M20	Z	2.459	2.459	0	%100
29	M21	X	1.847	1.847	0	%100
30	M21	Z	3.199	3.199	0	%100
31	MP1A	X	4.76	4.76	0	%100
32	MP1A	Z	8.244	8.244	0	%100
33	MP2A	X	5.762	5.762	0	%100
34	MP2A	Z	9.98	9.98	0	%100
35	MP3A	X	4.76	4.76	0	%100
36	MP3A	Z	8.244	8.244	0	%100
37	MP4A	X	4.76	4.76	0	%100
38	MP4A	Z	8.244	8.244	0	%100
39	MP1C	X	4.76	4.76	0	%100
40	MP1C	Z	8.244	8.244	0	%100
41	MP2C	X	5.762	5.762	0	%100
42	MP2C	Z	9.98	9.98	0	%100
43	MP3C	X	4.76	4.76	0	%100
44	MP3C	Z	8.244	8.244	0	%100
45	MP4C	X	4.76	4.76	0	%100
46	MP4C	Z	8.244	8.244	0	%100
47	MP1B	X	4.76	4.76	0	%100
48	MP1B	Z	8.244	8.244	0	%100
49	MP2B	X	5.762	5.762	0	%100
50	MP2B	Z	9.98	9.98	0	%100
51	MP3B	X	4.76	4.76	0	%100
52	MP3B	Z	8.244	8.244	0	%100
53	MP4B	X	4.76	4.76	0	%100
54	MP4B	Z	8.244	8.244	0	%100
55	M47	X	3.243	3.243	0	%100
56	M47	Z	5.617	5.617	0	%100
57	M49A	X	4.321	4.321	0	%100
58	M49A	Z	7.485	7.485	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
61	M59	X	4.321	4.321	0	%100
62	M59	Z	7.485	7.485	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	5.925	5.925	0	%100
66	M71	Z	10.263	10.263	0	%100
67	M72	X	5.925	5.925	0	%100
68	M72	Z	10.263	10.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	2.3e-5	2.3e-5	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	12.376	12.376	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	12.376	12.376	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	20.042	20.042	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	20.042	20.042	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	5.01	5.01	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	5.01	5.01	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	5.001	5.001	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	5.01	5.01	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	8.518	8.518	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	11.08	11.08	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	8.518	8.518	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	11.08	11.08	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	9.52	9.52	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	11.524	11.524	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	9.52	9.52	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	9.52	9.52	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	9.52	9.52	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	11.524	11.524	0	%100
43	MP3C	X	0	0	0	%100
44	MP3C	Z	9.52	9.52	0	%100
45	MP4C	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
46	MP4C	Z	9.52	9.52	0	%100
47	MP1B	X	0	0	0	%100
48	MP1B	Z	9.52	9.52	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	11.524	11.524	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	9.52	9.52	0	%100
53	MP4B	X	0	0	0	%100
54	MP4B	Z	9.52	9.52	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	6.486	6.486	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	11.524	11.524	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	2.881	2.881	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	2.881	2.881	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	3.95	3.95	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	3.95	3.95	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	15.8	15.8	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.42	-1.42	0	%100
2	M1	Z	2.459	2.459	0	%100
3	M2	X	-1.847	-1.847	0	%100
4	M2	Z	3.199	3.199	0	%100
5	M5	X	-2.057	-2.057	0	%100
6	M5	Z	3.563	3.563	0	%100
7	M6	X	-2.057	-2.057	0	%100
8	M6	Z	3.563	3.563	0	%100
9	M7	X	-8.262	-8.262	0	%100
10	M7	Z	14.311	14.311	0	%100
11	M6A	X	-7.516	-7.516	0	%100
12	M6A	Z	13.017	13.017	0	%100
13	M7A	X	-7.516	-7.516	0	%100
14	M7A	Z	13.017	13.017	0	%100
15	M23A	X	-7.516	-7.516	0	%100
16	M23A	Z	13.017	13.017	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	-7.511	-7.511	0	%100
20	M12	Z	13.009	13.009	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	-1.42	-1.42	0	%100
24	M18A	Z	2.459	2.459	0	%100
25	M19	X	-1.847	-1.847	0	%100
26	M19	Z	3.199	3.199	0	%100
27	M20	X	-5.678	-5.678	0	%100
28	M20	Z	9.835	9.835	0	%100
29	M21	X	-7.387	-7.387	0	%100
30	M21	Z	12.794	12.794	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
31	MP1A	X	-4.76	-4.76	0	%100
32	MP1A	Z	8.244	8.244	0	%100
33	MP2A	X	-5.762	-5.762	0	%100
34	MP2A	Z	9.98	9.98	0	%100
35	MP3A	X	-4.76	-4.76	0	%100
36	MP3A	Z	8.244	8.244	0	%100
37	MP4A	X	-4.76	-4.76	0	%100
38	MP4A	Z	8.244	8.244	0	%100
39	MP1C	X	-4.76	-4.76	0	%100
40	MP1C	Z	8.244	8.244	0	%100
41	MP2C	X	-5.762	-5.762	0	%100
42	MP2C	Z	9.98	9.98	0	%100
43	MP3C	X	-4.76	-4.76	0	%100
44	MP3C	Z	8.244	8.244	0	%100
45	MP4C	X	-4.76	-4.76	0	%100
46	MP4C	Z	8.244	8.244	0	%100
47	MP1B	X	-4.76	-4.76	0	%100
48	MP1B	Z	8.244	8.244	0	%100
49	MP2B	X	-5.762	-5.762	0	%100
50	MP2B	Z	9.98	9.98	0	%100
51	MP3B	X	-4.76	-4.76	0	%100
52	MP3B	Z	8.244	8.244	0	%100
53	MP4B	X	-4.76	-4.76	0	%100
54	MP4B	Z	8.244	8.244	0	%100
55	M47	X	-3.243	-3.243	0	%100
56	M47	Z	5.617	5.617	0	%100
57	M49A	X	-4.321	-4.321	0	%100
58	M49A	Z	7.485	7.485	0	%100
59	M54	X	-4.321	-4.321	0	%100
60	M54	Z	7.485	7.485	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	-5.925	-5.925	0	%100
64	M70	Z	10.263	10.263	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-5.925	-5.925	0	%100
68	M72	Z	10.263	10.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-7.377	-7.377	0	%100
2	M1	Z	4.259	4.259	0	%100
3	M2	X	-9.596	-9.596	0	%100
4	M2	Z	5.54	5.54	0	%100
5	M5	X	-10.718	-10.718	0	%100
6	M5	Z	6.188	6.188	0	%100
7	M6	X	-2e-5	-2e-5	0	%100
8	M6	Z	1.2e-5	1.2e-5	0	%100
9	M7	X	-10.748	-10.748	0	%100
10	M7	Z	6.205	6.205	0	%100
11	M6A	X	-4.339	-4.339	0	%100
12	M6A	Z	2.505	2.505	0	%100
13	M7A	X	-4.339	-4.339	0	%100
14	M7A	Z	2.505	2.505	0	%100
15	M23A	X	-17.357	-17.357	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M23A	Z	10.021	10.021	0	%100
17	M39A	X	-4.339	-4.339	0	%100
18	M39A	Z	2.505	2.505	0	%100
19	M12	X	-17.357	-17.357	0	%100
20	M12	Z	10.021	10.021	0	%100
21	M14	X	-4.339	-4.339	0	%100
22	M14	Z	2.505	2.505	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	-7.377	-7.377	0	%100
28	M20	Z	4.259	4.259	0	%100
29	M21	X	-9.596	-9.596	0	%100
30	M21	Z	5.54	5.54	0	%100
31	MP1A	X	-8.244	-8.244	0	%100
32	MP1A	Z	4.76	4.76	0	%100
33	MP2A	X	-9.98	-9.98	0	%100
34	MP2A	Z	5.762	5.762	0	%100
35	MP3A	X	-8.244	-8.244	0	%100
36	MP3A	Z	4.76	4.76	0	%100
37	MP4A	X	-8.244	-8.244	0	%100
38	MP4A	Z	4.76	4.76	0	%100
39	MP1C	X	-8.244	-8.244	0	%100
40	MP1C	Z	4.76	4.76	0	%100
41	MP2C	X	-9.98	-9.98	0	%100
42	MP2C	Z	5.762	5.762	0	%100
43	MP3C	X	-8.244	-8.244	0	%100
44	MP3C	Z	4.76	4.76	0	%100
45	MP4C	X	-8.244	-8.244	0	%100
46	MP4C	Z	4.76	4.76	0	%100
47	MP1B	X	-8.244	-8.244	0	%100
48	MP1B	Z	4.76	4.76	0	%100
49	MP2B	X	-9.98	-9.98	0	%100
50	MP2B	Z	5.762	5.762	0	%100
51	MP3B	X	-8.244	-8.244	0	%100
52	MP3B	Z	4.76	4.76	0	%100
53	MP4B	X	-8.244	-8.244	0	%100
54	MP4B	Z	4.76	4.76	0	%100
55	M47	X	-5.617	-5.617	0	%100
56	M47	Z	3.243	3.243	0	%100
57	M49A	X	-2.495	-2.495	0	%100
58	M49A	Z	1.44	1.44	0	%100
59	M54	X	-9.98	-9.98	0	%100
60	M54	Z	5.762	5.762	0	%100
61	M59	X	-2.495	-2.495	0	%100
62	M59	Z	1.44	1.44	0	%100
63	M70	X	-13.683	-13.683	0	%100
64	M70	Z	7.9	7.9	0	%100
65	M71	X	-3.421	-3.421	0	%100
66	M71	Z	1.975	1.975	0	%100
67	M72	X	-3.421	-3.421	0	%100
68	M72	Z	1.975	1.975	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
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Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-11.357	-11.357	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-14.774	-14.774	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-16.524	-16.524	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-4.148	-4.148	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-4.148	-4.148	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-15.031	-15.031	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-15.031	-15.031	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	-15.041	-15.041	0	%100
20	M12	Z	0	0	0	%100
21	M14	X	-15.031	-15.031	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	-2.839	-2.839	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	-3.693	-3.693	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	-2.839	-2.839	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	-3.693	-3.693	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	-9.52	-9.52	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	-11.524	-11.524	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	-9.52	-9.52	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	-9.52	-9.52	0	%100
38	MP4A	Z	0	0	0	%100
39	MP1C	X	-9.52	-9.52	0	%100
40	MP1C	Z	0	0	0	%100
41	MP2C	X	-11.524	-11.524	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3C	X	-9.52	-9.52	0	%100
44	MP3C	Z	0	0	0	%100
45	MP4C	X	-9.52	-9.52	0	%100
46	MP4C	Z	0	0	0	%100
47	MP1B	X	-9.52	-9.52	0	%100
48	MP1B	Z	0	0	0	%100
49	MP2B	X	-11.524	-11.524	0	%100
50	MP2B	Z	0	0	0	%100
51	MP3B	X	-9.52	-9.52	0	%100
52	MP3B	Z	0	0	0	%100
53	MP4B	X	-9.52	-9.52	0	%100
54	MP4B	Z	0	0	0	%100
55	M47	X	-6.486	-6.486	0	%100
56	M47	Z	0	0	0	%100
57	M49A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	M49A	Z	0	0	0	%100
59	M54	X	-8.643	-8.643	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	-8.643	-8.643	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	-11.85	-11.85	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-11.85	-11.85	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-7.377	-7.377	0	%100
2	M1	Z	-4.259	-4.259	0	%100
3	M2	X	-9.596	-9.596	0	%100
4	M2	Z	-5.54	-5.54	0	%100
5	M5	X	-10.748	-10.748	0	%100
6	M5	Z	-6.205	-6.205	0	%100
7	M6	X	-10.748	-10.748	0	%100
8	M6	Z	-6.205	-6.205	0	%100
9	M7	X	-2e-5	-2e-5	0	%100
10	M7	Z	-1.2e-5	-1.2e-5	0	%100
11	M6A	X	-4.339	-4.339	0	%100
12	M6A	Z	-2.505	-2.505	0	%100
13	M7A	X	-4.339	-4.339	0	%100
14	M7A	Z	-2.505	-2.505	0	%100
15	M23A	X	-4.339	-4.339	0	%100
16	M23A	Z	-2.505	-2.505	0	%100
17	M39A	X	-17.357	-17.357	0	%100
18	M39A	Z	-10.021	-10.021	0	%100
19	M12	X	-4.347	-4.347	0	%100
20	M12	Z	-2.51	-2.51	0	%100
21	M14	X	-17.357	-17.357	0	%100
22	M14	Z	-10.021	-10.021	0	%100
23	M18A	X	-7.377	-7.377	0	%100
24	M18A	Z	-4.259	-4.259	0	%100
25	M19	X	-9.596	-9.596	0	%100
26	M19	Z	-5.54	-5.54	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	-8.244	-8.244	0	%100
32	MP1A	Z	-4.76	-4.76	0	%100
33	MP2A	X	-9.98	-9.98	0	%100
34	MP2A	Z	-5.762	-5.762	0	%100
35	MP3A	X	-8.244	-8.244	0	%100
36	MP3A	Z	-4.76	-4.76	0	%100
37	MP4A	X	-8.244	-8.244	0	%100
38	MP4A	Z	-4.76	-4.76	0	%100
39	MP1C	X	-8.244	-8.244	0	%100
40	MP1C	Z	-4.76	-4.76	0	%100
41	MP2C	X	-9.98	-9.98	0	%100
42	MP2C	Z	-5.762	-5.762	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
43	MP3C	X	-8.244	-8.244	0	%100
44	MP3C	Z	-4.76	-4.76	0	%100
45	MP4C	X	-8.244	-8.244	0	%100
46	MP4C	Z	-4.76	-4.76	0	%100
47	MP1B	X	-8.244	-8.244	0	%100
48	MP1B	Z	-4.76	-4.76	0	%100
49	MP2B	X	-9.98	-9.98	0	%100
50	MP2B	Z	-5.762	-5.762	0	%100
51	MP3B	X	-8.244	-8.244	0	%100
52	MP3B	Z	-4.76	-4.76	0	%100
53	MP4B	X	-8.244	-8.244	0	%100
54	MP4B	Z	-4.76	-4.76	0	%100
55	M47	X	-5.617	-5.617	0	%100
56	M47	Z	-3.243	-3.243	0	%100
57	M49A	X	-2.495	-2.495	0	%100
58	M49A	Z	-1.44	-1.44	0	%100
59	M54	X	-2.495	-2.495	0	%100
60	M54	Z	-1.44	-1.44	0	%100
61	M59	X	-9.98	-9.98	0	%100
62	M59	Z	-5.762	-5.762	0	%100
63	M70	X	-3.421	-3.421	0	%100
64	M70	Z	-1.975	-1.975	0	%100
65	M71	X	-13.683	-13.683	0	%100
66	M71	Z	-7.9	-7.9	0	%100
67	M72	X	-3.421	-3.421	0	%100
68	M72	Z	-1.975	-1.975	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.42	-1.42	0	%100
2	M1	Z	-2.459	-2.459	0	%100
3	M2	X	-1.847	-1.847	0	%100
4	M2	Z	-3.199	-3.199	0	%100
5	M5	X	-2.074	-2.074	0	%100
6	M5	Z	-3.592	-3.592	0	%100
7	M6	X	-8.262	-8.262	0	%100
8	M6	Z	-14.311	-14.311	0	%100
9	M7	X	-2.057	-2.057	0	%100
10	M7	Z	-3.563	-3.563	0	%100
11	M6A	X	-7.516	-7.516	0	%100
12	M6A	Z	-13.017	-13.017	0	%100
13	M7A	X	-7.516	-7.516	0	%100
14	M7A	Z	-13.017	-13.017	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-7.516	-7.516	0	%100
18	M39A	Z	-13.017	-13.017	0	%100
19	M12	X	-3e-6	-3e-6	0	%100
20	M12	Z	-5e-6	-5e-6	0	%100
21	M14	X	-7.516	-7.516	0	%100
22	M14	Z	-13.017	-13.017	0	%100
23	M18A	X	-5.678	-5.678	0	%100
24	M18A	Z	-9.835	-9.835	0	%100
25	M19	X	-7.387	-7.387	0	%100
26	M19	Z	-12.794	-12.794	0	%100
27	M20	X	-1.42	-1.42	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
28	M20	Z	-2.459	-2.459	0	%100
29	M21	X	-1.847	-1.847	0	%100
30	M21	Z	-3.199	-3.199	0	%100
31	MP1A	X	-4.76	-4.76	0	%100
32	MP1A	Z	-8.244	-8.244	0	%100
33	MP2A	X	-5.762	-5.762	0	%100
34	MP2A	Z	-9.98	-9.98	0	%100
35	MP3A	X	-4.76	-4.76	0	%100
36	MP3A	Z	-8.244	-8.244	0	%100
37	MP4A	X	-4.76	-4.76	0	%100
38	MP4A	Z	-8.244	-8.244	0	%100
39	MP1C	X	-4.76	-4.76	0	%100
40	MP1C	Z	-8.244	-8.244	0	%100
41	MP2C	X	-5.762	-5.762	0	%100
42	MP2C	Z	-9.98	-9.98	0	%100
43	MP3C	X	-4.76	-4.76	0	%100
44	MP3C	Z	-8.244	-8.244	0	%100
45	MP4C	X	-4.76	-4.76	0	%100
46	MP4C	Z	-8.244	-8.244	0	%100
47	MP1B	X	-4.76	-4.76	0	%100
48	MP1B	Z	-8.244	-8.244	0	%100
49	MP2B	X	-5.762	-5.762	0	%100
50	MP2B	Z	-9.98	-9.98	0	%100
51	MP3B	X	-4.76	-4.76	0	%100
52	MP3B	Z	-8.244	-8.244	0	%100
53	MP4B	X	-4.76	-4.76	0	%100
54	MP4B	Z	-8.244	-8.244	0	%100
55	M47	X	-3.243	-3.243	0	%100
56	M47	Z	-5.617	-5.617	0	%100
57	M49A	X	-4.321	-4.321	0	%100
58	M49A	Z	-7.485	-7.485	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	-4.321	-4.321	0	%100
62	M59	Z	-7.485	-7.485	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-5.925	-5.925	0	%100
66	M71	Z	-10.263	-10.263	0	%100
67	M72	X	-5.925	-5.925	0	%100
68	M72	Z	-10.263	-10.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	-6e-6	-6e-6	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-3.199	-3.199	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-3.199	-3.199	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-5.048	-5.048	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
13	M7A	X	0	0	0	%100
14	M7A	Z	-5.048	-5.048	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-1.262	-1.262	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	-1.262	-1.262	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-1.26	-1.26	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	-1.262	-1.262	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	-2.203	-2.203	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	-2.766	-2.766	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	-2.203	-2.203	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	-2.766	-2.766	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-3.221	-3.221	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-3.569	-3.569	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-3.221	-3.221	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-3.221	-3.221	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	-3.221	-3.221	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-3.569	-3.569	0	%100
43	MP3C	X	0	0	0	%100
44	MP3C	Z	-3.221	-3.221	0	%100
45	MP4C	X	0	0	0	%100
46	MP4C	Z	-3.221	-3.221	0	%100
47	MP1B	X	0	0	0	%100
48	MP1B	Z	-3.221	-3.221	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	-3.569	-3.569	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	-3.221	-3.221	0	%100
53	MP4B	X	0	0	0	%100
54	MP4B	Z	-3.221	-3.221	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-2.207	-2.207	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	-3.569	-3.569	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	-0.892	-0.892	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	-0.892	-0.892	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	-1.015	-1.015	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	-1.015	-1.015	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	-4.061	-4.061	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.367	.367	0	%100
2	M1	Z	-.636	-.636	0	%100
3	M2	X	.461	.461	0	%100
4	M2	Z	-.798	-.798	0	%100
5	M5	X	.532	.532	0	%100
6	M5	Z	-.921	-.921	0	%100
7	M6	X	.532	.532	0	%100
8	M6	Z	-.921	-.921	0	%100
9	M7	X	2.135	2.135	0	%100
10	M7	Z	-3.698	-3.698	0	%100
11	M6A	X	1.893	1.893	0	%100
12	M6A	Z	-3.279	-3.279	0	%100
13	M7A	X	1.893	1.893	0	%100
14	M7A	Z	-3.279	-3.279	0	%100
15	M23A	X	1.893	1.893	0	%100
16	M23A	Z	-3.279	-3.279	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	1.892	1.892	0	%100
20	M12	Z	-3.277	-3.277	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	.367	.367	0	%100
24	M18A	Z	-.636	-.636	0	%100
25	M19	X	.461	.461	0	%100
26	M19	Z	-.798	-.798	0	%100
27	M20	X	1.469	1.469	0	%100
28	M20	Z	-2.544	-2.544	0	%100
29	M21	X	1.844	1.844	0	%100
30	M21	Z	-3.193	-3.193	0	%100
31	MP1A	X	1.611	1.611	0	%100
32	MP1A	Z	-2.79	-2.79	0	%100
33	MP2A	X	1.785	1.785	0	%100
34	MP2A	Z	-3.091	-3.091	0	%100
35	MP3A	X	1.611	1.611	0	%100
36	MP3A	Z	-2.79	-2.79	0	%100
37	MP4A	X	1.611	1.611	0	%100
38	MP4A	Z	-2.79	-2.79	0	%100
39	MP1C	X	1.611	1.611	0	%100
40	MP1C	Z	-2.79	-2.79	0	%100
41	MP2C	X	1.785	1.785	0	%100
42	MP2C	Z	-3.091	-3.091	0	%100
43	MP3C	X	1.611	1.611	0	%100
44	MP3C	Z	-2.79	-2.79	0	%100
45	MP4C	X	1.611	1.611	0	%100
46	MP4C	Z	-2.79	-2.79	0	%100
47	MP1B	X	1.611	1.611	0	%100
48	MP1B	Z	-2.79	-2.79	0	%100
49	MP2B	X	1.785	1.785	0	%100
50	MP2B	Z	-3.091	-3.091	0	%100
51	MP3B	X	1.611	1.611	0	%100
52	MP3B	Z	-2.79	-2.79	0	%100
53	MP4B	X	1.611	1.611	0	%100
54	MP4B	Z	-2.79	-2.79	0	%100
55	M47	X	1.103	1.103	0	%100
56	M47	Z	-1.911	-1.911	0	%100
57	M49A	X	1.338	1.338	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	M49A	Z	-2.318	-2.318	0	%100
59	M54	X	1.338	1.338	0	%100
60	M54	Z	-2.318	-2.318	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	1.523	1.523	0	%100
64	M70	Z	-2.638	-2.638	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	1.523	1.523	0	%100
68	M72	Z	-2.638	-2.638	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.908	1.908	0	%100
2	M1	Z	-1.102	-1.102	0	%100
3	M2	X	2.395	2.395	0	%100
4	M2	Z	-1.383	-1.383	0	%100
5	M5	X	2.77	2.77	0	%100
6	M5	Z	-1.599	-1.599	0	%100
7	M6	X	5e-6	5e-6	0	%100
8	M6	Z	-3e-6	-3e-6	0	%100
9	M7	X	2.778	2.778	0	%100
10	M7	Z	-1.604	-1.604	0	%100
11	M6A	X	1.093	1.093	0	%100
12	M6A	Z	-.631	-.631	0	%100
13	M7A	X	1.093	1.093	0	%100
14	M7A	Z	-.631	-.631	0	%100
15	M23A	X	4.372	4.372	0	%100
16	M23A	Z	-2.524	-2.524	0	%100
17	M39A	X	1.093	1.093	0	%100
18	M39A	Z	-.631	-.631	0	%100
19	M12	X	4.372	4.372	0	%100
20	M12	Z	-2.524	-2.524	0	%100
21	M14	X	1.093	1.093	0	%100
22	M14	Z	-.631	-.631	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	1.908	1.908	0	%100
28	M20	Z	-1.102	-1.102	0	%100
29	M21	X	2.395	2.395	0	%100
30	M21	Z	-1.383	-1.383	0	%100
31	MP1A	X	2.79	2.79	0	%100
32	MP1A	Z	-1.611	-1.611	0	%100
33	MP2A	X	3.091	3.091	0	%100
34	MP2A	Z	-1.785	-1.785	0	%100
35	MP3A	X	2.79	2.79	0	%100
36	MP3A	Z	-1.611	-1.611	0	%100
37	MP4A	X	2.79	2.79	0	%100
38	MP4A	Z	-1.611	-1.611	0	%100
39	MP1C	X	2.79	2.79	0	%100
40	MP1C	Z	-1.611	-1.611	0	%100
41	MP2C	X	3.091	3.091	0	%100
42	MP2C	Z	-1.785	-1.785	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
43	MP3C	X	2.79	2.79	0	%100
44	MP3C	Z	-1.611	-1.611	0	%100
45	MP4C	X	2.79	2.79	0	%100
46	MP4C	Z	-1.611	-1.611	0	%100
47	MP1B	X	2.79	2.79	0	%100
48	MP1B	Z	-1.611	-1.611	0	%100
49	MP2B	X	3.091	3.091	0	%100
50	MP2B	Z	-1.785	-1.785	0	%100
51	MP3B	X	2.79	2.79	0	%100
52	MP3B	Z	-1.611	-1.611	0	%100
53	MP4B	X	2.79	2.79	0	%100
54	MP4B	Z	-1.611	-1.611	0	%100
55	M47	X	1.911	1.911	0	%100
56	M47	Z	-1.103	-1.103	0	%100
57	M49A	X	.773	.773	0	%100
58	M49A	Z	-.446	-.446	0	%100
59	M54	X	3.091	3.091	0	%100
60	M54	Z	-1.785	-1.785	0	%100
61	M59	X	.773	.773	0	%100
62	M59	Z	-.446	-.446	0	%100
63	M70	X	3.517	3.517	0	%100
64	M70	Z	-2.031	-2.031	0	%100
65	M71	X	.879	.879	0	%100
66	M71	Z	-.508	-.508	0	%100
67	M72	X	.879	.879	0	%100
68	M72	Z	-.508	-.508	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.938	2.938	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.687	3.687	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	4.271	4.271	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	1.072	1.072	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	1.072	1.072	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	3.786	3.786	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	3.786	3.786	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	3.788	3.788	0	%100
20	M12	Z	0	0	0	%100
21	M14	X	3.786	3.786	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	.734	.734	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	.922	.922	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	.734	.734	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
