

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

November 3, 2022

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**
144 Old Boston Road (Moses Mountain), Danbury, 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 and remote radio heads attached to a tower and associated equipment on the ground near the base of the structure. The tower is owned by New Cingular Wireless PCS LLC (“AT&T”) and was approved by the City of Danbury (“Danbury” or “City”) sometime prior to 1991. Cellco representatives reached out to Jennifer Emminger Danbury’s Deputy Planning Director in an effort to obtain a copy of any City’s original tower approval. Ms. Emminger could not locate any local permits or approvals for the tower in any of the City’s current or archived records. AT&T received a similar response from City officials earlier this year, as referenced in its July 20, 2022 exempt modification filing for the same tower site. According to the Council’s Telecommunications Database, Cellco’s share use of the AT&T tower was approved on June 7, 2000. Cellco and the Council were unable to locate a copy of the June 7, 2000 approval. The Council has approved several Cellco exempt modification filings since that time.

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas and three (3) new MX06FRO660-03 antennas on its existing antenna mounts. Cellco also intends to install six (6) remote radio heads (“RRHs”) behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRH specifications are included in Attachment 1.

Melanie A. Bachman, Esq.
November 3, 2022
Page 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 Danbury's Chief Elected Official and Land Use Officer.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. The replacement antennas will be installed on Cellco's existing antenna mounts.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative MPE table and Cellco's far field tables for Cellco's modified facility are included in Attachment 2. 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 ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 3.

A copy of the parcel map and Property owner information is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 5.

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).

Melanie A. Bachman, Esq.
November 3, 2022
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Dean Esposito, Danbury Mayor
Sharon Calitro, Danbury Planning Director
State of Connecticut Park
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

verizon

WIRELESS COMMUNICATIONS FACILITY

DANBURY S CT
144 POST ROAD
DANBURY, CT 06810

DRAWING INDEX

- T-1 TITLE SHEET
- C-1 COMPOUND PLAN, TOWER ELEVATION, EQUIPMENT PLANS, ELEVATIONS & NOTES.
- B-1 RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS.
- N-1 NOTES & SPECIFICATIONS

SITE DIRECTIONS

START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492

END: 144 POST ROAD
DANBURY, CT 06810

- | | |
|---|---------|
| 1. HEAD SOUTH TOWARD ALEXANDER DRIVE | 279 FT |
| 2. SLIGHT RIGHT TOWARDS ALEXANDER DRIVE | 289 FT |
| 3. TURN RIGHT TOWARD ALEXANDER DRIVE | 157 FT |
| 4. TURN RIGHT ONTO ALEXANDER DRIVE | 0.3 MI |
| 5. TURN RIGHT ONTO BARNES INDUSTRIAL ROAD PARK ROAD | 0.1 MI |
| 6. TURN LEFT AT THE 1ST CROSS STREET ONTO CT-68W | 0.2 MI |
| 7. TURN RIGHT | 0.2 MI |
| 8. TURN RIGHT ONTO US-5 NN COLONY RD | 0.4 MI |
| 9. TURN RIGHT TO MERGE ONTO CT-15 N TOWARD HARTFORD | 0.5 MI |
| 10. MERGE ONTO CT-15 N | 3.3 MI |
| 11. TAKE EXIT 88W TO MERGE ONTO I-891 W TOWARD MERIDEN/WATERBURY | 7.7 MI |
| 12. USE ANY LANE TO TAKE EXIT 1 FOR I-84 TOWARD WATERBURY/DANBURY | 1.2 MI |
| 13. MERGE ONTO I-84 | 1.6 MI |
| 14. KEEP LEFT TO STAY ON I-84 | 34.4 MI |
| 15. TAKE EXIT 3 ON THE LEFT TOWARD US-7 S | 0.5 MI |
| 16. CONTINUE ONTO US-7S | 2.6 MI |
| 17. SLIGHT LEFT ONTO POST ROAD | 0.9 MI |



LOCATION MAP
SCALE: 1" = 1000'

SITE INFORMATION

VZ SITE NAME: DANBURY S CT
VZ PROJ FUZE I.D.: 2052730
VZ LOCATION CODE: 20212246592
VZ PROJECT CODE: 467555

LOCATION: 144 POST ROAD
DANBURY, CT 06810

PROJECT SCOPE: REFER TO NOTE SHEET C-1 FOR SCOPE OF WORK.

MAP/BLOCK/LOT: G20/9/

ZONING DISTRICT: IL40 (LIGHT INDUSTRIAL)

LATITUDE: 41° 21' 34.3116" N (41.359531° N)

LONGITUDE: 73° 27' 55.7316" W (73.465481° W)

GROUND ELEVATION: 983 ± AMSL

PROPERTY OWNER: NEW CINGULAR WIRELESS PCS LLC
675 WEST PEACHTREE ST NW #2756
ATLANTA, GA 30308

APPLICANT: CELCO PARTNERSHIP
d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

LEGAL/REGULATORY COUNSEL: ROBINSON & COLE, LLP
KENNETH C. BALDWIN, ESQ.
280 TRUMBULL STREET
HARTFORD, CT 06103

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06395
(860) 663-1567

VERIZON SMART TOOL PROJECT # 1011218

SITE COORDINATES AND GROUND
ELEVATION OBTAINED FROM VERIZON
RFDS & GOOGLE EARTH.

Cellco Partnership d/b/a

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS
TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06395 PHONE: (860) 663-1567
WWW.ALLPOINTS TECH.COM FAX: (860) 663-0836

CONSTRUCTION DOCUMENTS

NO.	DATE	REVISION
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2	01/26/23	FOR FILING: JRM
3	01/24/23	FOR FILING: JRM
4	02/07/23	FOR FILING: JRM
5	10/04/22	FOR FILING: JRM
6		



DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY
CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT.
SUITE 311
WATERFORD, CT 06395

OWNER: NEW CINGULAR WIRELESS PCS
LLC
ADDRESS: 675 WEST PEACHTREE ST NW
#2756 ATLANTA, GA 30308

DANBURY S CT

SITE: 144 POST ROAD
ADDRESS: DANBURY, CT 06810

APT FILING NUMBER: CT141_13060

DRAWN BY: DRA

DATE: 11/16/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212246592

VZ LOCATION CODE: 467555

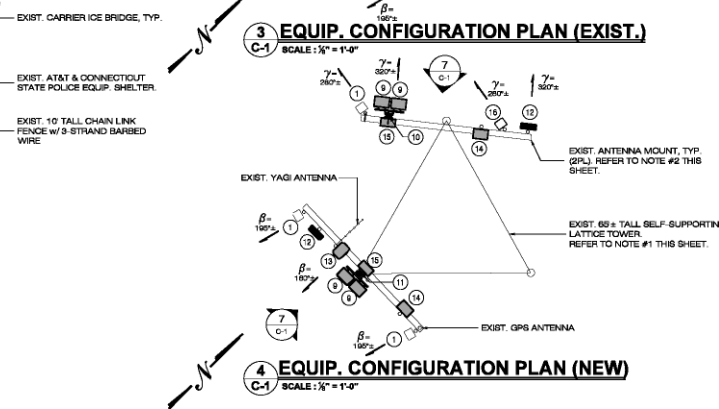
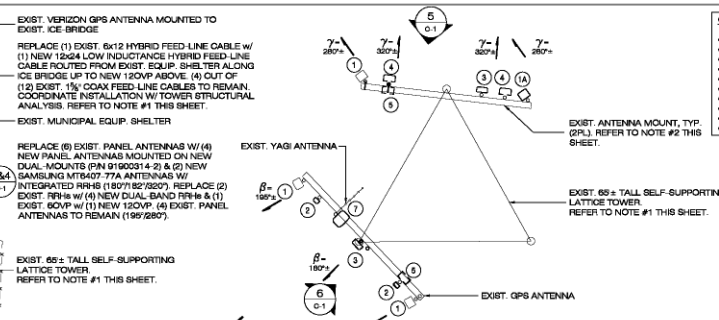
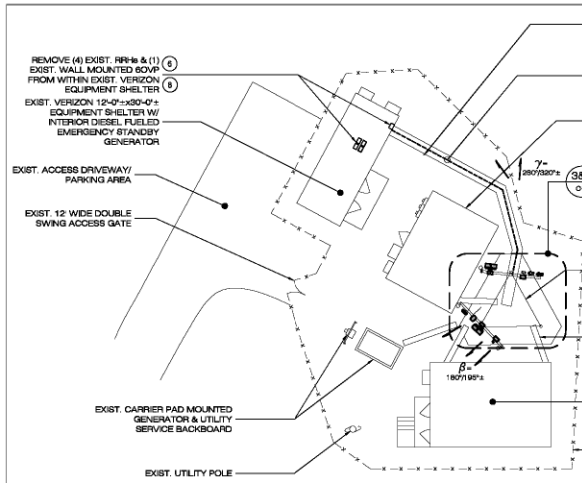
VZ FUZE ID: 2052730

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1



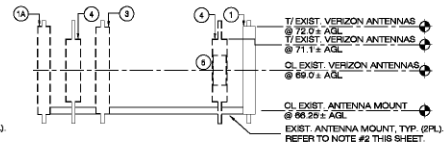
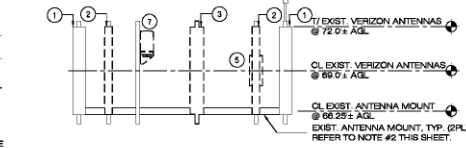
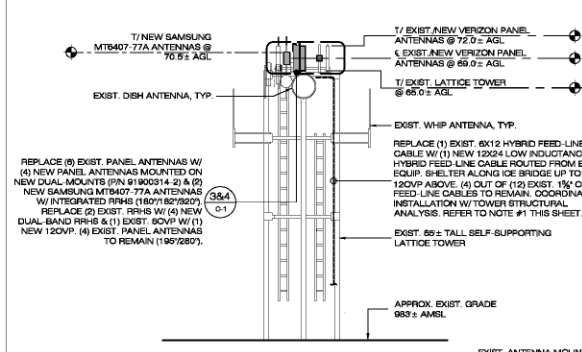
- GENERAL ABBREVIATION LIST:**
- ABP ABOVE BASE PLATE
 - AGL ABOVE GROUND LEVEL
 - AMBL ABOVE MEAN SEA LEVEL
 - AWS ADVANCED WIRELESS SERVICE
 - HDG HOT DIP GALVANIZED
 - OVP OVER VOLTAGE PROTECTION
 - RRH REMOTE RADIO HEAD
 - V.I.F. VERIFY IN FIELD
 - W.P. WORK POINT
 - A.F.R. ABOVE FINISH ROOF

- NOTES:**
- REFER TO TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY GFD ENGINEERING AND ARCHITECTURE PROFESSIONAL CORP. MARKED REV1 (GFD) 2/22/23 (1) 6/4/17 (2) DATED 09/27/22 AVAILABLE UNDER SEPARATE COVER.
 - REFER TO ANTENNA MOUNT ANALYSIS REPORT WITH HARDWARE UPGRADES AND P.M. REQUIREMENTS PREPARED BY MASER CONSULTING CONNECTICUT, PROJECT #21781167A MARKED REV0, DATED 02/05/22 AVAILABLE UNDER SEPARATE COVER.
 - BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 10/21/21.
 - PROJECT SCOPE INCLUDES THE FOLLOWING:
 - REPLACEMENT OF (6) EXIST. PANEL ANTENNAS W/ (4) NEW PANEL ANTENNAS MOUNTED ON NEW DUAL-MOUNTS (PN 91900314-2) & (2) NEW SAMSUNG MT6407-77A ANTENNAS W/ INTEGRATED RRHs.
 - REPLACEMENT OF (2) EXIST. RRHs w/ (4) NEW DUAL-BAND RRHs.
 - REMOVAL OF (4) EXIST. RRHs (EXIST. VERIZON EQUIP. SHELTER).
 - REPLACEMENT OF (1) EXIST. WALL MOUNTED 60VP W/ (1) NEW RACK MOUNTED 60VP (EXIST. VERIZON EQUIP. SHELTER).
 - REMOVAL OF (8) OUT OF (12) EXIST. 1 1/2" COAX FEED LINE CABLES.
 - ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG) PAINT TO MATCH EXIST. (WHERE APPLICABLE).
 - CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
 - MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
 - SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS (UNLESS NOTED OTHERWISE).
 - BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR W/ # 2 AWG. BOW. (WHERE APPLICABLE).
 - CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MASTS REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.
 - ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS (UNLESS NOTED OTHERWISE).
 - ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
 - REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLES & DOWN-TILT INFORMATION.
 - PAINT ALL LUBR MOUNTINGS TO MATCH EXISTING STRUCTURE (WHERE APPLICABLE). COORDINATE W/ LUBR MANUFACTURER INSTALLATION MANUAL, REQUIREMENTS, VERIZON CONSTRUCTION MANAGER & OWNER.
 - PAINT ALL NEW NON SAMSUNG MT6407-77A ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.

1 COMPOUND PLAN
C-1 SCALE: 1" = 16'-0"

3 EQUIP. CONFIGURATION PLAN (EXIST.)
C-1 SCALE: 3/4" = 1'-0"

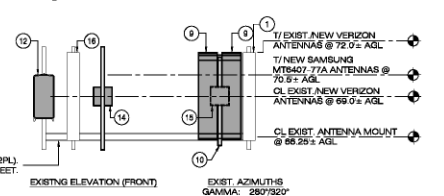
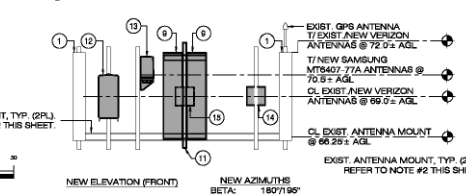
4 EQUIP. CONFIGURATION PLAN (NEW)
C-1 SCALE: 3/4" = 1'-0"



2 TOWER ELEVATION
C-1 SCALE: 1" = 16'-0"

5 BETA EQUIP. MOUNTING CONFIG. (EXIST.)
C-1 SCALE: 1/2" = 1'-0"

7 GAMMA EQUIP. MOUNTING CONFIG. (EXIST.)
C-1 SCALE: 1/2" = 1'-0"



6 BETA EQUIP. MOUNTING CONFIG. (NEW)
C-1 SCALE: 1/2" = 1'-0"

8 GAMMA EQUIP. MOUNTING CONFIG. (NEW)
C-1 SCALE: 1/2" = 1'-0"

Cellco Partnership d/b/a
verizon

20 ALEXANDER DRIVE
WATERFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06395
WWW.ALLPOINTSTECH.COM FAX: (860) 943-0836

CONSTRUCTION DOCUMENTS

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0	11/16/21	FOR REVIEW: JRM
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4	02/07/23	FOR FILING: JRM
5	10/04/22	FOR FILING: JRM
6		



DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION
ADDR: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06395

OWNER: NEW CINCULAR WIRELESS PCOR LLC
ADDRESS: 675 WEST PEACHTREE ST NW #276 ATLANTA, GA. 30339

DANBURY S CT

SITE: 144 POB ROAD
ADDRESS: DANBURY, CT 06810

APT FILING NUMBER: CT141_13060

DATE: 11/16/21
DRAWN BY: JRM
CHECKED BY: DRA

VZ PROJECT CODE: 2021224692
VZ LOCATION CODE: 467555
VZ FLIZE ID: 2002730

SHEET TITLE:
COMPOUND PLAN, TOWER ELEVATION, EQUIPMENT PLANS, ELEVATIONS & NOTES

SHEET NUMBER:
C-1

EQUIPMENT DATA								
EQUIPMENT SPECIFICATIONS								
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (ft)	WIDTH (in)	DEPTH (in)	WEIGHT (LBS)
BETA	850 ANDREW DB846F85ZAXY	1	190°	ETR	72.0	8.5	10.0	20.0 ^{PH}
	700/850/1900/2100 JMA MX06FR0650-03	1	160°	NEW	71.3	15.4	10.7	60.0 ^{PH}
	700/850/1900/2100 JMA MX06FR0650-03	1	160°	NEW	71.3	15.4	10.7	60.0 ^{PH}
GAMMA	850 ANDREW DB846F85ZAXY	1	190°	ETR	72.0	8.5	10.0	20.0 ^{PH}
	700/850/1900/2100 JMA MX06FR0650-03	1	320°	NEW	71.3	15.4	10.7	60.0 ^{PH}
	700/850/1900/2100 JMA MX06FR0650-03	1	320°	NEW	71.3	15.4	10.7	60.0 ^{PH}
APPURTENANCE MAKE/MODEL								
	SAMSUNG B2/B65A RPH (RF44394-25A)	2	-	NEW	15.0	16.0	10.1	97.5
	SAMSUNG B5/B13 RPH (RF44404-13A)	2	-	NEW	15.0	16.0	9.1	82.0
	RAYCAP RVZDC 6627-PF-48	1	-	NEW	20.5	16.5	12.6	32.0

- ETR DENOTES EXIST TO REMAIN, ERL DENOTES EXIST TO BE RELOCATED
- WEIGHT WITHOUT MOUNTING BRACKET
- ANTENNA DATA BASED ON LATEST VERIZON RFDS.
- EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND.
- NOT TO EXCEED

EQUIPMENT DATA				BILL OF MATERIALS		COMMENTS
EQUIPMENT DESCRIPTION	QUANTITY	LENGTH				
① 700/850/1900/2100	4					(JMA MX06FR0650-03) W/ NEW JMA DUAL MOUNT (P/N 91900314-2) & NEW PIPE MAST
② LBUB6 ANTENNA W/ INTEGRATED RPH	2					SAMSUNG MT6407-77A
③ 1/2" JUMPER CABLE	24	15 FT				ROUTE FROM RPH TO ANTENNAS
④ ANTENNA LINK CABLES	4	15 M				ROUTE FROM UPPER OVP TO ANTENNAS
⑤ ANTENNA POWER CABLES	2	15 M				PROPRIETARY POWER CABLE FROM UPPER OVP TO ANTENNAS
⑥ AWS/PCS RPH	2					SAMSUNG B2/B65 RPH (RF44394-25A)
⑦ 700/850 RPH	2					SAMSUNG B5/B13 RPH (RF44404-13A)
⑧ RPH CABLES	4	15M				PROPRIETARY POWER & FIBER CABLES
⑨ UPPER 120VCP	1					(RVZDC 6627-PF-48)
⑩ HYBRID CABLE	1	140 ± FT				12x24 LOW INDUCTANCE HYBRID CABLE

NOTES: 1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON LATEST VERIZON RFDS.
3. DENOTES EQUIPMENT DESIGNATED FOR LEASING ONLY (WHERE APPLICABLE).
4. INSTALL ALARM BORDERS AT ALL OVPS WHERE REQUIRED. COORDINATE W/ VERIZON EQUIPMENT ENGINEERING.
5. INSTALL LP CONVERTER(S) LOCATED AT BASE OVPS WHERE REQUIRED. COORDINATE W/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
6. COORDINATE ANTENNA CABLEING REQUIREMENTS WITH VERIZON ENGINEERING.
7. CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MAST REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.

Cellco Partnership d/b/a

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860) 463-9887
WWW.ALLPOINTSTECH.COM FAX: (860) 463-9836

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COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: NEW CINGULAR WIRELESS PCRB LLC
ADDRESS: 875 WEST PEACHTREE ST NW #2708 ATLANTA, GA 30358

DANBURY S CT

SITE: 144 FOST ROAD
ADDRESS: DANBURY, CT 06810

APT FILING NUMBER: CT141_13060

DATE: 11/16/21 CHECKED BY: JRM

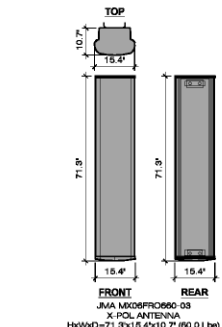
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VZ LOCATION CODE: 467555

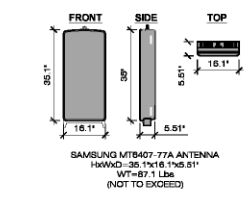
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SHEET TITLE:
RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS

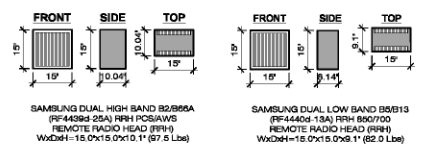
SHEET NUMBER:
B-1



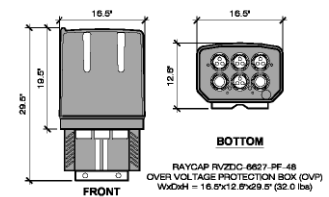
2 NEW ANTENNA DETAIL
B-1 SCALE: 1/2" = 1'-0"



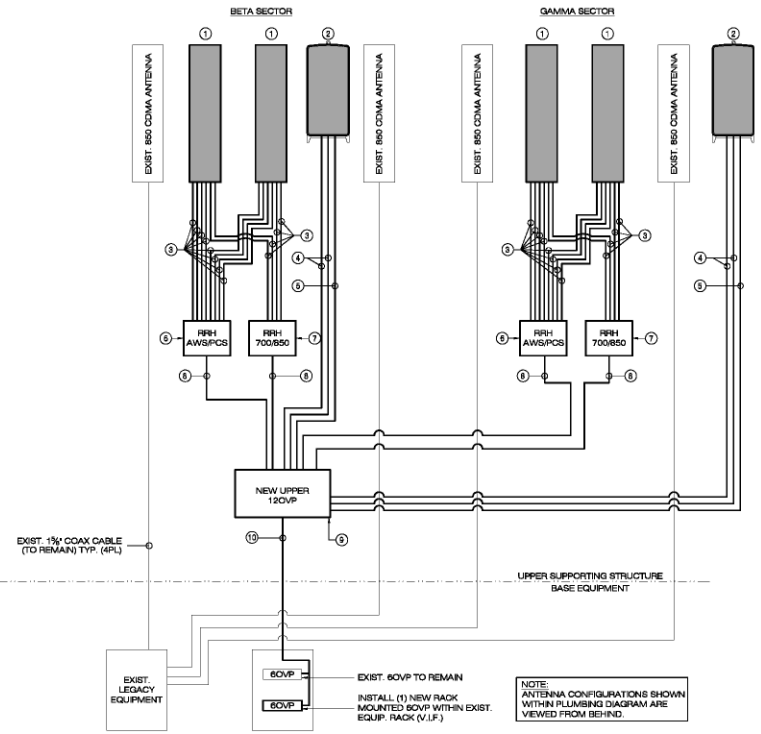
3 NEW ANTENNA DETAIL
B-1 SCALE: 1/2" = 1'-0"



4 RRH EQUIPMENT DETAILS
B-1 SCALE: 1/2" = 1'-0"



5 OVER VOLTAGE PROTECTION BOX (OVP)
B-1 SCALE: 1" = 1'-0"



1 PLUMBING DIAGRAM
B-1 SCALE: 1/2" = 1'-0"

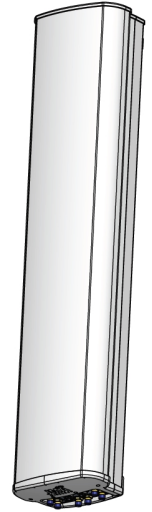
MX06FRO660-03

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

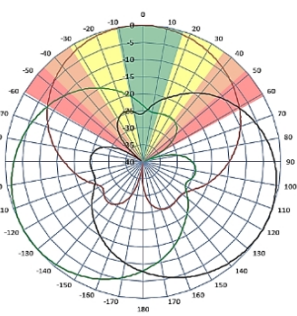
The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

Non-FRO antenna

Large traditional antenna pattern overlap creates harmful interference.

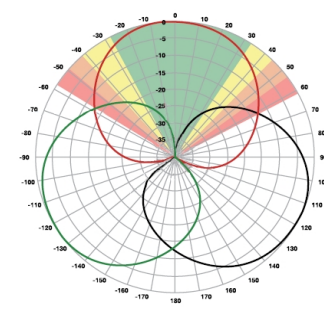
JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

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

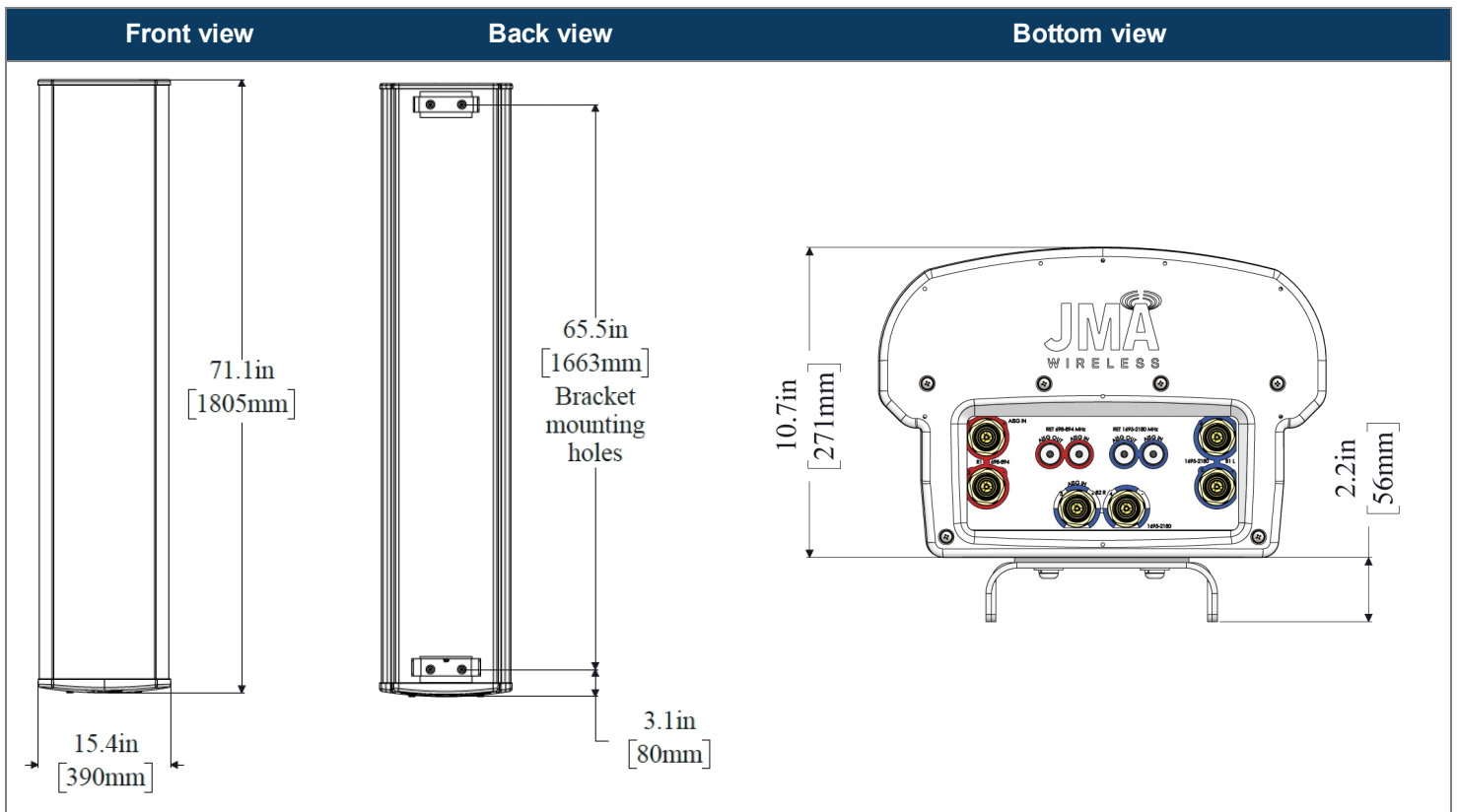
The LTE radio automatically selects the best throughput based on measured SINR.



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
	698-798	824-894	1695-1880	1850-1990	1920-2180
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	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

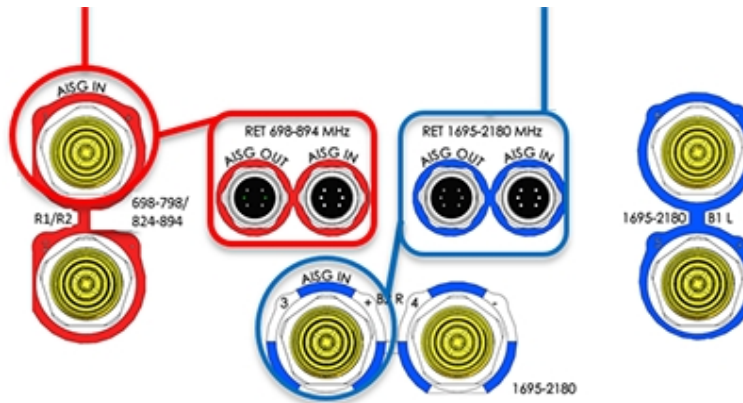
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
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:

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

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



Array topology

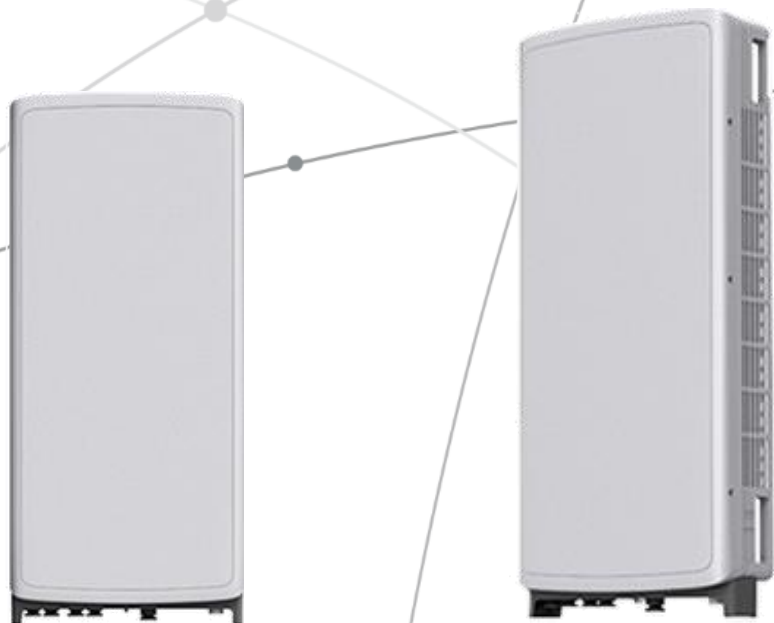
3 sets of radiating arrays R1/R2: 698-894 MHz B1: 1695-2180 MHz B2: 1695-2180 MHz	<table border="1"> <thead> <tr> <th>Band</th> <th>RF port</th> </tr> </thead> <tbody> <tr> <td>1695-2180</td> <td>3-4</td> </tr> <tr> <td>698-894</td> <td>1-2</td> </tr> <tr> <td>1695-2180</td> <td>5-6</td> </tr> </tbody> </table>	Band	RF port	1695-2180	3-4	698-894	1-2	1695-2180	5-6	
	Band	RF port								
1695-2180	3-4									
698-894	1-2									
1695-2180	5-6									

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



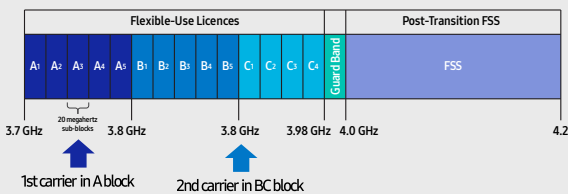
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

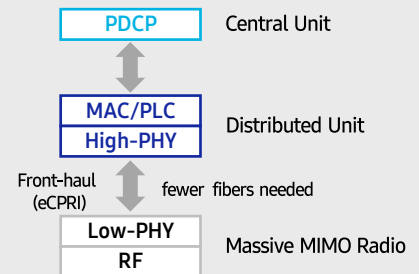
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

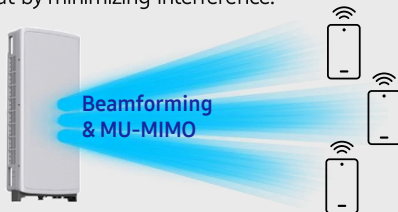


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

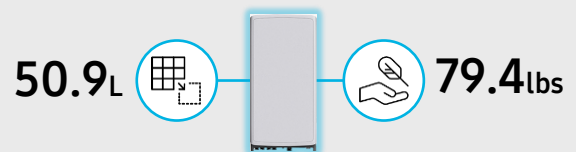
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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SAMSUNG

700/850MHZ 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 700/850MHz 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 RF4440d-13A



Homepage
samsungnetworks.com

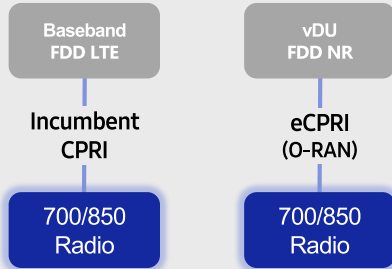


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

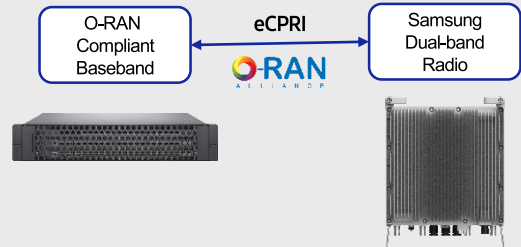
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

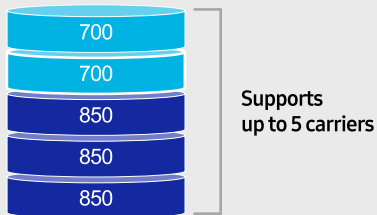
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

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

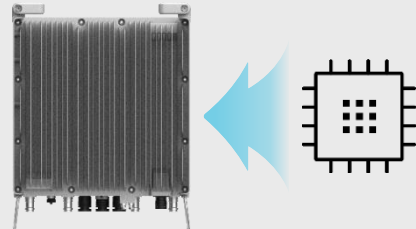
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

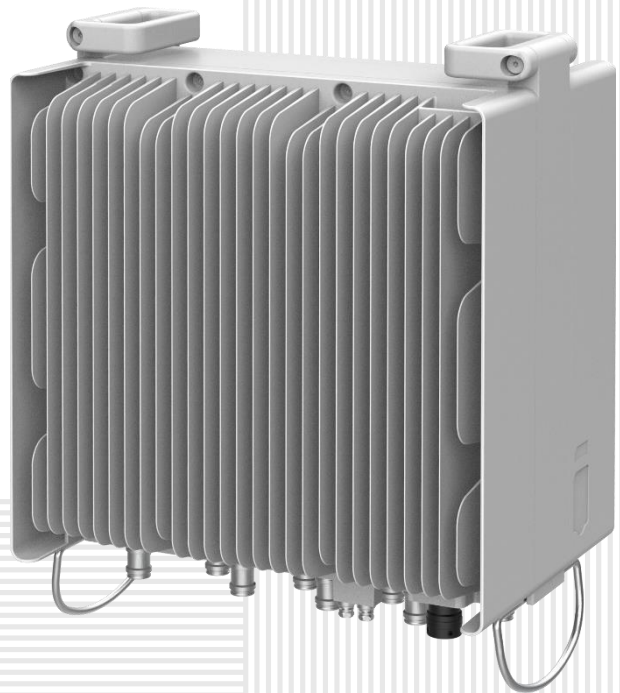
SAMSUNG

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

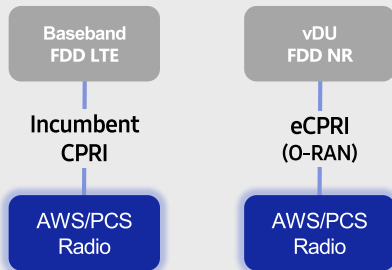


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

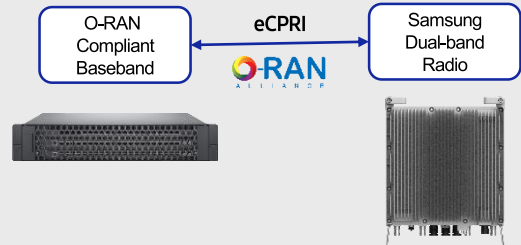
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



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.