28	M20	Z	0	0	0	%100
29	M21	X	.922	.922	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	3.221	3.221	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	3.569	3.569	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	3.221	3.221	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	3.221	3.221	0	%100
38	MP4A	Z	0	0	0	%100
39	MP1C	X	3.221	3.221	0	%100
40	MP1C	Z	0	0	0	%100
41	MP2C	X	3.569	3.569	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3C	X	3.221	3.221	0	%100
44	MP3C	Z	0	0	0	%100
45	MP4C	X	3.221	3.221	0	%100
46	MP4C	Z	0	0	0	%100
47	MP1B	X	3.221	3.221	0	%100
48	MP1B	Z	0	0	0	%100
49	MP2B	X	3.569	3.569	0	%100
50	MP2B	Z	0	0	0	%100
51	MP3B	X	3.221	3.221	0	%100
52	MP3B	Z	0	0	0	%100
53	MP4B	X	3.221	3.221	0	%100
54	MP4B	Z	0	0	0	%100
55	M47	X	2.207	2.207	0	%100
56	M47	Z	0	0	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	0	0	0	%100
59	M54	X	2.677	2.677	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	2.677	2.677	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	3.046	3.046	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	3.046	3.046	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.908	1.908	0	%100
2	M1	Z	1.102	1.102	0	%100
3	M2	X	2.395	2.395	0	%100
4	M2	Z	1.383	1.383	0	%100
5	M5	X	2.778	2.778	0	%100
6	M5	Z	1.604	1.604	0	%100
7	M6	X	2.778	2.778	0	%100
8	M6	Z	1.604	1.604	0	%100
9	M7	X	5e-6	5e-6	0	%100
10	M7	Z	3e-6	3e-6	0	%100
11	M6A	X	1.093	1.093	0	%100
12	M6A	Z	.631	.631	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft. %]	End Location[ft. %]
13	M7A	X	1.093	1.093	0	%100
14	M7A	Z	.631	.631	0	%100
15	M23A	X	1.093	1.093	0	%100
16	M23A	Z	.631	.631	0	%100
17	M39A	X	4.372	4.372	0	%100
18	M39A	Z	2.524	2.524	0	%100
19	M12	X	1.095	1.095	0	%100
20	M12	Z	.632	.632	0	%100
21	M14	X	4.372	4.372	0	%100
22	M14	Z	2.524	2.524	0	%100
23	M18A	X	1.908	1.908	0	%100
24	M18A	Z	1.102	1.102	0	%100
25	M19	X	2.395	2.395	0	%100
26	M19	Z	1.383	1.383	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	2.79	2.79	0	%100
32	MP1A	Z	1.611	1.611	0	%100
33	MP2A	X	3.091	3.091	0	%100
34	MP2A	Z	1.785	1.785	0	%100
35	MP3A	X	2.79	2.79	0	%100
36	MP3A	Z	1.611	1.611	0	%100
37	MP4A	X	2.79	2.79	0	%100
38	MP4A	Z	1.611	1.611	0	%100
39	MP1C	X	2.79	2.79	0	%100
40	MP1C	Z	1.611	1.611	0	%100
41	MP2C	X	3.091	3.091	0	%100
42	MP2C	Z	1.785	1.785	0	%100
43	MP3C	X	2.79	2.79	0	%100
44	MP3C	Z	1.611	1.611	0	%100
45	MP4C	X	2.79	2.79	0	%100
46	MP4C	Z	1.611	1.611	0	%100
47	MP1B	X	2.79	2.79	0	%100
48	MP1B	Z	1.611	1.611	0	%100
49	MP2B	X	3.091	3.091	0	%100
50	MP2B	Z	1.785	1.785	0	%100
51	MP3B	X	2.79	2.79	0	%100
52	MP3B	Z	1.611	1.611	0	%100
53	MP4B	X	2.79	2.79	0	%100
54	MP4B	Z	1.611	1.611	0	%100
55	M47	X	1.911	1.911	0	%100
56	M47	Z	1.103	1.103	0	%100
57	M49A	X	.773	.773	0	%100
58	M49A	Z	.446	.446	0	%100
59	M54	X	.773	.773	0	%100
60	M54	Z	.446	.446	0	%100
61	M59	X	3.091	3.091	0	%100
62	M59	Z	1.785	1.785	0	%100
63	M70	X	.879	.879	0	%100
64	M70	Z	.508	.508	0	%100
65	M71	X	3.517	3.517	0	%100
66	M71	Z	2.031	2.031	0	%100
67	M72	X	.879	.879	0	%100
68	M72	Z	.508	.508	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.367	.367	0	%100
2	M1	Z	.636	.636	0	%100
3	M2	X	.461	.461	0	%100
4	M2	Z	.798	.798	0	%100
5	M5	X	.536	.536	0	%100
6	M5	Z	.928	.928	0	%100
7	M6	X	2.135	2.135	0	%100
8	M6	Z	3.698	3.698	0	%100
9	M7	X	.532	.532	0	%100
10	M7	Z	.921	.921	0	%100
11	M6A	X	1.893	1.893	0	%100
12	M6A	Z	3.279	3.279	0	%100
13	M7A	X	1.893	1.893	0	%100
14	M7A	Z	3.279	3.279	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	1.893	1.893	0	%100
18	M39A	Z	3.279	3.279	0	%100
19	M12	X	1e-6	1e-6	0	%100
20	M12	Z	1e-6	1e-6	0	%100
21	M14	X	1.893	1.893	0	%100
22	M14	Z	3.279	3.279	0	%100
23	M18A	X	1.469	1.469	0	%100
24	M18A	Z	2.544	2.544	0	%100
25	M19	X	1.844	1.844	0	%100
26	M19	Z	3.193	3.193	0	%100
27	M20	X	.367	.367	0	%100
28	M20	Z	.636	.636	0	%100
29	M21	X	.461	.461	0	%100
30	M21	Z	.798	.798	0	%100
31	MP1A	X	1.611	1.611	0	%100
32	MP1A	Z	2.79	2.79	0	%100
33	MP2A	X	1.785	1.785	0	%100
34	MP2A	Z	3.091	3.091	0	%100
35	MP3A	X	1.611	1.611	0	%100
36	MP3A	Z	2.79	2.79	0	%100
37	MP4A	X	1.611	1.611	0	%100
38	MP4A	Z	2.79	2.79	0	%100
39	MP1C	X	1.611	1.611	0	%100
40	MP1C	Z	2.79	2.79	0	%100
41	MP2C	X	1.785	1.785	0	%100
42	MP2C	Z	3.091	3.091	0	%100
43	MP3C	X	1.611	1.611	0	%100
44	MP3C	Z	2.79	2.79	0	%100
45	MP4C	X	1.611	1.611	0	%100
46	MP4C	Z	2.79	2.79	0	%100
47	MP1B	X	1.611	1.611	0	%100
48	MP1B	Z	2.79	2.79	0	%100
49	MP2B	X	1.785	1.785	0	%100
50	MP2B	Z	3.091	3.091	0	%100
51	MP3B	X	1.611	1.611	0	%100
52	MP3B	Z	2.79	2.79	0	%100
53	MP4B	X	1.611	1.611	0	%100
54	MP4B	Z	2.79	2.79	0	%100
55	M47	X	1.103	1.103	0	%100
56	M47	Z	1.911	1.911	0	%100
57	M49A	X	1.338	1.338	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	M49A	Z	2.318	2.318	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	1.338	1.338	0	%100
62	M59	Z	2.318	2.318	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	1.523	1.523	0	%100
66	M71	Z	2.638	2.638	0	%100
67	M72	X	1.523	1.523	0	%100
68	M72	Z	2.638	2.638	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	6e-6	6e-6	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	3.199	3.199	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	3.199	3.199	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	5.048	5.048	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	5.048	5.048	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	1.262	1.262	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	1.262	1.262	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	1.26	1.26	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	1.262	1.262	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	2.203	2.203	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	2.766	2.766	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	2.203	2.203	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	2.766	2.766	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	3.221	3.221	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	3.569	3.569	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	3.221	3.221	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	3.221	3.221	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	3.221	3.221	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	3.569	3.569	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
43	MP3C	X	0	0	0	%100
44	MP3C	Z	3.221	3.221	0	%100
45	MP4C	X	0	0	0	%100
46	MP4C	Z	3.221	3.221	0	%100
47	MP1B	X	0	0	0	%100
48	MP1B	Z	3.221	3.221	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	3.569	3.569	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	3.221	3.221	0	%100
53	MP4B	X	0	0	0	%100
54	MP4B	Z	3.221	3.221	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	2.207	2.207	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	3.569	3.569	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	.892	.892	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	.892	.892	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	1.015	1.015	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	1.015	1.015	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	4.061	4.061	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.367	-.367	0	%100
2	M1	Z	.636	.636	0	%100
3	M2	X	-.461	-.461	0	%100
4	M2	Z	.798	.798	0	%100
5	M5	X	-.532	-.532	0	%100
6	M5	Z	.921	.921	0	%100
7	M6	X	-.532	-.532	0	%100
8	M6	Z	.921	.921	0	%100
9	M7	X	-2.135	-2.135	0	%100
10	M7	Z	3.698	3.698	0	%100
11	M6A	X	-1.893	-1.893	0	%100
12	M6A	Z	3.279	3.279	0	%100
13	M7A	X	-1.893	-1.893	0	%100
14	M7A	Z	3.279	3.279	0	%100
15	M23A	X	-1.893	-1.893	0	%100
16	M23A	Z	3.279	3.279	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	-1.892	-1.892	0	%100
20	M12	Z	3.277	3.277	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	-.367	-.367	0	%100
24	M18A	Z	.636	.636	0	%100
25	M19	X	-.461	-.461	0	%100
26	M19	Z	.798	.798	0	%100
27	M20	X	-1.469	-1.469	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F....	Start Location[ft.%]	End Location[ft.%]
28	M20	Z	2.544	2.544	0	%100
29	M21	X	-1.844	-1.844	0	%100
30	M21	Z	3.193	3.193	0	%100
31	MP1A	X	-1.611	-1.611	0	%100
32	MP1A	Z	2.79	2.79	0	%100
33	MP2A	X	-1.785	-1.785	0	%100
34	MP2A	Z	3.091	3.091	0	%100
35	MP3A	X	-1.611	-1.611	0	%100
36	MP3A	Z	2.79	2.79	0	%100
37	MP4A	X	-1.611	-1.611	0	%100
38	MP4A	Z	2.79	2.79	0	%100
39	MP1C	X	-1.611	-1.611	0	%100
40	MP1C	Z	2.79	2.79	0	%100
41	MP2C	X	-1.785	-1.785	0	%100
42	MP2C	Z	3.091	3.091	0	%100
43	MP3C	X	-1.611	-1.611	0	%100
44	MP3C	Z	2.79	2.79	0	%100
45	MP4C	X	-1.611	-1.611	0	%100
46	MP4C	Z	2.79	2.79	0	%100
47	MP1B	X	-1.611	-1.611	0	%100
48	MP1B	Z	2.79	2.79	0	%100
49	MP2B	X	-1.785	-1.785	0	%100
50	MP2B	Z	3.091	3.091	0	%100
51	MP3B	X	-1.611	-1.611	0	%100
52	MP3B	Z	2.79	2.79	0	%100
53	MP4B	X	-1.611	-1.611	0	%100
54	MP4B	Z	2.79	2.79	0	%100
55	M47	X	-1.103	-1.103	0	%100
56	M47	Z	1.911	1.911	0	%100
57	M49A	X	-1.338	-1.338	0	%100
58	M49A	Z	2.318	2.318	0	%100
59	M54	X	-1.338	-1.338	0	%100
60	M54	Z	2.318	2.318	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	-1.523	-1.523	0	%100
64	M70	Z	2.638	2.638	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-1.523	-1.523	0	%100
68	M72	Z	2.638	2.638	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.908	-1.908	0	%100
2	M1	Z	1.102	1.102	0	%100
3	M2	X	-2.395	-2.395	0	%100
4	M2	Z	1.383	1.383	0	%100
5	M5	X	-2.77	-2.77	0	%100
6	M5	Z	1.599	1.599	0	%100
7	M6	X	-5e-6	-5e-6	0	%100
8	M6	Z	3e-6	3e-6	0	%100
9	M7	X	-2.778	-2.778	0	%100
10	M7	Z	1.604	1.604	0	%100
11	M6A	X	-1.093	-1.093	0	%100
12	M6A	Z	.631	.631	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
13	M7A	X	-1.093	-1.093	0	%100
14	M7A	Z	.631	.631	0	%100
15	M23A	X	-4.372	-4.372	0	%100
16	M23A	Z	2.524	2.524	0	%100
17	M39A	X	-1.093	-1.093	0	%100
18	M39A	Z	.631	.631	0	%100
19	M12	X	-4.372	-4.372	0	%100
20	M12	Z	2.524	2.524	0	%100
21	M14	X	-1.093	-1.093	0	%100
22	M14	Z	.631	.631	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	-1.908	-1.908	0	%100
28	M20	Z	1.102	1.102	0	%100
29	M21	X	-2.395	-2.395	0	%100
30	M21	Z	1.383	1.383	0	%100
31	MP1A	X	-2.79	-2.79	0	%100
32	MP1A	Z	1.611	1.611	0	%100
33	MP2A	X	-3.091	-3.091	0	%100
34	MP2A	Z	1.785	1.785	0	%100
35	MP3A	X	-2.79	-2.79	0	%100
36	MP3A	Z	1.611	1.611	0	%100
37	MP4A	X	-2.79	-2.79	0	%100
38	MP4A	Z	1.611	1.611	0	%100
39	MP1C	X	-2.79	-2.79	0	%100
40	MP1C	Z	1.611	1.611	0	%100
41	MP2C	X	-3.091	-3.091	0	%100
42	MP2C	Z	1.785	1.785	0	%100
43	MP3C	X	-2.79	-2.79	0	%100
44	MP3C	Z	1.611	1.611	0	%100
45	MP4C	X	-2.79	-2.79	0	%100
46	MP4C	Z	1.611	1.611	0	%100
47	MP1B	X	-2.79	-2.79	0	%100
48	MP1B	Z	1.611	1.611	0	%100
49	MP2B	X	-3.091	-3.091	0	%100
50	MP2B	Z	1.785	1.785	0	%100
51	MP3B	X	-2.79	-2.79	0	%100
52	MP3B	Z	1.611	1.611	0	%100
53	MP4B	X	-2.79	-2.79	0	%100
54	MP4B	Z	1.611	1.611	0	%100
55	M47	X	-1.911	-1.911	0	%100
56	M47	Z	1.103	1.103	0	%100
57	M49A	X	-.773	-.773	0	%100
58	M49A	Z	.446	.446	0	%100
59	M54	X	-3.091	-3.091	0	%100
60	M54	Z	1.785	1.785	0	%100
61	M59	X	-.773	-.773	0	%100
62	M59	Z	.446	.446	0	%100
63	M70	X	-3.517	-3.517	0	%100
64	M70	Z	2.031	2.031	0	%100
65	M71	X	-.879	-.879	0	%100
66	M71	Z	.508	.508	0	%100
67	M72	X	-.879	-.879	0	%100
68	M72	Z	.508	.508	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.938	-2.938	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.687	-3.687	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-4.271	-4.271	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-1.072	-1.072	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-1.072	-1.072	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-3.786	-3.786	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-3.786	-3.786	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	-3.788	-3.788	0	%100
20	M12	Z	0	0	0	%100
21	M14	X	-3.786	-3.786	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	-.734	-.734	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	-.922	-.922	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	-.734	-.734	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	-.922	-.922	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	-3.221	-3.221	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	-3.569	-3.569	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	-3.221	-3.221	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	-3.221	-3.221	0	%100
38	MP4A	Z	0	0	0	%100
39	MP1C	X	-3.221	-3.221	0	%100
40	MP1C	Z	0	0	0	%100
41	MP2C	X	-3.569	-3.569	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3C	X	-3.221	-3.221	0	%100
44	MP3C	Z	0	0	0	%100
45	MP4C	X	-3.221	-3.221	0	%100
46	MP4C	Z	0	0	0	%100
47	MP1B	X	-3.221	-3.221	0	%100
48	MP1B	Z	0	0	0	%100
49	MP2B	X	-3.569	-3.569	0	%100
50	MP2B	Z	0	0	0	%100
51	MP3B	X	-3.221	-3.221	0	%100
52	MP3B	Z	0	0	0	%100
53	MP4B	X	-3.221	-3.221	0	%100
54	MP4B	Z	0	0	0	%100
55	M47	X	-2.207	-2.207	0	%100
56	M47	Z	0	0	0	%100
57	M49A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	M49A	Z	0	0	0	%100
59	M54	X	-2.677	-2.677	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	-2.677	-2.677	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	-3.046	-3.046	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-3.046	-3.046	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.908	-1.908	0	%100
2	M1	Z	-1.102	-1.102	0	%100
3	M2	X	-2.395	-2.395	0	%100
4	M2	Z	-1.383	-1.383	0	%100
5	M5	X	-2.778	-2.778	0	%100
6	M5	Z	-1.604	-1.604	0	%100
7	M6	X	-2.778	-2.778	0	%100
8	M6	Z	-1.604	-1.604	0	%100
9	M7	X	-5e-6	-5e-6	0	%100
10	M7	Z	-3e-6	-3e-6	0	%100
11	M6A	X	-1.093	-1.093	0	%100
12	M6A	Z	-.631	-.631	0	%100
13	M7A	X	-1.093	-1.093	0	%100
14	M7A	Z	-.631	-.631	0	%100
15	M23A	X	-1.093	-1.093	0	%100
16	M23A	Z	-.631	-.631	0	%100
17	M39A	X	-4.372	-4.372	0	%100
18	M39A	Z	-2.524	-2.524	0	%100
19	M12	X	-1.095	-1.095	0	%100
20	M12	Z	-.632	-.632	0	%100
21	M14	X	-4.372	-4.372	0	%100
22	M14	Z	-2.524	-2.524	0	%100
23	M18A	X	-1.908	-1.908	0	%100
24	M18A	Z	-1.102	-1.102	0	%100
25	M19	X	-2.395	-2.395	0	%100
26	M19	Z	-1.383	-1.383	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	-2.79	-2.79	0	%100
32	MP1A	Z	-1.611	-1.611	0	%100
33	MP2A	X	-3.091	-3.091	0	%100
34	MP2A	Z	-1.785	-1.785	0	%100
35	MP3A	X	-2.79	-2.79	0	%100
36	MP3A	Z	-1.611	-1.611	0	%100
37	MP4A	X	-2.79	-2.79	0	%100
38	MP4A	Z	-1.611	-1.611	0	%100
39	MP1C	X	-2.79	-2.79	0	%100
40	MP1C	Z	-1.611	-1.611	0	%100
41	MP2C	X	-3.091	-3.091	0	%100
42	MP2C	Z	-1.785	-1.785	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
43	MP3C	X	-2.79	-2.79	0	%100
44	MP3C	Z	-1.611	-1.611	0	%100
45	MP4C	X	-2.79	-2.79	0	%100
46	MP4C	Z	-1.611	-1.611	0	%100
47	MP1B	X	-2.79	-2.79	0	%100
48	MP1B	Z	-1.611	-1.611	0	%100
49	MP2B	X	-3.091	-3.091	0	%100
50	MP2B	Z	-1.785	-1.785	0	%100
51	MP3B	X	-2.79	-2.79	0	%100
52	MP3B	Z	-1.611	-1.611	0	%100
53	MP4B	X	-2.79	-2.79	0	%100
54	MP4B	Z	-1.611	-1.611	0	%100
55	M47	X	-1.911	-1.911	0	%100
56	M47	Z	-1.103	-1.103	0	%100
57	M49A	X	-.773	-.773	0	%100
58	M49A	Z	-.446	-.446	0	%100
59	M54	X	-.773	-.773	0	%100
60	M54	Z	-.446	-.446	0	%100
61	M59	X	-3.091	-3.091	0	%100
62	M59	Z	-1.785	-1.785	0	%100
63	M70	X	-.879	-.879	0	%100
64	M70	Z	-.508	-.508	0	%100
65	M71	X	-3.517	-3.517	0	%100
66	M71	Z	-2.031	-2.031	0	%100
67	M72	X	-.879	-.879	0	%100
68	M72	Z	-.508	-.508	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.367	-.367	0	%100
2	M1	Z	-.636	-.636	0	%100
3	M2	X	-.461	-.461	0	%100
4	M2	Z	-.798	-.798	0	%100
5	M5	X	-.536	-.536	0	%100
6	M5	Z	-.928	-.928	0	%100
7	M6	X	-2.135	-2.135	0	%100
8	M6	Z	-3.698	-3.698	0	%100
9	M7	X	-.532	-.532	0	%100
10	M7	Z	-.921	-.921	0	%100
11	M6A	X	-1.893	-1.893	0	%100
12	M6A	Z	-3.279	-3.279	0	%100
13	M7A	X	-1.893	-1.893	0	%100
14	M7A	Z	-3.279	-3.279	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-1.893	-1.893	0	%100
18	M39A	Z	-3.279	-3.279	0	%100
19	M12	X	-1e-6	-1e-6	0	%100
20	M12	Z	-1e-6	-1e-6	0	%100
21	M14	X	-1.893	-1.893	0	%100
22	M14	Z	-3.279	-3.279	0	%100
23	M18A	X	-1.469	-1.469	0	%100
24	M18A	Z	-2.544	-2.544	0	%100
25	M19	X	-1.844	-1.844	0	%100
26	M19	Z	-3.193	-3.193	0	%100
27	M20	X	-.367	-.367	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
28	M20	Z	- .636	- .636	0	%100
29	M21	X	- .461	- .461	0	%100
30	M21	Z	- .798	- .798	0	%100
31	MP1A	X	-1.611	-1.611	0	%100
32	MP1A	Z	-2.79	-2.79	0	%100
33	MP2A	X	-1.785	-1.785	0	%100
34	MP2A	Z	-3.091	-3.091	0	%100
35	MP3A	X	-1.611	-1.611	0	%100
36	MP3A	Z	-2.79	-2.79	0	%100
37	MP4A	X	-1.611	-1.611	0	%100
38	MP4A	Z	-2.79	-2.79	0	%100
39	MP1C	X	-1.611	-1.611	0	%100
40	MP1C	Z	-2.79	-2.79	0	%100
41	MP2C	X	-1.785	-1.785	0	%100
42	MP2C	Z	-3.091	-3.091	0	%100
43	MP3C	X	-1.611	-1.611	0	%100
44	MP3C	Z	-2.79	-2.79	0	%100
45	MP4C	X	-1.611	-1.611	0	%100
46	MP4C	Z	-2.79	-2.79	0	%100
47	MP1B	X	-1.611	-1.611	0	%100
48	MP1B	Z	-2.79	-2.79	0	%100
49	MP2B	X	-1.785	-1.785	0	%100
50	MP2B	Z	-3.091	-3.091	0	%100
51	MP3B	X	-1.611	-1.611	0	%100
52	MP3B	Z	-2.79	-2.79	0	%100
53	MP4B	X	-1.611	-1.611	0	%100
54	MP4B	Z	-2.79	-2.79	0	%100
55	M47	X	-1.103	-1.103	0	%100
56	M47	Z	-1.911	-1.911	0	%100
57	M49A	X	-1.338	-1.338	0	%100
58	M49A	Z	-2.318	-2.318	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	-1.338	-1.338	0	%100
62	M59	Z	-2.318	-2.318	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-1.523	-1.523	0	%100
66	M71	Z	-2.638	-2.638	0	%100
67	M72	X	-1.523	-1.523	0	%100
68	M72	Z	-2.638	-2.638	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	-1e-6	-1e-6	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	- .774	- .774	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	- .774	- .774	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-1.253	-1.253	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
13	M7A	X	0	0	0	%100
14	M7A	Z	-1.253	-1.253	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-.313	-.313	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	-.313	-.313	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-.313	-.313	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	-.313	-.313	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	-.532	-.532	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	-.693	-.693	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	-.532	-.532	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	-.693	-.693	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	-.595	-.595	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-.72	-.72	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	-.595	-.595	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.595	-.595	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	-.595	-.595	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-.72	-.72	0	%100
43	MP3C	X	0	0	0	%100
44	MP3C	Z	-.595	-.595	0	%100
45	MP4C	X	0	0	0	%100
46	MP4C	Z	-.595	-.595	0	%100
47	MP1B	X	0	0	0	%100
48	MP1B	Z	-.595	-.595	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	-.72	-.72	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	-.595	-.595	0	%100
53	MP4B	X	0	0	0	%100
54	MP4B	Z	-.595	-.595	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-.405	-.405	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	-.72	-.72	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	-.18	-.18	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	-.18	-.18	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	-.247	-.247	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	-.247	-.247	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	-.988	-.988	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.089	.089	0	%100
2	M1	Z	-.154	-.154	0	%100
3	M2	X	.115	.115	0	%100
4	M2	Z	-.2	-.2	0	%100
5	M5	X	.129	.129	0	%100
6	M5	Z	-.223	-.223	0	%100
7	M6	X	.129	.129	0	%100
8	M6	Z	-.223	-.223	0	%100
9	M7	X	.516	.516	0	%100
10	M7	Z	-.894	-.894	0	%100
11	M6A	X	.47	.47	0	%100
12	M6A	Z	-.814	-.814	0	%100
13	M7A	X	.47	.47	0	%100
14	M7A	Z	-.814	-.814	0	%100
15	M23A	X	.47	.47	0	%100
16	M23A	Z	-.814	-.814	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	.469	.469	0	%100
20	M12	Z	-.813	-.813	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	.089	.089	0	%100
24	M18A	Z	-.154	-.154	0	%100
25	M19	X	.115	.115	0	%100
26	M19	Z	-.2	-.2	0	%100
27	M20	X	.355	.355	0	%100
28	M20	Z	-.615	-.615	0	%100
29	M21	X	.462	.462	0	%100
30	M21	Z	-.8	-.8	0	%100
31	MP1A	X	.297	.297	0	%100
32	MP1A	Z	-.515	-.515	0	%100
33	MP2A	X	.36	.36	0	%100
34	MP2A	Z	-.624	-.624	0	%100
35	MP3A	X	.297	.297	0	%100
36	MP3A	Z	-.515	-.515	0	%100
37	MP4A	X	.297	.297	0	%100
38	MP4A	Z	-.515	-.515	0	%100
39	MP1C	X	.297	.297	0	%100
40	MP1C	Z	-.515	-.515	0	%100
41	MP2C	X	.36	.36	0	%100
42	MP2C	Z	-.624	-.624	0	%100
43	MP3C	X	.297	.297	0	%100
44	MP3C	Z	-.515	-.515	0	%100
45	MP4C	X	.297	.297	0	%100
46	MP4C	Z	-.515	-.515	0	%100
47	MP1B	X	.297	.297	0	%100
48	MP1B	Z	-.515	-.515	0	%100
49	MP2B	X	.36	.36	0	%100
50	MP2B	Z	-.624	-.624	0	%100
51	MP3B	X	.297	.297	0	%100
52	MP3B	Z	-.515	-.515	0	%100
53	MP4B	X	.297	.297	0	%100
54	MP4B	Z	-.515	-.515	0	%100
55	M47	X	.203	.203	0	%100
56	M47	Z	-.351	-.351	0	%100
57	M49A	X	.27	.27	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	M49A	Z	-.468	-.468	0	%100
59	M54	X	.27	.27	0	%100
60	M54	Z	-.468	-.468	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	.37	.37	0	%100
64	M70	Z	-.641	-.641	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	.37	.37	0	%100
68	M72	Z	-.641	-.641	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.461	.461	0	%100
2	M1	Z	-.266	-.266	0	%100
3	M2	X	.6	.6	0	%100
4	M2	Z	-.346	-.346	0	%100
5	M5	X	.67	.67	0	%100
6	M5	Z	-.387	-.387	0	%100
7	M6	X	1e-6	1e-6	0	%100
8	M6	Z	-1e-6	-1e-6	0	%100
9	M7	X	.672	.672	0	%100
10	M7	Z	-.388	-.388	0	%100
11	M6A	X	.271	.271	0	%100
12	M6A	Z	-.157	-.157	0	%100
13	M7A	X	.271	.271	0	%100
14	M7A	Z	-.157	-.157	0	%100
15	M23A	X	1.085	1.085	0	%100
16	M23A	Z	-.626	-.626	0	%100
17	M39A	X	.271	.271	0	%100
18	M39A	Z	-.157	-.157	0	%100
19	M12	X	1.085	1.085	0	%100
20	M12	Z	-.626	-.626	0	%100
21	M14	X	.271	.271	0	%100
22	M14	Z	-.157	-.157	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	.461	.461	0	%100
28	M20	Z	-.266	-.266	0	%100
29	M21	X	.6	.6	0	%100
30	M21	Z	-.346	-.346	0	%100
31	MP1A	X	.515	.515	0	%100
32	MP1A	Z	-.297	-.297	0	%100
33	MP2A	X	.624	.624	0	%100
34	MP2A	Z	-.36	-.36	0	%100
35	MP3A	X	.515	.515	0	%100
36	MP3A	Z	-.297	-.297	0	%100
37	MP4A	X	.515	.515	0	%100
38	MP4A	Z	-.297	-.297	0	%100
39	MP1C	X	.515	.515	0	%100
40	MP1C	Z	-.297	-.297	0	%100
41	MP2C	X	.624	.624	0	%100
42	MP2C	Z	-.36	-.36	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
43	MP3C	X	.515	.515	0	%100
44	MP3C	Z	-.297	-.297	0	%100
45	MP4C	X	.515	.515	0	%100
46	MP4C	Z	-.297	-.297	0	%100
47	MP1B	X	.515	.515	0	%100
48	MP1B	Z	-.297	-.297	0	%100
49	MP2B	X	.624	.624	0	%100
50	MP2B	Z	-.36	-.36	0	%100
51	MP3B	X	.515	.515	0	%100
52	MP3B	Z	-.297	-.297	0	%100
53	MP4B	X	.515	.515	0	%100
54	MP4B	Z	-.297	-.297	0	%100
55	M47	X	.351	.351	0	%100
56	M47	Z	-.203	-.203	0	%100
57	M49A	X	.156	.156	0	%100
58	M49A	Z	-.09	-.09	0	%100
59	M54	X	.624	.624	0	%100
60	M54	Z	-.36	-.36	0	%100
61	M59	X	.156	.156	0	%100
62	M59	Z	-.09	-.09	0	%100
63	M70	X	.855	.855	0	%100
64	M70	Z	-.494	-.494	0	%100
65	M71	X	.214	.214	0	%100
66	M71	Z	-.123	-.123	0	%100
67	M72	X	.214	.214	0	%100
68	M72	Z	-.123	-.123	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.71	.71	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.923	.923	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	1.033	1.033	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.259	.259	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.259	.259	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	.939	.939	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	.939	.939	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	.94	.94	0	%100
20	M12	Z	0	0	0	%100
21	M14	X	.939	.939	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	.177	.177	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	.231	.231	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	.177	.177	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
28	M20	Z	0	0	0	%100
29	M21	X	.231	.231	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	.595	.595	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	.72	.72	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	.595	.595	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	.595	.595	0	%100
38	MP4A	Z	0	0	0	%100
39	MP1C	X	.595	.595	0	%100
40	MP1C	Z	0	0	0	%100
41	MP2C	X	.72	.72	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3C	X	.595	.595	0	%100
44	MP3C	Z	0	0	0	%100
45	MP4C	X	.595	.595	0	%100
46	MP4C	Z	0	0	0	%100
47	MP1B	X	.595	.595	0	%100
48	MP1B	Z	0	0	0	%100
49	MP2B	X	.72	.72	0	%100
50	MP2B	Z	0	0	0	%100
51	MP3B	X	.595	.595	0	%100
52	MP3B	Z	0	0	0	%100
53	MP4B	X	.595	.595	0	%100
54	MP4B	Z	0	0	0	%100
55	M47	X	.405	.405	0	%100
56	M47	Z	0	0	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	0	0	0	%100
59	M54	X	.54	.54	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	.54	.54	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	.741	.741	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	.741	.741	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.461	.461	0	%100
2	M1	Z	.266	.266	0	%100
3	M2	X	.6	.6	0	%100
4	M2	Z	.346	.346	0	%100
5	M5	X	.672	.672	0	%100
6	M5	Z	.388	.388	0	%100
7	M6	X	.672	.672	0	%100
8	M6	Z	.388	.388	0	%100
9	M7	X	1e-6	1e-6	0	%100
10	M7	Z	1e-6	1e-6	0	%100
11	M6A	X	.271	.271	0	%100
12	M6A	Z	.157	.157	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
13	M7A	X	.271	.271	0	%100
14	M7A	Z	.157	.157	0	%100
15	M23A	X	.271	.271	0	%100
16	M23A	Z	.157	.157	0	%100
17	M39A	X	1.085	1.085	0	%100
18	M39A	Z	.626	.626	0	%100
19	M12	X	.272	.272	0	%100
20	M12	Z	.157	.157	0	%100
21	M14	X	1.085	1.085	0	%100
22	M14	Z	.626	.626	0	%100
23	M18A	X	.461	.461	0	%100
24	M18A	Z	.266	.266	0	%100
25	M19	X	.6	.6	0	%100
26	M19	Z	.346	.346	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	.515	.515	0	%100
32	MP1A	Z	.297	.297	0	%100
33	MP2A	X	.624	.624	0	%100
34	MP2A	Z	.36	.36	0	%100
35	MP3A	X	.515	.515	0	%100
36	MP3A	Z	.297	.297	0	%100
37	MP4A	X	.515	.515	0	%100
38	MP4A	Z	.297	.297	0	%100
39	MP1C	X	.515	.515	0	%100
40	MP1C	Z	.297	.297	0	%100
41	MP2C	X	.624	.624	0	%100
42	MP2C	Z	.36	.36	0	%100
43	MP3C	X	.515	.515	0	%100
44	MP3C	Z	.297	.297	0	%100
45	MP4C	X	.515	.515	0	%100
46	MP4C	Z	.297	.297	0	%100
47	MP1B	X	.515	.515	0	%100
48	MP1B	Z	.297	.297	0	%100
49	MP2B	X	.624	.624	0	%100
50	MP2B	Z	.36	.36	0	%100
51	MP3B	X	.515	.515	0	%100
52	MP3B	Z	.297	.297	0	%100
53	MP4B	X	.515	.515	0	%100
54	MP4B	Z	.297	.297	0	%100
55	M47	X	.351	.351	0	%100
56	M47	Z	.203	.203	0	%100
57	M49A	X	.156	.156	0	%100
58	M49A	Z	.09	.09	0	%100
59	M54	X	.156	.156	0	%100
60	M54	Z	.09	.09	0	%100
61	M59	X	.624	.624	0	%100
62	M59	Z	.36	.36	0	%100
63	M70	X	.214	.214	0	%100
64	M70	Z	.123	.123	0	%100
65	M71	X	.855	.855	0	%100
66	M71	Z	.494	.494	0	%100
67	M72	X	.214	.214	0	%100
68	M72	Z	.123	.123	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.089	.089	0	%100
2	M1	Z	.154	.154	0	%100
3	M2	X	.115	.115	0	%100
4	M2	Z	.2	.2	0	%100
5	M5	X	.13	.13	0	%100
6	M5	Z	.225	.225	0	%100
7	M6	X	.516	.516	0	%100
8	M6	Z	.894	.894	0	%100
9	M7	X	.129	.129	0	%100
10	M7	Z	.223	.223	0	%100
11	M6A	X	.47	.47	0	%100
12	M6A	Z	.814	.814	0	%100
13	M7A	X	.47	.47	0	%100
14	M7A	Z	.814	.814	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	.47	.47	0	%100
18	M39A	Z	.814	.814	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	0	0	0	%100
21	M14	X	.47	.47	0	%100
22	M14	Z	.814	.814	0	%100
23	M18A	X	.355	.355	0	%100
24	M18A	Z	.615	.615	0	%100
25	M19	X	.462	.462	0	%100
26	M19	Z	.8	.8	0	%100
27	M20	X	.089	.089	0	%100
28	M20	Z	.154	.154	0	%100
29	M21	X	.115	.115	0	%100
30	M21	Z	.2	.2	0	%100
31	MP1A	X	.297	.297	0	%100
32	MP1A	Z	.515	.515	0	%100
33	MP2A	X	.36	.36	0	%100
34	MP2A	Z	.624	.624	0	%100
35	MP3A	X	.297	.297	0	%100
36	MP3A	Z	.515	.515	0	%100
37	MP4A	X	.297	.297	0	%100
38	MP4A	Z	.515	.515	0	%100
39	MP1C	X	.297	.297	0	%100
40	MP1C	Z	.515	.515	0	%100
41	MP2C	X	.36	.36	0	%100
42	MP2C	Z	.624	.624	0	%100
43	MP3C	X	.297	.297	0	%100
44	MP3C	Z	.515	.515	0	%100
45	MP4C	X	.297	.297	0	%100
46	MP4C	Z	.515	.515	0	%100
47	MP1B	X	.297	.297	0	%100
48	MP1B	Z	.515	.515	0	%100
49	MP2B	X	.36	.36	0	%100
50	MP2B	Z	.624	.624	0	%100
51	MP3B	X	.297	.297	0	%100
52	MP3B	Z	.515	.515	0	%100
53	MP4B	X	.297	.297	0	%100
54	MP4B	Z	.515	.515	0	%100
55	M47	X	.203	.203	0	%100
56	M47	Z	.351	.351	0	%100
57	M49A	X	.27	.27	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	M49A	Z	.468	.468	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	.27	.27	0	%100
62	M59	Z	.468	.468	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	.37	.37	0	%100
66	M71	Z	.641	.641	0	%100
67	M72	X	.37	.37	0	%100
68	M72	Z	.641	.641	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	1e-6	1e-6	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.774	.774	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.774	.774	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	1.253	1.253	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	1.253	1.253	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	.313	.313	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	.313	.313	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	.313	.313	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	.313	.313	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	.532	.532	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	.693	.693	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	.532	.532	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	.693	.693	0	%100
31	MP1A	X	0	0	0	%100
32	MP1A	Z	.595	.595	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	.72	.72	0	%100
35	MP3A	X	0	0	0	%100
36	MP3A	Z	.595	.595	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.595	.595	0	%100
39	MP1C	X	0	0	0	%100
40	MP1C	Z	.595	.595	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	.72	.72	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
43	MP3C	X	0	0	0	%100
44	MP3C	Z	.595	.595	0	%100
45	MP4C	X	0	0	0	%100
46	MP4C	Z	.595	.595	0	%100
47	MP1B	X	0	0	0	%100
48	MP1B	Z	.595	.595	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	.72	.72	0	%100
51	MP3B	X	0	0	0	%100
52	MP3B	Z	.595	.595	0	%100
53	MP4B	X	0	0	0	%100
54	MP4B	Z	.595	.595	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	.405	.405	0	%100
57	M49A	X	0	0	0	%100
58	M49A	Z	.72	.72	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	.18	.18	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	.18	.18	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	.247	.247	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	.247	.247	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	.988	.988	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.089	-.089	0	%100
2	M1	Z	.154	.154	0	%100
3	M2	X	-.115	-.115	0	%100
4	M2	Z	.2	.2	0	%100
5	M5	X	-.129	-.129	0	%100
6	M5	Z	.223	.223	0	%100
7	M6	X	-.129	-.129	0	%100
8	M6	Z	.223	.223	0	%100
9	M7	X	-.516	-.516	0	%100
10	M7	Z	.894	.894	0	%100
11	M6A	X	-.47	-.47	0	%100
12	M6A	Z	.814	.814	0	%100
13	M7A	X	-.47	-.47	0	%100
14	M7A	Z	.814	.814	0	%100
15	M23A	X	-.47	-.47	0	%100
16	M23A	Z	.814	.814	0	%100
17	M39A	X	0	0	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	-.469	-.469	0	%100
20	M12	Z	.813	.813	0	%100
21	M14	X	0	0	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	-.089	-.089	0	%100
24	M18A	Z	.154	.154	0	%100
25	M19	X	-.115	-.115	0	%100
26	M19	Z	.2	.2	0	%100
27	M20	X	-.355	-.355	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
28	M20	Z	.615	.615	0	%100
29	M21	X	-.462	-.462	0	%100
30	M21	Z	.8	.8	0	%100
31	MP1A	X	-.297	-.297	0	%100
32	MP1A	Z	.515	.515	0	%100
33	MP2A	X	-.36	-.36	0	%100
34	MP2A	Z	.624	.624	0	%100
35	MP3A	X	-.297	-.297	0	%100
36	MP3A	Z	.515	.515	0	%100
37	MP4A	X	-.297	-.297	0	%100
38	MP4A	Z	.515	.515	0	%100
39	MP1C	X	-.297	-.297	0	%100
40	MP1C	Z	.515	.515	0	%100
41	MP2C	X	-.36	-.36	0	%100
42	MP2C	Z	.624	.624	0	%100
43	MP3C	X	-.297	-.297	0	%100
44	MP3C	Z	.515	.515	0	%100
45	MP4C	X	-.297	-.297	0	%100
46	MP4C	Z	.515	.515	0	%100
47	MP1B	X	-.297	-.297	0	%100
48	MP1B	Z	.515	.515	0	%100
49	MP2B	X	-.36	-.36	0	%100
50	MP2B	Z	.624	.624	0	%100
51	MP3B	X	-.297	-.297	0	%100
52	MP3B	Z	.515	.515	0	%100
53	MP4B	X	-.297	-.297	0	%100
54	MP4B	Z	.515	.515	0	%100
55	M47	X	-.203	-.203	0	%100
56	M47	Z	.351	.351	0	%100
57	M49A	X	-.27	-.27	0	%100
58	M49A	Z	.468	.468	0	%100
59	M54	X	-.27	-.27	0	%100
60	M54	Z	.468	.468	0	%100
61	M59	X	0	0	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	-.37	-.37	0	%100
64	M70	Z	.641	.641	0	%100
65	M71	X	0	0	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	-.37	-.37	0	%100
68	M72	Z	.641	.641	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.461	-.461	0	%100
2	M1	Z	.266	.266	0	%100
3	M2	X	-.6	-.6	0	%100
4	M2	Z	.346	.346	0	%100
5	M5	X	-.67	-.67	0	%100
6	M5	Z	.387	.387	0	%100
7	M6	X	-1e-6	-1e-6	0	%100
8	M6	Z	1e-6	1e-6	0	%100
9	M7	X	-.672	-.672	0	%100
10	M7	Z	.388	.388	0	%100
11	M6A	X	-.271	-.271	0	%100
12	M6A	Z	.157	.157	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft. %]	End Location[ft. %]
13	M7A	X	-.271	-.271	0	%100
14	M7A	Z	.157	.157	0	%100
15	M23A	X	-1.085	-1.085	0	%100
16	M23A	Z	.626	.626	0	%100
17	M39A	X	-.271	-.271	0	%100
18	M39A	Z	.157	.157	0	%100
19	M12	X	-1.085	-1.085	0	%100
20	M12	Z	.626	.626	0	%100
21	M14	X	-.271	-.271	0	%100
22	M14	Z	.157	.157	0	%100
23	M18A	X	0	0	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	-.461	-.461	0	%100
28	M20	Z	.266	.266	0	%100
29	M21	X	-.6	-.6	0	%100
30	M21	Z	.346	.346	0	%100
31	MP1A	X	-.515	-.515	0	%100
32	MP1A	Z	.297	.297	0	%100
33	MP2A	X	-.624	-.624	0	%100
34	MP2A	Z	.36	.36	0	%100
35	MP3A	X	-.515	-.515	0	%100
36	MP3A	Z	.297	.297	0	%100
37	MP4A	X	-.515	-.515	0	%100
38	MP4A	Z	.297	.297	0	%100
39	MP1C	X	-.515	-.515	0	%100
40	MP1C	Z	.297	.297	0	%100
41	MP2C	X	-.624	-.624	0	%100
42	MP2C	Z	.36	.36	0	%100
43	MP3C	X	-.515	-.515	0	%100
44	MP3C	Z	.297	.297	0	%100
45	MP4C	X	-.515	-.515	0	%100
46	MP4C	Z	.297	.297	0	%100
47	MP1B	X	-.515	-.515	0	%100
48	MP1B	Z	.297	.297	0	%100
49	MP2B	X	-.624	-.624	0	%100
50	MP2B	Z	.36	.36	0	%100
51	MP3B	X	-.515	-.515	0	%100
52	MP3B	Z	.297	.297	0	%100
53	MP4B	X	-.515	-.515	0	%100
54	MP4B	Z	.297	.297	0	%100
55	M47	X	-.351	-.351	0	%100
56	M47	Z	.203	.203	0	%100
57	M49A	X	-.156	-.156	0	%100
58	M49A	Z	.09	.09	0	%100
59	M54	X	-.624	-.624	0	%100
60	M54	Z	.36	.36	0	%100
61	M59	X	-.156	-.156	0	%100
62	M59	Z	.09	.09	0	%100
63	M70	X	-.855	-.855	0	%100
64	M70	Z	.494	.494	0	%100
65	M71	X	-.214	-.214	0	%100
66	M71	Z	.123	.123	0	%100
67	M72	X	-.214	-.214	0	%100
68	M72	Z	.123	.123	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.71	-.71	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.923	-.923	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-1.033	-1.033	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.259	-.259	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.259	-.259	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-.939	-.939	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-.939	-.939	0	%100
18	M39A	Z	0	0	0	%100
19	M12	X	-.94	-.94	0	%100
20	M12	Z	0	0	0	%100
21	M14	X	-.939	-.939	0	%100
22	M14	Z	0	0	0	%100
23	M18A	X	-.177	-.177	0	%100
24	M18A	Z	0	0	0	%100
25	M19	X	-.231	-.231	0	%100
26	M19	Z	0	0	0	%100
27	M20	X	-.177	-.177	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	-.231	-.231	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	-.595	-.595	0	%100
32	MP1A	Z	0	0	0	%100
33	MP2A	X	-.72	-.72	0	%100
34	MP2A	Z	0	0	0	%100
35	MP3A	X	-.595	-.595	0	%100
36	MP3A	Z	0	0	0	%100
37	MP4A	X	-.595	-.595	0	%100
38	MP4A	Z	0	0	0	%100
39	MP1C	X	-.595	-.595	0	%100
40	MP1C	Z	0	0	0	%100
41	MP2C	X	-.72	-.72	0	%100
42	MP2C	Z	0	0	0	%100
43	MP3C	X	-.595	-.595	0	%100
44	MP3C	Z	0	0	0	%100
45	MP4C	X	-.595	-.595	0	%100
46	MP4C	Z	0	0	0	%100
47	MP1B	X	-.595	-.595	0	%100
48	MP1B	Z	0	0	0	%100
49	MP2B	X	-.72	-.72	0	%100
50	MP2B	Z	0	0	0	%100
51	MP3B	X	-.595	-.595	0	%100
52	MP3B	Z	0	0	0	%100
53	MP4B	X	-.595	-.595	0	%100
54	MP4B	Z	0	0	0	%100
55	M47	X	-.405	-.405	0	%100
56	M47	Z	0	0	0	%100
57	M49A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
58	M49A	Z	0	0	0	%100
59	M54	X	-.54	-.54	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	-.54	-.54	0	%100
62	M59	Z	0	0	0	%100
63	M70	X	-.741	-.741	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-.741	-.741	0	%100
66	M71	Z	0	0	0	%100
67	M72	X	0	0	0	%100
68	M72	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.461	-.461	0	%100
2	M1	Z	-.266	-.266	0	%100
3	M2	X	-.6	-.6	0	%100
4	M2	Z	-.346	-.346	0	%100
5	M5	X	-.672	-.672	0	%100
6	M5	Z	-.388	-.388	0	%100
7	M6	X	-.672	-.672	0	%100
8	M6	Z	-.388	-.388	0	%100
9	M7	X	-1e-6	-1e-6	0	%100
10	M7	Z	-1e-6	-1e-6	0	%100
11	M6A	X	-.271	-.271	0	%100
12	M6A	Z	-.157	-.157	0	%100
13	M7A	X	-.271	-.271	0	%100
14	M7A	Z	-.157	-.157	0	%100
15	M23A	X	-.271	-.271	0	%100
16	M23A	Z	-.157	-.157	0	%100
17	M39A	X	-1.085	-1.085	0	%100
18	M39A	Z	-.626	-.626	0	%100
19	M12	X	-.272	-.272	0	%100
20	M12	Z	-.157	-.157	0	%100
21	M14	X	-1.085	-1.085	0	%100
22	M14	Z	-.626	-.626	0	%100
23	M18A	X	-.461	-.461	0	%100
24	M18A	Z	-.266	-.266	0	%100
25	M19	X	-.6	-.6	0	%100
26	M19	Z	-.346	-.346	0	%100
27	M20	X	0	0	0	%100
28	M20	Z	0	0	0	%100
29	M21	X	0	0	0	%100
30	M21	Z	0	0	0	%100
31	MP1A	X	-.515	-.515	0	%100
32	MP1A	Z	-.297	-.297	0	%100
33	MP2A	X	-.624	-.624	0	%100
34	MP2A	Z	-.36	-.36	0	%100
35	MP3A	X	-.515	-.515	0	%100
36	MP3A	Z	-.297	-.297	0	%100
37	MP4A	X	-.515	-.515	0	%100
38	MP4A	Z	-.297	-.297	0	%100
39	MP1C	X	-.515	-.515	0	%100
40	MP1C	Z	-.297	-.297	0	%100
41	MP2C	X	-.624	-.624	0	%100
42	MP2C	Z	-.36	-.36	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	MP3C	X	-.515	-.515	0	%100
44	MP3C	Z	-.297	-.297	0	%100
45	MP4C	X	-.515	-.515	0	%100
46	MP4C	Z	-.297	-.297	0	%100
47	MP1B	X	-.515	-.515	0	%100
48	MP1B	Z	-.297	-.297	0	%100
49	MP2B	X	-.624	-.624	0	%100
50	MP2B	Z	-.36	-.36	0	%100
51	MP3B	X	-.515	-.515	0	%100
52	MP3B	Z	-.297	-.297	0	%100
53	MP4B	X	-.515	-.515	0	%100
54	MP4B	Z	-.297	-.297	0	%100
55	M47	X	-.351	-.351	0	%100
56	M47	Z	-.203	-.203	0	%100
57	M49A	X	-.156	-.156	0	%100
58	M49A	Z	-.09	-.09	0	%100
59	M54	X	-.156	-.156	0	%100
60	M54	Z	-.09	-.09	0	%100
61	M59	X	-.624	-.624	0	%100
62	M59	Z	-.36	-.36	0	%100
63	M70	X	-.214	-.214	0	%100
64	M70	Z	-.123	-.123	0	%100
65	M71	X	-.855	-.855	0	%100
66	M71	Z	-.494	-.494	0	%100
67	M72	X	-.214	-.214	0	%100
68	M72	Z	-.123	-.123	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.089	-.089	0	%100
2	M1	Z	-.154	-.154	0	%100
3	M2	X	-.115	-.115	0	%100
4	M2	Z	-.2	-.2	0	%100
5	M5	X	-.13	-.13	0	%100
6	M5	Z	-.225	-.225	0	%100
7	M6	X	-.516	-.516	0	%100
8	M6	Z	-.894	-.894	0	%100
9	M7	X	-.129	-.129	0	%100
10	M7	Z	-.223	-.223	0	%100
11	M6A	X	-.47	-.47	0	%100
12	M6A	Z	-.814	-.814	0	%100
13	M7A	X	-.47	-.47	0	%100
14	M7A	Z	-.814	-.814	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M39A	X	-.47	-.47	0	%100
18	M39A	Z	-.814	-.814	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	0	0	0	%100
21	M14	X	-.47	-.47	0	%100
22	M14	Z	-.814	-.814	0	%100
23	M18A	X	-.355	-.355	0	%100
24	M18A	Z	-.615	-.615	0	%100
25	M19	X	-.462	-.462	0	%100
26	M19	Z	-.8	-.8	0	%100
27	M20	X	-.089	-.089	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F....	Start Location[ft.%]	End Location[ft.%]
28	M20	Z	-.154	-.154	0	%100
29	M21	X	-.115	-.115	0	%100
30	M21	Z	-.2	-.2	0	%100
31	MP1A	X	-.297	-.297	0	%100
32	MP1A	Z	-.515	-.515	0	%100
33	MP2A	X	-.36	-.36	0	%100
34	MP2A	Z	-.624	-.624	0	%100
35	MP3A	X	-.297	-.297	0	%100
36	MP3A	Z	-.515	-.515	0	%100
37	MP4A	X	-.297	-.297	0	%100
38	MP4A	Z	-.515	-.515	0	%100
39	MP1C	X	-.297	-.297	0	%100
40	MP1C	Z	-.515	-.515	0	%100
41	MP2C	X	-.36	-.36	0	%100
42	MP2C	Z	-.624	-.624	0	%100
43	MP3C	X	-.297	-.297	0	%100
44	MP3C	Z	-.515	-.515	0	%100
45	MP4C	X	-.297	-.297	0	%100
46	MP4C	Z	-.515	-.515	0	%100
47	MP1B	X	-.297	-.297	0	%100
48	MP1B	Z	-.515	-.515	0	%100
49	MP2B	X	-.36	-.36	0	%100
50	MP2B	Z	-.624	-.624	0	%100
51	MP3B	X	-.297	-.297	0	%100
52	MP3B	Z	-.515	-.515	0	%100
53	MP4B	X	-.297	-.297	0	%100
54	MP4B	Z	-.515	-.515	0	%100
55	M47	X	-.203	-.203	0	%100
56	M47	Z	-.351	-.351	0	%100
57	M49A	X	-.27	-.27	0	%100
58	M49A	Z	-.468	-.468	0	%100
59	M54	X	0	0	0	%100
60	M54	Z	0	0	0	%100
61	M59	X	-.27	-.27	0	%100
62	M59	Z	-.468	-.468	0	%100
63	M70	X	0	0	0	%100
64	M70	Z	0	0	0	%100
65	M71	X	-.37	-.37	0	%100
66	M71	Z	-.641	-.641	0	%100
67	M72	X	-.37	-.37	0	%100
68	M72	Z	-.641	-.641	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	M6	Y	1.207	-68.416	0	.651
2	M6	Y	-68.416	-61.932	.651	1.302
3	M6	Y	-61.932	-14.433	1.302	1.953
4	M6	Y	-14.433	-55.108	1.953	2.605
5	M6	Y	-55.108	-129.744	2.605	3.256
6	M7	Y	1.208	-68.445	0	.651
7	M7	Y	-68.445	-61.959	.651	1.302
8	M7	Y	-61.959	-14.435	1.302	1.953
9	M7	Y	-14.435	-55.131	1.953	2.605
10	M7	Y	-55.131	-129.807	2.605	3.256
11	M5	Y	1.206	-68.387	0	.651
12	M5	Y	-68.387	-61.906	.651	1.302