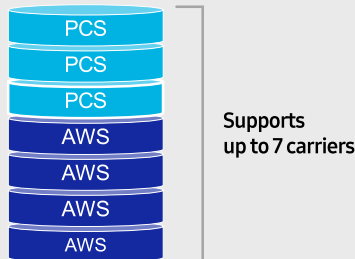
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

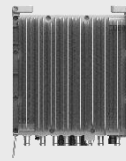
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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.



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

Same as an incumbent radio volume

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

ATTACHMENT 2

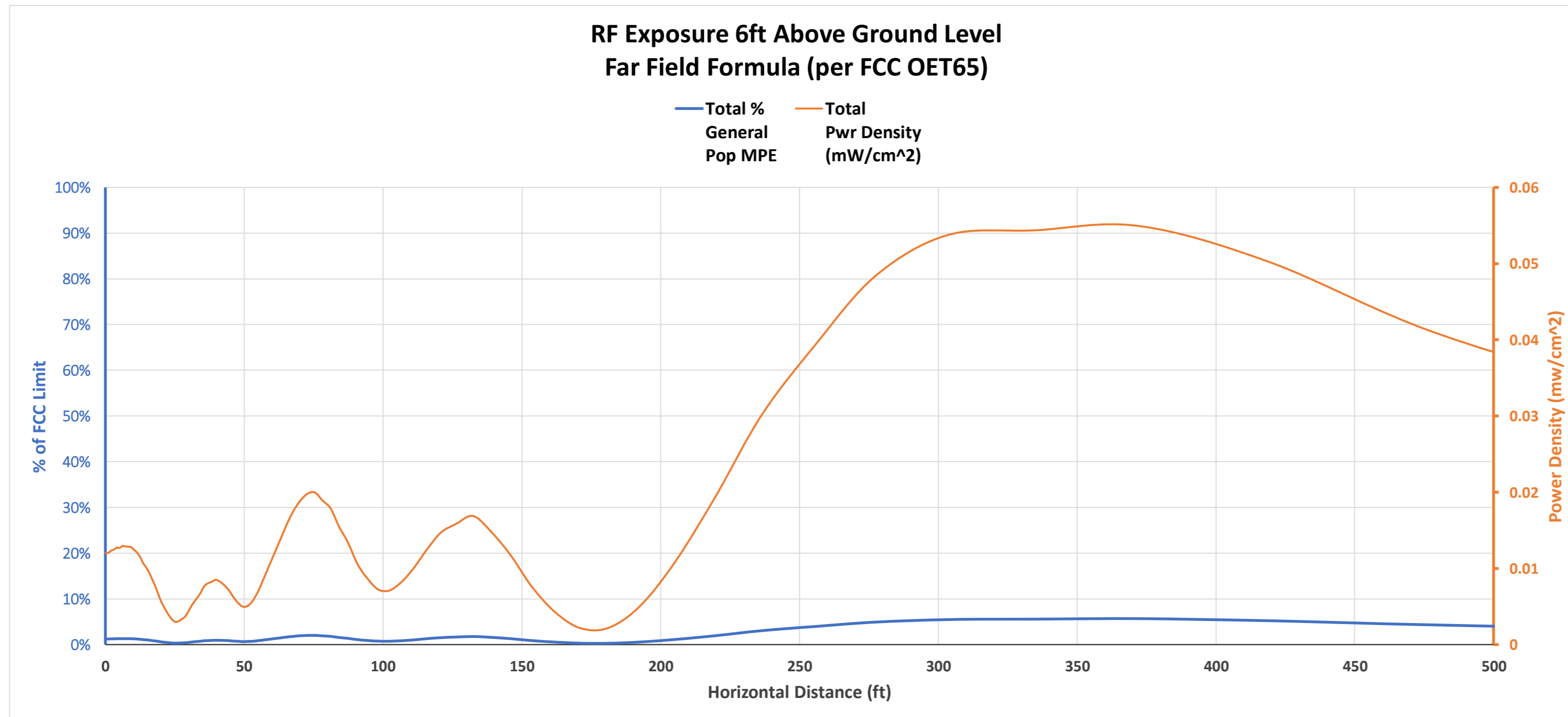
CUMULATIVE MPE TABLE

Carrier		MPE %
AT&T and Various Unknow Antennas		3.57 %
*Verizon Wireless		5.7 %
<i>Site Total</i>		<i>9.27 %</i>

*See attached Verizon Wireless General Power Density table.

Note: MPE percentages for the carriers in the above table was compiled from the Centerline Communications Radio Frequency Exposure Analysis Report, dated August 23, 2022 submitted by New Cingular Wireless, PCS, LLC (AT&T) regarding EM-CING-034-220725.

Location	DANBURY S CT					
Date	10/19/2022					
Band	C-Band	AWS	PCS	850-LTE	850-CDMA	700
Operating Frequency (MHz)	3,700	2,145	1,970	880	869	746
General Population MPE (mW/cm ²)	1	1	1	0.586666667	0.579333333	0.497333333
ERP Per Transmitter (Watts)	13,335	1,566	1,134	767	0	507
Number of Transmitters	2	2	2	2	2	2
Antenna Centerline (feet)	69	69	69	69	69	69
Total ERP (Watts)	26,670	3,132	2,269	1,534	0	1,014
Total ERP (dBm)	74	65	64	62	#N/A	60
Maximum % of General Population Limit	5.7%					



Angle Below Horizon	Power Density (mW/cm ²)						Percent of General Population MPE							Distance	Total Pwr Density (mW/cm ²)	Total % General Pop MPE		
	C-Band	AWS	PCS	850-LTE	850-CDMA	700 MHz	39GHz	28GHz	C-Band	CBRS	AWS	PCS	Cellular				CDMA	700 MHz
90	0.011945177	1.50658E-06	3.50747E-07	6.76073E-05	0	2.71016E-05	0.00%	0.00%	1.19%	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	0	0.012041743	1.21%
89	0.011941986	2.72193E-06	6.09365E-08	6.63556E-05	0	2.77255E-05	0.00%	0.00%	1.19%	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	1.029848831	0.01203885	1.21%
88	0.012210357	6.46441E-06	2.92098E-07	6.44955E-05	0	2.63956E-05	0.00%	0.00%	1.22%	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	2.0603254	0.012308004	1.24%
87	0.012363678	1.23865E-05	1.12189E-06	6.1369E-05	0	2.36021E-05	0.00%	0.00%	1.24%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	3.092058978	0.012462158	1.25%
86	0.012627986	1.84984E-05	2.224E-06	5.66416E-05	0	2.02366E-05	0.00%	0.00%	1.26%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	4.125681905	0.012725586	1.28%
85	0.012597572	2.21354E-05	3.41262E-06	5.07093E-05	0	1.71431E-05	0.00%	0.00%	1.26%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	5.161831148	0.012690972	1.27%
84	0.012853018	2.137E-05	5.29427E-06	4.45458E-05	0	1.46828E-05	0.00%	0.00%	1.29%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	6.201149881	0.012938911	1.30%
83	0.012808191	1.66069E-05	8.45841E-06	3.92003E-05	0	1.29506E-05	0.00%	0.00%	1.28%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	7.244289093	0.012885408	1.29%
82	0.012756562	1.07779E-05	1.23178E-05	3.57713E-05	0	1.20098E-05	0.00%	0.00%	1.28%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	8.291909247	0.012827439	1.29%
81	0.01269817	7.20346E-06	1.533E-05	3.5119E-05	0	1.18999E-05	0.00%	0.00%	1.27%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	9.344681979	0.012767723	1.28%
80	0.012345499	7.28298E-06	1.69945E-05	3.75241E-05	0	1.24541E-05	0.00%	0.00%	1.23%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	10.40329186	0.012419754	1.25%
79	0.011995938	9.35049E-06	1.83584E-05	4.33347E-05	0	1.34846E-05	0.00%	0.00%	1.20%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	11.46843824	0.012080466	1.21%
78	0.011384548	1.05467E-05	2.05644E-05	5.27372E-05	0	1.47611E-05	0.00%	0.00%	1.14%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	12.54083714	0.011483157	1.15%
77	0.010552394	9.4439E-06	2.38315E-05	6.57888E-05	0	1.59644E-05	0.00%	0.00%	1.06%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	13.62122328	0.010667422	1.07%
76	0.010003162	6.8539E-06	2.84406E-05	8.20235E-05	0	1.67086E-05	0.00%	0.00%	1.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	14.71035217	0.010137188	1.02%
75	0.0092613	4.31988E-06	3.65993E-05	0.000100109	0	1.65758E-05	0.00%	0.00%	0.93%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	15.80900235	0.009418904	0.95%
74	0.008374365	2.8103E-06	5.197E-05	0.000117694	0	1.53375E-05	0.00%	0.00%	0.84%	0.00%	0.00%	0.01%	0.02%	0.00%	0.00%	16.91797776	0.008562176	0.87%
73	0.007395608	2.79109E-06	7.7228E-05	0.000132366	0	1.2995E-05	0.00%	0.00%	0.74%	0.00%	0.00%	0.01%	0.02%	0.00%	0.00%	18.03811021	0.007620988	0.77%
72	0.006233536	4.48265E-06	0.000111567	0.000142081	0	1.02456E-05	0.00%	0.00%	0.62%	0.00%	0.00%	0.01%	0.02%	0.00%	0.00%	19.17026208	0.006501912	0.66%
71	0.005190746	7.04742E-06	0.000152416	0.000145222	0	8.35665E-06	0.00%	0.00%	0.52%	0.00%	0.00%	0.02%	0.02%	0.00%	0.00%	20.31532918	0.005503788	0.56%

70	0.004369743	8.22728E-06	0.000196452	0.000142317	0	8.15189E-06	0.00%	0.00%	0.44%	0.00%	0.00%	0.02%	0.02%	0.00%	0.00%	21.47424382	0.004724892	0.48%
69	0.003592597	6.3857E-06	0.000241107	0.000135273	0	1.07451E-05	0.00%	0.00%	0.36%	0.00%	0.00%	0.02%	0.02%	0.00%	0.00%	22.64797807	0.003986107	0.41%
68	0.002951773	2.85682E-06	0.000281115	0.000126149	0	1.981E-05	0.00%	0.00%	0.30%	0.00%	0.00%	0.03%	0.02%	0.00%	0.00%	23.83754732	0.003381704	0.35%
67	0.002520429	1.04779E-06	0.000307805	0.000117294	0	3.85724E-05	0.00%	0.00%	0.25%	0.00%	0.00%	0.03%	0.02%	0.00%	0.01%	25.04401416	0.002985148	0.31%
66	0.002544356	2.54319E-06	0.000315049	0.000108988	0	6.5672E-05	0.00%	0.00%	0.25%	0.00%	0.00%	0.03%	0.02%	0.00%	0.01%	26.26849243	0.003036608	0.32%
65	0.002814411	5.94549E-06	0.000297295	0.000101202	0	0.000101202	0.00%	0.00%	0.28%	0.00%	0.00%	0.03%	0.02%	0.00%	0.02%	27.51215183	0.003320056	0.35%
64	0.003183446	1.1084E-05	0.000252754	9.39072E-05	0	0.000146454	0.00%	0.00%	0.32%	0.00%	0.00%	0.03%	0.02%	0.00%	0.03%	28.77622273	0.003687645	0.39%
63	0.003936424	2.36539E-05	0.000187026	8.60802E-05	0	0.000201792	0.00%	0.00%	0.39%	0.00%	0.00%	0.02%	0.01%	0.00%	0.04%	30.06200152	0.004434977	0.47%
62	0.004764243	5.38015E-05	0.000110356	7.68768E-05	0	0.000268409	0.00%	0.00%	0.48%	0.00%	0.01%	0.01%	0.01%	0.00%	0.05%	31.37085647	0.005273686	0.56%
61	0.005377733	0.000108235	4.22053E-05	6.61253E-05	0	0.000347032	0.00%	0.00%	0.54%	0.00%	0.01%	0.00%	0.01%	0.00%	0.07%	32.70423404	0.005940927	0.63%
60	0.00594036	0.000184337	6.11806E-06	5.39031E-05	0	0.000436129	0.00%	0.00%	0.59%	0.00%	0.02%	0.00%	0.01%	0.00%	0.09%	34.06366588	0.006620848	0.71%
59	0.006694597	0.000273228	2.47472E-05	4.12597E-05	0	0.000535213	0.00%	0.00%	0.67%	0.00%	0.03%	0.00%	0.01%	0.00%	0.11%	35.45077652	0.007569045	0.81%
58	0.006875328	0.000365674	0.000113787	3.17026E-05	0	0.000639876	0.00%	0.00%	0.69%	0.00%	0.04%	0.01%	0.01%	0.00%	0.13%	36.86729176	0.008026367	0.87%
57	0.006722192	0.000450102	0.000278812	3.29088E-05	0	0.00074527	0.00%	0.00%	0.67%	0.00%	0.05%	0.03%	0.01%	0.00%	0.15%	38.315048	0.008229285	0.90%
56	0.00658215	0.00051188	0.000513061	5.54842E-05	0	0.000843665	0.00%	0.00%	0.66%	0.00%	0.05%	0.05%	0.01%	0.00%	0.17%	39.79600249	0.00850624	0.94%
55	0.005872921	0.00052439	0.000795527	0.000107314	0	0.000928232	0.00%	0.00%	0.59%	0.00%	0.05%	0.08%	0.02%	0.00%	0.19%	41.31224475	0.008228384	0.92%
54	0.005034538	0.000461063	0.001093353	0.000193009	0	0.00099486	0.00%	0.00%	0.50%	0.00%	0.05%	0.11%	0.03%	0.00%	0.20%	42.86600915	0.007776905	0.89%
53	0.004089529	0.000321717	0.001372379	0.00031295	0	0.001031516	0.00%	0.00%	0.41%	0.00%	0.03%	0.14%	0.05%	0.00%	0.21%	44.45968896	0.007128091	0.84%
52	0.002999049	0.000150586	0.001602449	0.000462152	0	0.001037017	0.00%	0.00%	0.30%	0.00%	0.02%	0.16%	0.08%	0.00%	0.21%	46.09585196	0.006251253	0.76%
51	0.00202245	4.45326E-05	0.001776964	0.000629041	0	0.001010835	0.00%	0.00%	0.20%	0.00%	0.00%	0.18%	0.11%	0.00%	0.20%	47.77725796	0.005483824	0.69%
50	0.001186707	0.000120266	0.001919306	0.00080001	0	0.000950924	0.00%	0.00%	0.12%	0.00%	0.01%	0.19%	0.14%	0.00%	0.19%	49.50687824	0.004977303	0.65%
49	0.000728393	0.000459374	0.00204723	0.000957562	0	0.000863313	0.00%	0.00%	0.07%	0.00%	0.05%	0.20%	0.16%	0.00%	0.17%	51.28791753	0.005055873	0.66%
48	0.000660588	0.001056163	0.002196502	0.001083258	0	0.000754629	0.00%	0.00%	0.07%	0.00%	0.11%	0.22%	0.18%	0.00%	0.15%	53.12383861	0.005751141	0.73%
47	0.000993167	0.001810601	0.002375873	0.001160977	0	0.000632157	0.00%	0.00%	0.10%	0.00%	0.18%	0.24%	0.20%	0.00%	0.13%	55.01839008	0.006972775	0.84%
46	0.001732303	0.002555195	0.002602704	0.001178759	0	0.000503995	0.00%	0.00%	0.17%	0.00%	0.26%	0.26%	0.20%	0.00%	0.10%	56.97563771	0.008572957	0.99%
45	0.002784309	0.003144254	0.002880834	0.001133753	0	0.000378024	0.00%	0.00%	0.28%	0.00%	0.31%	0.29%	0.19%	0.00%	0.08%	59	0.010321175	1.15%
44	0.004142704	0.00350013	0.003192161	0.001025853	0	0.000263079	0.00%	0.00%	0.41%	0.00%	0.35%	0.32%	0.17%	0.00%	0.05%	61.09628851	0.012123926	1.31%
43	0.005784996	0.003640016	0.003516445	0.000869169	0	0.000174223	0.00%	0.00%	0.58%	0.00%	0.36%	0.35%	0.15%	0.00%	0.04%	63.26975389	0.013984848	1.48%
42	0.007686932	0.003660608	0.003754515	0.000680071	0	0.000129287	0.00%	0.00%	0.77%	0.00%	0.37%	0.38%	0.12%	0.00%	0.03%	65.52613837	0.015911413	1.65%
41	0.009541366	0.003659408	0.003796745	0.000484632	0	0.000112568	0.00%	0.00%	0.95%	0.00%	0.37%	0.38%	0.08%	0.00%	0.02%	67.87173603	0.017594717	1.80%
40	0.011320109	0.003720924	0.003488602	0.000301753	0	9.60844E-05	0.00%	0.00%	1.13%	0.00%	0.37%	0.35%	0.05%	0.00%	0.02%	70.31346196	0.018927473	1.92%
39	0.012925468	0.003830421	0.00280703	0.000148678	0	8.26511E-05	0.00%	0.00%	1.29%	0.00%	0.38%	0.28%	0.03%	0.00%	0.02%	72.85893224	0.019794249	2.00%
38	0.014040049	0.003918942	0.001845735	7.1973E-05	0	7.14778E-05	0.00%	0.00%	1.40%	0.00%	0.39%	0.18%	0.01%	0.00%	0.01%	75.5165563	0.019948177	2.01%
37	0.014079472	0.003822844	0.000877783	5.39992E-05	0	5.57685E-05	0.00%	0.00%	1.41%	0.00%	0.38%	0.09%	0.01%	0.00%	0.01%	78.29564448	0.018889867	1.90%
36	0.014192726	0.00371833	0.000205053	3.53075E-05	0	3.06103E-05	0.00%	0.00%	1.42%	0.00%	0.34%	0.02%	0.01%	0.00%	0.01%	81.20653331	0.01783553	1.79%
35	0.012846072	0.002515189	6.72312E-06	3.51214E-05	0	2.73258E-05	0.00%	0.00%	1.28%	0.00%	0.25%	0.00%	0.01%	0.00%	0.01%	84.2607324	0.015430431	1.55%
34	0.011605406	0.001414036	0.000221035	4.70394E-05	0	6.47833E-05	0.00%	0.00%	1.16%	0.00%	0.14%	0.02%	0.01%	0.00%	0.01%	87.47109714	0.013352301	1.35%
33	0.009368987	0.000461841	0.000572128	5.66883E-05	0	8.44297E-05	0.00%	0.00%	0.94%	0.00%	0.05%	0.06%	0.01%	0.00%	0.02%	90.85203287	0.010544074	1.07%
32	0.00774141	2.12628E-05	0.00074924	5.51596E-05	0	9.85423E-05	0.00%	0.00%	0.77%	0.00%	0.00%	0.07%	0.01%	0.00%	0.02%	94.41973721	0.008665614	0.88%
31	0.006294934	0.000186548	0.000619144	4.24417E-05	0	0.000110865	0.00%	0.00%	0.63%	0.00%	0.02%	0.06%	0.01%	0.00%	0.02%	98.19248946	0.007253933	0.74%
30	0.005944967	0.00068069	0.000304054	2.79866E-05	0	0.000123581	0.00%	0.00%	0.59%	0.00%	0.07%	0.03%	0.00%	0.00%	0.02%	102.1909976	0.007081279	0.72%
29	0.006842782	0.001056898	5.66283E-05	2.90425E-05	0	0.000139648	0.00%	0.00%	0.68%	0.00%	0.11%	0.01%	0.00%	0.00%	0.03%	106.4388176	0.008124999	0.83%
28	0.008653114	0.001047063	4.22643E-05	5.98375E-05	0	0.000162545	0.00%	0.00%	0.87%	0.00%	0.10%	0.00%	0.01%	0.00%	0.03%	110.9628615	0.009964824	1.02%
27	0.011191609	0.000742494	0.000206868	0.000120696	0	0.000197558	0.00%	0.00%	1.12%	0.00%	0.07%	0.02%	0.02%	0.00%	0.04%	115.7940198	0.012459225	1.27%
26	0.013468166	0.000446795	0.000347624	0.000210916	0	0.000248377	0.00%	0.00%	1.35%	0.00%	0.04%	0.03%	0.04%	0.00%	0.05%	120.9679267	0.014721878	1.51%
25	0.014565517	0.000352473	0.00031198	0.000335063	0	0.000311981	0.00%	0.00%	1.46%	0.00%	0.04%	0.03%	0.06%	0.00%	0.06%	126.5259083	0.015877015	1.64%
24	0.015482427	0.000379874	0.000143761	0.000492765	0	0.000374664	0.00%	0.00%	1.55%	0.00%	0.04%	0.01%	0.08%	0.00%	0.08%	132.5161697	0.01687349	1.76%
23	0.013357606	0.000328495	3.02364E-05	0.000663025	0	0.000418342	0.00%	0.00%	1.34%	0.00%	0.03%	0.00%	0.11%	0.00%	0.08%	138.9952896	0.014797704	1.57%
22	0.010206096	0.00015476	0.00010439	0.000814068	0	0.000429202	0.00%	0.00%	1.02%	0.00%	0.02%	0.01%	0.14%	0.00%	0.09%	146.0301244	0.011708518	1.27%
21	0.005903077	4.61189E-05	0.000304004	0.000911758	0	0.000398915	0.00%	0.00%	0.59%	0.00%	0.00%	0.03%	0.16%	0.00%	0.08%	153.7002548	0.007563873	0.86%
20	0.002339962	0.000187072	0.000428558	0.000928988	0	0.000329618	0.00%	0.00%	0.23%	0.00%	0.02%	0.04%	0.16%	0.00%	0.07%	162.1011677	0.004214198	0.52%
19	0.00019681	0.000496418	0.000343438	0.000850842	0	0.000233265	0.00%	0.00%	0.02%	0.00%	0.05%	0.03%	0.15%	0.00%	0.05%	171.3484418	0.002120774	0.30%
18	0.000624251	0.000674776	0.000128576	0.000687322	0	0.000126812	0.00%	0.00%	0.06%	0.00%	0.07%	0.01%	0.12%	0.00%	0.03%	181.5833287	0.002241737	0.29%
17	0.004148269	0.00052804	9.07126E-07	0.000471702	0	3.88749E-05	0.00%	0.00%	0.41%	0.00%	0.05%	0.00%	0.08%	0.00%	0.01%	192.9803045	0.005187793	0.56%
16	0.010574129	0.00019863	9.61713E-05	0.000252375	0	1.49985E-05	0.00%	0.00%	1.06%	0.00%	0.02%	0.01%	0.04%	0.00%	0.00%	205.7574522	0.011136303	1.13%
15	0.019235467	8.43146E-06	0.000322778	8.68768E-05	0	4.49682E-05	0.00%	0.00%	1.92%	0.00%	0.00%	0.03%	0.01%	0.00%	0.01%	220.1909976	0.019698521	1.98%
14	0.029578168	9.32763E-05	0.000454749	2.4142E-05</														

degree below horizon	AT1K02 (39GHz)	AT1K01 (28GHz)	MT6407-77A (3,730MHz)	XXDWMM- 12.5-65 (3,550MHz)	AWS (2,155MHz)	PCS (1,962MHz)
0	0.08	0.08	3.28	1.8	0	0
1	0.39	0.39	2.19	1.3	0.68	0.44
2	0.3	0.3	1.29	0.8	2.52	1.84
3	0	0	0.58	0.5	5.93	4.45
4	0.31	0.31	0.25	0.2	12.1	8.97
5	0.42	0.42	0.05	0.1	21.87	18.01
6	0.13	0.13	0	0	15.41	21.22
7	0.44	0.44	0.3	0	13.04	14.24
8	0.36	0.36	0.5	0.1	14.3	12.95
9	0.09	0.09	1.06	0.2	19.7	14.72
10	0.4	0.4	1.96	0.3	40.58	20.5
11	0.52	0.52	2.79	0.7	20.32	28.34
12	0.26	0.26	3.98	1	17.09	18.39
13	0.57	0.57	5.58	1.5	17.87	15.1
14	0.51	0.51	7.33	2	23.04	14.76
15	0.26	0.26	9.78	2.6	34.06	16.83
16	0.58	0.58	12.92	3.3	20.88	22.63
17	1.07	1.07	17.49	4.2	17.14	43.39
18	0.55	0.55	26.19	5.3	16.55	22.35
19	0.58	0.58	31.65	6.7	18.33	18.53
20	1.08	1.08	21.32	8.2	22.99	17.99
21	0.59	0.59	17.7	9.9	29.47	19.88
22	0.65	0.65	15.7	11.8	24.59	24.9
23	1.22	1.22	14.89	14.5	21.68	30.64
24	0.99	0.99	14.59	18.2	21.39	24.21
25	0.8	0.8	15.18	23.8	22.04	21.17
26	1.11	1.11	15.83	33.9	21.32	21.01
27	1.12	1.12	16.93	27.7	19.41	23.56
28	0.95	0.95	18.33	21.5	18.2	30.74
29	1.25	1.25	19.62	18	18.43	29.74
30	2.03	2.03	20.49	15.7	20.6	22.7
31	3.32	3.32	20.49	14.1	26.47	19.86
32	5.21	5.21	19.83	13	36.14	19.27
33	7.88	7.88	19.23	12.3	23	20.67
34	11.74	11.74	18.52	12.1	18.36	25.02
35	16.19	16.19	18.29	11.9	16.07	40.4
36	14.94	14.94	18.06	11.7	15	25.76
37	15.07	15.07	18.29	11.7	14.65	19.64
38	16.33	16.33	18.49	11.8	14.73	16.6
39	15.38	15.38	19.03	12	15.01	14.96
40	15.03	15.03	19.78	12.5	15.31	14.19

41	15.75	15.75	20.69	13.1	15.55	13.99
42	17.49	17.49	21.79	13.7	15.71	14.2
43	20.55	20.55	23.18	14.2	15.89	14.64
44	21.87	21.87	24.78	14.5	16.21	15.21
45	20.56	20.56	26.65	15.1	16.82	15.8
46	20.35	20.35	28.85	15.9	17.86	16.38
47	21.02	21.02	31.4	16.8	19.49	16.91
48	21.62	21.62	33.3	17.8	21.96	17.38
49	20.49	20.49	33	18.7	25.7	17.81
50	20.28	20.28	31	19.7	31.64	18.21
51	20.83	20.83	28.8	20.7	36.07	18.66
52	22.1	22.1	27.2	21.6	30.89	19.22
53	22.84	22.84	25.96	22.4	27.7	20
54	23.96	23.96	25.16	22.9	26.24	21.09
55	25.61	25.61	24.59	23.3	25.78	22.57
56	24.75	24.75	24.19	23.4	25.98	24.57
57	24.54	24.54	24.19	23.3	26.63	27.31
58	24.84	24.84	24.18	22.7	27.62	31.29
59	25.6	25.6	24.38	21.9	28.97	38
60	25.03	25.03	24.98	21.2	30.76	44.15
61	24.18	24.18	25.49	20.7	33.15	35.84
62	23.83	23.83	26.09	20.5	36.26	31.74
63	23.88	23.88	26.99	20.3	39.9	29.52
64	24.25	24.25	27.98	20.3	43.26	28.28
65	24.7	24.7	28.58	20.5	46.03	27.64
66	24.47	24.47	29.08	20.9	49.78	27.45
67	24.47	24.47	29.18	21.3	53.69	27.61
68	24.68	24.68	28.55	21.7	49.39	28.06
69	25.07	25.07	27.75	21.8	45.95	28.78
70	25.64	25.64	26.95	21.6	44.9	29.72
71	26.36	26.36	26.25	21.2	45.62	30.87
72	27.24	27.24	25.5	21	47.63	32.27
73	28.26	28.26	24.8	21	49.73	33.91
74	28.68	28.68	24.3	21.2	49.74	35.67
75	28.98	28.98	23.9	21.6	47.91	37.23
76	29.37	29.37	23.6	22.1	45.94	38.36
77	29.83	29.83	23.4	22.8	44.58	39.16
78	30.36	30.36	23.1	23.5	44.13	39.83
79	30.94	30.94	22.9	24.5	44.68	40.35
80	30.89	30.89	22.8	25.6	45.79	40.71
81	30.44	30.44	22.7	26.8	45.86	41.18
82	30.13	30.13	22.7	28.2	44.13	42.15
83	29.93	29.93	22.7	29.7	42.27	43.8

84	29.81	29.81	22.7	31.1	41.19	45.85
85	29.76	29.76	22.8	31.9	41.05	47.77
86	29.78	29.78	22.8	32.5	41.84	49.64
87	29.85	29.85	22.9	32.9	43.59	52.62
88	29.97	29.97	22.96	33.3	46.42	58.47
89	30.13	30.13	23.06	33.6	50.18	65.28
90	30.33	30.33	23.06	34.4	52.75	57.68

850-LTE (880MHz)	850-CDMA (869MHz)	700-LTE (746MHz)
0.51	0	0.18
0.16	0	0.01
0	0.2	0
0.04	0.5	0.14
0.29	1.1	0.45
0.76	1.8	0.91
1.46	2.7	1.55
2.41	3.9	2.38
3.67	5.3	3.41
5.29	7	4.68
7.38	9.1	6.24
10.13	11.6	8.15
13.92	14.6	10.53
19.69	18.9	13.51
25.81	25.2	17.19
20.83	35.1	21.89
16.74	30.3	27.2
14.53	26	23.57
13.37	24.5	18.91
12.89	24.5	16.71
12.93	25.7	15.63
13.41	28.4	15.2
14.28	33.4	15.26
15.53	36.4	15.73
17.16	30.9	16.55
19.16	26.6	17.67
21.48	24	18.97
24.2	22.5	20.26
27.53	21.5	21.39
30.94	21	22.32
31.36	21	23.11
29.8	21.4	23.83
28.9	22	24.58
29.01	23.1	25.48
30.04	24.4	26.85
31.52	26.2	30.81
31.7	27.9	30.52
30.05	29.2	28.11
28.99	29.4	27.22
26.02	28.4	26.77
23.12	27	26.29

21.23	25.8	25.77
19.92	24.9	25.33
19.01	24.3	24.19
18.44	23.9	22.55
18.15	23.8	21.12
18.12	23.9	20.01
18.32	24.2	19.16
18.75	24.6	18.52
19.41	25.3	18.06
20.31	26.1	17.76
21.47	27.1	17.61
22.92	28.4	17.61
24.72	30	17.74
26.92	32	18
29.57	34.1	18.4
32.53	37.2	18.91
34.89	40	19.54
35.14	40	20.29
34.08	40	21.15
33	40	22.12
32.19	39.6	23.19
31.61	38.2	24.38
31.19	37.2	25.69
30.88	36.5	27.15
30.62	36	28.82
30.36	35.5	30.76
30.1	35.3	33.13
29.84	35.2	36.08
29.59	35.2	38.79
29.42	35.4	40.04
29.38	35.6	39.98
29.52	35.8	39.14
29.87	36	38.15
30.42	36.5	37.47
31.16	36.6	37.17
32.06	37	37.17
33.05	37.4	37.4
34.04	38	37.77
34.92	38.5	38.19
35.57	38.9	38.56
35.88	39.4	38.78
35.82	40	38.76
35.44	40	38.45

34.9	40	37.92
34.35	40	37.26
33.88	40	36.55
33.54	40	35.89
33.33	40	35.41
33.21	40	35.2
33.13	40	35.3

ATTACHMENT 3



AT&T Towers
 2180 Lake Blvd, 5th Floor (5B13)
 Brookhaven, GA 30319



GPD Engineering and Architecture
 Professional Corporation

Mac Risley
 520 South Main Street, Suite 2531
 Akron, OH 44311
 (678) 781-5067
 mrisley@gpdgroup.com

GPD# 2022723.01.60417.01 Rev. 1
 September 27, 2022

COMPREHENSIVE STRUCTURAL ANALYSIS REPORT

SITE DESIGNATION: Verizon Site Name: DANBURY_S_CT
 Verizon Site #: 467555
 AT&T Site Name: DANBURY- MOSES MTN.
 AT&T Site #: 10034995

ANALYSIS CRITERIA: Codes: TIA-222-H
 115 mph (3-second gust) w/ 0" ice
 50 mph (3-second gust) w/ 1" ice

SITE DATA: Moses Mountain, Danbury, CT 6810, Fairfield County
 Latitude 41° 21' 34.27" N, Longitude 73° 27' 55.69" W
 Market: NEW ENGLAND
 64.3' Modified Self-Support Tower

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:	71.5%	Pass
Foundation Ratio with Proposed Equipment:	52.4%	Pass

We at GPD appreciate the opportunity of providing our continuing professional services to you and AT&T Towers. 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

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



9/27/2022

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 Towers.

This analysis has been performed in accordance with the TIA-222-H Standard based upon a 3-second gust wind speed of 115 mph. Applicable Standard references and design criteria are listed in Appendices A & B.

Modifications by GPD (Project #: 2016723.01.SNET005.03, dated 10/28/2016) were considered in this analysis.

Seismic loads were determined from spreadsheet calculations. It was concluded from these calculations that the wind loads control the maximum loading on the structure. The seismic loading case will not control.

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
Legs	56.0%	Pass
Bracing	65.1%	Pass
Bolt Checks	71.5%	Pass
Anchor Rods	37.3%	Pass
Foundation	52.4%	Pass

RECOMMENDATIONS

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

ANALYSIS METHOD

tnxTower (Version 8.1.1.0), 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 solely based on this information.