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
13	M5	Y	-61.906	-14.43	1.302	1.953
14	M5	Y	-14.43	-55.085	1.953	2.605
15	M5	Y	-55.085	-129.68	2.605	3.256

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M6	Y	1.341	-76.018	0	.651
2	M6	Y	-76.018	-68.814	.651	1.302
3	M6	Y	-68.814	-16.036	1.302	1.953
4	M6	Y	-16.036	-61.231	1.953	2.605
5	M6	Y	-61.231	-144.159	2.605	3.256
6	M7	Y	.673	-38.076	0	.651
7	M7	Y	-38.076	-34.469	.651	1.302
8	M7	Y	-34.469	-8.029	1.302	1.953
9	M7	Y	-8.029	-30.674	1.953	2.605
10	M7	Y	-30.674	-72.227	2.605	3.256
11	M7	Y	.38	-6.456	0	1.809
12	M7	Y	-6.456	-14.81	1.809	3.618
13	M23A	Y	-8.042	-8.757	0	1.858
14	M23A	Y	-8.757	-9.102	1.858	3.717
15	M23A	Y	-9.102	-9.091	3.717	5.575
16	M23A	Y	-9.091	-9.098	5.575	7.433
17	M12	Y	.02	-4.452	0	2.283
18	M12	Y	-4.452	-7.577	2.283	4.566
19	M12	Y	-7.577	-9.157	4.566	6.85
20	M12	Y	-9.157	-9.019	6.85	9.133
21	M12	Y	-9.019	-8.315	9.133	11.416
22	M12	Y	-8.315	-10.912	11.416	13.699
23	M5	Y	.668	-37.941	0	.651
24	M5	Y	-37.941	-34.344	.651	1.302
25	M5	Y	-34.344	-8.008	1.302	1.953
26	M5	Y	-8.008	-30.557	1.953	2.605
27	M5	Y	-30.557	-71.932	2.605	3.256

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M6	Y	-.022	-.116	0	1.809
2	M6	Y	-.116	-.209	1.809	3.618
3	M7	Y	-.022	-.116	0	1.809
4	M7	Y	-.116	-.209	1.809	3.618
5	M6A	Y	-.119	-.119	.023	7.41
6	M7A	Y	-.026	-.07	0	2.054
7	M7A	Y	-.07	-.102	2.054	4.108
8	M7A	Y	-.102	-.112	4.108	6.163
9	M7A	Y	-.112	-.136	6.163	8.217
10	M7A	Y	-.136	-.116	8.217	10.271
11	M7A	Y	-.116	-.026	10.271	12.325
12	M22A	Y	-.126	-.126	0	.25
13	M5	Y	-.022	-.116	0	1.809
14	M5	Y	-.116	-.209	1.809	3.618
15	M23A	Y	-.119	-.119	.024	7.411
16	M12	Y	-.026	-.07	0	2.055
17	M12	Y	-.07	-.102	2.055	4.11
18	M12	Y	-.102	-.112	4.11	6.165
19	M12	Y	-.112	-.136	6.165	8.22
20	M12	Y	-.136	-.116	8.22	10.274

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
21	M12	Y	-.116	-.026	10.274	12.329
22	M30	Y	-.126	-.126	0	.251
23	M39A	Y	-.119	-.119	.023	7.411
24	M14	Y	-.026	-.07	0	2.056
25	M14	Y	-.07	-.101	2.056	4.111
26	M14	Y	-.101	-.111	4.111	6.167
27	M14	Y	-.111	-.136	6.167	8.222
28	M14	Y	-.136	-.115	8.222	10.278
29	M14	Y	-.115	-.026	10.278	12.333
30	M38	Y	-.122	-.122	0	.257