DOCUMENTS PROVIDED

Document	Remarks	Source
Site Lease Application	Verizon Site Name: DANBURY_S_CT, updated 7/11/2022	AT&T
Construction Drawings	VZ Project Code: 20212246592 Rev. 4 CDs, dated 2/7/2022	AT&T
Mount Analysis	Maser Consulting Project #: 21781197, dated 2/3/2022	AT&T
AT&T Construction Drawings	AT&T Site #: CTL02133, Rev. B dated 7/15/2022	AT&T
Tower Design	Not Provided	N/A
Foundation Design	Not Provided	N/A
Geotechnical Report	GPD Project #: 2016712.71, dated 9/7/2016	AT&T
Foundation Mapping	GPD Project #: 2016712.71, dated 9/7/2016	AT&T
Tower Mapping	GPD Project #: 2016712.71, dated 9/12/2016	AT&T
Modification Design	GPD Project #: 2016723.01.SNET005.03, dated 10/28/2016	AT&T
Post Modification Inspection	GPD Project #: 2017506.02, dated 5/9/2017	AT&T
Mount Mapping	TEP Project #: 145551.185295, dated 10/8/2018	AT&T
Previous Mount Analysis	Hudson Design Group LLC Site #: CT2133, dated 7/8/2022	AT&T
Previous Tower Analysis	GPD Project #: 2022702.65, dated 5/20/2022	GPD

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 recent 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.

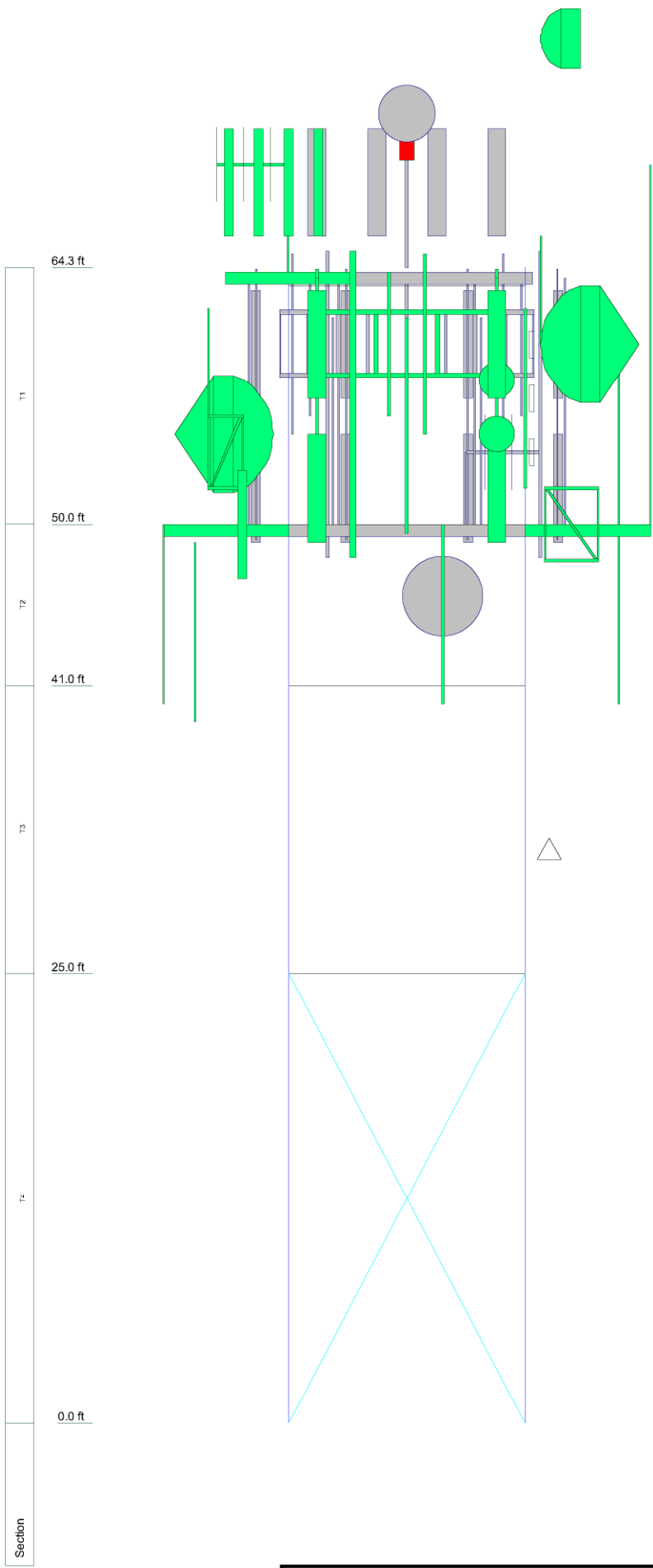
GPD makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, 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

APPENDIX B

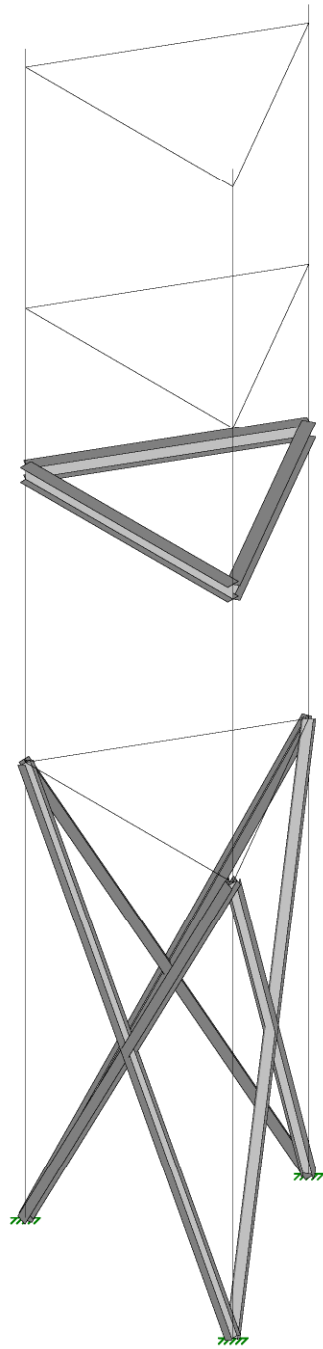
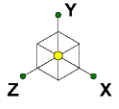
Tower Analysis Output File



Section

GPD
 520 South Main Street Suite 2531
 Akron, Ohio 44311
 Phone: (330) 572-2100
 FAX: (330) 572-2101

Job: DANBURY_S_CT (467555)		
Project: 2022723.01.60417.01 (60417)		
Client: AT&T Towers	Drawn by: bfranczkowski	App'd:
Code: TIA-222-H	Date: 09/01/22	Scale: NTS
Path:		Dwg No. E-1

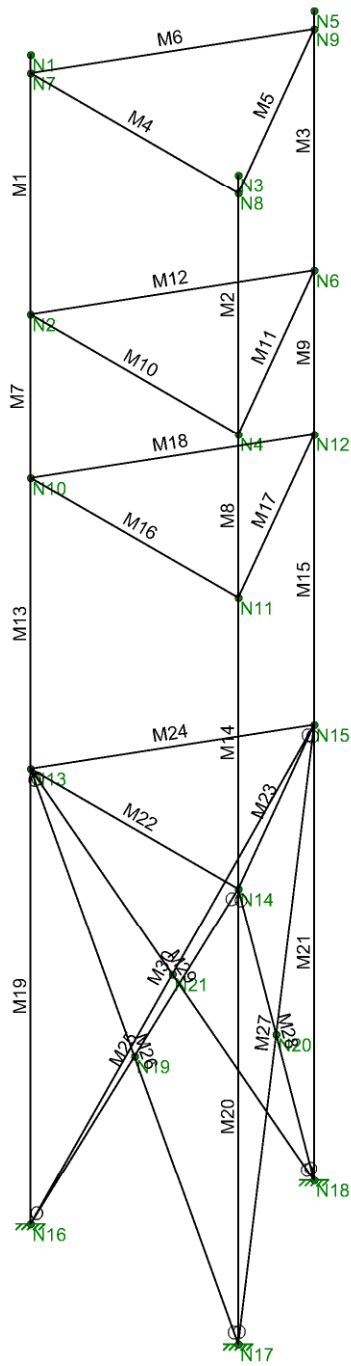
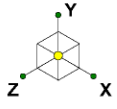


Envelope Only Solution

GPD
bfranczkowski
2022723.01.60417.01 (60...

DANBURY_S_CT (467555)

SK - 1
Sept 1, 2022 at 6:44 PM
2022723.01.60417.01_60417_467...



Envelope Only Solution

GPD

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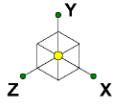
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DANBURY_S_CT (467555)

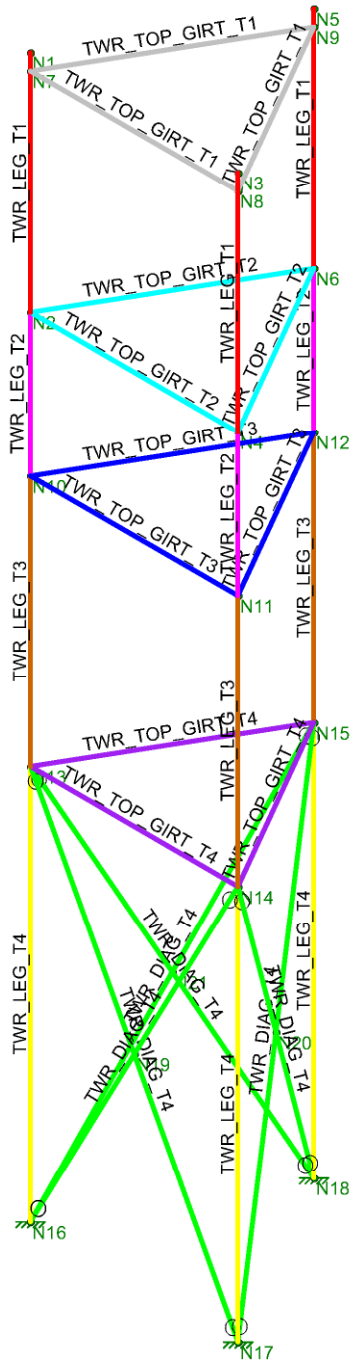
SK - 2

Sept 1, 2022 at 6:45 PM

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- Section Sets
- TWR_TOP_GIRT_T3
 - TWR_DIAG_T4
 - TWR_LEG_T1
 - TWR_TOP_GIRT_T1
 - TWR_LEG_T2
 - TWR_TOP_GIRT_T2
 - TWR_LEG_T3
 - TWR_LEG_T4
 - TWR_TOP_GIRT_T4



Envelope Only Solution

GPD

bfranczkowski

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DANBURY_S_CT (467555)

SK - 3

Sept 1, 2022 at 6:46 PM

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tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job DANBURY_S_CT (467555)	Page 1 of 10
	Project 2022723.01.60417.01 (60417)	Date 18:49:13 09/01/22
	Client AT&T Towers	Designed by bfranczkowski

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 64.25 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 13.17 ft at the top and 13.17 ft at the base.

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

The following design criteria apply:

Tower is located in Fairfield County, Connecticut.

Tower base elevation above sea level: 980.00 ft.

Basic wind speed of 115 mph.

Risk Category II.

Exposure Category B.

Crest Height: 521.00 ft.

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

Topographic Feature: Hill.

Slope Distance L: 1580.00 ft.

Distance from Crest x: 0.00 ft.

Horizontal Distance Downwind: No.

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 tower member design is 1.

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

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf

Step Pegs	A	No	No	Ar (CaAa)	64.25 - 8.00	0.0000	0.5	1	1	0.8000	0.8000		2.720
Safety Line (3/8")	A	No	No	Ar (CaAa)	64.25 - 8.00	0.0000	0.5	1	1	0.3750	0.3750		0.220
Lighting Cable	A	No	No	Ar (CaAa)	64.25 - 8.00	0.0000	-0.5	1	1	0.5000 0.6300	0.6300		0.150

EW90	A	No	No	Ar (CaAa)	63.00 - 60.00	0.0000	0.4	1	1	0.5000	0.9869		0.320
EW90	A	No	No	Ar (CaAa)	60.00 - 8.00	0.0000	0.4	2	2	0.5000	0.9869		0.320
LDF5-50A (7/8 FOAM)	A	No	No	Ar (CaAa)	50.00 - 8.00	0.0000	0.415	1	1	1.0000	1.0900		0.330

Feedline Ladder (Af)	C	No	No	Af (CaAa)	64.25 - 8.00	-2.0000	0.3	1	1	3.0000	3.0000		8.400
LDF2-50A (3/8 FOAM)	C	No	No	Ar (CaAa)	64.00 - 60.00	-2.0000	0.39	1	1	0.4400	0.4400		0.080

Job	DANBURY_S_CT (467555)	Page	2 of 10
Project	2022723.01.60417.01 (60417)	Date	18:49:13 09/01/22
Client	AT&T Towers	Designed by	bfranczkowski

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF2-50A (3/8 FOAM)	C	No	No	Ar (CaAa)	60.00 - 8.00	-2.0000	0.39	1	1	0.4400	0.4400		0.080
3/4" DC Power Line	C	No	No	Ar (CaAa)	62.00 - 8.00	-7.0000	0.26	6	6	0.5000	0.7500		0.330
3/8" Fiber Cable	C	No	No	Ar (CaAa)	62.00 - 8.00	-7.0000	0.29	3	3	0.5000	0.3750		0.100
LDF4-50A (1/2 FOAM)	C	No	No	Ar (CaAa)	58.00 - 53.00	-5.0000	0.206	1	1	0.5000	0.6300		0.150
LDF4-50A (1/2 FOAM)	C	No	No	Ar (CaAa)	53.00 - 50.00	-5.0000	0.206	2	2	0.5000	0.6300		0.150
LDF4-50A (1/2 FOAM)	C	No	No	Ar (CaAa)	50.00 - 46.00	-5.0000	0.206	5	2	0.5000	0.6300		0.150
LDF4-50A (1/2 FOAM)	C	No	No	Ar (CaAa)	46.00 - 8.00	-5.0000	0.206	6	2	0.5000	0.6300		0.150

Feedline Ladder (Af)	C	No	No	Af (CaAa)	64.25 - 8.00	-1.0000	-0.3	1	1	3.0000	3.0000		8.400
LDF7-50A (1-5/8 FOAM)	C	No	No	Ar (CaAa)	50.00 - 8.00	-3.0000	-0.28	5	3	1.0000	1.9800		0.820
LDF5-50A (7/8 FOAM)	C	No	No	Ar (CaAa)	50.00 - 8.00	-1.0000	-0.33	2	2	0.7500	1.0900		0.330
LDF4-50A (1/2 FOAM)	C	No	No	Ar (CaAa)	50.00 - 8.00	-1.0000	-0.24	1	1	0.6300	0.6300		0.150

LDF6-50A (1-1/4 FOAM)	C	No	No	Ar (CaAa)	57.00 - 50.00	0.0000	0.49	1	1	0.5000	1.5500		0.660
LDF6-50A (1-1/4 FOAM)	C	No	No	Ar (CaAa)	50.00 - 8.00	0.0000	0.49	3	3	0.5000	1.5500		0.660

WEP65(ELLIPTICAL)	C	No	No	Ar (CaAa)	60.00 - 55.00	-2.0000	-0.46	1	1	0.5000	2.0300		0.530
WEP65(ELLIPTICAL)	C	No	No	Ar (CaAa)	55.00 - 8.00	-2.0000	-0.46	2	2	0.5000	2.0300		0.530

LDF4P-50A (1/2 FOAM)	C	No	No	Ar (CaAa)	64.00 - 8.00	-2.0000	0.35	1	1	0.6300	0.6300		0.150

LDF7-50A (1-5/8 FOAM)	C	No	No	Ar (CaAa)	64.00 - 60.00	-2.0000	0.32	4	4	0.7500	1.9800		0.820
LDF7-50A (1-5/8 FOAM)	C	No	No	Ar (CaAa)	60.00 - 8.00	-5.0000	0.31	16	10	0.7500	1.9800		0.820

2" Hybrid	C	No	No	Ar (CaAa)	64.00 - 8.00	-2.0000	0.32	1	1	1.0000	2.0000		0.820

tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	DANBURY_S_CT (467555)	Page	3 of 10
	Project	2022723.01.60417.01 (60417)	Date	18:49:13 09/01/22
	Client	AT&T Towers	Designed by	bfranczkowski

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
Pipe Mount 7'x4.5"	A	From Leg	0.00	0.00	0.000	64.25	No Ice	2.11	2.11	0.083
			0.000				1/2" Ice	3.21	3.21	0.105
			3.000				1" Ice	3.64	3.64	0.132
(2) Flash Beacon	A	From Leg	0.00	0.00	0.000	64.25	No Ice	3.00	3.00	0.100
			0.000				1/2" Ice	4.50	4.50	0.150
			6.000				1" Ice	6.00	6.00	0.200
14' I-Beam Mount	A	From Leg	0.00	0.00	0.000	64.00	No Ice	7.44	0.98	0.350
			0.000				1/2" Ice	10.60	1.54	0.568
			0.000				1" Ice	13.75	2.10	0.786
14' I-Beam Mount	C	From Leg	0.00	0.00	0.000	64.00	No Ice	7.44	0.98	0.350
			0.000				1/2" Ice	10.60	1.54	0.568
			0.000				1" Ice	13.75	2.10	0.786
Pipe Mount 6'x2.375"	C	From Leg	0.00	0.00	0.000	64.00	No Ice	1.43	1.43	0.026
			0.000				1/2" Ice	1.92	1.92	0.037
			3.000				1" Ice	2.29	2.29	0.052
GPS	C	From Leg	0.00	0.00	0.000	64.00	No Ice	0.11	0.11	0.001
			0.000				1/2" Ice	0.21	0.21	0.004
			9.700				1" Ice	0.28	0.28	0.008
2' Yagi	C	From Leg	0.00	0.00	0.000	64.00	No Ice	0.30	0.30	0.005
			0.000				1/2" Ice	0.43	0.43	0.008
			6.000				1" Ice	0.58	0.58	0.013
(2) DB846F65ZAXY w/ Mount Pipe	A	From Leg	1.00	0.00	0.000	64.00	No Ice	7.27	7.82	0.047
			0.000				1/2" Ice	7.83	9.01	0.114
			5.000				1" Ice	8.35	9.91	0.189
(2) DB846F65ZAXY w/ Mount Pipe	C	From Leg	1.00	0.00	0.000	64.00	No Ice	7.27	7.82	0.047
			0.000				1/2" Ice	7.83	9.01	0.114
			5.000				1" Ice	8.35	9.91	0.189
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	1.00	0.00	0.000	64.00	No Ice	10.11	8.99	0.085
			0.000				1/2" Ice	10.68	10.15	0.173
			5.000				1" Ice	11.22	11.03	0.268
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	1.00	0.00	0.000	64.00	No Ice	10.11	8.99	0.085
			0.000				1/2" Ice	10.68	10.15	0.173
			5.000				1" Ice	11.22	11.03	0.268
MT6407-77A w/ Mount Pipe	A	From Leg	1.00	0.00	0.000	64.00	No Ice	4.91	2.68	0.096
			0.000				1/2" Ice	5.26	3.14	0.136
			5.000				1" Ice	5.61	3.62	0.180
MT6407-77A w/ Mount Pipe	C	From Leg	1.00	0.00	0.000	64.00	No Ice	4.91	2.68	0.096
			0.000				1/2" Ice	5.26	3.14	0.136
			5.000				1" Ice	5.61	3.62	0.180
(2) RF4439D-25A	A	From Leg	1.00	0.00	0.000	64.00	No Ice	1.87	1.25	0.075
			0.000				1/2" Ice	2.03	1.39	0.093
			5.000				1" Ice	2.21	1.54	0.114
RF4439D-25A	C	From Leg	1.00	0.00	0.000	64.00	No Ice	1.87	1.25	0.075
			0.000				1/2" Ice	2.03	1.39	0.093
			5.000				1" Ice	2.21	1.54	0.114
RF4440D-13A	A	From Leg	1.00	0.00	0.000	64.00	No Ice	1.87	1.13	0.072
			0.000				1/2" Ice	2.03	1.27	0.090
			5.000				1" Ice	2.21	1.41	0.110
(2) RF4440D-13A	C	From Leg	1.00	0.00	0.000	64.00	No Ice	1.87	1.13	0.072
			0.000				1/2" Ice	2.03	1.27	0.090
			5.000				1" Ice	2.21	1.41	0.110
FE-16148-OVP-B12	A	From Leg	1.00	0.00	0.000	64.00	No Ice	2.25	0.92	0.020
			0.000				1/2" Ice	2.44	1.05	0.036
			5.000				1" Ice	2.63	1.19	0.056

tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	DANBURY_S_CT (467555)	Page	4 of 10
	Project	2022723.01.60417.01 (60417)	Date	18:49:13 09/01/22
	Client	AT&T Towers	Designed by	bfranczkowski

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Lateral						Vert
FE-16148-OVP-B12	C	From Leg	1.00		0.000	64.00	No Ice	2.25	0.92	0.020
			0.000				1/2" Ice	2.44	1.05	0.036
			5.000				1" Ice	2.63	1.19	0.056

Pipe Mount 6'x2.375"	B	From Leg	1.00		0.000	63.00	No Ice	1.43	1.43	0.026
			0.000				1/2" Ice	1.92	1.92	0.037
			0.000				1" Ice	2.29	2.29	0.052

10' T-Boom [SM 601-1]	A	From Face	1.50		0.000	60.00	No Ice	17.48	8.53	0.474
			0.000				1/2" Ice	21.12	11.09	0.652
			0.000				1" Ice	24.94	13.63	0.871
10' T-Boom [SM 601-1]	B	From Face	1.50		0.000	60.00	No Ice	17.48	8.53	0.474
			0.000				1/2" Ice	21.12	11.09	0.652
			0.000				1" Ice	24.94	13.63	0.871
10' T-Boom [SM 601-1]	C	From Face	1.50		0.000	60.00	No Ice	17.48	8.53	0.474
			0.000				1/2" Ice	21.12	11.09	0.652
			0.000				1" Ice	24.94	13.63	0.871
17' P4 STD	A	From Face	3.00		0.000	60.00	No Ice	5.52	5.52	0.184
			3.000				1/2" Ice	9.40	9.40	0.236
			-3.375				1" Ice	11.16	11.16	0.300
17' P4 STD	B	From Face	3.00		0.000	60.00	No Ice	5.52	5.52	0.184
			3.000				1/2" Ice	9.40	9.40	0.236
			-3.375				1" Ice	11.16	11.16	0.300
17' P4 STD	C	From Face	3.00		0.000	60.00	No Ice	5.52	5.52	0.184
			3.000				1/2" Ice	9.40	9.40	0.236
			-3.375				1" Ice	11.16	11.16	0.300
8' P2 STD	A	From Face	3.00		0.000	60.00	No Ice	1.90	1.90	0.029
			1.000				1/2" Ice	2.73	2.73	0.044
			0.000				1" Ice	3.40	3.40	0.063
8' P2 STD	B	From Face	3.00		0.000	60.00	No Ice	1.90	1.90	0.029
			1.000				1/2" Ice	2.73	2.73	0.044
			0.000				1" Ice	3.40	3.40	0.063
8' P2 STD	C	From Face	3.00		0.000	60.00	No Ice	1.90	1.90	0.029
			1.000				1/2" Ice	2.73	2.73	0.044
			0.000				1" Ice	3.40	3.40	0.063
10' P2 STD	A	From Face	3.00		0.000	60.00	No Ice	2.38	2.38	0.037
			-1.000				1/2" Ice	3.40	3.40	0.054
			0.000				1" Ice	4.45	4.45	0.079
10' P2 STD	B	From Face	3.00		0.000	60.00	No Ice	2.38	2.38	0.037
			-1.000				1/2" Ice	3.40	3.40	0.054
			0.000				1" Ice	4.45	4.45	0.079
10' P2 STD	C	From Face	3.00		0.000	60.00	No Ice	2.38	2.38	0.037
			-1.000				1/2" Ice	3.40	3.40	0.054
			0.000				1" Ice	4.45	4.45	0.079
15' P2.5 XX-STR	A	From Face	3.00		0.000	60.00	No Ice	4.31	4.31	0.205
			5.000				1/2" Ice	5.84	5.84	0.237
			-3.375				1" Ice	7.39	7.39	0.278
15' P2.5 XX-STR	B	From Face	3.00		0.000	60.00	No Ice	4.31	4.31	0.205
			5.000				1/2" Ice	5.84	5.84	0.237
			-3.375				1" Ice	7.39	7.39	0.278
15' P2.5 XX-STR	C	From Face	3.00		0.000	60.00	No Ice	4.31	4.31	0.205
			5.000				1/2" Ice	5.84	5.84	0.237
			-3.375				1" Ice	7.39	7.39	0.278
15' P2.5 XX-STR	A	From Face	3.00		0.000	60.00	No Ice	4.31	4.31	0.205
			-5.000				1/2" Ice	5.84	5.84	0.237
			-3.375				1" Ice	7.39	7.39	0.278
15' P2.5 XX-STR	B	From Face	3.00		0.000	60.00	No Ice	4.31	4.31	0.205

tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	DANBURY_S_CT (467555)	Page	5 of 10
	Project	2022723.01.60417.01 (60417)	Date	18:49:13 09/01/22
	Client	AT&T Towers	Designed by	bfranczkowski

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
			-5.000			1/2" Ice	5.84	5.84	0.237
			-3.375			1" Ice	7.39	7.39	0.278
15' P2.5 XX-STR	C	From Face	3.00		0.000	No Ice	4.31	4.31	0.205
			-5.000			1/2" Ice	5.84	5.84	0.237
			-3.375			1" Ice	7.39	7.39	0.278
14' P2 STD	A	From Face	3.50		0.000	No Ice	3.33	3.33	0.051
			5.000			1/2" Ice	4.75	4.75	0.076
			-3.375			1" Ice	6.20	6.20	0.110
14' P2 STD	B	From Face	3.50		0.000	No Ice	3.33	3.33	0.051
			5.000			1/2" Ice	4.75	4.75	0.076
			-3.375			1" Ice	6.20	6.20	0.110
14' P2 STD	C	From Face	3.50		0.000	No Ice	3.33	3.33	0.051
			5.000			1/2" Ice	4.75	4.75	0.076
			-3.375			1" Ice	6.20	6.20	0.110
14' P2 STD	A	From Face	3.50		0.000	No Ice	3.33	3.33	0.051
			-5.000			1/2" Ice	4.75	4.75	0.076
			-3.375			1" Ice	6.20	6.20	0.110
14' P2 STD	B	From Face	3.50		0.000	No Ice	3.33	3.33	0.051
			-5.000			1/2" Ice	4.75	4.75	0.076
			-3.375			1" Ice	6.20	6.20	0.110
14' P2 STD	C	From Face	3.50		0.000	No Ice	3.33	3.33	0.051
			-5.000			1/2" Ice	4.75	4.75	0.076
			-3.375			1" Ice	6.20	6.20	0.110
(8) 3' W6x20	A	From Face	1.50		0.000	No Ice	0.04	2.09	0.060
			0.000			1/2" Ice	0.17	2.44	0.108
			0.000			1" Ice	0.30	2.79	0.156
(8) 3' W6x20	B	From Face	1.50		0.000	No Ice	0.04	2.09	0.060
			0.000			1/2" Ice	0.17	2.44	0.108
			0.000			1" Ice	0.30	2.79	0.156
(8) 3' W6x20	C	From Face	1.50		0.000	No Ice	0.04	2.09	0.060
			0.000			1/2" Ice	0.17	2.44	0.108
			0.000			1" Ice	0.30	2.79	0.156
OPA65R-BU6DA	A	From Face	3.00		0.000	No Ice	12.89	7.10	0.082
			0.000			1/2" Ice	13.39	8.05	0.173
			0.000			1" Ice	13.90	8.88	0.272
OPA65R-BU6DA	B	From Face	3.00		0.000	No Ice	12.89	7.10	0.082
			0.000			1/2" Ice	13.39	8.05	0.173
			0.000			1" Ice	13.90	8.88	0.272
OPA65R-BU6DA	C	From Face	3.00		0.000	No Ice	12.89	7.10	0.082
			0.000			1/2" Ice	13.39	8.05	0.173
			0.000			1" Ice	13.90	8.88	0.272
EPBQ-654L8H6	A	From Face	3.00		0.000	No Ice	8.80	7.04	0.088
			0.000			1/2" Ice	9.29	7.53	0.147
			0.000			1" Ice	9.78	8.03	0.213
EPBQ-654L8H6	B	From Face	3.00		0.000	No Ice	8.80	7.04	0.088
			0.000			1/2" Ice	9.29	7.53	0.147
			0.000			1" Ice	9.78	8.03	0.213
EPBQ-654L8H6	C	From Face	3.00		0.000	No Ice	8.80	7.04	0.088
			0.000			1/2" Ice	9.29	7.53	0.147
			0.000			1" Ice	9.78	8.03	0.213
4449 B5/B12	A	From Face	3.00		0.000	No Ice	1.97	1.41	0.071
			0.000			1/2" Ice	2.14	1.56	0.090
			0.000			1" Ice	2.33	1.73	0.111
4449 B5/B12	B	From Face	3.00		0.000	No Ice	1.97	1.41	0.071
			0.000			1/2" Ice	2.14	1.56	0.090
			0.000			1" Ice	2.33	1.73	0.111
4449 B5/B12	C	From Face	3.00		0.000	No Ice	1.97	1.41	0.071

tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	DANBURY_S_CT (467555)	Page	6 of 10
	Project	2022723.01.60417.01 (60417)	Date	18:49:13 09/01/22
	Client	AT&T Towers	Designed by	bfranczkowski

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			Horz Lateral ft	Vert ft					
			0.000			1/2" Ice	2.14	1.56	0.090
			0.000			1" Ice	2.33	1.73	0.111
4478 B14	A	From Face	3.00	0.000	60.00	No Ice	1.96	1.25	0.059
			0.000			1/2" Ice	2.14	1.40	0.077
			0.000			1" Ice	2.32	1.55	0.097
4478 B14	B	From Face	3.00	0.000	60.00	No Ice	1.96	1.25	0.059
			0.000			1/2" Ice	2.14	1.40	0.077
			0.000			1" Ice	2.32	1.55	0.097
4478 B14	C	From Face	3.00	0.000	60.00	No Ice	1.96	1.25	0.059
			0.000			1/2" Ice	2.14	1.40	0.077
			0.000			1" Ice	2.32	1.55	0.097
RRUS-32 B2	A	From Face	3.00	0.000	60.00	No Ice	2.73	1.67	0.053
			0.000			1/2" Ice	2.95	1.86	0.074
			0.000			1" Ice	3.18	2.05	0.098
RRUS-32 B2	B	From Face	3.00	0.000	60.00	No Ice	2.73	1.67	0.053
			0.000			1/2" Ice	2.95	1.86	0.074
			0.000			1" Ice	3.18	2.05	0.098
RRUS-32 B2	C	From Face	3.00	0.000	60.00	No Ice	2.73	1.67	0.053
			0.000			1/2" Ice	2.95	1.86	0.074
			0.000			1" Ice	3.18	2.05	0.098
4426 B66	A	From Face	3.00	0.000	60.00	No Ice	2.74	1.67	0.053
			0.000			1/2" Ice	2.96	1.86	0.074
			0.000			1" Ice	3.19	2.05	0.098
4426 B66	B	From Face	3.00	0.000	60.00	No Ice	2.74	1.67	0.053
			0.000			1/2" Ice	2.96	1.86	0.074
			0.000			1" Ice	3.19	2.05	0.098
4426 B66	C	From Face	3.00	0.000	60.00	No Ice	2.74	1.67	0.053
			0.000			1/2" Ice	2.96	1.86	0.074
			0.000			1" Ice	3.19	2.05	0.098
RRUS-32 B30	A	From Face	3.00	0.000	60.00	No Ice	3.31	2.42	0.077
			0.000			1/2" Ice	3.56	2.64	0.105
			0.000			1" Ice	3.81	2.86	0.136
RRUS-32 B30	B	From Face	3.00	0.000	60.00	No Ice	3.31	2.42	0.077
			0.000			1/2" Ice	3.56	2.64	0.105
			0.000			1" Ice	3.81	2.86	0.136
RRUS-32 B30	C	From Face	3.00	0.000	60.00	No Ice	3.31	2.42	0.077
			0.000			1/2" Ice	3.56	2.64	0.105
			0.000			1" Ice	3.81	2.86	0.136
DC6-48-60-18-8F Surge Suppression Unit	A	From Face	3.00	0.000	60.00	No Ice	0.92	0.92	0.019
			0.000			1/2" Ice	1.46	1.46	0.037
			0.000			1" Ice	1.64	1.64	0.057
DC6-48-60-18-8F Surge Suppression Unit	B	From Face	3.00	0.000	60.00	No Ice	0.92	0.92	0.019
			0.000			1/2" Ice	1.46	1.46	0.037
			0.000			1" Ice	1.64	1.64	0.057
DC6-48-60-18-8F Surge Suppression Unit	C	From Face	3.00	0.000	60.00	No Ice	0.92	0.92	0.019
			0.000			1/2" Ice	1.46	1.46	0.037
			0.000			1" Ice	1.64	1.64	0.057
AIR6449 B77D	A	From Face	3.00	0.000	60.00	No Ice	4.11	2.79	0.093
			5.000			1/2" Ice	4.37	3.17	0.131
			-8.000			1" Ice	4.64	3.56	0.173
AIR6449 B77D	B	From Face	3.00	0.000	60.00	No Ice	4.11	2.79	0.093
			5.000			1/2" Ice	4.37	3.17	0.131
			-8.000			1" Ice	4.64	3.56	0.173
AIR6449 B77D	C	From Face	3.00	0.000	60.00	No Ice	4.11	2.79	0.093
			5.000			1/2" Ice	4.37	3.17	0.131
			-8.000			1" Ice	4.64	3.56	0.173
AIR6419 B77G	A	From Face	3.00	0.000	60.00	No Ice	5.01	3.56	0.095

tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	DANBURY_S_CT (467555)	Page	7 of 10
	Project	2022723.01.60417.01 (60417)	Date	18:49:13 09/01/22
	Client	AT&T Towers	Designed by	bfranczkowski

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
			Horz Lateral ft	Vert ft						
			-5.000				1/2" Ice	5.84	4.58	0.142
			-8.000				1" Ice	6.57	5.45	0.194
AIR6419 B77G	B	From Face	3.00	0.000	0.000	60.00	No Ice	5.01	3.56	0.095
			-5.000				1/2" Ice	5.84	4.58	0.142
			-8.000				1" Ice	6.57	5.45	0.194
AIR6419 B77G	C	From Face	3.00	0.000	0.000	60.00	No Ice	5.01	3.56	0.095
			-5.000				1/2" Ice	5.84	4.58	0.142
			-8.000				1" Ice	6.57	5.45	0.194
(6) 3' W6x20	A	From Face	1.50	0.000	0.000	50.00	No Ice	0.04	2.09	0.060
			0.000				1/2" Ice	0.17	2.44	0.108
			0.000				1" Ice	0.30	2.79	0.156
(6) 3' W6x20	B	From Face	1.50	0.000	0.000	50.00	No Ice	0.04	2.09	0.060
			0.000				1/2" Ice	0.17	2.44	0.108
			0.000				1" Ice	0.30	2.79	0.156
(6) 3' W6x20	C	From Face	1.50	0.000	0.000	50.00	No Ice	0.04	2.09	0.060
			0.000				1/2" Ice	0.17	2.44	0.108
			0.000				1" Ice	0.30	2.79	0.156