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M6	Z	-.056	-.291	0	1.809
2	M6	Z	-.291	-.525	1.809	3.618
3	M7	Z	-.056	-.291	0	1.809
4	M7	Z	-.291	-.525	1.809	3.618
5	M6A	Z	-.3	-.3	.023	7.41
6	M7A	Z	-.066	-.176	0	2.054
7	M7A	Z	-.176	-.256	2.054	4.108
8	M7A	Z	-.256	-.28	4.108	6.163
9	M7A	Z	-.28	-.342	6.163	8.217
10	M7A	Z	-.342	-.29	8.217	10.271
11	M7A	Z	-.29	-.065	10.271	12.325
12	M22A	Z	-.317	-.317	0	.25
13	M5	Z	-.056	-.291	0	1.809
14	M5	Z	-.291	-.525	1.809	3.618
15	M23A	Z	-.299	-.299	.024	7.411
16	M12	Z	-.066	-.176	0	2.055
17	M12	Z	-.176	-.255	2.055	4.11
18	M12	Z	-.255	-.28	4.11	6.165
19	M12	Z	-.28	-.341	6.165	8.22
20	M12	Z	-.341	-.29	8.22	10.274
21	M12	Z	-.29	-.065	10.274	12.329
22	M30	Z	-.316	-.316	0	.251
23	M39A	Z	-.298	-.298	.023	7.411
24	M14	Z	-.066	-.176	0	2.056
25	M14	Z	-.176	-.254	2.056	4.111
26	M14	Z	-.254	-.279	4.111	6.167
27	M14	Z	-.279	-.34	6.167	8.222
28	M14	Z	-.34	-.289	8.222	10.278
29	M14	Z	-.289	-.065	10.278	12.333
30	M38	Z	-.307	-.307	0	.257

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M6	X	.056	.291	0	1.809
2	M6	X	.291	.525	1.809	3.618
3	M7	X	.056	.291	0	1.809
4	M7	X	.291	.525	1.809	3.618
5	M6A	X	.3	.3	.023	7.41
6	M7A	X	.066	.176	0	2.054
7	M7A	X	.176	.256	2.054	4.108
8	M7A	X	.256	.28	4.108	6.163
9	M7A	X	.28	.342	6.163	8.217
10	M7A	X	.342	.29	8.217	10.271

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
11	M7A	X	.29	.065	10.271	12.325
12	M22A	X	.317	.317	0	.25
13	M5	X	.056	.291	0	1.809
14	M5	X	.291	.525	1.809	3.618
15	M23A	X	.299	.299	.024	7.411
16	M12	X	.066	.176	0	2.055
17	M12	X	.176	.255	2.055	4.11
18	M12	X	.255	.28	4.11	6.165
19	M12	X	.28	.341	6.165	8.22
20	M12	X	.341	.29	8.22	10.274
21	M12	X	.29	.065	10.274	12.329
22	M30	X	.316	.316	0	.251
23	M39A	X	.298	.298	.023	7.411
24	M14	X	.066	.176	0	2.056
25	M14	X	.176	.254	2.056	4.111
26	M14	X	.254	.279	4.111	6.167
27	M14	X	.279	.34	6.167	8.222
28	M14	X	.34	.289	8.222	10.278
29	M14	X	.289	.065	10.278	12.333
30	M38	X	.307	.307	0	.257

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N37	N15	N17	N38	Y	B-C	-.009
2	N38	N17	N10	N31	Y	B-C	-.009
3	N31	N37	N15	N10	Y	A-B	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N37	N15	N17	N38	Y	B-C	-.01
2	N38	N31	N10	N17	Y	B-C	-.01
3	N31	N37	N15	N10	Y	A-B	-.01

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N37	N15	N17	N38	Y	Two Way	-.00013
2	N38	N17	N10	N31	Y	Two Way	-.00013
3	N31	N37	N15	N10	Y	Two Way	-.00013

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N37	N15	N17	N38	Z	Two Way	-.000326
2	N38	N17	N10	N31	Z	Two Way	-.000326
3	N31	N37	N15	N10	Z	Two Way	-.000326

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N37	N15	N17	N38	X	Two Way	.000326
2	N38	N17	N10	N31	X	Two Way	.000326
3	N31	N37	N15	N10	X	Two Way	.000326

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N2	max	1931.804	9	2438.336	19	532.294	1	-1.342	1	1.168	11	1.191	4
2		min	-1951.282	3	673.607	1	-421.572	7	-5.523	19	-1.157	5	-1.295	10
3	N33A	max	1104.157	11	2345.518	15	1621.337	1	2.776	13	1.034	5	4.633	16
4		min	-1000.289	5	634.464	9	-1661.629	7	-.065	7	-1.017	11	.886	10
5	N39	max	995.692	9	2375.774	23	1749.631	1	2.803	13	1.209	1	-.944	4
6		min	-1082.191	3	657.442	5	-1820.049	7	-.065	7	-1.176	7	-4.746	22
7	Totals:	max	3873.596	10	6769.5	21	3903.262	1						
8		min	-3873.594	4	2390.929	66	-3903.251	7						

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

	Member	Shape	Code Ch...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [l...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M7A	L3X3X4	.993	6.847	19	.158	6.847	z	7	15778.129	46656	1.688	2.19	1	H2-1
2	M14	L3X3X4	.953	6.852	21	.156	6.852	z	11	15778.129	46656	1.688	2.189	1	H2-1
3	M12	L3X3X4	.882	6.85	15	.155	6.992	z	21	15778.129	46656	1.688	2.189	1	H2-1
4	MP1B	PIPE 2.0	.493	1.125	24	.083	3.625		1	20866.733	32130	1.872	1.872	1...	H1-1b
5	MP3A	PIPE 2.0	.489	3.625	18	.080	3.625		5	20866.733	32130	1.872	1.872	1...	H1-1b
6	MP1A	PIPE 2.0	.484	1.125	20	.083	3.625		9	20866.733	32130	1.872	1.872	1...	H1-1b
7	MP3B	PIPE 2.0	.471	3.625	22	.075	3.625		21	20866.733	32130	1.872	1.872	1...	H1-1b
8	M39A	L3X3X4	.461	3.717	21	.020	3.717	z	21	13991.953	46656	1.688	3.151	1...	H2-1
9	M6A	L3X3X4	.455	3.717	21	.020	3.717	z	45	13991.952	46656	1.688	3.146	1...	H2-1
10	MP3C	PIPE 2.0	.441	3.625	14	.071	3.625		23	20866.733	32130	1.872	1.872	1...	H1-1b
11	MP1C	PIPE 2.0	.440	1.125	16	.080	3.625		5	20866.733	32130	1.872	1.872	1...	H1-1b
12	M23A	L3X3X4	.422	3.717	13	.019	3.717	z	17	13991.953	46656	1.688	3.149	1...	H2-1
13	M59	PIPE 2.5	.375	7.178	24	.060	2.871		12	14493.197	50715	3.596	3.596	1	H1-1b
14	M49A	PIPE 2.5	.375	7.178	20	.061	2.871		8	14493.197	50715	3.596	3.596	1	H1-1b
15	M1	HSS4X4X4	.359	0	18	.145	0	z	10	139144.4...	139518	16.181	16.181	1...	H1-1b
16	M20	HSS4X4X4	.352	0	24	.142	0	z	8	139144.4...	139518	16.181	16.181	1...	H1-1b
17	M54	PIPE 2.5	.343	7.178	16	.054	2.871		4	14493.197	50715	3.596	3.596	1	H1-1b
18	M18A	HSS4X4X4	.341	0	16	.139	0	z	6	139144.4...	139518	16.181	16.181	1...	H1-1b
19	MP4B	PIPE 2.0	.328	3.625	21	.064	3.625		9	20866.733	32130	1.872	1.872	2...	H1-1b
20	M70	L3X3X4	.309	0	12	.026	0	y	12	37836.291	46656	1.688	3.756	2...	H2-1
21	MP4A	PIPE 2.0	.307	3.625	17	.064	3.625		5	20866.733	32130	1.872	1.872	1...	H1-1b
22	MP4C	PIPE 2.0	.303	3.625	2	.064	3.625		1	20866.733	32130	1.872	1.872	2...	H1-1b
23	MP2B	PIPE 2.5	.286	3.625	1	.096	3.625		2	37773.818	50715	3.596	3.596	2...	H1-1b
24	MP2A	PIPE 2.5	.285	3.625	9	.096	3.625		11	37773.818	50715	3.596	3.596	2...	H1-1b
25	M71	L3X3X4	.281	0	8	.024	0	y	8	37836.291	46656	1.688	3.756	2...	H2-1
26	MP2C	PIPE 2.5	.277	3.625	5	.095	3.625		7	37773.818	50715	3.596	3.596	2...	H1-1b
27	M72	L3X3X4	.274	0	4	.024	1.217	y	4	37836.291	46656	1.688	3.756	2...	H2-1
28	M2	HSS4.5X4.5...	.221	0	20	.099	0	y	45	120054.58	121302	16.25	16.25	1...	H1-1b
29	M21	HSS4.5X4.5...	.214	0	24	.076	0	y	44	120054.58	121302	16.25	16.25	1...	H1-1b
30	M19	HSS4.5X4.5...	.208	0	15	.068	0	y	17	120054.58	121302	16.25	16.25	1...	H1-1b
31	M6	LL3x3x4x0	.101	0	42	.022	3.618	y	48	76649.454	93312	6.48	4.373	1...	H1-1b
32	M7	LL3x3x4x0	.087	1.13	13	.013	3.618	y	20	76649.454	93312	6.48	4.373	1...	H1-1b
33	M5	LL3x3x4x0	.085	.904	22	.012	3.618	y	16	76649.454	93312	6.48	4.373	1...	H1-1b
34	M47	PIPE 2.0	.002	.964	12	.002	.964		9	31227.325	32130	1.872	1.872	1...	H1-1b

VzW
SMART Tool[®]
Vendor

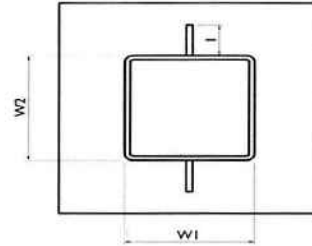
Client: Verizon Wireless Date: 11/13/2023
 Site Name: MIDDLETOWN W CT
 PSLC #: 5000248054
 Fuze ID #: 16092575 Page: 2

Version 1.01

Tower Connection Weld Checks

Weld Shape:
 Weld Stiffener Configuration:
 Stiffener Notch Present?
 Stiffener Length, l (in):
 Stiffener Spacing/Width, s (in):
 Weld Size (1/16 in):
 W1 (in):
 W2 (in):
 Weld Total Length (in):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in):
 c_y (in):
 Required combined strength (kip/in):
 Weld Capacity (kip/in):
 Weld Utilization:

Yes	
Rectangle	
(1) Stiffener on top/bottom	
No	
4.5	
4	
4	
4	
34.00	
76.03	
21.33	
440.83	
6.5	
6.5	
0.88	
5.57	
15.8%	



LATITUDE: 41.557361° N
LONGITUDE: 72.74325° W



DESIGN CRITERIA		PROJECT INFORMATION		SHEET INDEX	
WIND LOADS BASIC WIND SPEED (1 SECOND GUST), $V = 120$ MPH TOPOGRAPHIC CATEGORY 1 MEAN BASE ELEVATION (AMSL) = 368.07'		APPLICANT/LESSEE COMPANY: VERIZON WIRELESS CLIENT REPRESENTATIVE: VERIZON WIRELESS COMPANY: VERIZON WIRELESS		SHEET DESCRIPTION S7-1: TITLE SHEET B700-1: BILL OF MATERIALS S700-1: GENERAL NOTES S701-1: CURBING FACILITY DETAIL S7-1: CURBING FACILITY DETAILS S7-2: GEOMETRY VERIFICATION SKETCHES S7-3: MOUNT PHOTOS SPECIFICATION SHEETS	
ICE LOADS ICE WIND SPEED (1 SECOND GUST), $V = 50$ MPH ICE THICKNESS = 1.00 IN		PROJECT MANAGER COMPANY: COLLIER ENGINEERING & DESIGN CONTACT: PETER ALBANO PHONE: 303.374.0600 E-MAIL: PETER.ALBANO@COLLIERENGINEERING.COM			
SEISMIC LOADS SEISMIC DESIGN CATEGORY B SHORT TERM FICER GROUND MOTION, $S_s = .20g$ LONG TERM FICER GROUND MOTION, $S_1 = .05g$		CONTRACTOR PMI REQUIREMENTS PMI LOCATION: https://pmi.vzw.com/PMI/COH SMART TOOL PROJECT #: 10156509 MODE: 5000748054 ANALYSIS DATE: 10/26/2023 PMI REQUIREMENTS ENBEDDED WITHIN MOUNT MODIFICATION REPORT			

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[illegible]

BILL OF MATERIALS						
SECTION 1 - VZWSMART KITS						
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1		VZWSMART-FLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGN-1.	504	504
3		VZWSMART-PH-276072	PROPOSED 3" LONG PLS STD (PART # VZWSMART-PH-276072)	*	105	315
12		VZWSMART-HSK7	ANGLE TO ANGLE CROSSOVER KIT	*	7	84
				*		
				*		
				*		
				*		
				*		
				*		
				*		
SECTION 2 - OTHER REQUIRED PARTS						
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	SITE PRO I	SCP-10K	PRE TO PIPE CLAMP SET	*	14	14
					TOTAL:	637

VZWSMART KITS - APPROVED VENDORS			
COMMSCOPE			
CONTACT	SALVADOR LANGUANDO		
PHONE	(817) 354-492		
EMAIL	SALVADOR.LANGUANDO@COMMSCOPE.COM		
WEBSITE	WWW.COMMSCOPE.COM		
METROSITE FABRICATORS, LLC			
CONTACT	KEITH RAHBY		
PHONE	(704) 335-7043 (O), (704) 945-9788 (M)		
EMAIL	KEITH@METROSITELLC.COM		
WEBSITE	METROSITEFABRICATORS.COM		
PERFECTVISION			
CONTACT	WIRELESS SALES		
PHONE	(844) 887-4773		
EMAIL	WWW.PERFECTVISION.COM		
WEBSITE	WIRELESSSALES@PERFECTVISION.COM		
SABRE INDUSTRIES, INC.			
CONTACT	ANGIE WELCH		
PHONE	(848) 428-493		
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WEBSITE	WWW.SABREINDUSTRIATIONS.COM		
SITE PRO 1			
CONTACT	PAULA BOSWELL		
PHONE	(772) 236-9848		
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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.

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 AUTHORITY.

4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING OF ANY SCHEDULE CHANGES 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 THE 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 THE MANUFACTURER'S RECOMMENDATIONS.

7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO LIMITING ACCESS TO THE PROJECT SITE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PROJECT SITE 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 CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. 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 INTERFERENCE (EMI). THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE WORKERS FROM ANY POTENTIAL DANGEROUS EXPOSURE LEVELS.

10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.

11. THE FACILITY IS UNARMED 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-B, 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 UTILITIES AND STRUCTURES DUE TO THE CONSTRUCTION OF THIS FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING UTILITIES AND STRUCTURES DUE TO THE CONSTRUCTION OF THIS FACILITY.

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING UTILITIES AND STRUCTURES DUE TO THE CONSTRUCTION OF THIS FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING UTILITIES AND STRUCTURES DUE TO THE CONSTRUCTION OF THIS FACILITY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK REQUIRED 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, SOURCES, AND PROCEDURES.

6. ALL CONSTRUCTION MEANS AND METHODS INCLUDING BUT NOT LIMITED TO, ERECTION OF TOWER, RIGGING OF TOWER, AND CONSTRUCTION OF PLANS FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET THE REQUIREMENTS OF THE TIA-222-B STANDARD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING UTILITIES AND STRUCTURES DUE TO THE CONSTRUCTION OF THIS FACILITY.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLING, 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

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12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCEED THE END OF THE BOLT END TO BE BELOW 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 REBAR INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COAT), 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.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE.

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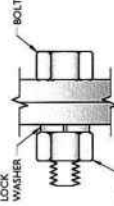
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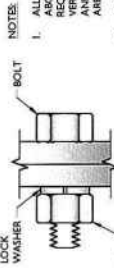
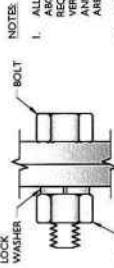
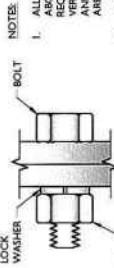
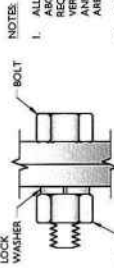
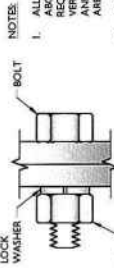
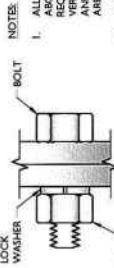
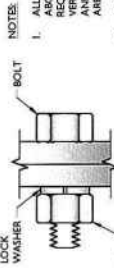
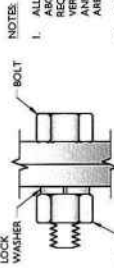
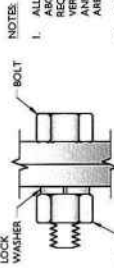
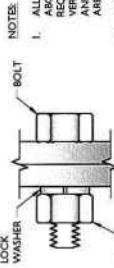
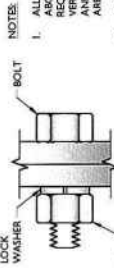
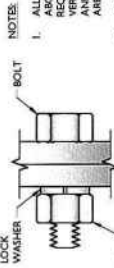
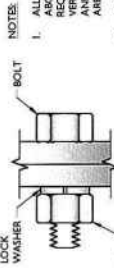
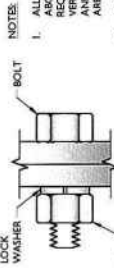
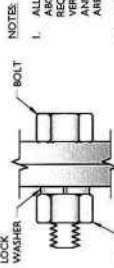
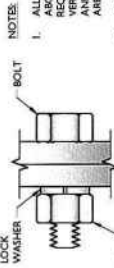
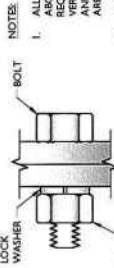
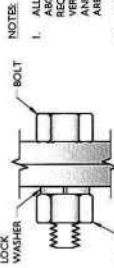
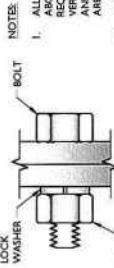
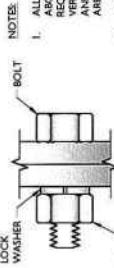
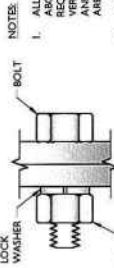
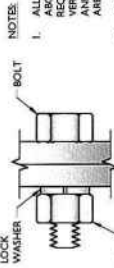
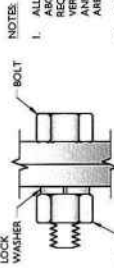
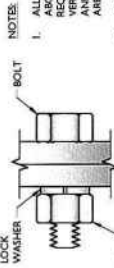
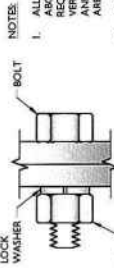
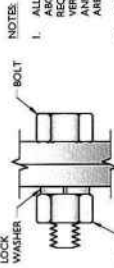
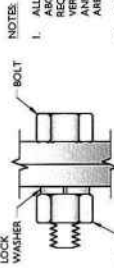
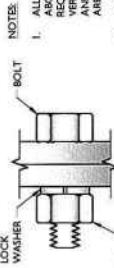
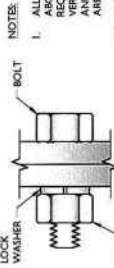
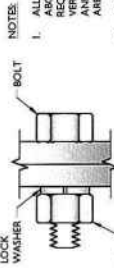
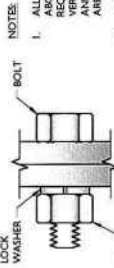
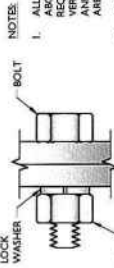
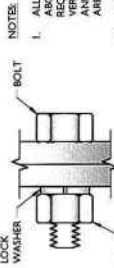
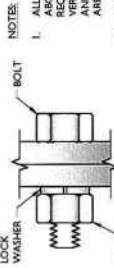
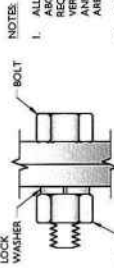
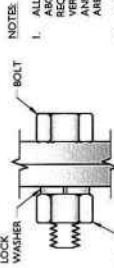
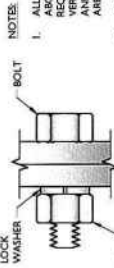
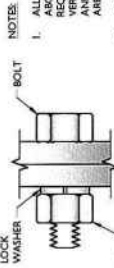
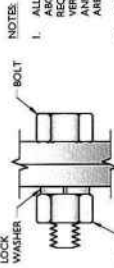
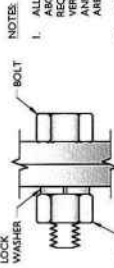
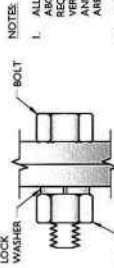
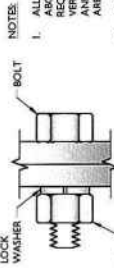
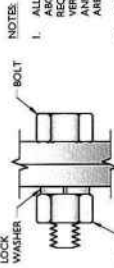
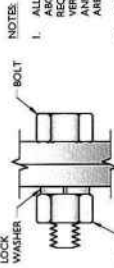
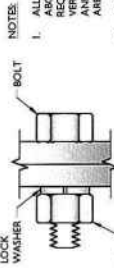
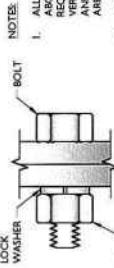
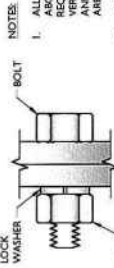
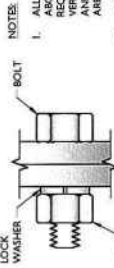
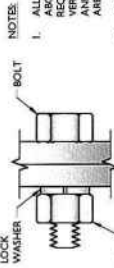
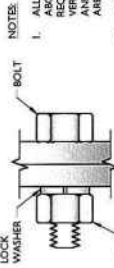
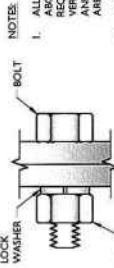
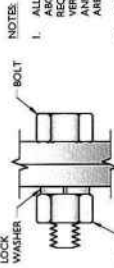
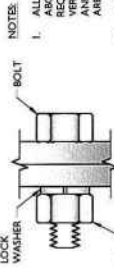
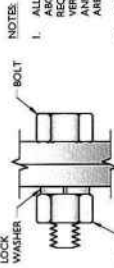
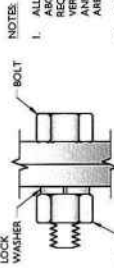
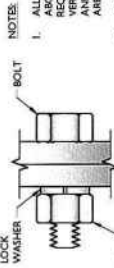
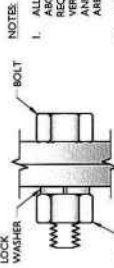
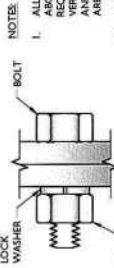
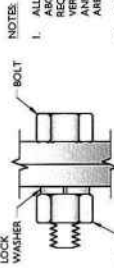
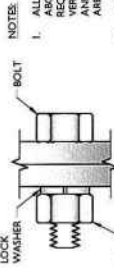
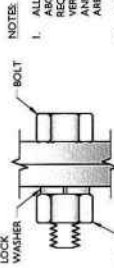
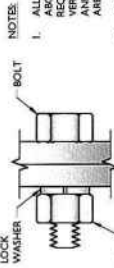
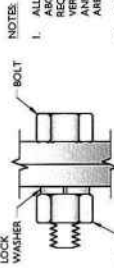
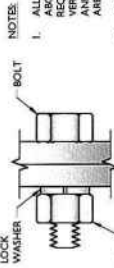
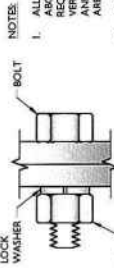
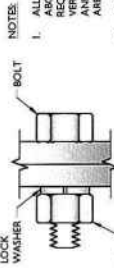
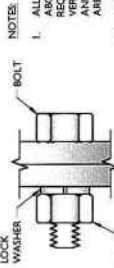
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE.

BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 1 1/16	7/8	1 1/2
5/8	1 1/16	1 1/16 x 7/8	1 1/8	1 7/8
3/4	1 3/16	1 3/16 x 1 1/4	1 1/4	2 1/4
7/8	1 5/16	1 5/16 x 1 1/8	1 1/2	2 5/8
1	1 7/16	1 7/16 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



CLIMBING FACILITY LOCATION

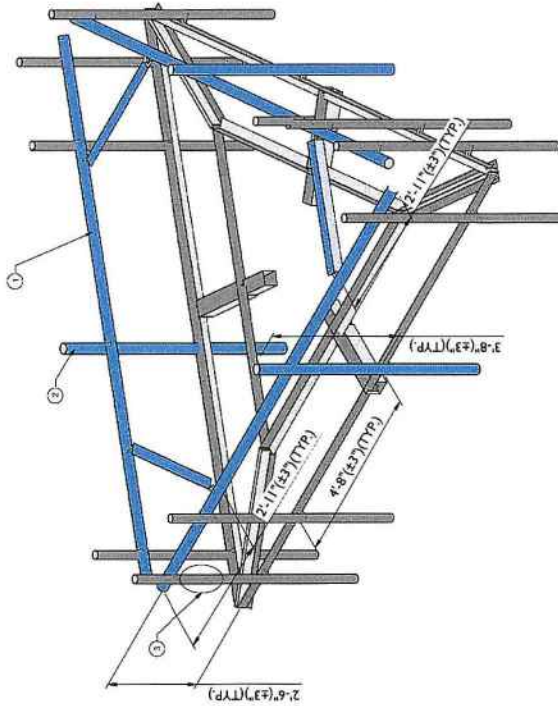
SCALE: 1"=10'

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY ONSIGHT SERVICES ON 4/9/2022, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (109'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

CLIMBING FACILITY PHOTO

LEGEND:



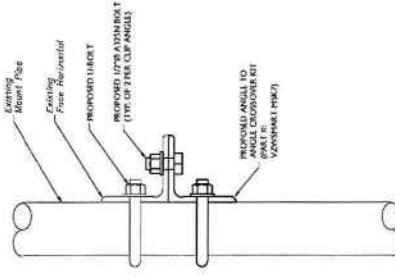
PROPOSED ISOMETRIC VIEW
SCALE: N.T.S.

1

MOUNT MODIFICATION SCHEDULE				NOTES
NO.	ELEVATION	QUANTITY	DESCRIPTION	
1	109'-0"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT NEW HORIZONTAL TO ALL EXISTING AND NEW VERTICAL MOUNT PIPES WITH PROPOSED HARDWARE IN THE PROVIDED KIT.
2		3	PROPOSED 72" LONG, PLS STD. (PART #: VZWSMART-P40-278X072)	CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES PROVIDED IN SUPPORT RAIL KIT.
3		1	PROPOSED PIPE TO PIPE CLAMP SET (PART #: SCPI0K)	MOUNT THE OVP TO THE INSIDE OF MOUNTING PIPE IN ALPHA POSITION 4 USING THIS CLAMP SET.

NOTES:

MOUNT MEMBERS NOT SHOWN FOR CLARITY UNO.
CONTRACTOR TO REMOVE EXISTING CLAMPS CONNECTING EXISTING AND PROPOSED MOUNT PIPES TO EXISTING FACE HORIZONTAL. REPLACE WITH (1) 1/2" M29 GR. 2 U-BOLT PER CONNECTION. INSTALL THE ANGLE TO ANGLE CROSSOVER KIT (PART #: VZWSMART-HSK7) ON THE FACE HORIZONTAL AND CONNECT THE SAME ANGLE TO ANGLE CROSSOVER KIT TO THE MOUNT PIPE. SEE DETAIL S-2 ON THIS PAGE FOR MORE DETAILS.



PROPOSED L3X3X1/4 CLIP
ANGLE CONNECTION DETAIL

SCALE: N.T.S.

2

Engineering
& Design

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Colliers Engineering & Design, Inc.
10000 W. 10th Street, Suite 100
Tomball, TX 77375
(281) 351-1111

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www.811.com

DATE	BY	DESCRIPTION
AS SHOWN	2/11/2023	2/11/2023
1	2/11/2023	2/11/2023
2	2/11/2023	2/11/2023
3	2/11/2023	2/11/2023
4	2/11/2023	2/11/2023
5	2/11/2023	2/11/2023
6	2/11/2023	2/11/2023
7	2/11/2023	2/11/2023
8	2/11/2023	2/11/2023
9	2/11/2023	2/11/2023
10	2/11/2023	2/11/2023



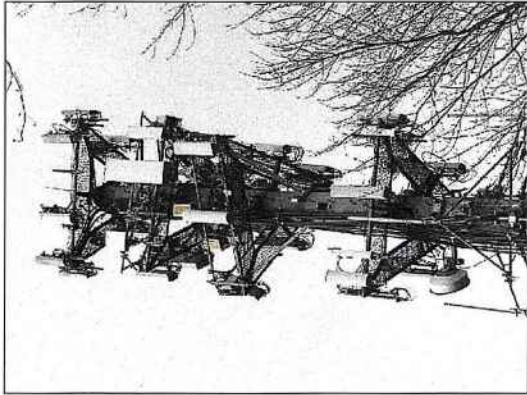
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE NO. 37233
EXPIRATION DATE 1/15/2023

SITE NAME:
MIDDLETOWN W CT
467287
290 PRESTON AVE
MIDDLETOWN, CT 06457
MIDDLESEX COUNTY

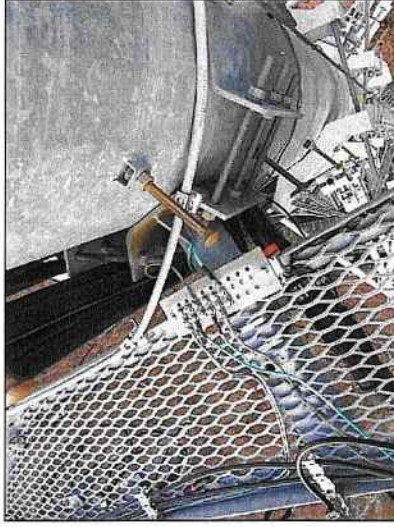
Colliers Engineering & Design, Inc.
10000 W. 10th Street, Suite 100
Tomball, TX 77375
(281) 351-1111

MODIFICATION DETAILS

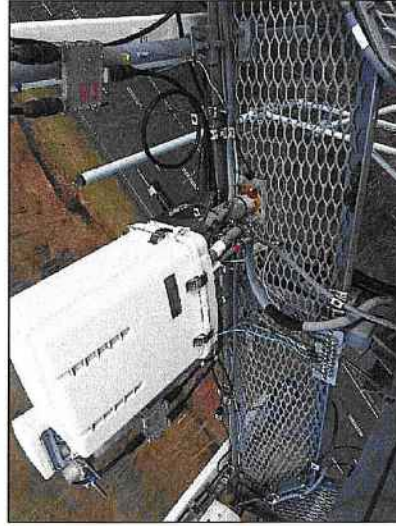
SS-1



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

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1-800-476-2929
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STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
11/15/2023

NO.	NAME	DATE	TIME	LOCATION	STATUS
1	11/15/2023	10:00 AM	10:00 AM	10:00 AM	10:00 AM
2	11/15/2023	10:00 AM	10:00 AM	10:00 AM	10:00 AM
3	11/15/2023	10:00 AM	10:00 AM	10:00 AM	10:00 AM
4	11/15/2023	10:00 AM	10:00 AM	10:00 AM	10:00 AM



THIS SEAL IS VALID FOR THE STATE OF CONNECTICUT. IT IS NOT VALID FOR ANY OTHER STATE. IT IS NOT VALID FOR ANY OTHER PURPOSE. IT IS NOT VALID FOR ANY OTHER PURPOSE.