Pipe Mount 6'x2.375"	B	From Leg	0.50	0.000	0.000	60.00	No Ice	1.43	1.43	0.026
			0.000				1/2" Ice	1.92	1.92	0.037
			0.000				1" Ice	2.29	2.29	0.052

Pipe Mount 6'x2.375"	A	From Leg	1.00	0.000	0.000	60.00	No Ice	1.43	1.43	0.026
			0.000				1/2" Ice	1.92	1.92	0.037
			0.000				1" Ice	2.29	2.29	0.052

12"x10"x4" ODU	C	From Face	0.50	0.000	0.000	58.00	No Ice	1.17	0.47	0.050
			-5.000				1/2" Ice	1.31	0.57	0.058
			0.000				1" Ice	1.47	0.69	0.067

Andrew Collar Mount	B	From Leg	0.50	0.000	0.000	57.00	No Ice	2.14	2.14	0.190
			0.000				1/2" Ice	2.35	2.35	0.247
			0.000				1" Ice	2.57	2.57	0.304
12' Omni	B	From Leg	1.00	0.000	0.000	57.00	No Ice	5.09	5.09	0.070
			0.000				1/2" Ice	7.09	7.09	0.109
			6.000				1" Ice	8.71	8.71	0.158

Pipe Mount 6'x2.375"	C	From Leg	0.50	0.000	0.000	55.00	No Ice	1.43	1.43	0.026
			0.000				1/2" Ice	1.92	1.92	0.037
			0.000				1" Ice	2.29	2.29	0.052

Pipe Mount 4'x2.375"	B	From Leg	0.00	0.000	0.000	53.00	No Ice	0.87	0.87	0.018
			0.000				1/2" Ice	1.11	1.11	0.026
			0.000				1" Ice	1.36	1.36	0.036
8' Dipole	B	From Leg	0.00	0.000	0.000	53.00	No Ice	1.60	1.60	0.015
			0.000				1/2" Ice	2.42	2.42	0.027
			4.000				1" Ice	3.24	3.24	0.045

14' I-Beam Mount	B	From Leg	4.00	0.000	0.000	50.00	No Ice	7.44	0.98	0.350
			0.000				1/2" Ice	10.60	1.54	0.568
			0.000				1" Ice	13.75	2.10	0.786
DB806D	C	From Leg	4.00	0.000	0.000	50.00	No Ice	1.14	1.14	0.021
			0.000				1/2" Ice	1.68	1.68	0.030
			7.000				1" Ice	2.03	2.03	0.043
BA80-41-DIN	B	From Leg	8.00	0.000	0.000	50.00	No Ice	6.81	6.81	0.068
			0.000				1/2" Ice	10.38	10.38	0.125
			10.000				1" Ice	12.50	12.50	0.196

tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	DANBURY_S_CT (467555)	Page	8 of 10
	Project	2022723.01.60417.01 (60417)	Date	18:49:13 09/01/22
	Client	AT&T Towers	Designed by	bfranczkowski

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					

MTS 72" Standoff	B	From Leg	3.00	0.000	50.00	No Ice	0.98	3.03	0.053
			0.000			1/2" Ice	1.70	5.22	0.079
			0.000			1" Ice	2.42	7.41	0.105
10' Omni	B	From Leg	6.00	0.000	50.00	No Ice	2.00	2.00	0.025
			0.000			1/2" Ice	3.02	3.02	0.041
			5.000			1" Ice	4.07	4.07	0.062

Pipe Mount 6'x2.375"	A	From Leg	0.50	0.000	50.00	No Ice	1.43	1.43	0.026
			0.000			1/2" Ice	1.92	1.92	0.037
			3.000			1" Ice	2.29	2.29	0.052
6' Omni	A	From Leg	0.50	0.000	50.00	No Ice	1.77	1.77	0.025
			0.000			1/2" Ice	2.13	2.13	0.038
			7.000			1" Ice	2.50	2.50	0.056

Pipe Mount 12'x2.375"	A	From Leg	1.00	0.000	50.00	No Ice	2.85	2.85	0.046
			0.000			1/2" Ice	4.08	4.08	0.067
			5.500			1" Ice	5.32	5.32	0.096
8' Dipole	A	From Leg	1.00	0.000	50.00	No Ice	1.60	1.60	0.015
			0.000			1/2" Ice	2.42	2.42	0.027
			4.000			1" Ice	3.24	3.24	0.045

Pipe Mount 12'x2.375"	C	From Face	1.00	0.000	50.00	No Ice	2.85	2.85	0.046
			0.000			1/2" Ice	4.08	4.08	0.067
			5.500			1" Ice	5.32	5.32	0.096
LeBlanc 18" Standoff	C	From Face	2.00	0.000	50.00	No Ice	2.96	2.11	0.096
			0.000			1/2" Ice	4.10	2.93	0.117
			0.000			1" Ice	5.24	3.75	0.138
10' Omni	C	From Face	3.00	0.000	50.00	No Ice	2.00	2.00	0.025
			0.000			1/2" Ice	3.02	3.02	0.041
			-5.000			1" Ice	4.07	4.07	0.062
20"x8"x6" TMA	C	From Face	1.50	0.000	50.00	No Ice	1.33	1.03	0.030
			0.000			1/2" Ice	1.49	1.17	0.042
			2.000			1" Ice	1.66	1.32	0.056

Pipe Mount 4'x2.375"	B	From Face	0.00	0.000	50.00	No Ice	0.87	0.87	0.018
			0.000			1/2" Ice	1.11	1.11	0.026
			2.000			1" Ice	1.36	1.36	0.036
UHF450 Antenna	B	From Face	0.00	0.000	50.00	No Ice	5.59	5.59	0.030
			0.000			1/2" Ice	7.66	7.66	0.071
			4.000			1" Ice	9.74	9.74	0.124

14' I-Beam Mount	A	From Leg	4.00	0.000	50.00	No Ice	7.44	0.98	0.350
			0.000			1/2" Ice	10.60	1.54	0.568
			0.000			1" Ice	13.75	2.10	0.786
14' I-Beam Mount	C	From Leg	4.00	0.000	50.00	No Ice	7.44	0.98	0.350
			0.000			1/2" Ice	10.60	1.54	0.568
			0.000			1" Ice	13.75	2.10	0.786
LeBlanc 18" Standoff	C	From Leg	4.00	0.000	50.00	No Ice	2.96	2.11	0.096
			0.000			1/2" Ice	4.10	2.93	0.117
			2.000			1" Ice	5.24	3.75	0.138
MTS 72" Standoff	B	From Leg	3.00	0.000	50.00	No Ice	0.98	3.03	0.053
			0.000			1/2" Ice	1.70	5.22	0.079
			0.000			1" Ice	2.42	7.41	0.105
Pipe Mount 12'x2.375"	B	From Face	1.00	0.000	50.00	No Ice	2.85	2.85	0.046
			0.000			1/2" Ice	4.08	4.08	0.067
			5.500			1" Ice	5.32	5.32	0.096

tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job	DANBURY_S_CT (467555)	Page	10 of 10
	Project	2022723.01.60417.01 (60417)	Date	18:49:13 09/01/22
	Client	AT&T Towers	Designed by	bfranczkowski

Dishes

<i>Description</i>	<i>Face or Leg</i>	<i>Dish Type</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft</i>	<i>Azimuth Adjustment °</i>	<i>3 dB Beam Width °</i>	<i>Elevation ft</i>	<i>Outside Diameter ft</i>	<i>Aperture Area ft²</i>	<i>Weight K</i>
VHLP3-11W-6GR	B	Paraboloid w/Shroud (HP)	From Leg	1.00 0.000 14.000	0.000		63.00	3.28	No Ice 8.47 1/2" Ice 8.90 1" Ice 9.34	0.053 0.100 0.140
VHLP3-11W-6GR	A	Paraboloid w/Shroud (HP)	From Leg	1.00 0.000 12.900	0.000		60.00	3.28	No Ice 8.47 1/2" Ice 8.90 1" Ice 9.34	0.053 0.100 0.140
PA6-65	B	Paraboloid w/Radome	From Leg	1.00 0.000 0.000	0.000		60.00	6.58	No Ice 34.04 1/2" Ice 34.91 1" Ice 35.77	0.140 0.320 0.500
SPD2-5.8NS	C	Paraboloid w/Radome	From Face	1.00 -5.000 0.000	0.000		58.00	2.00	No Ice 3.14 1/2" Ice 3.41 1" Ice 3.68	0.022 0.040 0.060
PA6-65	C	Paraboloid w/Radome	From Leg	1.00 0.000 0.000	0.000		55.00	6.58	No Ice 34.04 1/2" Ice 34.91 1" Ice 35.77	0.140 0.320 0.500
PRFTV 48/75	A	Grid	From Leg	2.00 2.000 0.000	0.000		46.00	4.65	No Ice 6.35 1/2" Ice 17.60 1" Ice 18.21	0.040 0.090 0.140
SPD2-5.8NS	C	Paraboloid w/Radome	From Face	3.00 -5.000 -5.000	0.000		60.00	2.00	No Ice 3.14 1/2" Ice 3.41 1" Ice 3.68	0.022 0.040 0.060



Company : GPD
 Designer : bfranczkowski
 Job Number : 2022723.01.60417.01 (60417)
 Model Name : DANBURY_S_CT (467555)

Sept 1, 2022
 6:39 PM
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Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A572-50	29000	11200	.295	.65	.49	50	1.1	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	TWR_TOP_GIRT_T3	W10X33	Beam	Wide Flange	A572-50	Typical	9.71	36.6	171	.583
2	TWR_DIAG_T4	W6X25	Column	Wide Flange	A572-50	Typical	7.34	17.1	53.4	.461

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
1	Dead	None		-1		24	361	12	
2	No Ice Wind 0 deg	None				24	849	32	
3	No Ice Wind 30 deg	None				48	906	44	
4	No Ice Wind 60 deg	None				48	947	44	
5	No Ice Wind 90 deg	None				24	821	32	
6	No Ice Wind 120 deg	None				48	946	44	
7	No Ice Wind 150 deg	None				48	897	44	
8	No Ice Wind 180 deg	None				24	849	32	
9	No Ice Wind 210 deg	None				48	905	44	
10	No Ice Wind 240 deg	None				48	947	44	
11	No Ice Wind 270 deg	None				24	821	32	
12	No Ice Wind 300 deg	None				48	946	44	
13	No Ice Wind 330 deg	None				48	895	44	
14	Ice	None				24	361	42	
15	Temperature Drop	None						30	
16	Ice Wind 0 deg	None				24	845	32	
17	Ice Wind 30 deg	None				48	904	44	
18	Ice Wind 60 deg	None				48	945	44	
19	Ice Wind 90 deg	None				24	820	32	
20	Ice Wind 120 deg	None				48	945	44	
21	Ice Wind 150 deg	None				48	895	44	
22	Ice Wind 180 deg	None				24	845	32	
23	Ice Wind 210 deg	None				48	903	44	
24	Ice Wind 240 deg	None				48	945	44	
25	Ice Wind 270 deg	None				24	820	32	
26	Ice Wind 300 deg	None				48	945	44	
27	Ice Wind 330 deg	None				48	895	44	
28	Service Wind 0 deg	None				24	846	32	
29	Service Wind 30 deg	None				48	901	44	
30	Service Wind 60 deg	None				48	942	44	
31	Service Wind 90 deg	None				24	821	32	
32	Service Wind 120 deg	None				48	941	44	
33	Service Wind 150 deg	None				48	894	44	
34	Service Wind 180 deg	None				24	846	32	
35	Service Wind 210 deg	None				48	900	44	
36	Service Wind 240 deg	None				48	943	44	
37	Service Wind 270 deg	None				24	821	32	
38	Service Wind 300 deg	None				48	941	44	
39	Service Wind 330 deg	None				48	892	44	



Company : GPD
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 Model Name : DANBURY_S_CT (467555)

Sept 1, 2022
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Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shear	CheckLo	phi*Pnc	phi*Pnt	phi*	phi*	Eqn
1	M18 W10X33	.651	0	4	.145	1.... y 4	269.23	436.95	52.5	122.... 1	H1-...
2	M16 W10X33	.607	0	20	.136	.96 y ...	269.23	436.95	52.5	122.... 1	H1-...
3	M17 W10X33	.597	13.167	24	.134	13... y ...	269.23	436.95	52.5	122.... 1	H1-...
4	M29 W6X25	.306	6.181	2	.001	14... z ...	134.017	330.3	32.1	58.0361	H1-...
5	M26 W6X25	.284	6.181	10	.001	14... z ...	134.017	330.3	32.1	58.0361	H1-...
6	M25 W6X25	.278	5.887	18	.001	14... z ...	134.017	330.3	32.1	58.0361	H1-...
7	M28 W6X25	.277	6.181	2	.001	14... z ...	134.017	330.3	32.1	58.0361	H1-...
8	M30 W6X25	.271	6.181	18	.001	14... z ...	134.017	330.3	32.1	58.0361	H1-...
9	M27 W6X25	.258	6.181	10	.001	14... z ...	134.017	330.3	32.1	58.0361	H1-...

Envelope Joint Reactions

Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N16	max	24.901	18	166.627	18	11.542	7	10.633	12	.006	24	6.704	23
2		min	-20.715	7	-137.256	7	-14.01	18	-11.078	24	-.006	12	-6.919	10
3	N17	max	20.764	23	163.203	10	11.146	23	9.865	16	.007	24	6.678	18
4		min	-24.81	10	-136.995	23	-13.39	10	-10.274	4	-.007	12	-6.535	7
5	N18	max	1.898	8	174.621	2	30.357	2	4.424	14	.007	24	11.244	20
6		min	-2.037	22	-144.741	15	-25.193	15	-4.101	3	-.007	12	-11.193	8
7	Totals:	max	35.076	21	81.398	35	40.221	3						
8		min	-34.986	8	30.646	7	-38.28	14						



Member Stress Results
DANBURY_S_CT (467555)
2022723.01.60417.01 (60417)

Section Number	Elevation (ft)	Component Type	Size	Pu (k)	ΦPn (K)	% Capacity	Pass/Fail
T1	50 - 64.3	LEG	POLY15.50x1/4 (GPD)	17.794	569.588	20.1%	Pass
T1	50 - 64.3	TOP GIRT	POLY12.45x1/4 (GPD)	2.954	455.67	26.3%	Pass
T2	41 - 50	LEG	POLY15.50x1/4 (GPD)	41.68	569.588	37.3%	Pass
T2	41 - 50	TOP GIRT	POLY12.45x1/4 (GPD)	2.537	455.67	49.7%	Pass
T3	25 - 41	LEG	POLY15.50x1/4 (GPD)	63.88	569.588	56.0%	Pass
T4	0 - 25	LEG	POLY15.50x1/4 (GPD)	107.103	569.588	31.3%	Pass
T4	0 - 25	TOP GIRT	POLY12.45x1/4 (GPD)	4.019	455.67	34.6%	Pass
T3	25 - 41	TOP GIRT	W10x33	175.269	269.23	65.1%	Pass
T4	0 - 25	DIAG	W6x25	41.01	134.02	30.6%	Pass
Summary							
Leg (T3)						56.0%	Pass
Diagonal (T4)						30.6%	Pass
Top Girt (T3)						65.1%	Pass
Rating =						65.1%	Pass

APPENDIX C

Additional Calculations



Existing Flange Connection @
DANBURY_S_CT (467555)
 2022723.01.60417.01 (60417)

GIRT CONNECTIONS

Moment =	82.1	k-ft
Axial =	0.131	k
Shear =	12.666	k

Maximum Capacity	100%
Apply TIA-222-H Section 15.5?	No

Flange Bolts	
# Bolts =	4
Bolt Type =	A325
Threads Included? =	Yes
Bolt Diameter =	1.25 in
Bolt Circle =	18 in
ϕ_t =	0.75
ϕ_v =	0.75
F_{ub} =	105 ksi
A_b =	1.227 in ²
A_n =	0.969 in ²
ϕR_{nv} =	48.32 k
ϕR_{nt} =	76.31 k
ϕR_{nt} (adjusted) =	76.14 k
V_{ub} =	3.17 k
T_{ub} =	54.57 k
Max Comp. on Bolt =	54.63 k
<i>Prying Action Check</i>	
N/A, top flange thickness > t_c	
Shear Capacity =	6.6%
Tensile Capacity =	71.5%
Interaction Capacity =	51.6%
Bolt Capacity =	71.5% OK

Upper Flange Plate	
Location =	External
Plate Strength (F_y) =	36 ksi
Plate Tensile (F_u) =	58 ksi
Plate Thickness =	1.5 in
Outer Diameter =	16 in
ϕ_t =	0.9
wcalc =	13.00 in
wmax =	15.00 in
w =	13.00 in
Z =	7.31 in ³
M_{U1} =	151.61 k-in
ϕM_{U1} =	236.92 k-in
Upper Plate Capacity =	64.0% OK

Upper Stiffeners	
Configuration =	None

Pole Information	
Shaft Diam. (Upper) =	12.45 in
Thickness (Upper) =	0.25 in
# of Sides (Upper) =	8
F_y (Upper) =	50 ksi
Shaft Diam. (Lower) =	12.45 in
Thickness (Lower) =	0.25 in
# of Sides (Lower) =	8
F_y (Lower) =	50 ksi

Lower Flange Plate	
Location =	External
Plate Strength (F_y) =	36 ksi
Plate Thickness =	1.5 in
Outer Diameter =	16 in
wcalc =	13.00 in
wmax =	15.00 in
w =	13.00 in
Z =	7.31 in ³
M_{U1} =	151.61 k-in
ϕM_{U1} =	236.92 k-in
Lower Plate Capacity =	64.0% OK

Lower Stiffeners	
Configuration =	None



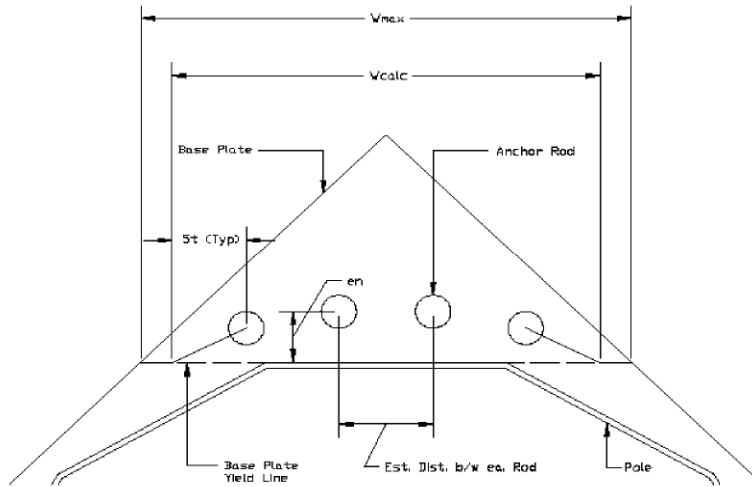
Anchor Rod and Base Plate Stresses, TIA-222-H-1
DANBURY_S_CT (467555)
 2022723.01.60417.01 (60417)

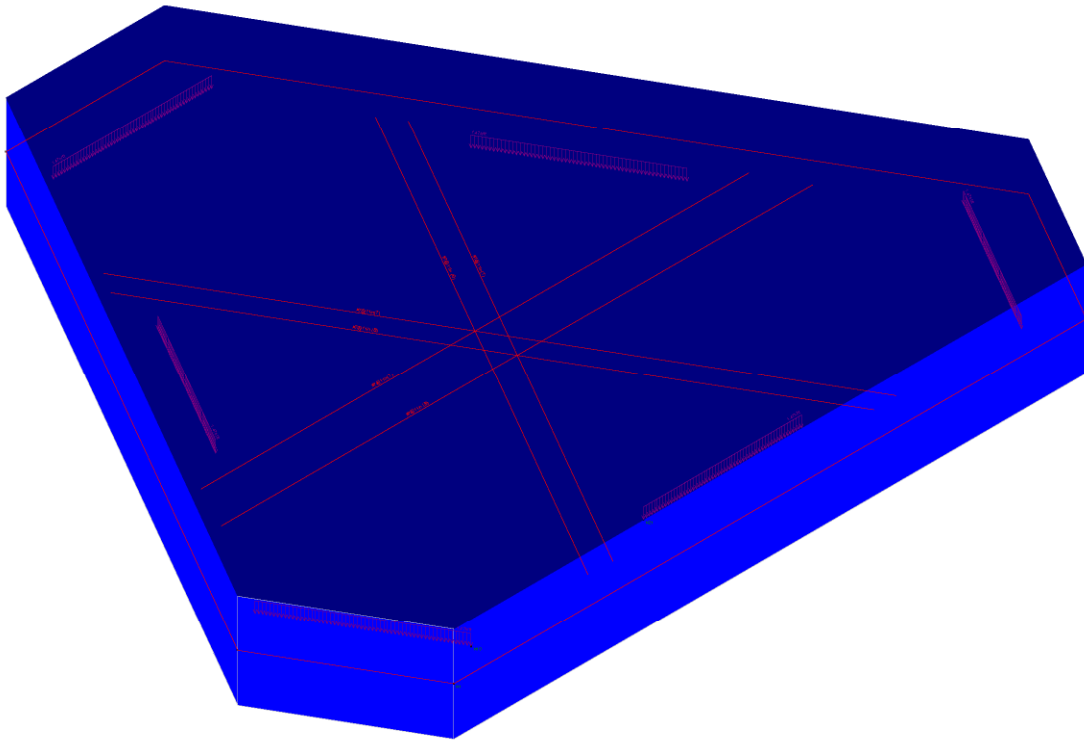
Overturning Moment =	4.16	k*ft
Axial Force =	174.62	k
Shear Force =	30.37	k

Maximum Capacity	100%
Apply TIA-222-H Section 15.5?	No

Anchor Rods		
Pole Diameter =	15.5	in
Number of Rods =	4	
Rod Yield Strength, F_y =	36	ksi
Rod Ultimate Strength, F_u =	58	ksi
Rod Circle =	22.6	in
Rod Diameter =	2.25	in
Rod Projection, l_{ar} =	2.25	in
Is grout present?	No	
Max Tension on Rod, P_{ut} =	-41.46	k
Max Compression on Rod, P_{uc} =	45.85	k
Shear on Rod, V_u =	7.59	k
Moment on Rod, M_u =	0.00	k-in
Tension Interaction =	9.4%	OK
Compression Interaction =	37.3%	OK

Base Plate		
Plate Yield Strength, F_y =	36	ksi
ϕ =	0.9	
Plate Thickness =	2.5	in
Plate Width =	22	in
Est. Dist. b/w ea. Rod =		in
W_{calc} =	16.45	in
W_{max} =	15.61	in
w =	15.61	in
Z =	24.39	in ³
M_u =	162.77	k-in
ϕM_n =	790.39	k-in
Base Plate Capacity =	20.6%	OK





GPD	DANBURY_S_CT (467555)	SK - 4
BF		Sept 1, 2022 at 7:13 PM
2022723.01.60417.01 (60...		RISA FOUNDATION_60417_4675...



Company : GPD
 Designer : BF
 Job Number : 2022723.01.60417.01 (60417)
 Model Name : DANBURY_S_CT (467555)

Sept 1, 2022
 7:14 PM
 Checked By: _____

Slabs

	Label	Thickness [in]	Material	Local Axis Angle...	Analysis Offset [in]	Passive Pressur...	Soil Overburden ...	Icr Factor
1	S1	36	Conc3000NW	0	0	0	0	1

General Design Parameters

	Label	Max Bending Chk	Max Shear Chk	Top Cover[in]	Bottom Cover[in]
1	Typical	2	2	3	3

Slab Rebar Parameters

	Label	Top Bar	Bottom Bar	Max Top Bar S...	Min Top Bar S...	Max Bot Bar S...	Min Bot Bar S...	Spacing In...	Rebar Options
1	Typical	#7	#7	11	11	11	11	11	Force Top and Bottom

Envelope Slab Soil Pressures

	Label	UC	LC	Soil Pressure[ksf]	Allowable Bearing[ksf]	Point
1	S1	0.524	40	11.962	22.83	N6

Slab Overturning Safety Factors

	LC	Slab	Angle[deg]	Mo-xx[k-ft]	Ms-xx[k-ft]	Mo-zz[k-ft]	Ms-zz[k-ft]	Ms-xx/Mo-xx	Ms-zz/Mo-zz
1	26	S1	0	0	4003.724	0	2774.512	9.99+	9.99+
2	27	S1	0	0	3698.427	1305.269	3193.221	9.99+	2.446
3	28	S1	0	0	2804.575	1437.209	2394.916	9.99+	1.666
4	29	S1	0	458.799	3072.769	1077.689	3193.221	6.697	2.963
5	30	S1	0	587.612	2304.577	1209.942	2394.916	3.922	1.979
6	31	S1	0	986.541	3072.769	425.872	3193.221	3.115	7.498
7	32	S1	0	1114.717	2304.577	558.821	2394.916	2.067	4.286
8	33	S1	0	1135.949	3072.769	0	2598.426	2.705	9.99+
9	34	S1	0	1263.92	2304.577	0	1978.932	1.823	9.99+
10	35	S1	0	901.042	3072.769	419.922	2128.814	3.41	5.07
11	36	S1	0	1029.213	2304.577	506.279	1596.611	2.239	3.154
12	37	S1	0	246.296	3072.769	1114.348	2128.814	9.99+	1.91
13	38	S1	0	375.109	2304.577	1200.013	1596.611	6.144	1.33
14	39	S1	0	0	3453.546	1416.58	2128.814	9.99+	1.503
15	40	S1	0	0	2559.717	1501.986	1596.611	9.99+	1.063
16	41	S1	0	475.795	3072.769	1242.493	2128.814	6.458	1.713
17	42	S1	0	600.498	2304.577	1328.122	1596.611	3.838	1.202
18	43	S1	0	1050.236	3072.769	626.229	2128.814	2.926	3.399
19	44	S1	0	1174.283	2304.577	712.555	1596.611	1.963	2.241
20	45	S1	0	1160.447	3072.769	0	2370.639	2.648	9.99+
21	46	S1	0	1284.325	2304.577	0	1751.163	1.794	9.99+
22	47	S1	0	885.475	3072.769	227.852	3193.221	3.47	9.99+
23	48	S1	0	1009.597	2304.577	360.835	2394.916	2.283	6.637
24	49	S1	0	258.209	3072.769	960.397	3193.221	9.99+	3.325
25	50	S1	0	382.957	2304.577	1092.634	2394.916	6.018	2.192

Strip Reinforcing

	Label	UC Top	LC	Top Bars	Governin...	UC Bot	LC	Bot Bars/...	Governin...	UC Shear	LC	Governin...
1	DS1	0.199	15	#7@11in	DS1-X24	0.208	21	#7@11in	DS1-X12	0.243	21	DS1-X10
2	DS2	0.187	7	#7@11in	DS2-X25	0.246	25	#7@11in	DS2-X12	0.285	25	DS2-X9
3	DS3	0.184	23	#7@11in	DS3-X24	0.256	17	#7@11in	DS3-X37	0.289	17	DS3-X39



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Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10112118
 Maser Consulting Connecticut Project #: 21781197

February 3, 2022

Site Information

Site ID: 467555-VZW / DANBURY S CT
 Site Name: DANBURY S CT
 Carrier Name: Verizon Wireless
 Address: 144 Post Rd.
 Danbury, Connecticut 06810
 Fairfield County
 Latitude: 41.359531°
 Longitude: -73.465481°

Structure Information

Tower Type: 66-Ft Self Support
 Mount Type: 14.67-Ft Sector Frame

FUZE ID # 2052730

Analysis Results

Platform: **43.6% Pass w/ Hardware Upgrades***

*** 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: Shelby Carbin



Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

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
<i>Radio Frequency Data Sheet</i>	<i>Verizon RFDS, Site ID#: 323710, Dated: December 03, 2021</i>
<i>Mount Mapping Report</i>	<i>RKS Design & Engineering, LLC, Site ID#: VZW 457555, Dated: December 20, 2021</i>
<i>Construction Drawings</i>	<i>Verizon CDS, Project #: 467555, Dated: November 16, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 115 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: Flat Topped Hill Topographic Method: Method 2 Ground Elevation Factor, K_e : 0.965
Seismic Parameters:	S_s : 0.23 g S_1 : 0.06 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
66.25	69.00	4	Andrew	DB846F65ZAXY	Retained
		4	JMA Wireless	MX06FRO660-03	Added
		2	Samsung	RF4439d-25A	
		2	Samsung	MT6407-77A	
		2	Samsung	RF4440d-13A	
		1	Raycap	RVZDC-6627-PF-48	

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

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

Standard Conditions:

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

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

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

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

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting.

Analysis Results:

Component	Utilization %	Pass/Fail
Mount Pipe	41.0%	Pass
Dual Pipe	29.3%	Pass
Face Horizontal	42.2%	Pass
Connection Check	43.6%	Pass

Structure Rating – (Controlling Utilization of all Components)	43.6%
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* Results valid after hardware upgrades noted in the PMI Requirements are installed.

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	27.7	9.2	44.6	26.1
0.5	29.9	10.0	53.7	33.7
1	32.1	10.7	62.7	41.3

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 2 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mounts will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor shall remove existing Unistrut bracing member and all associated hardware.

Contractor shall replace existing position 2 mount pipe on the Gamma sector with a new 72" long P2 1/2 STD pipe. Install 24" from the position 1 pipe of the Gamma sector. Top of pipe shall be 62" from the face horizontal. Attach using (2) VZSMART MSK7 crossover plates, one above the beam face horizontal and one below. Refer to placement diagrams.

Contractor shall replace existing position 3 mount pipe on the Beta sector with a new 86" long P2 1/2 STD pipe. Install 58" from the position 2 pipe of the Beta sector. Top of pipe shall be 74" from the face horizontal. Attach using (2) VZSMART MSK7 crossover plates, one above the beam face horizontal and one below. Refer to placement diagrams.

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 Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

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 #: 467555

SMART Project #: 10130770

Fuze Project ID: 2052730

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

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

Base Requirements:

- If installation 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 mount drawings” showing contractor’s name, contact information, 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 passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. 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.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation. Each entire sector shall 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.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
 - 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.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Response:

Special Instruction Confirmation:

- The contractor has read and acknowledges the above special instructions.
- All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) 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.