SITE NAME:
MIDDLETOWN W CT
467287
290 PRESTON AVE
MIDDLETOWN, CT 06457
MIDDLESEX COUNTY

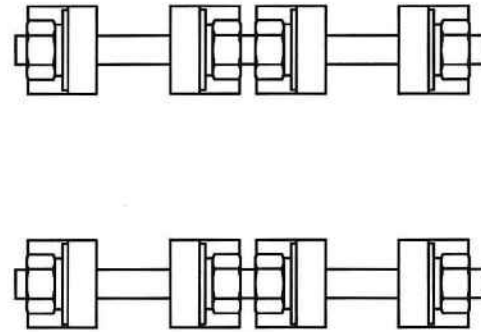
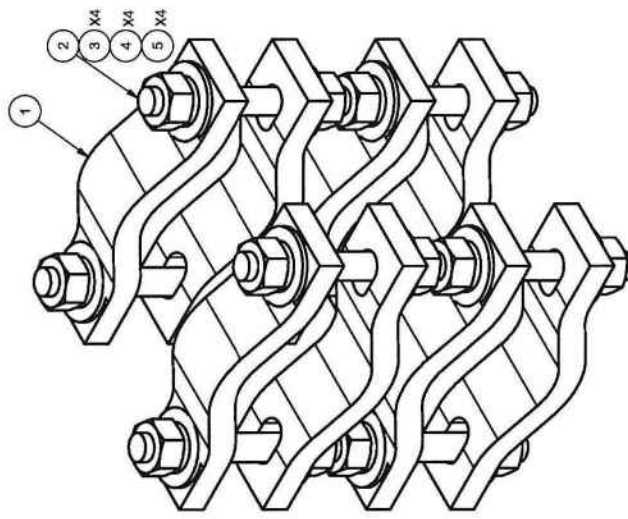
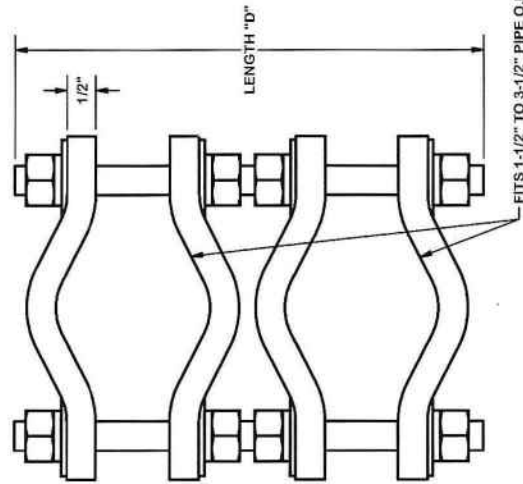
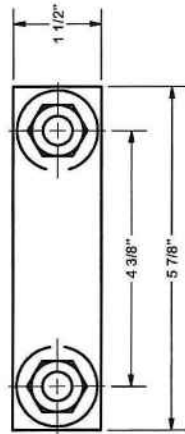
Colliers
Engineering
& Design
12345 Main Street
Middletown, CT 06457
(860) 123-4567
www.colliersengineering.com

MOUNT PHOTOS

SS-2

PARTS LIST				
ITEM	QTY	PART NO.	PART DESCRIPTION	NET WT.
1	8	SCP	CLAMP HALF, 1/2" THICK, 5-7/8"	1.25
2	B	C	1/2" THREADED ROD	E
3	16	G12NUT	1/2" HDG HEAVY 2H HEX NUT	0.07
4	16	G12LW	1/2" HDG LOCKWASHER	0.01
5	16	G12FW	1/2" HDG USS FLATWASHER	0.03
				0.54

VARIABLE PARTS TABLE				
ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	NET WT. "E"
SCP08K	4	G12R-8	8"	.45
SCP10K	4	G12R-10	10"	.56
				2.23
				13.23
				13.68



TOLERANCE NOTES

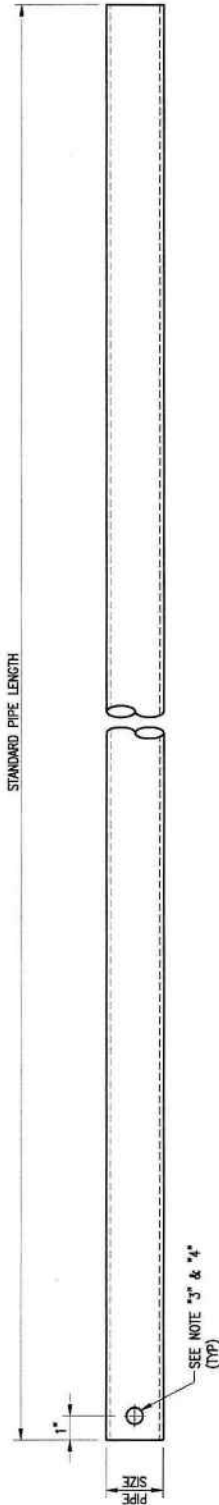
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.007)
 DRILLED AND GAS CUT HOLES (± 0.007) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.010) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.007)
 ALL OTHER ASSEMBLY (± 0.007)

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT
 PIPE TO PIPE CLAMP SET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF
 VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION PIPE TO PIPE CLAMP SET 1-1/2" TO 3-1/2" PIPE 1/2" THICK CLAMP		PART NO. SEE ASSEMBLY "A"	
CPD NO. KCB	DRAWN BY 8/21/2012	ENG. APPROVAL CHECKED BY CEK	DATE 2/18/2013
CLASS 81	SUB 01	CUSTOMER SCPxxK	DWG. NO.

Engineering
 1-888-753-7446
 Salina, OR
 Dallas, TX

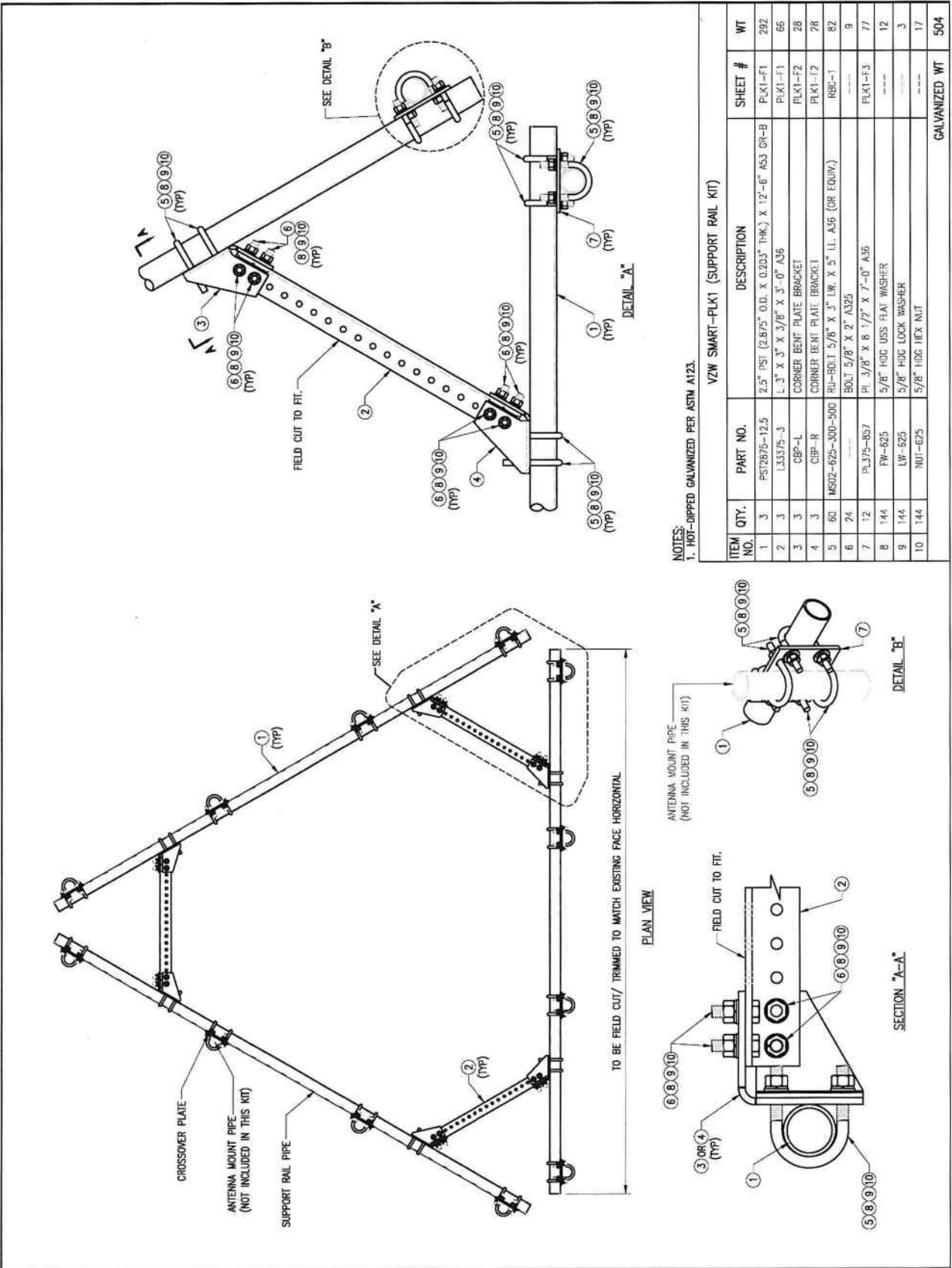
Locations:
 New York, NY
 Atlanta, GA
 Phoenix, AZ
 Plymouth, IN
 Salina, OR
 Dallas, TX



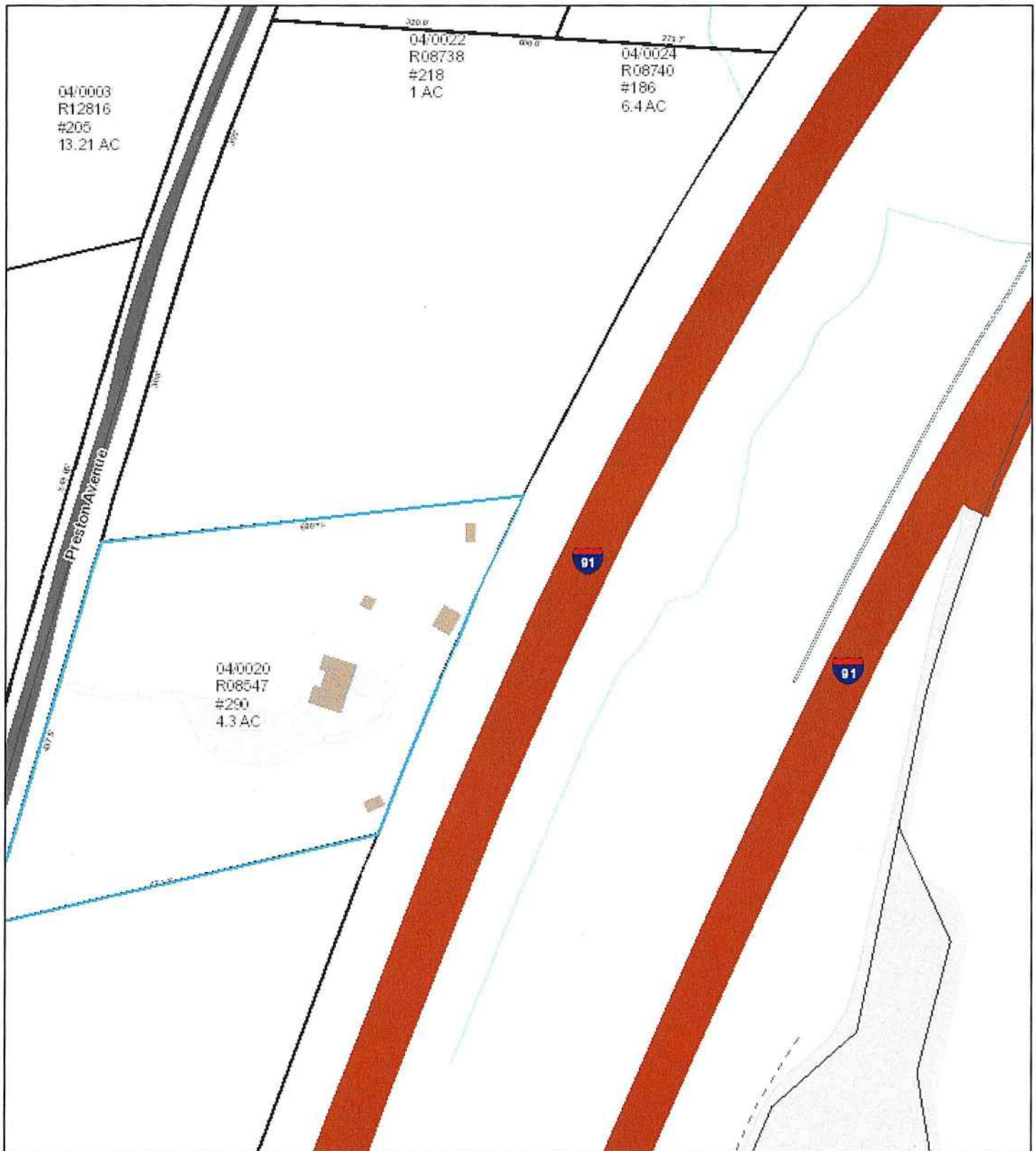
VZSMART Standard Pipe		
VZSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375"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

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

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



ATTACHMENT 5



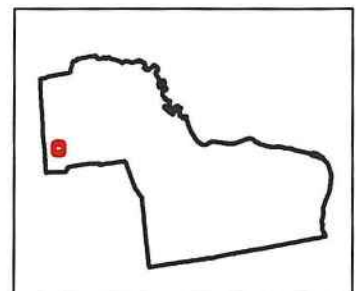
prop map1

Map generated 5/28/2024

Map Legend: <http://gis.cityofmiddletown.com/middletownct/legend.pdf>
<vision link>

0 0.0125 0.025 0.05 0.075 0.1 mi

1 in = 200 ft



MAP FOR REFERENCE ONLY - NOT A LEGAL DOCUMENT

Because of different update schedules, current property assessments may not reflect recent changes to property boundaries. Check with the Board of Assessors to confirm boundaries uses at the time of assessment.

CURRENT OWNER			TOPO		UTILITIES		STRT / ROAD		LOCATION		CURRENT ASSESSMENT																					
TRUMPOLD ERNEST & BRENDA PO BOX 1761 WALLINGFORD CT 06492			3 Below Street		5 Well		1 Paved		1 Light Traf		Description		Code		Appraised		Assessed															
					6 Septic						RES LAND		1-1		84,770		59,340															
											DWELLING		1-3		192,780		134,940															
											RES OUTBL		1-4		25,980		18,190															
			SUPPLEMENTAL DATA																													
Alt Prcl Id			04 14-2 16		P		Res				COM LAND		2-1		228,000		159,600															
Color Census District			WHITE 5414		Unsold		State Clas		101																							
GIS ID			R08547				Assoc Pid#																									
RECORD OF OWNERSHIP			BK-VOL/PAGE		SALE DATE		Q/U		V/I		SALE PRICE		VC		PREVIOUS ASSESSMENTS (HISTORY)																	
TRUMPOLD ERNEST & BRENDA			1142		0098		U		I				0		Year		Code		Assessed		Year		Code		Assessed		Year		Code		Assessed	
															2023		1-1		59,340		2022		1-1		59,340		2022		1-1		59,340	
																	1-3		134,940				1-3		134,940				1-3		134,940	
																	1-4		18,190				1-4		18,190				1-4		18,190	
																	2-1		159,600				2-1		159,600				2-1		159,600	
			Total												Total				372,070		Total				372,070		Total				372,070	
EXEMPTIONS			Description		Amount		Code		Description		Number		Amount		Comm Int																	
			Nbhd Name		B				Tracing		Batch																					
			0001																													
			Total		0.00																											
ASSESSING NEIGHBORHOOD																																

ATTACHMENT 6



Certificate of Mailing — Firm

Name and Address of Sender		TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here Postmark with Date of Receipt.	
Kenneth C. Baldwin, Esq. Robinson & Cole LLP One State Street Hartford, CT 06103		3	3		
Postmaster, per (name of receiving employee)					
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Benjamin Florsheim, Mayor City of Middletown 245 deKoven Drive Middletown, CT 06457				
2.	Marek Kozikowski, Director of Land Use City of Middletown 245 deKoven Drive Middletown, CT 06457				
3.	Ernest and Brenda Trumpold P.O. Box 1761 Wallingford, CT 06492				
4.					
5.					
6.					