Comments:

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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

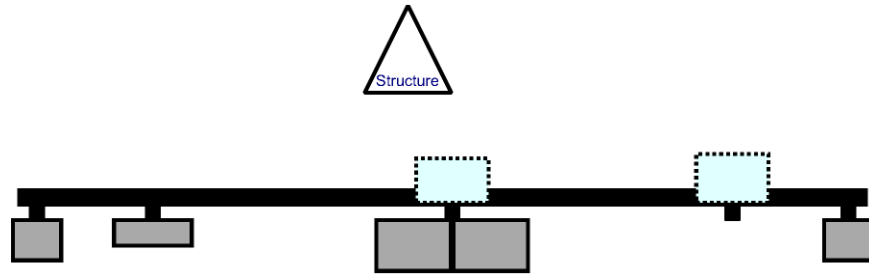
Certifying Individual:

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

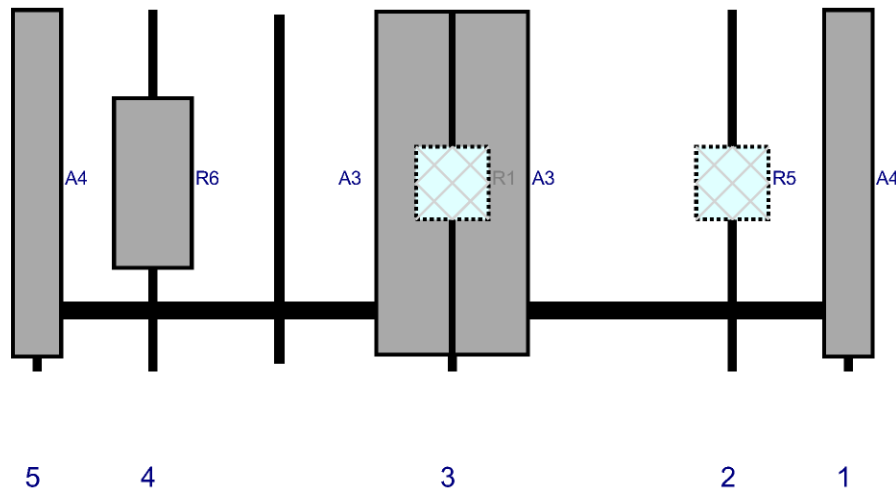




Plan View



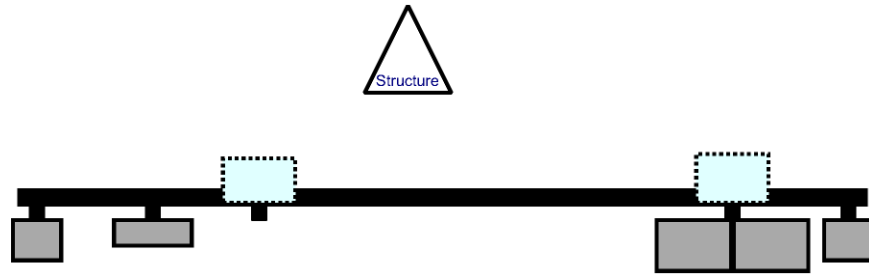
Front View - Looking at Structure



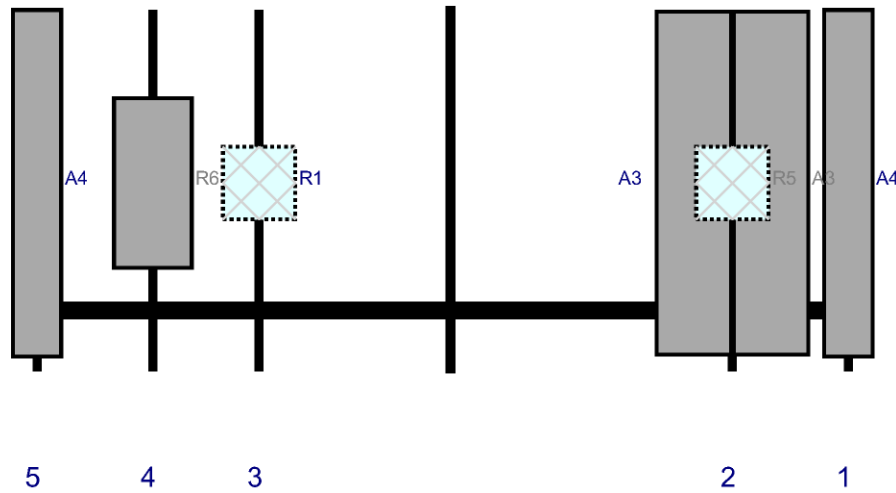
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A4	DB846F65ZAXY	72	10	172	1	a	Front	36	0	Retained	12/20/2021
R5	RF4439d-25A	15	15	148	2	a	Behind	36	0	Added	
A3	MX06FRO660-02	71.3	15.4	90	3	a	Front	36	-8	Added	
A3	MX06FRO660-02	71.3	15.4	90	3	b	Front	36	8	Added	
R1	RF4440d-13A	15	15	90	3	a	Behind	36	0	Added	
R6	MT6407-77A	35.1	16.1	28	4	a	Front	36	0	Added	
A4	DB846F65ZAXY	72	10	4	5	a	Front	36	0	Retained	12/20/2021



Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A4	DB846F65ZAXY	72	10	172	1	a	Front	36	0	Retained	12/20/2021
A3	MX06FRO660-02	71.3	15.4	148	2	a	Front	36	8	Added	
A3	MX06FRO660-02	71.3	15.4	148	2	b	Front	36	-8	Added	
R5	RF4439d-25A	15	15	148	2	a	Behind	36	0	Added	
R1	RF4440d-13A	15	15	50	3	a	Behind	36	0	Added	
R6	MT6407-77A	35.1	16.1	28	4	a	Front	36	0	Added	
A4	DB846F65ZAXY	72	10	4	5	a	Front	36	0	Retained	12/20/2021

	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
				UNKNOWN
Tower Owner:	UNKNOWN	Mapping Date:	12/20/2021	
Site Name:	VZW: DANBURY S CT	Tower Type:	Self Support	
Site Number or ID:	VZW: 467555	Tower Height (Ft.):	66	
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	67.5	

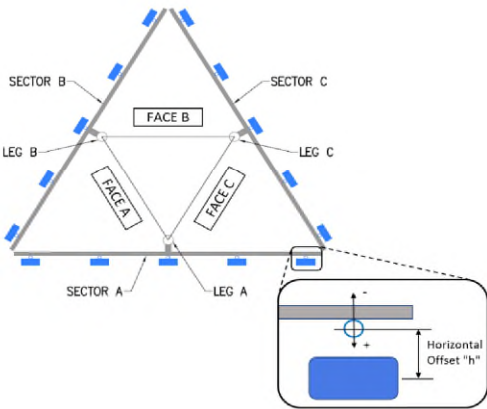
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is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

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

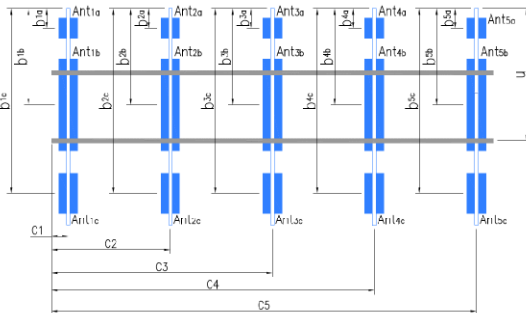
Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Ø X 0.16" X 75" LONG	62.50	4.00	C1			
A2	PIPE 2.375"Ø X 0.16" X 75" LONG	62.50	28.00	C2			
A3	PIPE 2.375"Ø X 0.16" X 86" LONG	78.00	76.00	C3			
A4	PIPE 2.375"Ø X 0.16" X 72" LONG	59.00	148.00	C4			
A5	PIPE 2.375"Ø X 0.16" X 75" LONG	62.50	172.00	C5			
A6				C6			
B1	PIPE 2.375"Ø X 0.16" X 75" LONG	62.50	4.00	D1			
B2	PIPE 2.375"Ø X 0.16" X 72" LONG	59.00	28.00	D2			
B3	PIPE 2.375"Ø X 0.16" X 86" LONG	81.50	124.00	D3			
B4	PIPE 2.375"Ø X 0.16" X 75" LONG	66.00	148.00	D4			
B5	PIPE 2.375"Ø X 0.16" X 75" LONG	62.50	172.00	D5			
B6				D6			

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

Tower Face Width at Mount Elev. (ft.):	15	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.			
			2



Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]				Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b1a, b2a, b3a, b1b,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant1a										
Ant1b	UNKNOWN PANEL	9.50	7.50	72.50		69.7917	35.00	6.75	200.00	7, 103
Ant1c										
Ant2a	9442 RRH2X40-AWS	10.60	6.70	24.40		70.3542	28.25	-7.00		7, 103
Ant2b	BXA-171063-12BF-ED	6.10	4.10	72.50		69.6875	36.25	7.75	190.00	7, 103
Ant2c										
Ant3a										
Ant3b	BXA-70063/6CF E-DIN	11.20	5.20	71.00		70.4583	42.50	12.50	180.00	7, 103
Ant3c										
Ant4a										
Ant4b	BXA-171063-12BF-ED	6.10	4.10	72.50		69.6458	33.25	7.75	210.00	7, 103
Ant4c										
Ant5a										
Ant5b	UNKNOWN PANEL	9.50	7.50	72.50		69.7917	35.00	7.00	200.00	7, 103
Ant5c										
Ant on Standoff	RRFDC-3315-PF-48	15.73	10.25	25.66			20.25	8.00		7, 103
Ant on Standoff	YAGI	16.00		36.00						7, 103
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
1	COAX TOTAL (13): (12) FH 7/8, (1) 1.54"Ø HYBRID	
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System

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

Mapping Notes

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

Standard Conditions

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



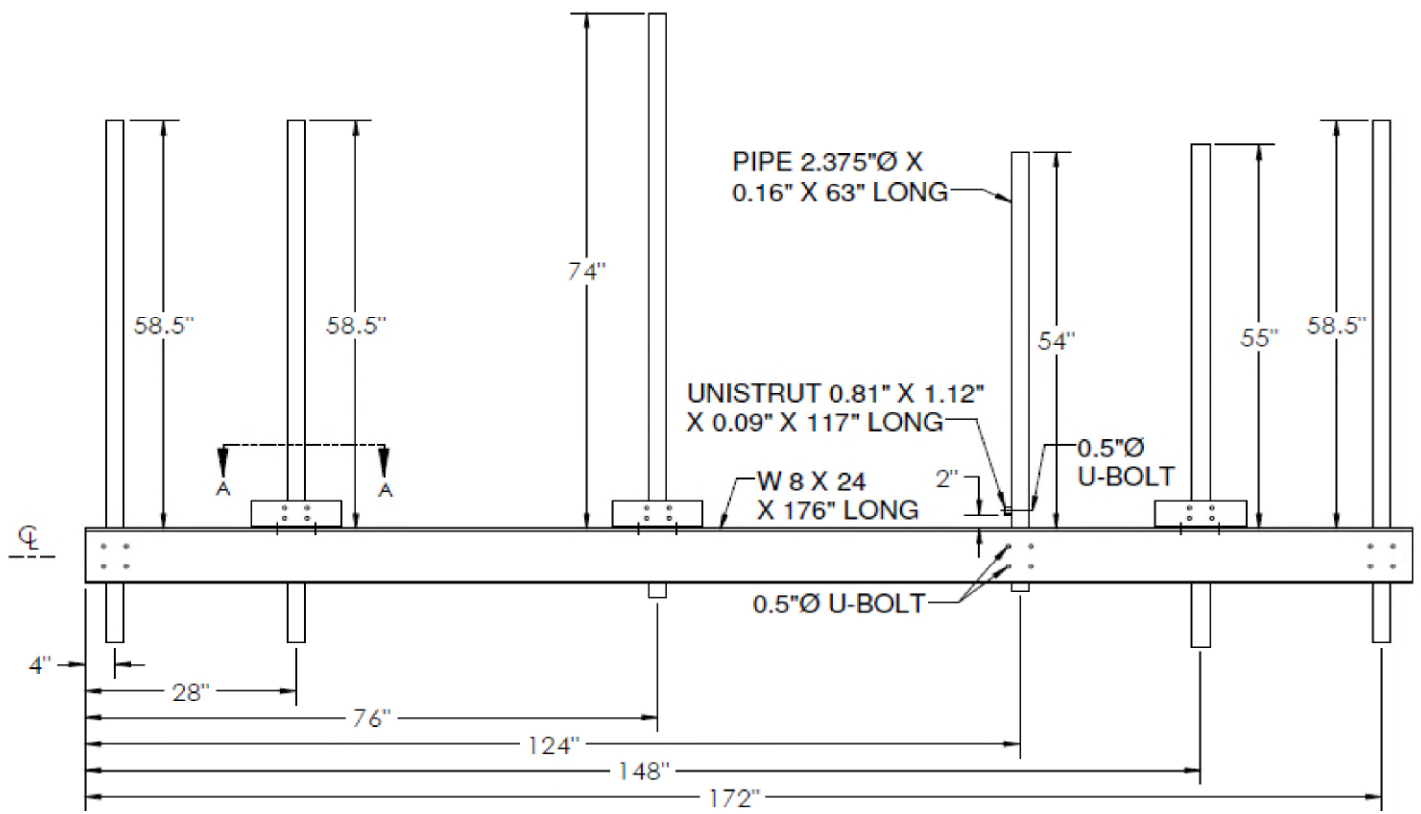
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

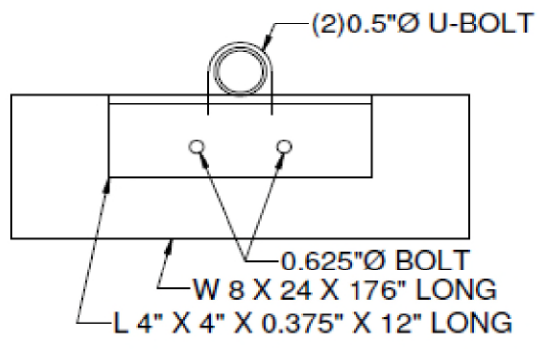
Tower Owner:	UNKNOWN	Mapping Date:	12/20/2021
Site Name:	VZW: DANBURY S CT	Tower Type:	Self Support
Site Number or ID:	VZW: 467555	Tower Height (Ft.):	66
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	67.5

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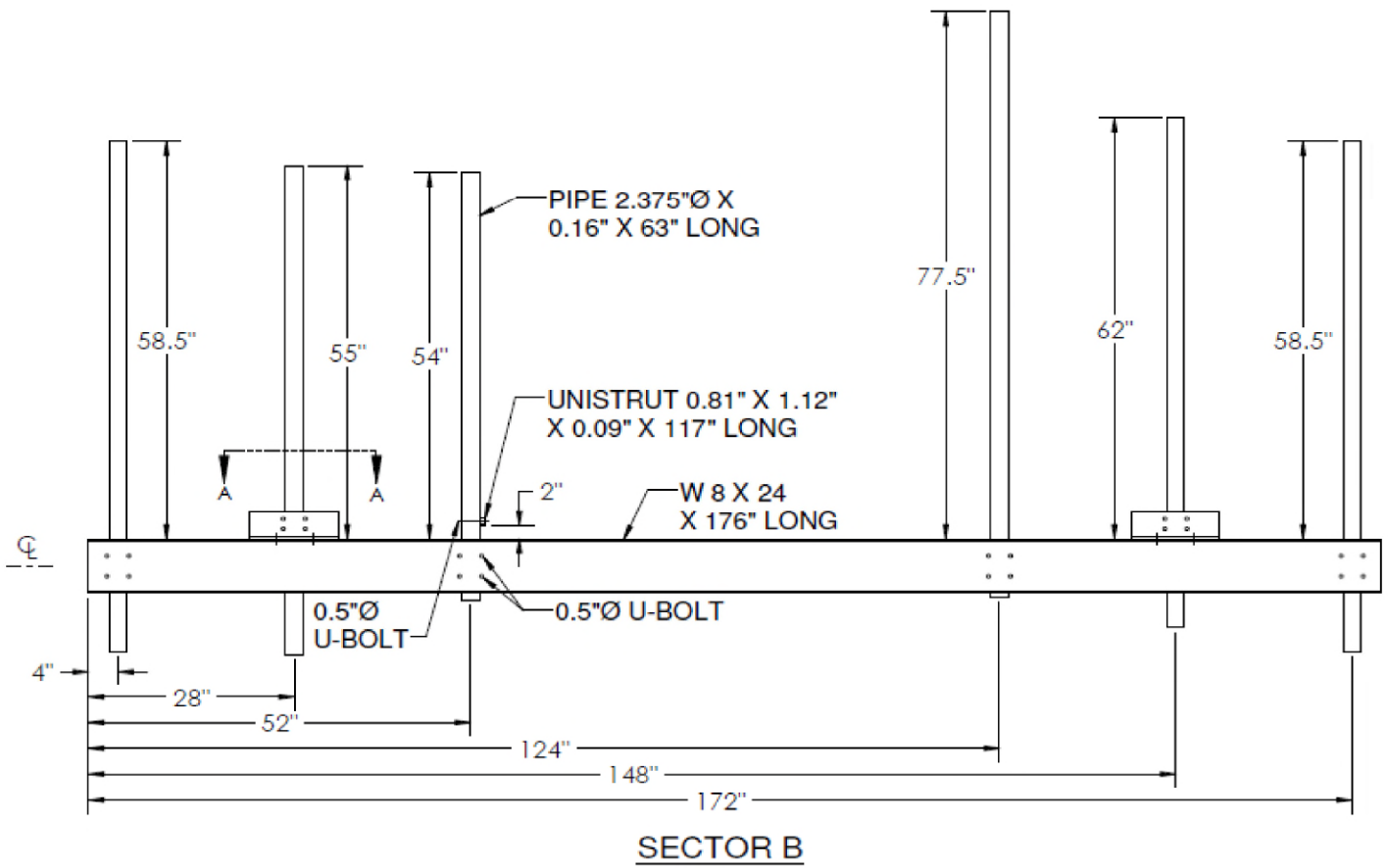
Please Insert Sketches of the Antenna Mount

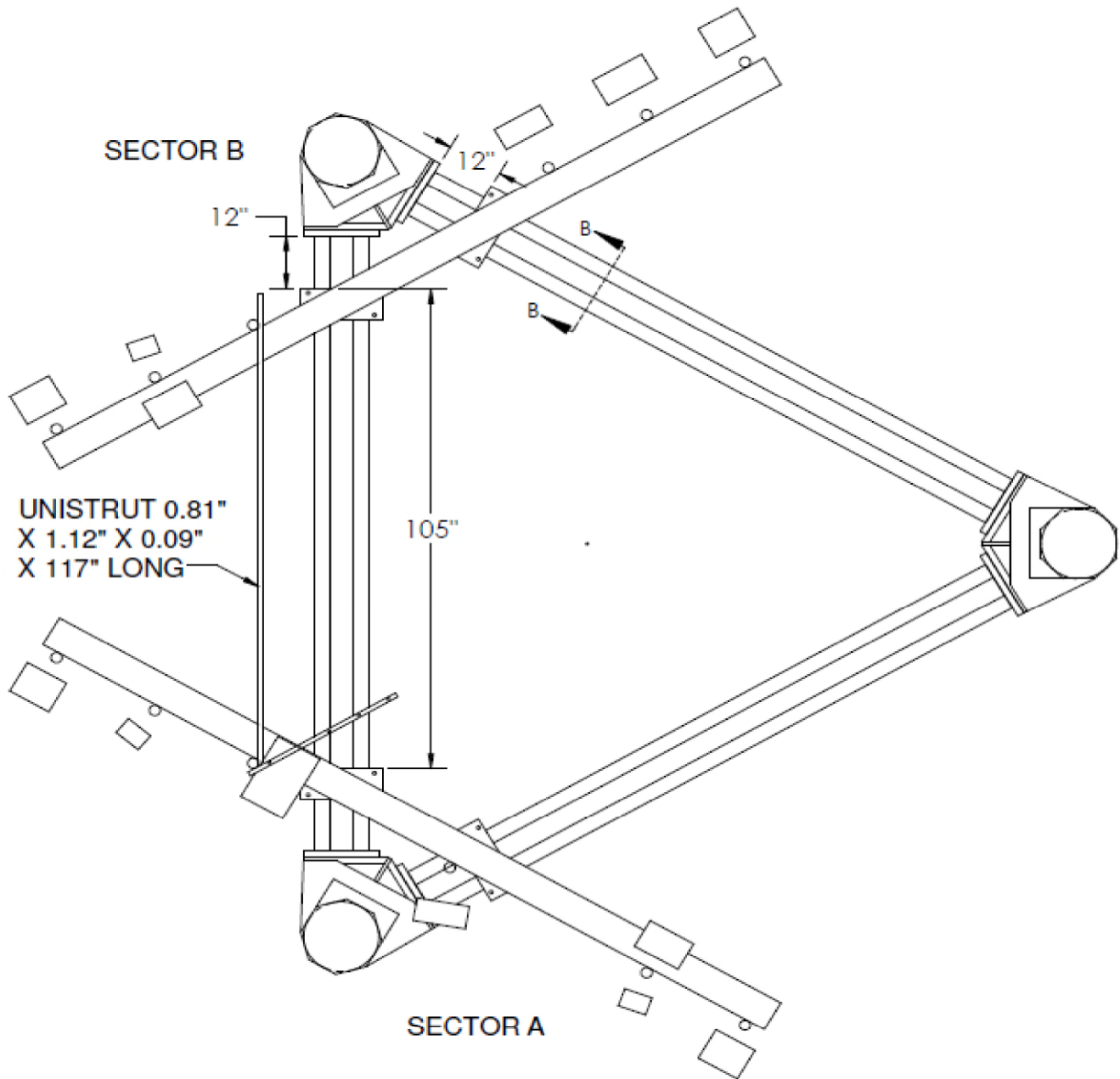


SECTOR A

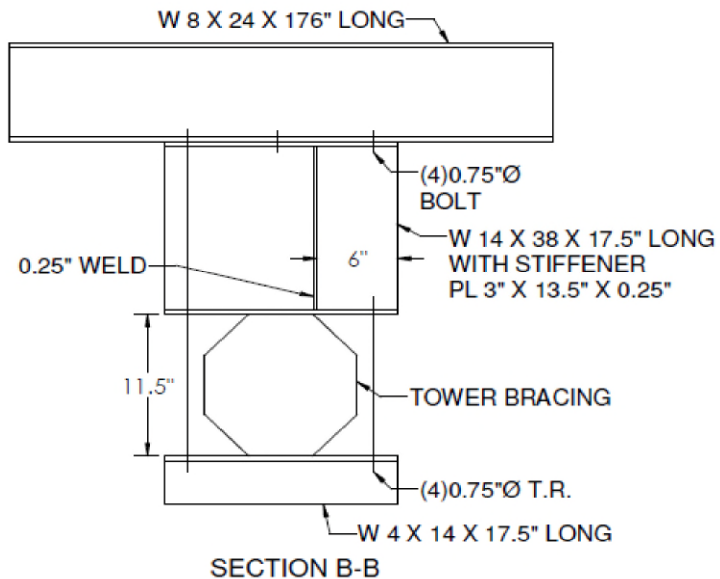


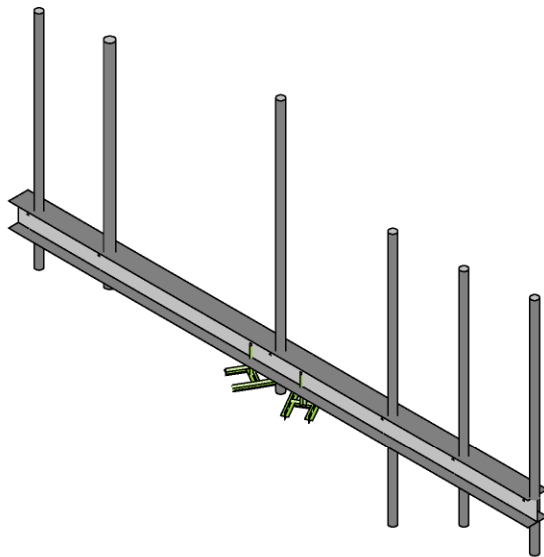
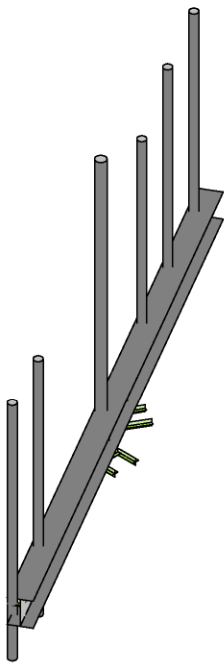
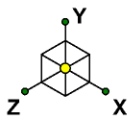
SECTION A-A



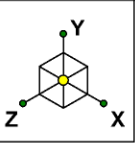


ANTENNA PLAN VIEW

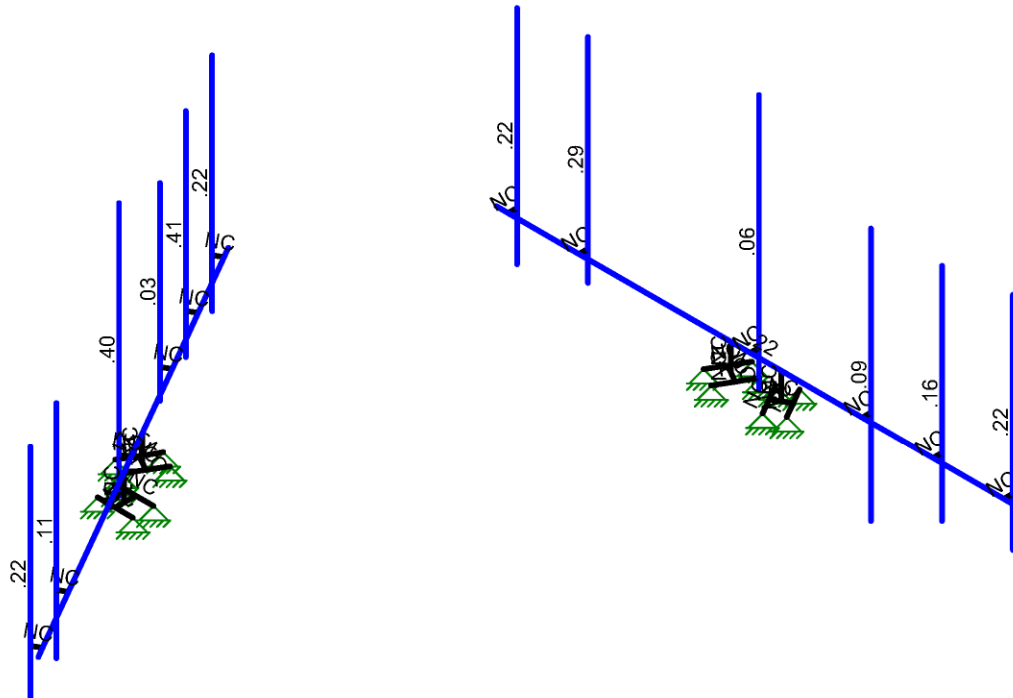




SK - 1
Feb 3, 2022 at 4:18 PM
467555-VZW_MT_LO_H.r3d

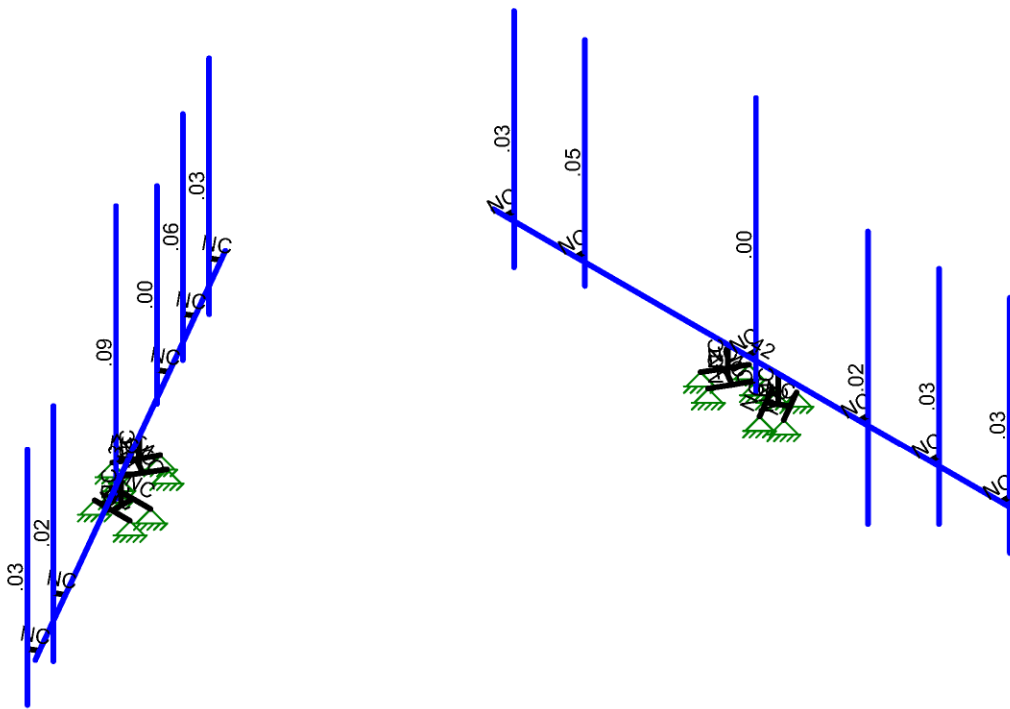
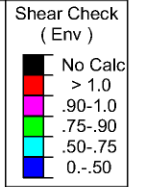
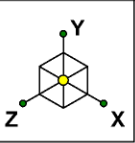


Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



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

		SK - 2
		Feb 3, 2022 at 4:18 PM
		467555-VZW_MT_LO_H.r3d



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

		SK - 3
		Feb 3, 2022 at 4:18 PM
		467555-VZW_MT_LO_H.r3d



Company :
 Designer :
 Job Number :
 Model Name :

Feb 3, 2022
 4:18 PM
 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					69		
2	Antenna Di	None					69		
3	Antenna Wo (0 Deg)	None					69		
4	Antenna Wo (30 Deg)	None					69		
5	Antenna Wo (60 Deg)	None					69		
6	Antenna Wo (90 Deg)	None					69		
7	Antenna Wo (120 Deg)	None					69		
8	Antenna Wo (150 Deg)	None					69		
9	Antenna Wo (180 Deg)	None					69		
10	Antenna Wo (210 Deg)	None					69		
11	Antenna Wo (240 Deg)	None					69		
12	Antenna Wo (270 Deg)	None					69		
13	Antenna Wo (300 Deg)	None					69		
14	Antenna Wo (330 Deg)	None					69		
15	Antenna Wi (0 Deg)	None					69		
16	Antenna Wi (30 Deg)	None					69		
17	Antenna Wi (60 Deg)	None					69		
18	Antenna Wi (90 Deg)	None					69		
19	Antenna Wi (120 Deg)	None					69		
20	Antenna Wi (150 Deg)	None					69		
21	Antenna Wi (180 Deg)	None					69		
22	Antenna Wi (210 Deg)	None					69		
23	Antenna Wi (240 Deg)	None					69		
24	Antenna Wi (270 Deg)	None					69		
25	Antenna Wi (300 Deg)	None					69		
26	Antenna Wi (330 Deg)	None					69		
27	Antenna Wm (0 Deg)	None					69		
28	Antenna Wm (30 Deg)	None					69		
29	Antenna Wm (60 Deg)	None					69		
30	Antenna Wm (90 Deg)	None					69		
31	Antenna Wm (120 De...	None					69		
32	Antenna Wm (150 De...	None					69		
33	Antenna Wm (180 De...	None					69		
34	Antenna Wm (210 De...	None					69		
35	Antenna Wm (240 De...	None					69		
36	Antenna Wm (270 De...	None					69		
37	Antenna Wm (300 De...	None					69		
38	Antenna Wm (330 De...	None					69		
39	Structure D	None		-1					
40	Structure Di	None						14	
41	Structure Wo (0 Deg)	None						28	
42	Structure Wo (30 Deg)	None						28	
43	Structure Wo (60 Deg)	None						28	
44	Structure Wo (90 Deg)	None						28	
45	Structure Wo (120 D...	None						28	
46	Structure Wo (150 D...	None						28	
47	Structure Wo (180 D...	None						28	
48	Structure Wo (210 D...	None						28	
49	Structure Wo (240 D...	None						28	
50	Structure Wo (270 D...	None						28	
51	Structure Wo (300 D...	None						28	
52	Structure Wo (330 D...	None						28	
53	Structure Wi (0 Deg)	None						28	
54	Structure Wi (30 Deg)	None						28	
55	Structure Wi (60 Deg)	None						28	
56	Structure Wi (90 Deg)	None						28	
57	Structure Wi (120 De...	None						28	
58	Structure Wi (150 De...	None						28	

Load Combinations (Continued)

	Description	So...	PDelta	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...		
27	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1						
28	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1						
29	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1...	Yes	Y		1	1.2	39	1.2	79	1.5										
50	1.2D + 1...	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...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83	ELZ	1	ELX		
53	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5
54	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866
55	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866
57	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5
58	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
60	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
61	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866
63	1.2D + 1...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5
64	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5
66	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866
67	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866
69	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5
70	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
72	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
73	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866
75	0.9D - 1...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N9	0	0	5.669873	0	
2	N15	7.333333	.75	-1.763512	0	
3	N16	-7.333333	.75	-1.763512	0	
4	N15A	7.	.75	-1.763512	0	
5	N16A	5.	.75	-1.763512	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
6	N17	3.	.75	-1.763512	0	
7	N19	-5.	.75	-1.763512	0	
8	N20	-7.	.75	-1.763512	0	
9	N21	7.	.75	-2.013512	0	
10	N22	5.	.75	-2.013512	0	
11	N23	3.	.75	-2.013512	0	
12	N25	-5.	.75	-2.013512	0	
13	N26	-7.	.75	-2.013512	0	
14	N27	7.	5.625	-2.013512	0	
15	N28	-7.	5.625	-2.013512	0	
16	N29	7.	-.625	-2.013512	0	
17	N30	-7.	-.625	-2.013512	0	
18	N31	5.	5.333333	-2.013512	0	
19	N32	5.	-0.916667	-2.013512	0	
20	N33	3.	5.25	-2.013512	0	
21	N34	3.	-1.916667	-2.013512	0	
22	N36	-5.	5.916667	-2.013512	0	
23	N37	-5.	-0.083333	-2.013512	0	
24	N60	-10.104167	.75	3.035712	0	
25	N61	-2.770833	.75	15.737418	0	
26	N62	-9.9375	.75	3.324388	0	
27	N63	-8.9375	.75	5.056438	0	
28	N65A	-7.9375	.75	6.788489	0	
29	N66A	-3.9375	.75	13.716692	0	
30	N67A	-2.9375	.75	15.448743	0	
31	N68	-10.154006	.75	3.449388	0	
32	N69	-9.154006	.75	5.181438	0	
33	N71A	-8.154006	.75	6.913489	0	
34	N72A	-4.154006	.75	13.841692	0	
35	N73A	-3.154006	.75	15.573743	0	
36	N74A	-10.154006	5.625	3.449388	0	
37	N75A	-3.154006	5.625	15.573743	0	
38	N76A	-10.154006	-.625	3.449388	0	
39	N77A	-3.154006	-.625	15.573743	0	
40	N78A	-9.154006	5.625	5.181438	0	
41	N79	-9.154006	-.375	5.181438	0	
42	N82	-8.154006	5.25	6.913489	0	
43	N83	-4.154006	5.333333	13.841692	0	
44	N84	-4.154006	-0.916667	13.841692	0	
45	N85	-8.154006	-0.083333	6.913489	0	
46	N84A	-6.354167	.75	9.530903	0	
47	N85A	-6.570673	.75	9.655903	0	
48	N86	-6.570673	6.916667	9.655903	0	
49	N87	-6.570673	-.25	9.655903	0	
50	N58	-6.083333	.75	10	0	
51	N60A	-6.083333	0.333333	10	0	
52	N62A	-6.083333	0	10	0	
53	N67	-6.083333	0	10.25	0	
54	N68B	-6.083333	0	9.666667	0	
55	N67B	-5.583333	0	10.25	0	
56	N68C	-5.583333	0	9.666667	0	
57	N71	-6.583333	0	10.25	0	
58	N72	-6.583333	0	9.666667	0	
59	N79A	-5.833333	0	9.666667	0	
60	N80	-5.833333	0	10.25	0	
61	N81	-6.333333	0	9.666667	0	
62	N82A	-6.333333	0	10.25	0	
63	N87A	0.708333	.75	-1.763512	0	
64	N88	0.708333	0.333333	-1.763512	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
65	N89	0.708333	0	-1.763512	0	
66	N92	0.92484	0	-1.888512	0	
67	N93	0.491827	0	-1.638512	0	
68	N96	0.67484	0	-2.321524	0	
69	N97	0.241827	0	-2.071524	0	
70	N100	1.17484	0	-1.455499	0	
71	N101	0.741827	0	-1.205499	0	
72	N102	0.366827	0	-1.855018	0	
73	N103	0.79984	0	-2.105018	0	
74	N104	0.616827	0	-1.422005	0	
75	N105	1.04984	0	-1.672005	0	
76	N111	-0.708333	.75	-1.763512	0	
77	N112	-0.708333	0.333333	-1.763512	0	
78	N113	-0.708333	0	-1.763512	0	
79	N114	-6.791667	.75	8.773131	0	
80	N115	-6.791667	0.333333	8.773131	0	
81	N116	-6.791667	0	8.773131	0	
82	N117	-0.92484	0	-1.888512	0	
83	N118	-0.419658	0	-1.596845	0	
84	N119	-7.008173	0	8.648131	0	
85	N120	-6.57516	0	8.898131	0	
86	N121	-1.17484	0	-1.455499	0	
87	N122	-0.669658	0	-1.163832	0	
88	N123	-7.258173	0	9.081143	0	
89	N124	-6.82516	0	9.331143	0	
90	N125	-0.67484	0	-2.321524	0	
91	N126	-0.169658	0	-2.029858	0	
92	N127	-6.758173	0	8.215118	0	
93	N128	-6.32516	0	8.465118	0	
94	N129	-6.70016	0	9.114637	0	
95	N130	-7.133173	0	8.864637	0	
96	N131	-6.45016	0	8.681624	0	
97	N132	-6.883173	0	8.431624	0	
98	N133	-0.544658	0	-1.380339	0	
99	N134	-1.04984	0	-1.672005	0	
100	N135	-0.294658	0	-1.813351	0	
101	N136	-0.79984	0	-2.105018	0	
102	N151A	-0.166667	.75	-1.763512	0	
103	N152A	-0.166667	.75	-2.013512	0	
104	N153A	-0.166667	6.916667	-2.013512	0	
105	N154A	-0.166667	-.25	-2.013512	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	W8X24	Beam	Wide Flange	A50	Typical	7.08	18.3	82.7	.346
2	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Dual Pipe	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

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	FACEB	Face Horizo...	14.667			Lbyy						Lateral
2	MP1B	Mount Pipe	6.25									Lateral
3	MP5B	Mount Pipe	6.25									Lateral
4	MP4B	Mount Pipe	6.25									Lateral
5	MP3B	Mount Pipe	7.167									Lateral
6	MP2B	Dual Pipe	6									Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
7	FACEA	Face Horizo...	14.667			Lbyy						Lateral
8	MP1A	Mount Pipe	6.25									Lateral
9	MP5A	Mount Pipe	6.25									Lateral
10	MP4A	Mount Pipe	6									Lateral
11	MP2A	Mount Pipe	6.25									Lateral
12	MP6A	Mount Pipe	5.333									Lateral
13	MP3A	Dual Pipe	7.167									Lateral
14	MP6B	Mount Pipe	7.167									Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	FACEB	N16	N15			Face Horizontal	Beam	Wide Flange	A50	Typical
2	M7	N21	N15A			RIGID	None	None	RIGID	Typical
3	M8	N22	N16A			RIGID	None	None	RIGID	Typical
4	M9	N23	N17			RIGID	None	None	RIGID	Typical
5	M11	N25	N19			RIGID	None	None	RIGID	Typical
6	M12	N26	N20			RIGID	None	None	RIGID	Typical
7	MP1B	N28	N30			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
8	MP5B	N27	N29			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP4B	N31	N32			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
10	MP3B	N33	N34			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
11	MP2B	N36	N37			Dual Pipe	Column	Pipe	A53 Gr.B	Typical
12	FACEA	N61	N60			Face Horizontal	Beam	Wide Flange	A50	Typical
13	M32	N68	N62			RIGID	None	None	RIGID	Typical
14	M33	N69	N63			RIGID	None	None	RIGID	Typical
15	M35A	N71A	N65A			RIGID	None	None	RIGID	Typical
16	M36A	N66A	N72A			RIGID	None	None	RIGID	Typical
17	M37A	N67A	N73A			RIGID	None	None	RIGID	Typical
18	MP1A	N75A	N77A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
19	MP5A	N74A	N76A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
20	MP4A	N78A	N79			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
21	MP2A	N83	N84			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
22	MP6A	N82	N85			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
23	M44	N84A	N85A			RIGID	None	None	RIGID	Typical
24	MP3A	N86	N87			Dual Pipe	Column	Pipe	A53 Gr.B	Typical
25	M32A	N62A	N60A			RIGID	None	None	RIGID	Typical
26	M33A	N60A	N58			RIGID	None	None	RIGID	Typical
27	M34	N72	N68C			RIGID	None	None	RIGID	Typical
28	M35B	N67B	N71			RIGID	None	None	RIGID	Typical
29	M39	N68B	N67			RIGID	None	None	RIGID	Typical
30	M42	N89	N88			RIGID	None	None	RIGID	Typical
31	M43	N88	N87A			RIGID	None	None	RIGID	Typical
32	M46	N96	N100			RIGID	None	None	RIGID	Typical
33	M47	N97	N101			RIGID	None	None	RIGID	Typical
34	M48	N93	N92			RIGID	None	None	RIGID	Typical
35	M50	N113	N112			RIGID	None	None	RIGID	Typical
36	M51	N112	N111			RIGID	None	None	RIGID	Typical
37	M52	N116	N115			RIGID	None	None	RIGID	Typical
38	M53	N115	N114			RIGID	None	None	RIGID	Typical
39	M54	N126	N122			RIGID	None	None	RIGID	Typical
40	M55	N121	N125			RIGID	None	None	RIGID	Typical
41	M56	N123	N127			RIGID	None	None	RIGID	Typical
42	M57	N124	N128			RIGID	None	None	RIGID	Typical
43	M58	N120	N119			RIGID	None	None	RIGID	Typical
44	M59	N118	N117			RIGID	None	None	RIGID	Typical
45	M66A	N151A	N152A			RIGID	None	None	RIGID	Typical
46	MP6B	N153A	N154A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-70.3	3
2	MP3A	My	-.027	3
3	MP3A	Mz	.023	3
4	MP3B	Y	-70.3	3
5	MP3B	My	.006	3
6	MP3B	Mz	-.035	3
7	MP4A	Y	-32	1
8	MP4A	My	-.012	1
9	MP4A	Mz	.01	1
10	MP2B	Y	-23	2
11	MP2B	My	.017	2
12	MP2B	Mz	-.009	2
13	MP2B	Y	-23	6
14	MP2B	My	.017	6
15	MP2B	Mz	-.009	6
16	MP2B	Y	-23	2
17	MP2B	My	-.013	2
18	MP2B	Mz	-.014	2
19	MP2B	Y	-23	6
20	MP2B	My	-.013	6
21	MP2B	Mz	-.014	6
22	MP3A	Y	-23	2
23	MP3A	My	.001	2
24	MP3A	Mz	.019	2
25	MP3A	Y	-23	6
26	MP3A	My	.001	6
27	MP3A	Mz	.019	6
28	MP3A	Y	-23	2
29	MP3A	My	-.019	2
30	MP3A	Mz	-.004	2
31	MP3A	Y	-23	6
32	MP3A	My	-.019	6
33	MP3A	Mz	-.004	6
34	MP1A	Y	-10.5	1
35	MP1A	My	-.005	1
36	MP1A	Mz	.002	1
37	MP1A	Y	-10.5	5
38	MP1A	My	-.005	5
39	MP1A	Mz	.002	5
40	MP1B	Y	-10.5	1
41	MP1B	My	-.003	1
42	MP1B	Mz	-.005	1
43	MP1B	Y	-10.5	5
44	MP1B	My	-.003	5
45	MP1B	Mz	-.005	5
46	MP5A	Y	-10.5	1
47	MP5A	My	-.005	1
48	MP5A	Mz	.002	1
49	MP5A	Y	-10.5	5
50	MP5A	My	-.005	5
51	MP5A	Mz	.002	5
52	MP5B	Y	-10.5	1
53	MP5B	My	-.003	1
54	MP5B	Mz	-.005	1
55	MP5B	Y	-10.5	5
56	MP5B	My	-.003	5
57	MP5B	Mz	-.005	5
58	MP2A	Y	-74.7	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
59	MP2A	My	-.029	3
60	MP2A	Mz	.024	3
61	MP2B	Y	-74.7	3
62	MP2B	My	.006	3
63	MP2B	Mz	-.037	3
64	MP4A	Y	-87.1	3
65	MP4A	My	-.033	3
66	MP4A	Mz	.028	3
67	MP4B	Y	-87.1	3
68	MP4B	My	.008	3
69	MP4B	Mz	-.043	3

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-39.334	3
2	MP3A	My	-.015	3
3	MP3A	Mz	.013	3
4	MP3B	Y	-39.334	3
5	MP3B	My	.003	3
6	MP3B	Mz	-.019	3
7	MP4A	Y	-81.096	1
8	MP4A	My	-.031	1
9	MP4A	Mz	.026	1
10	MP2B	Y	-76.139	2
11	MP2B	My	.057	2
12	MP2B	Mz	-.029	2
13	MP2B	Y	-76.139	6
14	MP2B	My	.057	6
15	MP2B	Mz	-.029	6
16	MP2B	Y	-76.139	2
17	MP2B	My	-.043	2
18	MP2B	Mz	-.046	2
19	MP2B	Y	-76.139	6
20	MP2B	My	-.043	6
21	MP2B	Mz	-.046	6
22	MP3A	Y	-76.139	2
23	MP3A	My	.003	2
24	MP3A	Mz	.063	2
25	MP3A	Y	-76.139	6
26	MP3A	My	.003	6
27	MP3A	Mz	.063	6
28	MP3A	Y	-76.139	2
29	MP3A	My	-.062	2
30	MP3A	Mz	-.014	2
31	MP3A	Y	-76.139	6
32	MP3A	My	-.062	6
33	MP3A	Mz	-.014	6
34	MP1A	Y	-54.593	1
35	MP1A	My	-.025	1
36	MP1A	Mz	.012	1
37	MP1A	Y	-54.593	5
38	MP1A	My	-.025	5
39	MP1A	Mz	.012	5
40	MP1B	Y	-54.593	1
41	MP1B	My	-.014	1
42	MP1B	Mz	-.024	1
43	MP1B	Y	-54.593	5
44	MP1B	My	-.014	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP1B	Mz	-.024	5
46	MP5A	Y	-54.593	1
47	MP5A	My	-.025	1
48	MP5A	Mz	.012	1
49	MP5A	Y	-54.593	5
50	MP5A	My	-.025	5
51	MP5A	Mz	.012	5
52	MP5B	Y	-54.593	1
53	MP5B	My	-.014	1
54	MP5B	Mz	-.024	1
55	MP5B	Y	-54.593	5
56	MP5B	My	-.014	5
57	MP5B	Mz	-.024	5
58	MP2A	Y	-41.315	3
59	MP2A	My	-.016	3
60	MP2A	Mz	.013	3
61	MP2B	Y	-41.315	3
62	MP2B	My	.004	3
63	MP2B	Mz	-.02	3
64	MP4A	Y	-65.616	3
65	MP4A	My	-.025	3
66	MP4A	Mz	.021	3
67	MP4B	Y	-65.616	3
68	MP4B	My	.006	3
69	MP4B	Mz	-.032	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	-39.674	3
3	MP3A	Mx	-.013	3
4	MP3B	X	0	3
5	MP3B	Z	-29.353	3
6	MP3B	Mx	.014	3
7	MP4A	X	0	1
8	MP4A	Z	-92.705	1
9	MP4A	Mx	-.03	1
10	MP2B	X	0	2
11	MP2B	Z	-93.84	2
12	MP2B	Mx	.035	2
13	MP2B	X	0	6
14	MP2B	Z	-93.84	6
15	MP2B	Mx	.035	6
16	MP2B	X	0	2
17	MP2B	Z	-93.84	2
18	MP2B	Mx	.057	2
19	MP2B	X	0	6
20	MP2B	Z	-93.84	6
21	MP2B	Mx	.057	6
22	MP3A	X	0	2
23	MP3A	Z	-111.679	2
24	MP3A	Mx	-.093	2
25	MP3A	X	0	6
26	MP3A	Z	-111.679	6
27	MP3A	Mx	-.093	6
28	MP3A	X	0	2
29	MP3A	Z	-111.679	2
30	MP3A	Mx	.021	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP3A	X	0	6
32	MP3A	Z	-111.679	6
33	MP3A	Mx	.021	6
34	MP1A	X	0	1
35	MP1A	Z	-87.213	1
36	MP1A	Mx	-.018	1
37	MP1A	X	0	5
38	MP1A	Z	-87.213	5
39	MP1A	Mx	-.018	5
40	MP1B	X	0	1
41	MP1B	Z	-80.765	1
42	MP1B	Mx	.035	1
43	MP1B	X	0	5
44	MP1B	Z	-80.765	5
45	MP1B	Mx	.035	5
46	MP5A	X	0	1
47	MP5A	Z	-87.213	1
48	MP5A	Mx	-.018	1
49	MP5A	X	0	5
50	MP5A	Z	-87.213	5
51	MP5A	Mx	-.018	5
52	MP5B	X	0	1
53	MP5B	Z	-80.765	1
54	MP5B	Mx	.035	1
55	MP5B	X	0	5
56	MP5B	Z	-80.765	5
57	MP5B	Mx	.035	5
58	MP2A	X	0	3
59	MP2A	Z	-40.851	3
60	MP2A	Mx	-.013	3
61	MP2B	X	0	3
62	MP2B	Z	-32.115	3
63	MP2B	Mx	.016	3
64	MP4A	X	0	3
65	MP4A	Z	-89.06	3
66	MP4A	Mx	-.029	3
67	MP4B	X	0	3
68	MP4B	Z	-48.76	3
69	MP4B	Mx	.024	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	15.481	3
2	MP3A	Z	-26.814	3
3	MP3A	Mx	-.015	3
4	MP3B	X	15.481	3
5	MP3B	Z	-26.814	3
6	MP3B	Mx	.015	3
7	MP4A	X	40.629	1
8	MP4A	Z	-70.371	1
9	MP4A	Mx	-.038	1
10	MP2B	X	48.311	2
11	MP2B	Z	-83.677	2
12	MP2B	Mx	.067	2
13	MP2B	X	48.311	6
14	MP2B	Z	-83.677	6
15	MP2B	Mx	.067	6
16	MP2B	X	48.311	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
17	MP2B	Z	-83.677	2
18	MP2B	Mx	.023	2
19	MP2B	X	48.311	6
20	MP2B	Z	-83.677	6
21	MP2B	Mx	.023	6
22	MP3A	X	48.311	2
23	MP3A	Z	-83.677	2
24	MP3A	Mx	-.067	2
25	MP3A	X	48.311	6
26	MP3A	Z	-83.677	6
27	MP3A	Mx	-.067	6
28	MP3A	X	48.311	2
29	MP3A	Z	-83.677	2
30	MP3A	Mx	-.023	2
31	MP3A	X	48.311	6
32	MP3A	Z	-83.677	6
33	MP3A	Mx	-.023	6
34	MP1A	X	40.828	1
35	MP1A	Z	-70.716	1
36	MP1A	Mx	-.033	1
37	MP1A	X	40.828	5
38	MP1A	Z	-70.716	5
39	MP1A	Mx	-.033	5
40	MP1B	X	43.204	1
41	MP1B	Z	-74.831	1
42	MP1B	Mx	.022	1
43	MP1B	X	43.204	5
44	MP1B	Z	-74.831	5
45	MP1B	Mx	.022	5
46	MP5A	X	40.828	1
47	MP5A	Z	-70.716	1
48	MP5A	Mx	-.033	1
49	MP5A	X	40.828	5
50	MP5A	Z	-70.716	5
51	MP5A	Mx	-.033	5
52	MP5B	X	43.204	1
53	MP5B	Z	-74.831	1
54	MP5B	Mx	.022	1
55	MP5B	X	43.204	5
56	MP5B	Z	-74.831	5
57	MP5B	Mx	.022	5
58	MP2A	X	16.739	3
59	MP2A	Z	-28.992	3
60	MP2A	Mx	-.016	3
61	MP2B	X	16.739	3
62	MP2B	Z	-28.992	3
63	MP2B	Mx	.016	3
64	MP4A	X	27.523	3
65	MP4A	Z	-47.671	3
66	MP4A	Mx	-.026	3
67	MP4B	X	27.523	3
68	MP4B	Z	-47.671	3
69	MP4B	Mx	.026	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	25.42	3
2	MP3A	Z	-14.676	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP3A	Mx	-.014	3
4	MP3B	X	34.359	3
5	MP3B	Z	-19.837	3
6	MP3B	Mx	.013	3
7	MP4A	X	68.539	1
8	MP4A	Z	-39.571	1
9	MP4A	Mx	-.039	1
10	MP2B	X	96.717	2
11	MP2B	Z	-55.84	2
12	MP2B	Mx	.093	2
13	MP2B	X	96.717	6
14	MP2B	Z	-55.84	6
15	MP2B	Mx	.093	6
16	MP2B	X	96.717	2
17	MP2B	Z	-55.84	2
18	MP2B	Mx	-.021	2
19	MP2B	X	96.717	6
20	MP2B	Z	-55.84	6
21	MP2B	Mx	-.021	6
22	MP3A	X	81.267	2
23	MP3A	Z	-46.92	2
24	MP3A	Mx	-.035	2
25	MP3A	X	81.267	6
26	MP3A	Z	-46.92	6
27	MP3A	Mx	-.035	6
28	MP3A	X	81.267	2
29	MP3A	Z	-46.92	2
30	MP3A	Mx	-.057	2
31	MP3A	X	81.267	6
32	MP3A	Z	-46.92	6
33	MP3A	Mx	-.057	6
34	MP1A	X	67.575	1
35	MP1A	Z	-39.014	1
36	MP1A	Mx	-.039	1
37	MP1A	X	67.575	5
38	MP1A	Z	-39.014	5
39	MP1A	Mx	-.039	5
40	MP1B	X	77.274	1
41	MP1B	Z	-44.614	1
42	MP1B	Mx	0	1
43	MP1B	X	77.274	5
44	MP1B	Z	-44.614	5
45	MP1B	Mx	0	5
46	MP5A	X	67.575	1
47	MP5A	Z	-39.014	1
48	MP5A	Mx	-.039	1
49	MP5A	X	67.575	5
50	MP5A	Z	-39.014	5
51	MP5A	Mx	-.039	5
52	MP5B	X	77.274	1
53	MP5B	Z	-44.614	1
54	MP5B	Mx	0	1
55	MP5B	X	77.274	5
56	MP5B	Z	-44.614	5
57	MP5B	Mx	0	5
58	MP2A	X	27.812	3
59	MP2A	Z	-16.057	3
60	MP2A	Mx	-.016	3
61	MP2B	X	35.378	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
62	MP2B	Z	-20.426	3
63	MP2B	Mx	.013	3
64	MP4A	X	42.227	3
65	MP4A	Z	-24.38	3
66	MP4A	Mx	-.024	3
67	MP4B	X	77.128	3
68	MP4B	Z	-44.53	3
69	MP4B	Mx	.029	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	36.455	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.014	3
4	MP3B	X	46.776	3
5	MP3B	Z	0	3
6	MP3B	Mx	.004	3
7	MP4A	X	88.474	1
8	MP4A	Z	0	1
9	MP4A	Mx	-.034	1
10	MP2B	X	123.954	2
11	MP2B	Z	0	2
12	MP2B	Mx	.092	2
13	MP2B	X	123.954	6
14	MP2B	Z	0	6
15	MP2B	Mx	.092	6
16	MP2B	X	123.954	2
17	MP2B	Z	0	2
18	MP2B	Mx	-.071	2
19	MP2B	X	123.954	6
20	MP2B	Z	0	6
21	MP2B	Mx	-.071	6
22	MP3A	X	106.114	2
23	MP3A	Z	0	2
24	MP3A	Mx	.005	2
25	MP3A	X	106.114	6
26	MP3A	Z	0	6
27	MP3A	Mx	.005	6
28	MP3A	X	106.114	2
29	MP3A	Z	0	2
30	MP3A	Mx	-.086	2
31	MP3A	X	106.114	6
32	MP3A	Z	0	6
33	MP3A	Mx	-.086	6
34	MP1A	X	79.959	1
35	MP1A	Z	0	1
36	MP1A	Mx	-.036	1
37	MP1A	X	79.959	5
38	MP1A	Z	0	5
39	MP1A	Mx	-.036	5
40	MP1B	X	86.407	1
41	MP1B	Z	0	1
42	MP1B	Mx	-.022	1
43	MP1B	X	86.407	5
44	MP1B	Z	0	5
45	MP1B	Mx	-.022	5
46	MP5A	X	79.959	1
47	MP5A	Z	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
48	MP5A	Mx	-.036	1
49	MP5A	X	79.959	5
50	MP5A	Z	0	5
51	MP5A	Mx	-.036	5
52	MP5B	X	86.407	1
53	MP5B	Z	0	1
54	MP5B	Mx	-.022	1
55	MP5B	X	86.407	5
56	MP5B	Z	0	5
57	MP5B	Mx	-.022	5
58	MP2A	X	38.126	3
59	MP2A	Z	0	3
60	MP2A	Mx	-.015	3
61	MP2B	X	46.862	3
62	MP2B	Z	0	3
63	MP2B	Mx	.004	3
64	MP4A	X	76.489	3
65	MP4A	Z	0	3
66	MP4A	Mx	-.029	3
67	MP4B	X	116.789	3
68	MP4B	Z	0	3
69	MP4B	Mx	.01	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	39.115	3
2	MP3A	Z	22.583	3
3	MP3A	Mx	-.008	3
4	MP3B	X	39.115	3
5	MP3B	Z	22.583	3
6	MP3B	Mx	-.008	3
7	MP4A	X	86.534	1
8	MP4A	Z	49.961	1
9	MP4A	Mx	-.017	1
10	MP2B	X	104.937	2
11	MP2B	Z	60.586	2
12	MP2B	Mx	.055	2
13	MP2B	X	104.937	6
14	MP2B	Z	60.586	6
15	MP2B	Mx	.055	6
16	MP2B	X	104.937	2
17	MP2B	Z	60.586	2
18	MP2B	Mx	-.097	2
19	MP2B	X	104.937	6
20	MP2B	Z	60.586	6
21	MP2B	Mx	-.097	6
22	MP3A	X	104.937	2
23	MP3A	Z	60.586	2
24	MP3A	Mx	.055	2
25	MP3A	X	104.937	6
26	MP3A	Z	60.586	6
27	MP3A	Mx	.055	6
28	MP3A	X	104.937	2
29	MP3A	Z	60.586	2
30	MP3A	Mx	-.097	2
31	MP3A	X	104.937	6
32	MP3A	Z	60.586	6
33	MP3A	Mx	-.097	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP1A	X	74.059	1
35	MP1A	Z	42.758	1
36	MP1A	Mx	-.025	1
37	MP1A	X	74.059	5
38	MP1A	Z	42.758	5
39	MP1A	Mx	-.025	5
40	MP1B	X	69.944	1
41	MP1B	Z	40.382	1
42	MP1B	Mx	-.035	1
43	MP1B	X	69.944	5
44	MP1B	Z	40.382	5
45	MP1B	Mx	-.035	5
46	MP5A	X	74.059	1
47	MP5A	Z	42.758	1
48	MP5A	Mx	-.025	1
49	MP5A	X	74.059	5
50	MP5A	Z	42.758	5
51	MP5A	Mx	-.025	5
52	MP5B	X	69.944	1
53	MP5B	Z	40.382	1
54	MP5B	Mx	-.035	1
55	MP5B	X	69.944	5
56	MP5B	Z	40.382	5
57	MP5B	Mx	-.035	5
58	MP2A	X	39.404	3
59	MP2A	Z	22.75	3
60	MP2A	Mx	-.008	3
61	MP2B	X	39.404	3
62	MP2B	Z	22.75	3
63	MP2B	Mx	-.008	3
64	MP4A	X	95.698	3
65	MP4A	Z	55.251	3
66	MP4A	Mx	-.019	3
67	MP4B	X	95.698	3
68	MP4B	Z	55.251	3
69	MP4B	Mx	-.019	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	23.388	3
2	MP3A	Z	40.51	3
3	MP3A	Mx	.004	3
4	MP3B	X	18.227	3
5	MP3B	Z	31.571	3
6	MP3B	Mx	-.014	3
7	MP4A	X	51.018	1
8	MP4A	Z	88.366	1
9	MP4A	Mx	.009	1
10	MP2B	X	53.057	2
11	MP2B	Z	91.898	2
12	MP2B	Mx	.005	2
13	MP2B	X	53.057	6
14	MP2B	Z	91.898	6
15	MP2B	Mx	.005	6
16	MP2B	X	53.057	2
17	MP2B	Z	91.898	2
18	MP2B	Mx	-.086	2
19	MP2B	X	53.057	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2B	Z	91.898	6
21	MP2B	Mx	-.086	6
22	MP3A	X	61.977	2
23	MP3A	Z	107.347	2
24	MP3A	Mx	.092	2
25	MP3A	X	61.977	6
26	MP3A	Z	107.347	6
27	MP3A	Mx	.092	6
28	MP3A	X	61.977	2
29	MP3A	Z	107.347	2
30	MP3A	Mx	-.071	2
31	MP3A	X	61.977	6
32	MP3A	Z	107.347	6
33	MP3A	Mx	-.071	6
34	MP1A	X	44.571	1
35	MP1A	Z	77.2	1
36	MP1A	Mx	-.004	1
37	MP1A	X	44.571	5
38	MP1A	Z	77.2	5
39	MP1A	Mx	-.004	5
40	MP1B	X	38.972	1
41	MP1B	Z	67.501	1
42	MP1B	Mx	-.039	1
43	MP1B	X	38.972	5
44	MP1B	Z	67.501	5
45	MP1B	Mx	-.039	5
46	MP5A	X	44.571	1
47	MP5A	Z	77.2	1
48	MP5A	Mx	-.004	1
49	MP5A	X	44.571	5
50	MP5A	Z	77.2	5
51	MP5A	Mx	-.004	5
52	MP5B	X	38.972	1
53	MP5B	Z	67.501	1
54	MP5B	Mx	-.039	1
55	MP5B	X	38.972	5
56	MP5B	Z	67.501	5
57	MP5B	Mx	-.039	5
58	MP2A	X	23.431	3
59	MP2A	Z	40.584	3
60	MP2A	Mx	.004	3
61	MP2B	X	19.063	3
62	MP2B	Z	33.018	3
63	MP2B	Mx	-.015	3
64	MP4A	X	58.394	3
65	MP4A	Z	101.142	3
66	MP4A	Mx	.01	3
67	MP4B	X	38.244	3
68	MP4B	Z	66.241	3
69	MP4B	Mx	-.029	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	39.674	3
3	MP3A	Mx	.013	3
4	MP3B	X	0	3
5	MP3B	Z	29.353	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP3B	Mx	-.014	3
7	MP4A	X	0	1
8	MP4A	Z	92.705	1
9	MP4A	Mx	.03	1
10	MP2B	X	0	2
11	MP2B	Z	93.84	2
12	MP2B	Mx	-.035	2
13	MP2B	X	0	6
14	MP2B	Z	93.84	6
15	MP2B	Mx	-.035	6
16	MP2B	X	0	2
17	MP2B	Z	93.84	2
18	MP2B	Mx	-.057	2
19	MP2B	X	0	6
20	MP2B	Z	93.84	6
21	MP2B	Mx	-.057	6
22	MP3A	X	0	2
23	MP3A	Z	111.679	2
24	MP3A	Mx	.093	2
25	MP3A	X	0	6
26	MP3A	Z	111.679	6
27	MP3A	Mx	.093	6
28	MP3A	X	0	2
29	MP3A	Z	111.679	2
30	MP3A	Mx	-.021	2
31	MP3A	X	0	6
32	MP3A	Z	111.679	6
33	MP3A	Mx	-.021	6
34	MP1A	X	0	1
35	MP1A	Z	87.213	1
36	MP1A	Mx	.018	1
37	MP1A	X	0	5
38	MP1A	Z	87.213	5
39	MP1A	Mx	.018	5
40	MP1B	X	0	1
41	MP1B	Z	80.765	1
42	MP1B	Mx	-.035	1
43	MP1B	X	0	5
44	MP1B	Z	80.765	5
45	MP1B	Mx	-.035	5
46	MP5A	X	0	1
47	MP5A	Z	87.213	1
48	MP5A	Mx	.018	1
49	MP5A	X	0	5
50	MP5A	Z	87.213	5
51	MP5A	Mx	.018	5
52	MP5B	X	0	1
53	MP5B	Z	80.765	1
54	MP5B	Mx	-.035	1
55	MP5B	X	0	5
56	MP5B	Z	80.765	5
57	MP5B	Mx	-.035	5
58	MP2A	X	0	3
59	MP2A	Z	40.851	3
60	MP2A	Mx	.013	3
61	MP2B	X	0	3
62	MP2B	Z	32.115	3
63	MP2B	Mx	-.016	3
64	MP4A	X	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
65	MP4A	Z	89.06	3
66	MP4A	Mx	.029	3
67	MP4B	X	0	3
68	MP4B	Z	48.76	3
69	MP4B	Mx	-.024	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-15.481	3
2	MP3A	Z	26.814	3
3	MP3A	Mx	.015	3
4	MP3B	X	-15.481	3
5	MP3B	Z	26.814	3
6	MP3B	Mx	-.015	3
7	MP4A	X	-40.629	1
8	MP4A	Z	70.371	1
9	MP4A	Mx	.038	1
10	MP2B	X	-48.311	2
11	MP2B	Z	83.677	2
12	MP2B	Mx	-.067	2
13	MP2B	X	-48.311	6
14	MP2B	Z	83.677	6
15	MP2B	Mx	-.067	6
16	MP2B	X	-48.311	2
17	MP2B	Z	83.677	2
18	MP2B	Mx	-.023	2
19	MP2B	X	-48.311	6
20	MP2B	Z	83.677	6
21	MP2B	Mx	-.023	6
22	MP3A	X	-48.311	2
23	MP3A	Z	83.677	2
24	MP3A	Mx	.067	2
25	MP3A	X	-48.311	6
26	MP3A	Z	83.677	6
27	MP3A	Mx	.067	6
28	MP3A	X	-48.311	2
29	MP3A	Z	83.677	2
30	MP3A	Mx	.023	2
31	MP3A	X	-48.311	6
32	MP3A	Z	83.677	6
33	MP3A	Mx	.023	6
34	MP1A	X	-40.828	1
35	MP1A	Z	70.716	1
36	MP1A	Mx	.033	1
37	MP1A	X	-40.828	5
38	MP1A	Z	70.716	5
39	MP1A	Mx	.033	5
40	MP1B	X	-43.204	1
41	MP1B	Z	74.831	1
42	MP1B	Mx	-.022	1
43	MP1B	X	-43.204	5
44	MP1B	Z	74.831	5
45	MP1B	Mx	-.022	5
46	MP5A	X	-40.828	1
47	MP5A	Z	70.716	1
48	MP5A	Mx	.033	1
49	MP5A	X	-40.828	5
50	MP5A	Z	70.716	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP5A	Mx	.033	5
52	MP5B	X	-43.204	1
53	MP5B	Z	74.831	1
54	MP5B	Mx	-.022	1
55	MP5B	X	-43.204	5
56	MP5B	Z	74.831	5
57	MP5B	Mx	-.022	5
58	MP2A	X	-16.739	3
59	MP2A	Z	28.992	3
60	MP2A	Mx	.016	3
61	MP2B	X	-16.739	3
62	MP2B	Z	28.992	3
63	MP2B	Mx	-.016	3
64	MP4A	X	-27.523	3
65	MP4A	Z	47.671	3
66	MP4A	Mx	.026	3
67	MP4B	X	-27.523	3
68	MP4B	Z	47.671	3
69	MP4B	Mx	-.026	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-25.42	3
2	MP3A	Z	14.676	3
3	MP3A	Mx	.014	3
4	MP3B	X	-34.359	3
5	MP3B	Z	19.837	3
6	MP3B	Mx	-.013	3
7	MP4A	X	-68.539	1
8	MP4A	Z	39.571	1
9	MP4A	Mx	.039	1
10	MP2B	X	-96.717	2
11	MP2B	Z	55.84	2
12	MP2B	Mx	-.093	2
13	MP2B	X	-96.717	6
14	MP2B	Z	55.84	6
15	MP2B	Mx	-.093	6
16	MP2B	X	-96.717	2
17	MP2B	Z	55.84	2
18	MP2B	Mx	.021	2
19	MP2B	X	-96.717	6
20	MP2B	Z	55.84	6
21	MP2B	Mx	.021	6
22	MP3A	X	-81.267	2
23	MP3A	Z	46.92	2
24	MP3A	Mx	.035	2
25	MP3A	X	-81.267	6
26	MP3A	Z	46.92	6
27	MP3A	Mx	.035	6
28	MP3A	X	-81.267	2
29	MP3A	Z	46.92	2
30	MP3A	Mx	.057	2
31	MP3A	X	-81.267	6
32	MP3A	Z	46.92	6
33	MP3A	Mx	.057	6
34	MP1A	X	-67.575	1
35	MP1A	Z	39.014	1
36	MP1A	Mx	.039	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
37	MP1A	X	-67.575	5
38	MP1A	Z	39.014	5
39	MP1A	Mx	.039	5
40	MP1B	X	-77.274	1
41	MP1B	Z	44.614	1
42	MP1B	Mx	0	1
43	MP1B	X	-77.274	5
44	MP1B	Z	44.614	5
45	MP1B	Mx	0	5
46	MP5A	X	-67.575	1
47	MP5A	Z	39.014	1
48	MP5A	Mx	.039	1
49	MP5A	X	-67.575	5
50	MP5A	Z	39.014	5
51	MP5A	Mx	.039	5
52	MP5B	X	-77.274	1
53	MP5B	Z	44.614	1
54	MP5B	Mx	0	1
55	MP5B	X	-77.274	5
56	MP5B	Z	44.614	5
57	MP5B	Mx	0	5
58	MP2A	X	-27.812	3
59	MP2A	Z	16.057	3
60	MP2A	Mx	.016	3
61	MP2B	X	-35.378	3
62	MP2B	Z	20.426	3
63	MP2B	Mx	-.013	3
64	MP4A	X	-42.227	3
65	MP4A	Z	24.38	3
66	MP4A	Mx	.024	3
67	MP4B	X	-77.128	3
68	MP4B	Z	44.53	3
69	MP4B	Mx	-.029	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-36.455	3
2	MP3A	Z	0	3
3	MP3A	Mx	.014	3
4	MP3B	X	-46.776	3
5	MP3B	Z	0	3
6	MP3B	Mx	-.004	3
7	MP4A	X	-88.474	1
8	MP4A	Z	0	1
9	MP4A	Mx	.034	1
10	MP2B	X	-123.954	2
11	MP2B	Z	0	2
12	MP2B	Mx	-.092	2
13	MP2B	X	-123.954	6
14	MP2B	Z	0	6
15	MP2B	Mx	-.092	6
16	MP2B	X	-123.954	2
17	MP2B	Z	0	2
18	MP2B	Mx	.071	2
19	MP2B	X	-123.954	6
20	MP2B	Z	0	6
21	MP2B	Mx	.071	6
22	MP3A	X	-106.114	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP3A	Z	0	2
24	MP3A	Mx	-.005	2
25	MP3A	X	-106.114	6
26	MP3A	Z	0	6
27	MP3A	Mx	-.005	6
28	MP3A	X	-106.114	2
29	MP3A	Z	0	2
30	MP3A	Mx	.086	2
31	MP3A	X	-106.114	6
32	MP3A	Z	0	6
33	MP3A	Mx	.086	6
34	MP1A	X	-79.959	1
35	MP1A	Z	0	1
36	MP1A	Mx	.036	1
37	MP1A	X	-79.959	5
38	MP1A	Z	0	5
39	MP1A	Mx	.036	5
40	MP1B	X	-86.407	1
41	MP1B	Z	0	1
42	MP1B	Mx	.022	1
43	MP1B	X	-86.407	5
44	MP1B	Z	0	5
45	MP1B	Mx	.022	5
46	MP5A	X	-79.959	1
47	MP5A	Z	0	1
48	MP5A	Mx	.036	1
49	MP5A	X	-79.959	5
50	MP5A	Z	0	5
51	MP5A	Mx	.036	5
52	MP5B	X	-86.407	1
53	MP5B	Z	0	1
54	MP5B	Mx	.022	1
55	MP5B	X	-86.407	5
56	MP5B	Z	0	5
57	MP5B	Mx	.022	5
58	MP2A	X	-38.126	3
59	MP2A	Z	0	3
60	MP2A	Mx	.015	3
61	MP2B	X	-46.862	3
62	MP2B	Z	0	3
63	MP2B	Mx	-.004	3
64	MP4A	X	-76.489	3
65	MP4A	Z	0	3
66	MP4A	Mx	.029	3
67	MP4B	X	-116.789	3
68	MP4B	Z	0	3
69	MP4B	Mx	-.01	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-39.115	3
2	MP3A	Z	-22.583	3
3	MP3A	Mx	.008	3
4	MP3B	X	-39.115	3
5	MP3B	Z	-22.583	3
6	MP3B	Mx	.008	3
7	MP4A	X	-86.534	1
8	MP4A	Z	-49.961	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP4A	Mx	.017	1
10	MP2B	X	-104.937	2
11	MP2B	Z	-60.586	2
12	MP2B	Mx	-.055	2
13	MP2B	X	-104.937	6
14	MP2B	Z	-60.586	6
15	MP2B	Mx	-.055	6
16	MP2B	X	-104.937	2
17	MP2B	Z	-60.586	2
18	MP2B	Mx	.097	2
19	MP2B	X	-104.937	6
20	MP2B	Z	-60.586	6
21	MP2B	Mx	.097	6
22	MP3A	X	-104.937	2
23	MP3A	Z	-60.586	2
24	MP3A	Mx	-.055	2
25	MP3A	X	-104.937	6
26	MP3A	Z	-60.586	6
27	MP3A	Mx	-.055	6
28	MP3A	X	-104.937	2
29	MP3A	Z	-60.586	2
30	MP3A	Mx	.097	2
31	MP3A	X	-104.937	6
32	MP3A	Z	-60.586	6
33	MP3A	Mx	.097	6
34	MP1A	X	-74.059	1
35	MP1A	Z	-42.758	1
36	MP1A	Mx	.025	1
37	MP1A	X	-74.059	5
38	MP1A	Z	-42.758	5
39	MP1A	Mx	.025	5
40	MP1B	X	-69.944	1
41	MP1B	Z	-40.382	1
42	MP1B	Mx	.035	1
43	MP1B	X	-69.944	5
44	MP1B	Z	-40.382	5
45	MP1B	Mx	.035	5
46	MP5A	X	-74.059	1
47	MP5A	Z	-42.758	1
48	MP5A	Mx	.025	1
49	MP5A	X	-74.059	5
50	MP5A	Z	-42.758	5
51	MP5A	Mx	.025	5
52	MP5B	X	-69.944	1
53	MP5B	Z	-40.382	1
54	MP5B	Mx	.035	1
55	MP5B	X	-69.944	5
56	MP5B	Z	-40.382	5
57	MP5B	Mx	.035	5
58	MP2A	X	-39.404	3
59	MP2A	Z	-22.75	3
60	MP2A	Mx	.008	3
61	MP2B	X	-39.404	3
62	MP2B	Z	-22.75	3
63	MP2B	Mx	.008	3
64	MP4A	X	-95.698	3
65	MP4A	Z	-55.251	3
66	MP4A	Mx	.019	3
67	MP4B	X	-95.698	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP4B	Z	-55.251	3
69	MP4B	Mx	.019	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-23.388	3
2	MP3A	Z	-40.51	3
3	MP3A	Mx	-.004	3
4	MP3B	X	-18.227	3
5	MP3B	Z	-31.571	3
6	MP3B	Mx	.014	3
7	MP4A	X	-51.018	1
8	MP4A	Z	-88.366	1
9	MP4A	Mx	-.009	1
10	MP2B	X	-53.057	2
11	MP2B	Z	-91.898	2
12	MP2B	Mx	-.005	2
13	MP2B	X	-53.057	6
14	MP2B	Z	-91.898	6
15	MP2B	Mx	-.005	6
16	MP2B	X	-53.057	2
17	MP2B	Z	-91.898	2
18	MP2B	Mx	.086	2
19	MP2B	X	-53.057	6
20	MP2B	Z	-91.898	6
21	MP2B	Mx	.086	6
22	MP3A	X	-61.977	2
23	MP3A	Z	-107.347	2
24	MP3A	Mx	-.092	2
25	MP3A	X	-61.977	6
26	MP3A	Z	-107.347	6
27	MP3A	Mx	-.092	6
28	MP3A	X	-61.977	2
29	MP3A	Z	-107.347	2
30	MP3A	Mx	.071	2
31	MP3A	X	-61.977	6
32	MP3A	Z	-107.347	6
33	MP3A	Mx	.071	6
34	MP1A	X	-44.571	1
35	MP1A	Z	-77.2	1
36	MP1A	Mx	.004	1
37	MP1A	X	-44.571	5
38	MP1A	Z	-77.2	5
39	MP1A	Mx	.004	5
40	MP1B	X	-38.972	1
41	MP1B	Z	-67.501	1
42	MP1B	Mx	.039	1
43	MP1B	X	-38.972	5
44	MP1B	Z	-67.501	5
45	MP1B	Mx	.039	5
46	MP5A	X	-44.571	1
47	MP5A	Z	-77.2	1
48	MP5A	Mx	.004	1
49	MP5A	X	-44.571	5
50	MP5A	Z	-77.2	5
51	MP5A	Mx	.004	5
52	MP5B	X	-38.972	1
53	MP5B	Z	-67.501	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
54	MP5B	Mx	.039	1
55	MP5B	X	-38.972	5
56	MP5B	Z	-67.501	5
57	MP5B	Mx	.039	5
58	MP2A	X	-23.431	3
59	MP2A	Z	-40.584	3
60	MP2A	Mx	-.004	3
61	MP2B	X	-19.063	3
62	MP2B	Z	-33.018	3
63	MP2B	Mx	.015	3
64	MP4A	X	-58.394	3
65	MP4A	Z	-101.142	3
66	MP4A	Mx	-.01	3
67	MP4B	X	-38.244	3
68	MP4B	Z	-66.241	3
69	MP4B	Mx	.029	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	-8.995	3
3	MP3A	Mx	-.003	3
4	MP3B	X	0	3
5	MP3B	Z	-6.867	3
6	MP3B	Mx	.003	3
7	MP4A	X	0	1
8	MP4A	Z	-19.834	1
9	MP4A	Mx	-.006	1
10	MP2B	X	0	2
11	MP2B	Z	-19.525	2
12	MP2B	Mx	.007	2
13	MP2B	X	0	6
14	MP2B	Z	-19.525	6
15	MP2B	Mx	.007	6
16	MP2B	X	0	2
17	MP2B	Z	-19.525	2
18	MP2B	Mx	.012	2
19	MP2B	X	0	6
20	MP2B	Z	-19.525	6
21	MP2B	Mx	.012	6
22	MP3A	X	0	2
23	MP3A	Z	-23.008	2
24	MP3A	Mx	-.019	2
25	MP3A	X	0	6
26	MP3A	Z	-23.008	6
27	MP3A	Mx	-.019	6
28	MP3A	X	0	2
29	MP3A	Z	-23.008	2
30	MP3A	Mx	.004	2
31	MP3A	X	0	6
32	MP3A	Z	-23.008	6
33	MP3A	Mx	.004	6
34	MP1A	X	0	1
35	MP1A	Z	-18.246	1
36	MP1A	Mx	-.004	1
37	MP1A	X	0	5
38	MP1A	Z	-18.246	5
39	MP1A	Mx	-.004	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
40	MP1B	X	0	1
41	MP1B	Z	-17.082	1
42	MP1B	Mx	.007	1
43	MP1B	X	0	5
44	MP1B	Z	-17.082	5
45	MP1B	Mx	.007	5
46	MP5A	X	0	1
47	MP5A	Z	-18.246	1
48	MP5A	Mx	-.004	1
49	MP5A	X	0	5
50	MP5A	Z	-18.246	5
51	MP5A	Mx	-.004	5
52	MP5B	X	0	1
53	MP5B	Z	-17.082	1
54	MP5B	Mx	.007	1
55	MP5B	X	0	5
56	MP5B	Z	-17.082	5
57	MP5B	Mx	.007	5
58	MP2A	X	0	3
59	MP2A	Z	-9.236	3
60	MP2A	Mx	-.003	3
61	MP2B	X	0	3
62	MP2B	Z	-7.432	3
63	MP2B	Mx	.004	3
64	MP4A	X	0	3
65	MP4A	Z	-19.191	3
66	MP4A	Mx	-.006	3
67	MP4B	X	0	3
68	MP4B	Z	-11.104	3
69	MP4B	Mx	.005	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	3.599	3
2	MP3A	Z	-6.234	3
3	MP3A	Mx	-.003	3
4	MP3B	X	3.599	3
5	MP3B	Z	-6.234	3
6	MP3B	Mx	.003	3
7	MP4A	X	8.794	1
8	MP4A	Z	-15.231	1
9	MP4A	Mx	-.008	1
10	MP2B	X	10.034	2
11	MP2B	Z	-17.379	2
12	MP2B	Mx	.014	2
13	MP2B	X	10.034	6
14	MP2B	Z	-17.379	6
15	MP2B	Mx	.014	6
16	MP2B	X	10.034	2
17	MP2B	Z	-17.379	2
18	MP2B	Mx	.005	2
19	MP2B	X	10.034	6
20	MP2B	Z	-17.379	6
21	MP2B	Mx	.005	6
22	MP3A	X	10.034	2
23	MP3A	Z	-17.379	2
24	MP3A	Mx	-.014	2
25	MP3A	X	10.034	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
26	MP3A	Z	-17.379	6
27	MP3A	Mx	-.014	6
28	MP3A	X	10.034	2
29	MP3A	Z	-17.379	2
30	MP3A	Mx	-.005	2
31	MP3A	X	10.034	6
32	MP3A	Z	-17.379	6
33	MP3A	Mx	-.005	6
34	MP1A	X	8.621	1
35	MP1A	Z	-14.933	1
36	MP1A	Mx	-.007	1
37	MP1A	X	8.621	5
38	MP1A	Z	-14.933	5
39	MP1A	Mx	-.007	5
40	MP1B	X	9.05	1
41	MP1B	Z	-15.676	1
42	MP1B	Mx	.005	1
43	MP1B	X	9.05	5
44	MP1B	Z	-15.676	5
45	MP1B	Mx	.005	5
46	MP5A	X	8.621	1
47	MP5A	Z	-14.933	1
48	MP5A	Mx	-.007	1
49	MP5A	X	8.621	5
50	MP5A	Z	-14.933	5
51	MP5A	Mx	-.007	5
52	MP5B	X	9.05	1
53	MP5B	Z	-15.676	1
54	MP5B	Mx	.005	1
55	MP5B	X	9.05	5
56	MP5B	Z	-15.676	5
57	MP5B	Mx	.005	5
58	MP2A	X	3.857	3
59	MP2A	Z	-6.68	3
60	MP2A	Mx	-.004	3
61	MP2B	X	3.857	3
62	MP2B	Z	-6.68	3
63	MP2B	Mx	.004	3
64	MP4A	X	6.183	3
65	MP4A	Z	-10.709	3
66	MP4A	Mx	-.006	3
67	MP4B	X	6.183	3
68	MP4B	Z	-10.709	3
69	MP4B	Mx	.006	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	5.947	3
2	MP3A	Z	-3.433	3
3	MP3A	Mx	-.003	3
4	MP3B	X	7.79	3
5	MP3B	Z	-4.498	3
6	MP3B	Mx	.003	3
7	MP4A	X	14.871	1
8	MP4A	Z	-8.586	1
9	MP4A	Mx	-.008	1
10	MP2B	X	19.925	2
11	MP2B	Z	-11.504	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP2B	Mx	.019	2
13	MP2B	X	19.925	6
14	MP2B	Z	-11.504	6
15	MP2B	Mx	.019	6
16	MP2B	X	19.925	2
17	MP2B	Z	-11.504	2
18	MP2B	Mx	-.004	2
19	MP2B	X	19.925	6
20	MP2B	Z	-11.504	6
21	MP2B	Mx	-.004	6
22	MP3A	X	16.909	2
23	MP3A	Z	-9.762	2
24	MP3A	Mx	-.007	2
25	MP3A	X	16.909	6
26	MP3A	Z	-9.762	6
27	MP3A	Mx	-.007	6
28	MP3A	X	16.909	2
29	MP3A	Z	-9.762	2
30	MP3A	Mx	-.012	2
31	MP3A	X	16.909	6
32	MP3A	Z	-9.762	6
33	MP3A	Mx	-.012	6
34	MP1A	X	14.366	1
35	MP1A	Z	-8.294	1
36	MP1A	Mx	-.008	1
37	MP1A	X	14.366	5
38	MP1A	Z	-8.294	5
39	MP1A	Mx	-.008	5
40	MP1B	X	16.117	1
41	MP1B	Z	-9.305	1
42	MP1B	Mx	0	1
43	MP1B	X	16.117	5
44	MP1B	Z	-9.305	5
45	MP1B	Mx	0	5
46	MP5A	X	14.366	1
47	MP5A	Z	-8.294	1
48	MP5A	Mx	-.008	1
49	MP5A	X	14.366	5
50	MP5A	Z	-8.294	5
51	MP5A	Mx	-.008	5
52	MP5B	X	16.117	1
53	MP5B	Z	-9.305	1
54	MP5B	Mx	0	1
55	MP5B	X	16.117	5
56	MP5B	Z	-9.305	5
57	MP5B	Mx	0	5
58	MP2A	X	6.437	3
59	MP2A	Z	-3.716	3
60	MP2A	Mx	-.004	3
61	MP2B	X	7.999	3
62	MP2B	Z	-4.618	3
63	MP2B	Mx	.003	3
64	MP4A	X	9.617	3
65	MP4A	Z	-5.552	3
66	MP4A	Mx	-.005	3
67	MP4B	X	16.62	3
68	MP4B	Z	-9.596	3
69	MP4B	Mx	.006	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	8.331	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.003	3
4	MP3B	X	10.459	3
5	MP3B	Z	0	3
6	MP3B	Mx	.000908	3
7	MP4A	X	19.004	1
8	MP4A	Z	0	1
9	MP4A	Mx	-.007	1
10	MP2B	X	25.404	2
11	MP2B	Z	0	2
12	MP2B	Mx	.019	2
13	MP2B	X	25.404	6
14	MP2B	Z	0	6
15	MP2B	Mx	.019	6
16	MP2B	X	25.404	2
17	MP2B	Z	0	2
18	MP2B	Mx	-.014	2
19	MP2B	X	25.404	6
20	MP2B	Z	0	6
21	MP2B	Mx	-.014	6
22	MP3A	X	21.921	2
23	MP3A	Z	0	2
24	MP3A	Mx	.000997	2
25	MP3A	X	21.921	6
26	MP3A	Z	0	6
27	MP3A	Mx	.000997	6
28	MP3A	X	21.921	2
29	MP3A	Z	0	2
30	MP3A	Mx	-.018	2
31	MP3A	X	21.921	6
32	MP3A	Z	0	6
33	MP3A	Mx	-.018	6
34	MP1A	X	16.937	1
35	MP1A	Z	0	1
36	MP1A	Mx	-.008	1
37	MP1A	X	16.937	5
38	MP1A	Z	0	5
39	MP1A	Mx	-.008	5
40	MP1B	X	18.101	1
41	MP1B	Z	0	1
42	MP1B	Mx	-.005	1
43	MP1B	X	18.101	5
44	MP1B	Z	0	5
45	MP1B	Mx	-.005	5
46	MP5A	X	16.937	1
47	MP5A	Z	0	1
48	MP5A	Mx	-.008	1
49	MP5A	X	16.937	5
50	MP5A	Z	0	5
51	MP5A	Mx	-.008	5
52	MP5B	X	18.101	1
53	MP5B	Z	0	1
54	MP5B	Mx	-.005	1
55	MP5B	X	18.101	5
56	MP5B	Z	0	5
57	MP5B	Mx	-.005	5
58	MP2A	X	8.673	3
59	MP2A	Z	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
60	MP2A	Mx	-.003	3
61	MP2B	X	10.477	3
62	MP2B	Z	0	3
63	MP2B	Mx	.00091	3
64	MP4A	X	16.669	3
65	MP4A	Z	0	3
66	MP4A	Mx	-.006	3
67	MP4B	X	24.756	3
68	MP4B	Z	0	3
69	MP4B	Mx	.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	8.771	3
2	MP3A	Z	5.064	3
3	MP3A	Mx	-.002	3
4	MP3B	X	8.771	3
5	MP3B	Z	5.064	3
6	MP3B	Mx	-.002	3
7	MP4A	X	18.404	1
8	MP4A	Z	10.625	1
9	MP4A	Mx	-.004	1
10	MP2B	X	21.53	2
11	MP2B	Z	12.431	2
12	MP2B	Mx	.011	2
13	MP2B	X	21.53	6
14	MP2B	Z	12.431	6
15	MP2B	Mx	.011	6
16	MP2B	X	21.53	2
17	MP2B	Z	12.431	2
18	MP2B	Mx	-.02	2
19	MP2B	X	21.53	6
20	MP2B	Z	12.431	6
21	MP2B	Mx	-.02	6
22	MP3A	X	21.53	2
23	MP3A	Z	12.431	2
24	MP3A	Mx	.011	2
25	MP3A	X	21.53	6
26	MP3A	Z	12.431	6
27	MP3A	Mx	.011	6
28	MP3A	X	21.53	2
29	MP3A	Z	12.431	2
30	MP3A	Mx	-.02	2
31	MP3A	X	21.53	6
32	MP3A	Z	12.431	6
33	MP3A	Mx	-.02	6
34	MP1A	X	15.536	1
35	MP1A	Z	8.97	1
36	MP1A	Mx	-.005	1
37	MP1A	X	15.536	5
38	MP1A	Z	8.97	5
39	MP1A	Mx	-.005	5
40	MP1B	X	14.794	1
41	MP1B	Z	8.541	1
42	MP1B	Mx	-.007	1
43	MP1B	X	14.794	5
44	MP1B	Z	8.541	5
45	MP1B	Mx	-.007	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP5A	X	15.536	1
47	MP5A	Z	8.97	1
48	MP5A	Mx	-.005	1
49	MP5A	X	15.536	5
50	MP5A	Z	8.97	5
51	MP5A	Mx	-.005	5
52	MP5B	X	14.794	1
53	MP5B	Z	8.541	1
54	MP5B	Mx	-.007	1
55	MP5B	X	14.794	5
56	MP5B	Z	8.541	5
57	MP5B	Mx	-.007	5
58	MP2A	X	8.83	3
59	MP2A	Z	5.098	3
60	MP2A	Mx	-.002	3
61	MP2B	X	8.83	3
62	MP2B	Z	5.098	3
63	MP2B	Mx	-.002	3
64	MP4A	X	20.347	3
65	MP4A	Z	11.747	3
66	MP4A	Mx	-.004	3
67	MP4B	X	20.347	3
68	MP4B	Z	11.747	3
69	MP4B	Mx	-.004	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	5.23	3
2	MP3A	Z	9.058	3
3	MP3A	Mx	.000908	3
4	MP3B	X	4.166	3
5	MP3B	Z	7.215	3
6	MP3B	Mx	-.003	3
7	MP4A	X	10.833	1
8	MP4A	Z	18.763	1
9	MP4A	Mx	.002	1
10	MP2B	X	10.961	2
11	MP2B	Z	18.984	2
12	MP2B	Mx	.000998	2
13	MP2B	X	10.961	6
14	MP2B	Z	18.984	6
15	MP2B	Mx	.000998	6
16	MP2B	X	10.961	2
17	MP2B	Z	18.984	2
18	MP2B	Mx	-.018	2
19	MP2B	X	10.961	6
20	MP2B	Z	18.984	6
21	MP2B	Mx	-.018	6
22	MP3A	X	12.702	2
23	MP3A	Z	22.001	2
24	MP3A	Mx	.019	2
25	MP3A	X	12.702	6
26	MP3A	Z	22.001	6
27	MP3A	Mx	.019	6
28	MP3A	X	12.702	2
29	MP3A	Z	22.001	2
30	MP3A	Mx	-.014	2
31	MP3A	X	12.702	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP3A	Z	22.001	6
33	MP3A	Mx	-.014	6
34	MP1A	X	9.297	1
35	MP1A	Z	16.103	1
36	MP1A	Mx	-.00081	1
37	MP1A	X	9.297	5
38	MP1A	Z	16.103	5
39	MP1A	Mx	-.00081	5
40	MP1B	X	8.286	1
41	MP1B	Z	14.352	1
42	MP1B	Mx	-.008	1
43	MP1B	X	8.286	5
44	MP1B	Z	14.352	5
45	MP1B	Mx	-.008	5
46	MP5A	X	9.297	1
47	MP5A	Z	16.103	1
48	MP5A	Mx	-.00081	1
49	MP5A	X	9.297	5
50	MP5A	Z	16.103	5
51	MP5A	Mx	-.00081	5
52	MP5B	X	8.286	1
53	MP5B	Z	14.352	1
54	MP5B	Mx	-.008	1
55	MP5B	X	8.286	5
56	MP5B	Z	14.352	5
57	MP5B	Mx	-.008	5
58	MP2A	X	5.239	3
59	MP2A	Z	9.073	3
60	MP2A	Mx	.000909	3
61	MP2B	X	4.337	3
62	MP2B	Z	7.511	3
63	MP2B	Mx	-.003	3
64	MP4A	X	12.378	3
65	MP4A	Z	21.439	3
66	MP4A	Mx	.002	3
67	MP4B	X	8.334	3
68	MP4B	Z	14.436	3
69	MP4B	Mx	-.006	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	8.995	3
3	MP3A	Mx	.003	3
4	MP3B	X	0	3
5	MP3B	Z	6.867	3
6	MP3B	Mx	-.003	3
7	MP4A	X	0	1
8	MP4A	Z	19.834	1
9	MP4A	Mx	.006	1
10	MP2B	X	0	2
11	MP2B	Z	19.525	2
12	MP2B	Mx	-.007	2
13	MP2B	X	0	6
14	MP2B	Z	19.525	6
15	MP2B	Mx	-.007	6
16	MP2B	X	0	2
17	MP2B	Z	19.525	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	MP2B	Mx	-.012	2
19	MP2B	X	0	6
20	MP2B	Z	19.525	6
21	MP2B	Mx	-.012	6
22	MP3A	X	0	2
23	MP3A	Z	23.008	2
24	MP3A	Mx	.019	2
25	MP3A	X	0	6
26	MP3A	Z	23.008	6
27	MP3A	Mx	.019	6
28	MP3A	X	0	2
29	MP3A	Z	23.008	2
30	MP3A	Mx	-.004	2
31	MP3A	X	0	6
32	MP3A	Z	23.008	6
33	MP3A	Mx	-.004	6
34	MP1A	X	0	1
35	MP1A	Z	18.246	1
36	MP1A	Mx	.004	1
37	MP1A	X	0	5
38	MP1A	Z	18.246	5
39	MP1A	Mx	.004	5
40	MP1B	X	0	1
41	MP1B	Z	17.082	1
42	MP1B	Mx	-.007	1
43	MP1B	X	0	5
44	MP1B	Z	17.082	5
45	MP1B	Mx	-.007	5
46	MP5A	X	0	1
47	MP5A	Z	18.246	1
48	MP5A	Mx	.004	1
49	MP5A	X	0	5
50	MP5A	Z	18.246	5
51	MP5A	Mx	.004	5
52	MP5B	X	0	1
53	MP5B	Z	17.082	1
54	MP5B	Mx	-.007	1
55	MP5B	X	0	5
56	MP5B	Z	17.082	5
57	MP5B	Mx	-.007	5
58	MP2A	X	0	3
59	MP2A	Z	9.236	3
60	MP2A	Mx	.003	3
61	MP2B	X	0	3
62	MP2B	Z	7.432	3
63	MP2B	Mx	-.004	3
64	MP4A	X	0	3
65	MP4A	Z	19.191	3
66	MP4A	Mx	.006	3
67	MP4B	X	0	3
68	MP4B	Z	11.104	3
69	MP4B	Mx	-.005	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-3.599	3
2	MP3A	Z	6.234	3
3	MP3A	Mx	.003	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
4	MP3B	X	-3.599	3
5	MP3B	Z	6.234	3
6	MP3B	Mx	-.003	3
7	MP4A	X	-8.794	1
8	MP4A	Z	15.231	1
9	MP4A	Mx	.008	1
10	MP2B	X	-10.034	2
11	MP2B	Z	17.379	2
12	MP2B	Mx	-.014	2
13	MP2B	X	-10.034	6
14	MP2B	Z	17.379	6
15	MP2B	Mx	-.014	6
16	MP2B	X	-10.034	2
17	MP2B	Z	17.379	2
18	MP2B	Mx	-.005	2
19	MP2B	X	-10.034	6
20	MP2B	Z	17.379	6
21	MP2B	Mx	-.005	6
22	MP3A	X	-10.034	2
23	MP3A	Z	17.379	2
24	MP3A	Mx	.014	2
25	MP3A	X	-10.034	6
26	MP3A	Z	17.379	6
27	MP3A	Mx	.014	6
28	MP3A	X	-10.034	2
29	MP3A	Z	17.379	2
30	MP3A	Mx	.005	2
31	MP3A	X	-10.034	6
32	MP3A	Z	17.379	6
33	MP3A	Mx	.005	6
34	MP1A	X	-8.621	1
35	MP1A	Z	14.933	1
36	MP1A	Mx	.007	1
37	MP1A	X	-8.621	5
38	MP1A	Z	14.933	5
39	MP1A	Mx	.007	5
40	MP1B	X	-9.05	1
41	MP1B	Z	15.676	1
42	MP1B	Mx	-.005	1
43	MP1B	X	-9.05	5
44	MP1B	Z	15.676	5
45	MP1B	Mx	-.005	5
46	MP5A	X	-8.621	1
47	MP5A	Z	14.933	1
48	MP5A	Mx	.007	1
49	MP5A	X	-8.621	5
50	MP5A	Z	14.933	5
51	MP5A	Mx	.007	5
52	MP5B	X	-9.05	1
53	MP5B	Z	15.676	1
54	MP5B	Mx	-.005	1
55	MP5B	X	-9.05	5
56	MP5B	Z	15.676	5
57	MP5B	Mx	-.005	5
58	MP2A	X	-3.857	3
59	MP2A	Z	6.68	3
60	MP2A	Mx	.004	3
61	MP2B	X	-3.857	3
62	MP2B	Z	6.68	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP2B	Mx	-.004	3
64	MP4A	X	-6.183	3
65	MP4A	Z	10.709	3
66	MP4A	Mx	.006	3
67	MP4B	X	-6.183	3
68	MP4B	Z	10.709	3
69	MP4B	Mx	-.006	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-5.947	3
2	MP3A	Z	3.433	3
3	MP3A	Mx	.003	3
4	MP3B	X	-7.79	3
5	MP3B	Z	4.498	3
6	MP3B	Mx	-.003	3
7	MP4A	X	-14.871	1
8	MP4A	Z	8.586	1
9	MP4A	Mx	.008	1
10	MP2B	X	-19.925	2
11	MP2B	Z	11.504	2
12	MP2B	Mx	-.019	2
13	MP2B	X	-19.925	6
14	MP2B	Z	11.504	6
15	MP2B	Mx	-.019	6
16	MP2B	X	-19.925	2
17	MP2B	Z	11.504	2
18	MP2B	Mx	.004	2
19	MP2B	X	-19.925	6
20	MP2B	Z	11.504	6
21	MP2B	Mx	.004	6
22	MP3A	X	-16.909	2
23	MP3A	Z	9.762	2
24	MP3A	Mx	.007	2
25	MP3A	X	-16.909	6
26	MP3A	Z	9.762	6
27	MP3A	Mx	.007	6
28	MP3A	X	-16.909	2
29	MP3A	Z	9.762	2
30	MP3A	Mx	.012	2
31	MP3A	X	-16.909	6
32	MP3A	Z	9.762	6
33	MP3A	Mx	.012	6
34	MP1A	X	-14.366	1
35	MP1A	Z	8.294	1
36	MP1A	Mx	.008	1
37	MP1A	X	-14.366	5
38	MP1A	Z	8.294	5
39	MP1A	Mx	.008	5
40	MP1B	X	-16.117	1
41	MP1B	Z	9.305	1
42	MP1B	Mx	0	1
43	MP1B	X	-16.117	5
44	MP1B	Z	9.305	5
45	MP1B	Mx	0	5
46	MP5A	X	-14.366	1
47	MP5A	Z	8.294	1
48	MP5A	Mx	.008	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
49	MP5A	X	-14.366	5
50	MP5A	Z	8.294	5
51	MP5A	Mx	.008	5
52	MP5B	X	-16.117	1
53	MP5B	Z	9.305	1
54	MP5B	Mx	0	1
55	MP5B	X	-16.117	5
56	MP5B	Z	9.305	5
57	MP5B	Mx	0	5
58	MP2A	X	-6.437	3
59	MP2A	Z	3.716	3
60	MP2A	Mx	.004	3
61	MP2B	X	-7.999	3
62	MP2B	Z	4.618	3
63	MP2B	Mx	-.003	3
64	MP4A	X	-9.617	3
65	MP4A	Z	5.552	3
66	MP4A	Mx	.005	3
67	MP4B	X	-16.62	3
68	MP4B	Z	9.596	3
69	MP4B	Mx	-.006	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-8.331	3
2	MP3A	Z	0	3
3	MP3A	Mx	.003	3
4	MP3B	X	-10.459	3
5	MP3B	Z	0	3
6	MP3B	Mx	-.000908	3
7	MP4A	X	-19.004	1
8	MP4A	Z	0	1
9	MP4A	Mx	.007	1
10	MP2B	X	-25.404	2
11	MP2B	Z	0	2
12	MP2B	Mx	-.019	2
13	MP2B	X	-25.404	6
14	MP2B	Z	0	6
15	MP2B	Mx	-.019	6
16	MP2B	X	-25.404	2
17	MP2B	Z	0	2
18	MP2B	Mx	.014	2
19	MP2B	X	-25.404	6
20	MP2B	Z	0	6
21	MP2B	Mx	.014	6
22	MP3A	X	-21.921	2
23	MP3A	Z	0	2
24	MP3A	Mx	-.000997	2
25	MP3A	X	-21.921	6
26	MP3A	Z	0	6
27	MP3A	Mx	-.000997	6
28	MP3A	X	-21.921	2
29	MP3A	Z	0	2
30	MP3A	Mx	.018	2
31	MP3A	X	-21.921	6
32	MP3A	Z	0	6
33	MP3A	Mx	.018	6
34	MP1A	X	-16.937	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
35	MP1A	Z	0	1
36	MP1A	Mx	.008	1
37	MP1A	X	-16.937	5
38	MP1A	Z	0	5
39	MP1A	Mx	.008	5
40	MP1B	X	-18.101	1
41	MP1B	Z	0	1
42	MP1B	Mx	.005	1
43	MP1B	X	-18.101	5
44	MP1B	Z	0	5
45	MP1B	Mx	.005	5
46	MP5A	X	-16.937	1
47	MP5A	Z	0	1
48	MP5A	Mx	.008	1
49	MP5A	X	-16.937	5
50	MP5A	Z	0	5
51	MP5A	Mx	.008	5
52	MP5B	X	-18.101	1
53	MP5B	Z	0	1
54	MP5B	Mx	.005	1
55	MP5B	X	-18.101	5
56	MP5B	Z	0	5
57	MP5B	Mx	.005	5
58	MP2A	X	-8.673	3
59	MP2A	Z	0	3
60	MP2A	Mx	.003	3
61	MP2B	X	-10.477	3
62	MP2B	Z	0	3
63	MP2B	Mx	-.00091	3
64	MP4A	X	-16.669	3
65	MP4A	Z	0	3
66	MP4A	Mx	.006	3
67	MP4B	X	-24.756	3
68	MP4B	Z	0	3
69	MP4B	Mx	-.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-8.771	3
2	MP3A	Z	-5.064	3
3	MP3A	Mx	.002	3
4	MP3B	X	-8.771	3
5	MP3B	Z	-5.064	3
6	MP3B	Mx	.002	3
7	MP4A	X	-18.404	1
8	MP4A	Z	-10.625	1
9	MP4A	Mx	.004	1
10	MP2B	X	-21.53	2
11	MP2B	Z	-12.431	2
12	MP2B	Mx	-.011	2
13	MP2B	X	-21.53	6
14	MP2B	Z	-12.431	6
15	MP2B	Mx	-.011	6
16	MP2B	X	-21.53	2
17	MP2B	Z	-12.431	2
18	MP2B	Mx	.02	2
19	MP2B	X	-21.53	6
20	MP2B	Z	-12.431	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP2B	Mx	.02	6
22	MP3A	X	-21.53	2
23	MP3A	Z	-12.431	2
24	MP3A	Mx	-.011	2
25	MP3A	X	-21.53	6
26	MP3A	Z	-12.431	6
27	MP3A	Mx	-.011	6
28	MP3A	X	-21.53	2
29	MP3A	Z	-12.431	2
30	MP3A	Mx	.02	2
31	MP3A	X	-21.53	6
32	MP3A	Z	-12.431	6
33	MP3A	Mx	.02	6
34	MP1A	X	-15.536	1
35	MP1A	Z	-8.97	1
36	MP1A	Mx	.005	1
37	MP1A	X	-15.536	5
38	MP1A	Z	-8.97	5
39	MP1A	Mx	.005	5
40	MP1B	X	-14.794	1
41	MP1B	Z	-8.541	1
42	MP1B	Mx	.007	1
43	MP1B	X	-14.794	5
44	MP1B	Z	-8.541	5
45	MP1B	Mx	.007	5
46	MP5A	X	-15.536	1
47	MP5A	Z	-8.97	1
48	MP5A	Mx	.005	1
49	MP5A	X	-15.536	5
50	MP5A	Z	-8.97	5
51	MP5A	Mx	.005	5
52	MP5B	X	-14.794	1
53	MP5B	Z	-8.541	1
54	MP5B	Mx	.007	1
55	MP5B	X	-14.794	5
56	MP5B	Z	-8.541	5
57	MP5B	Mx	.007	5
58	MP2A	X	-8.83	3
59	MP2A	Z	-5.098	3
60	MP2A	Mx	.002	3
61	MP2B	X	-8.83	3
62	MP2B	Z	-5.098	3
63	MP2B	Mx	.002	3
64	MP4A	X	-20.347	3
65	MP4A	Z	-11.747	3
66	MP4A	Mx	.004	3
67	MP4B	X	-20.347	3
68	MP4B	Z	-11.747	3
69	MP4B	Mx	.004	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-5.23	3
2	MP3A	Z	-9.058	3
3	MP3A	Mx	-.000908	3
4	MP3B	X	-4.166	3
5	MP3B	Z	-7.215	3
6	MP3B	Mx	.003	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
7	MP4A	X	-10.833	1
8	MP4A	Z	-18.763	1
9	MP4A	Mx	-.002	1
10	MP2B	X	-10.961	2
11	MP2B	Z	-18.984	2
12	MP2B	Mx	-.000998	2
13	MP2B	X	-10.961	6
14	MP2B	Z	-18.984	6
15	MP2B	Mx	-.000998	6
16	MP2B	X	-10.961	2
17	MP2B	Z	-18.984	2
18	MP2B	Mx	.018	2
19	MP2B	X	-10.961	6
20	MP2B	Z	-18.984	6
21	MP2B	Mx	.018	6
22	MP3A	X	-12.702	2
23	MP3A	Z	-22.001	2
24	MP3A	Mx	-.019	2
25	MP3A	X	-12.702	6
26	MP3A	Z	-22.001	6
27	MP3A	Mx	-.019	6
28	MP3A	X	-12.702	2
29	MP3A	Z	-22.001	2
30	MP3A	Mx	.014	2
31	MP3A	X	-12.702	6
32	MP3A	Z	-22.001	6
33	MP3A	Mx	.014	6
34	MP1A	X	-9.297	1
35	MP1A	Z	-16.103	1
36	MP1A	Mx	.00081	1
37	MP1A	X	-9.297	5
38	MP1A	Z	-16.103	5
39	MP1A	Mx	.00081	5
40	MP1B	X	-8.286	1
41	MP1B	Z	-14.352	1
42	MP1B	Mx	.008	1
43	MP1B	X	-8.286	5
44	MP1B	Z	-14.352	5
45	MP1B	Mx	.008	5
46	MP5A	X	-9.297	1
47	MP5A	Z	-16.103	1
48	MP5A	Mx	.00081	1
49	MP5A	X	-9.297	5
50	MP5A	Z	-16.103	5
51	MP5A	Mx	.00081	5
52	MP5B	X	-8.286	1
53	MP5B	Z	-14.352	1
54	MP5B	Mx	.008	1
55	MP5B	X	-8.286	5
56	MP5B	Z	-14.352	5
57	MP5B	Mx	.008	5
58	MP2A	X	-5.239	3
59	MP2A	Z	-9.073	3
60	MP2A	Mx	-.000909	3
61	MP2B	X	-4.337	3
62	MP2B	Z	-7.511	3
63	MP2B	Mx	.003	3
64	MP4A	X	-12.378	3
65	MP4A	Z	-21.439	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
66	MP4A	Mx	-.002	3
67	MP4B	X	-8.334	3
68	MP4B	Z	-14.436	3
69	MP4B	Mx	.006	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	-2.7	3
3	MP3A	Mx	-.000868	3
4	MP3B	X	0	3
5	MP3B	Z	-1.998	3
6	MP3B	Mx	.000984	3
7	MP4A	X	0	1
8	MP4A	Z	-6.309	1
9	MP4A	Mx	-.002	1
10	MP2B	X	0	2
11	MP2B	Z	-6.386	2
12	MP2B	Mx	.002	2
13	MP2B	X	0	6
14	MP2B	Z	-6.386	6
15	MP2B	Mx	.002	6
16	MP2B	X	0	2
17	MP2B	Z	-6.386	2
18	MP2B	Mx	.004	2
19	MP2B	X	0	6
20	MP2B	Z	-6.386	6
21	MP2B	Mx	.004	6
22	MP3A	X	0	2
23	MP3A	Z	-7.6	2
24	MP3A	Mx	-.006	2
25	MP3A	X	0	6
26	MP3A	Z	-7.6	6
27	MP3A	Mx	-.006	6
28	MP3A	X	0	2
29	MP3A	Z	-7.6	2
30	MP3A	Mx	.001	2
31	MP3A	X	0	6
32	MP3A	Z	-7.6	6
33	MP3A	Mx	.001	6
34	MP1A	X	0	1
35	MP1A	Z	-5.935	1
36	MP1A	Mx	-.001	1
37	MP1A	X	0	5
38	MP1A	Z	-5.935	5
39	MP1A	Mx	-.001	5
40	MP1B	X	0	1
41	MP1B	Z	-5.496	1
42	MP1B	Mx	.002	1
43	MP1B	X	0	5
44	MP1B	Z	-5.496	5
45	MP1B	Mx	.002	5
46	MP5A	X	0	1
47	MP5A	Z	-5.935	1
48	MP5A	Mx	-.001	1
49	MP5A	X	0	5
50	MP5A	Z	-5.935	5
51	MP5A	Mx	-.001	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
52	MP5B	X	0	1
53	MP5B	Z	-5.496	1
54	MP5B	Mx	.002	1
55	MP5B	X	0	5
56	MP5B	Z	-5.496	5
57	MP5B	Mx	.002	5
58	MP2A	X	0	3
59	MP2A	Z	-2.78	3
60	MP2A	Mx	-.000893	3
61	MP2B	X	0	3
62	MP2B	Z	-2.185	3
63	MP2B	Mx	.001	3
64	MP4A	X	0	3
65	MP4A	Z	-6.061	3
66	MP4A	Mx	-.002	3
67	MP4B	X	0	3
68	MP4B	Z	-3.318	3
69	MP4B	Mx	.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	1.054	3
2	MP3A	Z	-1.825	3
3	MP3A	Mx	-.00099	3
4	MP3B	X	1.054	3
5	MP3B	Z	-1.825	3
6	MP3B	Mx	.00099	3
7	MP4A	X	2.765	1
8	MP4A	Z	-4.789	1
9	MP4A	Mx	-.003	1
10	MP2B	X	3.288	2
11	MP2B	Z	-5.694	2
12	MP2B	Mx	.005	2
13	MP2B	X	3.288	6
14	MP2B	Z	-5.694	6
15	MP2B	Mx	.005	6
16	MP2B	X	3.288	2
17	MP2B	Z	-5.694	2
18	MP2B	Mx	.002	2
19	MP2B	X	3.288	6
20	MP2B	Z	-5.694	6
21	MP2B	Mx	.002	6
22	MP3A	X	3.288	2
23	MP3A	Z	-5.694	2
24	MP3A	Mx	-.005	2
25	MP3A	X	3.288	6
26	MP3A	Z	-5.694	6
27	MP3A	Mx	-.005	6
28	MP3A	X	3.288	2
29	MP3A	Z	-5.694	2
30	MP3A	Mx	-.002	2
31	MP3A	X	3.288	6
32	MP3A	Z	-5.694	6
33	MP3A	Mx	-.002	6
34	MP1A	X	2.778	1
35	MP1A	Z	-4.812	1
36	MP1A	Mx	-.002	1
37	MP1A	X	2.778	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
38	MP1A	Z	-4.812	5
39	MP1A	Mx	-.002	5
40	MP1B	X	2.94	1
41	MP1B	Z	-5.092	1
42	MP1B	Mx	.001	1
43	MP1B	X	2.94	5
44	MP1B	Z	-5.092	5
45	MP1B	Mx	.001	5
46	MP5A	X	2.778	1
47	MP5A	Z	-4.812	1
48	MP5A	Mx	-.002	1
49	MP5A	X	2.778	5
50	MP5A	Z	-4.812	5
51	MP5A	Mx	-.002	5
52	MP5B	X	2.94	1
53	MP5B	Z	-5.092	1
54	MP5B	Mx	.001	1
55	MP5B	X	2.94	5
56	MP5B	Z	-5.092	5
57	MP5B	Mx	.001	5
58	MP2A	X	1.139	3
59	MP2A	Z	-1.973	3
60	MP2A	Mx	-.001	3
61	MP2B	X	1.139	3
62	MP2B	Z	-1.973	3
63	MP2B	Mx	.001	3
64	MP4A	X	1.873	3
65	MP4A	Z	-3.244	3
66	MP4A	Mx	-.002	3
67	MP4B	X	1.873	3
68	MP4B	Z	-3.244	3
69	MP4B	Mx	.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	1.73	3
2	MP3A	Z	-.999	3
3	MP3A	Mx	-.000984	3
4	MP3B	X	2.338	3
5	MP3B	Z	-1.35	3
6	MP3B	Mx	.000868	3
7	MP4A	X	4.664	1
8	MP4A	Z	-2.693	1
9	MP4A	Mx	-.003	1
10	MP2B	X	6.582	2
11	MP2B	Z	-3.8	2
12	MP2B	Mx	.006	2
13	MP2B	X	6.582	6
14	MP2B	Z	-3.8	6
15	MP2B	Mx	.006	6
16	MP2B	X	6.582	2
17	MP2B	Z	-3.8	2
18	MP2B	Mx	-.001	2
19	MP2B	X	6.582	6
20	MP2B	Z	-3.8	6
21	MP2B	Mx	-.001	6
22	MP3A	X	5.53	2
23	MP3A	Z	-3.193	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
24	MP3A	Mx	-0.002	2
25	MP3A	X	5.53	6
26	MP3A	Z	-3.193	6
27	MP3A	Mx	-0.002	6
28	MP3A	X	5.53	2
29	MP3A	Z	-3.193	2
30	MP3A	Mx	-0.004	2
31	MP3A	X	5.53	6
32	MP3A	Z	-3.193	6
33	MP3A	Mx	-0.004	6
34	MP1A	X	4.599	1
35	MP1A	Z	-2.655	1
36	MP1A	Mx	-0.003	1
37	MP1A	X	4.599	5
38	MP1A	Z	-2.655	5
39	MP1A	Mx	-0.003	5
40	MP1B	X	5.259	1
41	MP1B	Z	-3.036	1
42	MP1B	Mx	0	1
43	MP1B	X	5.259	5
44	MP1B	Z	-3.036	5
45	MP1B	Mx	0	5
46	MP5A	X	4.599	1
47	MP5A	Z	-2.655	1
48	MP5A	Mx	-0.003	1
49	MP5A	X	4.599	5
50	MP5A	Z	-2.655	5
51	MP5A	Mx	-0.003	5
52	MP5B	X	5.259	1
53	MP5B	Z	-3.036	1
54	MP5B	Mx	0	1
55	MP5B	X	5.259	5
56	MP5B	Z	-3.036	5
57	MP5B	Mx	0	5
58	MP2A	X	1.893	3
59	MP2A	Z	-1.093	3
60	MP2A	Mx	-0.001	3
61	MP2B	X	2.408	3
62	MP2B	Z	-1.39	3
63	MP2B	Mx	.000894	3
64	MP4A	X	2.874	3
65	MP4A	Z	-1.659	3
66	MP4A	Mx	-0.002	3
67	MP4B	X	5.249	3
68	MP4B	Z	-3.03	3
69	MP4B	Mx	.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	2.481	3
2	MP3A	Z	0	3
3	MP3A	Mx	-0.00095	3
4	MP3B	X	3.183	3
5	MP3B	Z	0	3
6	MP3B	Mx	.000276	3
7	MP4A	X	6.021	1
8	MP4A	Z	0	1
9	MP4A	Mx	-0.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
10	MP2B	X	8.435	2
11	MP2B	Z	0	2
12	MP2B	Mx	.006	2
13	MP2B	X	8.435	6
14	MP2B	Z	0	6
15	MP2B	Mx	.006	6
16	MP2B	X	8.435	2
17	MP2B	Z	0	2
18	MP2B	Mx	-.005	2
19	MP2B	X	8.435	6
20	MP2B	Z	0	6
21	MP2B	Mx	-.005	6
22	MP3A	X	7.221	2
23	MP3A	Z	0	2
24	MP3A	Mx	.000329	2
25	MP3A	X	7.221	6
26	MP3A	Z	0	6
27	MP3A	Mx	.000329	6
28	MP3A	X	7.221	2
29	MP3A	Z	0	2
30	MP3A	Mx	-.006	2
31	MP3A	X	7.221	6
32	MP3A	Z	0	6
33	MP3A	Mx	-.006	6
34	MP1A	X	5.441	1
35	MP1A	Z	0	1
36	MP1A	Mx	-.002	1
37	MP1A	X	5.441	5
38	MP1A	Z	0	5
39	MP1A	Mx	-.002	5
40	MP1B	X	5.88	1
41	MP1B	Z	0	1
42	MP1B	Mx	-.001	1
43	MP1B	X	5.88	5
44	MP1B	Z	0	5
45	MP1B	Mx	-.001	5
46	MP5A	X	5.441	1
47	MP5A	Z	0	1
48	MP5A	Mx	-.002	1
49	MP5A	X	5.441	5
50	MP5A	Z	0	5
51	MP5A	Mx	-.002	5
52	MP5B	X	5.88	1
53	MP5B	Z	0	1
54	MP5B	Mx	-.001	1
55	MP5B	X	5.88	5
56	MP5B	Z	0	5
57	MP5B	Mx	-.001	5
58	MP2A	X	2.595	3
59	MP2A	Z	0	3
60	MP2A	Mx	-.000994	3
61	MP2B	X	3.189	3
62	MP2B	Z	0	3
63	MP2B	Mx	.000277	3
64	MP4A	X	5.205	3
65	MP4A	Z	0	3
66	MP4A	Mx	-.002	3
67	MP4B	X	7.948	3
68	MP4B	Z	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
69	MP4B	Mx	.00069	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	2.662	3
2	MP3A	Z	1.537	3
3	MP3A	Mx	-.000526	3
4	MP3B	X	2.662	3
5	MP3B	Z	1.537	3
6	MP3B	Mx	-.000526	3
7	MP4A	X	5.889	1
8	MP4A	Z	3.4	1
9	MP4A	Mx	-.001	1
10	MP2B	X	7.141	2
11	MP2B	Z	4.123	2
12	MP2B	Mx	.004	2
13	MP2B	X	7.141	6
14	MP2B	Z	4.123	6
15	MP2B	Mx	.004	6
16	MP2B	X	7.141	2
17	MP2B	Z	4.123	2
18	MP2B	Mx	-.007	2
19	MP2B	X	7.141	6
20	MP2B	Z	4.123	6
21	MP2B	Mx	-.007	6
22	MP3A	X	7.141	2
23	MP3A	Z	4.123	2
24	MP3A	Mx	.004	2
25	MP3A	X	7.141	6
26	MP3A	Z	4.123	6
27	MP3A	Mx	.004	6
28	MP3A	X	7.141	2
29	MP3A	Z	4.123	2
30	MP3A	Mx	-.007	2
31	MP3A	X	7.141	6
32	MP3A	Z	4.123	6
33	MP3A	Mx	-.007	6
34	MP1A	X	5.04	1
35	MP1A	Z	2.91	1
36	MP1A	Mx	-.002	1
37	MP1A	X	5.04	5
38	MP1A	Z	2.91	5
39	MP1A	Mx	-.002	5
40	MP1B	X	4.76	1
41	MP1B	Z	2.748	1
42	MP1B	Mx	-.002	1
43	MP1B	X	4.76	5
44	MP1B	Z	2.748	5
45	MP1B	Mx	-.002	5
46	MP5A	X	5.04	1
47	MP5A	Z	2.91	1
48	MP5A	Mx	-.002	1
49	MP5A	X	5.04	5
50	MP5A	Z	2.91	5
51	MP5A	Mx	-.002	5
52	MP5B	X	4.76	1
53	MP5B	Z	2.748	1
54	MP5B	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
55	MP5B	X	4.76	5
56	MP5B	Z	2.748	5
57	MP5B	Mx	-.002	5
58	MP2A	X	2.682	3
59	MP2A	Z	1.548	3
60	MP2A	Mx	-.00053	3
61	MP2B	X	2.682	3
62	MP2B	Z	1.548	3
63	MP2B	Mx	-.000529	3
64	MP4A	X	6.513	3
65	MP4A	Z	3.76	3
66	MP4A	Mx	-.001	3
67	MP4B	X	6.513	3
68	MP4B	Z	3.76	3
69	MP4B	Mx	-.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	1.592	3
2	MP3A	Z	2.757	3
3	MP3A	Mx	.000276	3
4	MP3B	X	1.24	3
5	MP3B	Z	2.148	3
6	MP3B	Mx	-.00095	3
7	MP4A	X	3.472	1
8	MP4A	Z	6.014	1
9	MP4A	Mx	.000603	1
10	MP2B	X	3.611	2
11	MP2B	Z	6.254	2
12	MP2B	Mx	.000329	2
13	MP2B	X	3.611	6
14	MP2B	Z	6.254	6
15	MP2B	Mx	.000329	6
16	MP2B	X	3.611	2
17	MP2B	Z	6.254	2
18	MP2B	Mx	-.006	2
19	MP2B	X	3.611	6
20	MP2B	Z	6.254	6
21	MP2B	Mx	-.006	6
22	MP3A	X	4.218	2
23	MP3A	Z	7.305	2
24	MP3A	Mx	.006	2
25	MP3A	X	4.218	6
26	MP3A	Z	7.305	6
27	MP3A	Mx	.006	6
28	MP3A	X	4.218	2
29	MP3A	Z	7.305	2
30	MP3A	Mx	-.005	2
31	MP3A	X	4.218	6
32	MP3A	Z	7.305	6
33	MP3A	Mx	-.005	6
34	MP1A	X	3.033	1
35	MP1A	Z	5.254	1
36	MP1A	Mx	-.000264	1
37	MP1A	X	3.033	5
38	MP1A	Z	5.254	5
39	MP1A	Mx	-.000264	5
40	MP1B	X	2.652	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP1B	Z	4.594	1
42	MP1B	Mx	-.003	1
43	MP1B	X	2.652	5
44	MP1B	Z	4.594	5
45	MP1B	Mx	-.003	5
46	MP5A	X	3.033	1
47	MP5A	Z	5.254	1
48	MP5A	Mx	-.000264	1
49	MP5A	X	3.033	5
50	MP5A	Z	5.254	5
51	MP5A	Mx	-.000264	5
52	MP5B	X	2.652	1
53	MP5B	Z	4.594	1
54	MP5B	Mx	-.003	1
55	MP5B	X	2.652	5
56	MP5B	Z	4.594	5
57	MP5B	Mx	-.003	5
58	MP2A	X	1.595	3
59	MP2A	Z	2.762	3
60	MP2A	Mx	.000277	3
61	MP2B	X	1.297	3
62	MP2B	Z	2.247	3
63	MP2B	Mx	-.000994	3
64	MP4A	X	3.974	3
65	MP4A	Z	6.883	3
66	MP4A	Mx	.00069	3
67	MP4B	X	2.603	3
68	MP4B	Z	4.508	3
69	MP4B	Mx	-.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	2.7	3
3	MP3A	Mx	.000868	3
4	MP3B	X	0	3
5	MP3B	Z	1.998	3
6	MP3B	Mx	-.000984	3
7	MP4A	X	0	1
8	MP4A	Z	6.309	1
9	MP4A	Mx	.002	1
10	MP2B	X	0	2
11	MP2B	Z	6.386	2
12	MP2B	Mx	-.002	2
13	MP2B	X	0	6
14	MP2B	Z	6.386	6
15	MP2B	Mx	-.002	6
16	MP2B	X	0	2
17	MP2B	Z	6.386	2
18	MP2B	Mx	-.004	2
19	MP2B	X	0	6
20	MP2B	Z	6.386	6
21	MP2B	Mx	-.004	6
22	MP3A	X	0	2
23	MP3A	Z	7.6	2
24	MP3A	Mx	.006	2
25	MP3A	X	0	6
26	MP3A	Z	7.6	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
27	MP3A	Mx	.006	6
28	MP3A	X	0	2
29	MP3A	Z	7.6	2
30	MP3A	Mx	-.001	2
31	MP3A	X	0	6
32	MP3A	Z	7.6	6
33	MP3A	Mx	-.001	6
34	MP1A	X	0	1
35	MP1A	Z	5.935	1
36	MP1A	Mx	.001	1
37	MP1A	X	0	5
38	MP1A	Z	5.935	5
39	MP1A	Mx	.001	5
40	MP1B	X	0	1
41	MP1B	Z	5.496	1
42	MP1B	Mx	-.002	1
43	MP1B	X	0	5
44	MP1B	Z	5.496	5
45	MP1B	Mx	-.002	5
46	MP5A	X	0	1
47	MP5A	Z	5.935	1
48	MP5A	Mx	.001	1
49	MP5A	X	0	5
50	MP5A	Z	5.935	5
51	MP5A	Mx	.001	5
52	MP5B	X	0	1
53	MP5B	Z	5.496	1
54	MP5B	Mx	-.002	1
55	MP5B	X	0	5
56	MP5B	Z	5.496	5
57	MP5B	Mx	-.002	5
58	MP2A	X	0	3
59	MP2A	Z	2.78	3
60	MP2A	Mx	.000893	3
61	MP2B	X	0	3
62	MP2B	Z	2.185	3
63	MP2B	Mx	-.001	3
64	MP4A	X	0	3
65	MP4A	Z	6.061	3
66	MP4A	Mx	.002	3
67	MP4B	X	0	3
68	MP4B	Z	3.318	3
69	MP4B	Mx	-.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.054	3
2	MP3A	Z	1.825	3
3	MP3A	Mx	.00099	3
4	MP3B	X	-1.054	3
5	MP3B	Z	1.825	3
6	MP3B	Mx	-.00099	3
7	MP4A	X	-2.765	1
8	MP4A	Z	4.789	1
9	MP4A	Mx	.003	1
10	MP2B	X	-3.288	2
11	MP2B	Z	5.694	2
12	MP2B	Mx	-.005	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP2B	X	-3.288	6
14	MP2B	Z	5.694	6
15	MP2B	Mx	-.005	6
16	MP2B	X	-3.288	2
17	MP2B	Z	5.694	2
18	MP2B	Mx	-.002	2
19	MP2B	X	-3.288	6
20	MP2B	Z	5.694	6
21	MP2B	Mx	-.002	6
22	MP3A	X	-3.288	2
23	MP3A	Z	5.694	2
24	MP3A	Mx	.005	2
25	MP3A	X	-3.288	6
26	MP3A	Z	5.694	6
27	MP3A	Mx	.005	6
28	MP3A	X	-3.288	2
29	MP3A	Z	5.694	2
30	MP3A	Mx	.002	2
31	MP3A	X	-3.288	6
32	MP3A	Z	5.694	6
33	MP3A	Mx	.002	6
34	MP1A	X	-2.778	1
35	MP1A	Z	4.812	1
36	MP1A	Mx	.002	1
37	MP1A	X	-2.778	5
38	MP1A	Z	4.812	5
39	MP1A	Mx	.002	5
40	MP1B	X	-2.94	1
41	MP1B	Z	5.092	1
42	MP1B	Mx	-.001	1
43	MP1B	X	-2.94	5
44	MP1B	Z	5.092	5
45	MP1B	Mx	-.001	5
46	MP5A	X	-2.778	1
47	MP5A	Z	4.812	1
48	MP5A	Mx	.002	1
49	MP5A	X	-2.778	5
50	MP5A	Z	4.812	5
51	MP5A	Mx	.002	5
52	MP5B	X	-2.94	1
53	MP5B	Z	5.092	1
54	MP5B	Mx	-.001	1
55	MP5B	X	-2.94	5
56	MP5B	Z	5.092	5
57	MP5B	Mx	-.001	5
58	MP2A	X	-1.139	3
59	MP2A	Z	1.973	3
60	MP2A	Mx	.001	3
61	MP2B	X	-1.139	3
62	MP2B	Z	1.973	3
63	MP2B	Mx	-.001	3
64	MP4A	X	-1.873	3
65	MP4A	Z	3.244	3
66	MP4A	Mx	.002	3
67	MP4B	X	-1.873	3
68	MP4B	Z	3.244	3
69	MP4B	Mx	-.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.73	3
2	MP3A	Z	.999	3
3	MP3A	Mx	.000984	3
4	MP3B	X	-2.338	3
5	MP3B	Z	1.35	3
6	MP3B	Mx	-.000868	3
7	MP4A	X	-4.664	1
8	MP4A	Z	2.693	1
9	MP4A	Mx	.003	1
10	MP2B	X	-6.582	2
11	MP2B	Z	3.8	2
12	MP2B	Mx	-.006	2
13	MP2B	X	-6.582	6
14	MP2B	Z	3.8	6
15	MP2B	Mx	-.006	6
16	MP2B	X	-6.582	2
17	MP2B	Z	3.8	2
18	MP2B	Mx	.001	2
19	MP2B	X	-6.582	6
20	MP2B	Z	3.8	6
21	MP2B	Mx	.001	6
22	MP3A	X	-5.53	2
23	MP3A	Z	3.193	2
24	MP3A	Mx	.002	2
25	MP3A	X	-5.53	6
26	MP3A	Z	3.193	6
27	MP3A	Mx	.002	6
28	MP3A	X	-5.53	2
29	MP3A	Z	3.193	2
30	MP3A	Mx	.004	2
31	MP3A	X	-5.53	6
32	MP3A	Z	3.193	6
33	MP3A	Mx	.004	6
34	MP1A	X	-4.599	1
35	MP1A	Z	2.655	1
36	MP1A	Mx	.003	1
37	MP1A	X	-4.599	5
38	MP1A	Z	2.655	5
39	MP1A	Mx	.003	5
40	MP1B	X	-5.259	1
41	MP1B	Z	3.036	1
42	MP1B	Mx	0	1
43	MP1B	X	-5.259	5
44	MP1B	Z	3.036	5
45	MP1B	Mx	0	5
46	MP5A	X	-4.599	1
47	MP5A	Z	2.655	1
48	MP5A	Mx	.003	1
49	MP5A	X	-4.599	5
50	MP5A	Z	2.655	5
51	MP5A	Mx	.003	5
52	MP5B	X	-5.259	1
53	MP5B	Z	3.036	1
54	MP5B	Mx	0	1
55	MP5B	X	-5.259	5
56	MP5B	Z	3.036	5
57	MP5B	Mx	0	5
58	MP2A	X	-1.893	3
59	MP2A	Z	1.093	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
60	MP2A	Mx	.001	3
61	MP2B	X	-2.408	3
62	MP2B	Z	1.39	3
63	MP2B	Mx	-.000894	3
64	MP4A	X	-2.874	3
65	MP4A	Z	1.659	3
66	MP4A	Mx	.002	3
67	MP4B	X	-5.249	3
68	MP4B	Z	3.03	3
69	MP4B	Mx	-.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-2.481	3
2	MP3A	Z	0	3
3	MP3A	Mx	.00095	3
4	MP3B	X	-3.183	3
5	MP3B	Z	0	3
6	MP3B	Mx	-.000276	3
7	MP4A	X	-6.021	1
8	MP4A	Z	0	1
9	MP4A	Mx	.002	1
10	MP2B	X	-8.435	2
11	MP2B	Z	0	2
12	MP2B	Mx	-.006	2
13	MP2B	X	-8.435	6
14	MP2B	Z	0	6
15	MP2B	Mx	-.006	6
16	MP2B	X	-8.435	2
17	MP2B	Z	0	2
18	MP2B	Mx	.005	2
19	MP2B	X	-8.435	6
20	MP2B	Z	0	6
21	MP2B	Mx	.005	6
22	MP3A	X	-7.221	2
23	MP3A	Z	0	2
24	MP3A	Mx	-.000329	2
25	MP3A	X	-7.221	6
26	MP3A	Z	0	6
27	MP3A	Mx	-.000329	6
28	MP3A	X	-7.221	2
29	MP3A	Z	0	2
30	MP3A	Mx	.006	2
31	MP3A	X	-7.221	6
32	MP3A	Z	0	6
33	MP3A	Mx	.006	6
34	MP1A	X	-5.441	1
35	MP1A	Z	0	1
36	MP1A	Mx	.002	1
37	MP1A	X	-5.441	5
38	MP1A	Z	0	5
39	MP1A	Mx	.002	5
40	MP1B	X	-5.88	1
41	MP1B	Z	0	1
42	MP1B	Mx	.001	1
43	MP1B	X	-5.88	5
44	MP1B	Z	0	5
45	MP1B	Mx	.001	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP5A	X	-5.441	1
47	MP5A	Z	0	1
48	MP5A	Mx	.002	1
49	MP5A	X	-5.441	5
50	MP5A	Z	0	5
51	MP5A	Mx	.002	5
52	MP5B	X	-5.88	1
53	MP5B	Z	0	1
54	MP5B	Mx	.001	1
55	MP5B	X	-5.88	5
56	MP5B	Z	0	5
57	MP5B	Mx	.001	5
58	MP2A	X	-2.595	3
59	MP2A	Z	0	3
60	MP2A	Mx	.000994	3
61	MP2B	X	-3.189	3
62	MP2B	Z	0	3
63	MP2B	Mx	-.000277	3
64	MP4A	X	-5.205	3
65	MP4A	Z	0	3
66	MP4A	Mx	.002	3
67	MP4B	X	-7.948	3
68	MP4B	Z	0	3
69	MP4B	Mx	-.00069	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-2.662	3
2	MP3A	Z	-1.537	3
3	MP3A	Mx	.000526	3
4	MP3B	X	-2.662	3
5	MP3B	Z	-1.537	3
6	MP3B	Mx	.000526	3
7	MP4A	X	-5.889	1
8	MP4A	Z	-3.4	1
9	MP4A	Mx	.001	1
10	MP2B	X	-7.141	2
11	MP2B	Z	-4.123	2
12	MP2B	Mx	-.004	2
13	MP2B	X	-7.141	6
14	MP2B	Z	-4.123	6
15	MP2B	Mx	-.004	6
16	MP2B	X	-7.141	2
17	MP2B	Z	-4.123	2
18	MP2B	Mx	.007	2
19	MP2B	X	-7.141	6
20	MP2B	Z	-4.123	6
21	MP2B	Mx	.007	6
22	MP3A	X	-7.141	2
23	MP3A	Z	-4.123	2
24	MP3A	Mx	-.004	2
25	MP3A	X	-7.141	6
26	MP3A	Z	-4.123	6
27	MP3A	Mx	-.004	6
28	MP3A	X	-7.141	2
29	MP3A	Z	-4.123	2
30	MP3A	Mx	.007	2
31	MP3A	X	-7.141	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP3A	Z	-4.123	6
33	MP3A	Mx	.007	6
34	MP1A	X	-5.04	1
35	MP1A	Z	-2.91	1
36	MP1A	Mx	.002	1
37	MP1A	X	-5.04	5
38	MP1A	Z	-2.91	5
39	MP1A	Mx	.002	5
40	MP1B	X	-4.76	1
41	MP1B	Z	-2.748	1
42	MP1B	Mx	.002	1
43	MP1B	X	-4.76	5
44	MP1B	Z	-2.748	5
45	MP1B	Mx	.002	5
46	MP5A	X	-5.04	1
47	MP5A	Z	-2.91	1
48	MP5A	Mx	.002	1
49	MP5A	X	-5.04	5
50	MP5A	Z	-2.91	5
51	MP5A	Mx	.002	5
52	MP5B	X	-4.76	1
53	MP5B	Z	-2.748	1
54	MP5B	Mx	.002	1
55	MP5B	X	-4.76	5
56	MP5B	Z	-2.748	5
57	MP5B	Mx	.002	5
58	MP2A	X	-2.682	3
59	MP2A	Z	-1.548	3
60	MP2A	Mx	.00053	3
61	MP2B	X	-2.682	3
62	MP2B	Z	-1.548	3
63	MP2B	Mx	.000529	3
64	MP4A	X	-6.513	3
65	MP4A	Z	-3.76	3
66	MP4A	Mx	.001	3
67	MP4B	X	-6.513	3
68	MP4B	Z	-3.76	3
69	MP4B	Mx	.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.592	3
2	MP3A	Z	-2.757	3
3	MP3A	Mx	-.000276	3
4	MP3B	X	-1.24	3
5	MP3B	Z	-2.148	3
6	MP3B	Mx	.00095	3
7	MP4A	X	-3.472	1
8	MP4A	Z	-6.014	1
9	MP4A	Mx	-.000603	1
10	MP2B	X	-3.611	2
11	MP2B	Z	-6.254	2
12	MP2B	Mx	-.000329	2
13	MP2B	X	-3.611	6
14	MP2B	Z	-6.254	6
15	MP2B	Mx	-.000329	6
16	MP2B	X	-3.611	2
17	MP2B	Z	-6.254	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	MP2B	Mx	.006	2
19	MP2B	X	-3.611	6
20	MP2B	Z	-6.254	6
21	MP2B	Mx	.006	6
22	MP3A	X	-4.218	2
23	MP3A	Z	-7.305	2
24	MP3A	Mx	-.006	2
25	MP3A	X	-4.218	6
26	MP3A	Z	-7.305	6
27	MP3A	Mx	-.006	6
28	MP3A	X	-4.218	2
29	MP3A	Z	-7.305	2
30	MP3A	Mx	.005	2
31	MP3A	X	-4.218	6
32	MP3A	Z	-7.305	6
33	MP3A	Mx	.005	6
34	MP1A	X	-3.033	1
35	MP1A	Z	-5.254	1
36	MP1A	Mx	.000264	1
37	MP1A	X	-3.033	5
38	MP1A	Z	-5.254	5
39	MP1A	Mx	.000264	5
40	MP1B	X	-2.652	1
41	MP1B	Z	-4.594	1
42	MP1B	Mx	.003	1
43	MP1B	X	-2.652	5
44	MP1B	Z	-4.594	5
45	MP1B	Mx	.003	5
46	MP5A	X	-3.033	1
47	MP5A	Z	-5.254	1
48	MP5A	Mx	.000264	1
49	MP5A	X	-3.033	5
50	MP5A	Z	-5.254	5
51	MP5A	Mx	.000264	5
52	MP5B	X	-2.652	1
53	MP5B	Z	-4.594	1
54	MP5B	Mx	.003	1
55	MP5B	X	-2.652	5
56	MP5B	Z	-4.594	5
57	MP5B	Mx	.003	5
58	MP2A	X	-1.595	3
59	MP2A	Z	-2.762	3
60	MP2A	Mx	-.000277	3
61	MP2B	X	-1.297	3
62	MP2B	Z	-2.247	3
63	MP2B	Mx	.000994	3
64	MP4A	X	-3.974	3
65	MP4A	Z	-6.883	3
66	MP4A	Mx	-.00069	3
67	MP4B	X	-2.603	3
68	MP4B	Z	-4.508	3
69	MP4B	Mx	.002	3

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M32A	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M33	Y	-250	%100

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M33	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-3.464	3
2	MP3A	My	-.001	3
3	MP3A	Mz	.001	3
4	MP3B	Y	-3.464	3
5	MP3B	My	.000301	3
6	MP3B	Mz	-.002	3
7	MP4A	Y	-1.577	1
8	MP4A	My	-.000604	1
9	MP4A	Mz	.000507	1
10	MP2B	Y	-1.133	2
11	MP2B	My	.000843	2
12	MP2B	Mz	-.000427	2
13	MP2B	Y	-1.133	6
14	MP2B	My	.000843	6
15	MP2B	Mz	-.000427	6
16	MP2B	Y	-1.133	2
17	MP2B	My	-.000646	2
18	MP2B	Mz	-.000689	2
19	MP2B	Y	-1.133	6
20	MP2B	My	-.000646	6
21	MP2B	Mz	-.000689	6
22	MP3A	Y	-1.133	2
23	MP3A	My	5.2e-5	2
24	MP3A	Mz	.000943	2
25	MP3A	Y	-1.133	6
26	MP3A	My	5.2e-5	6
27	MP3A	Mz	.000943	6
28	MP3A	Y	-1.133	2
29	MP3A	My	-.00092	2
30	MP3A	Mz	-.000215	2
31	MP3A	Y	-1.133	6
32	MP3A	My	-.00092	6
33	MP3A	Mz	-.000215	6
34	MP1A	Y	-.517	1
35	MP1A	My	-.000234	1
36	MP1A	Mz	.000109	1
37	MP1A	Y	-.517	5
38	MP1A	My	-.000234	5
39	MP1A	Mz	.000109	5
40	MP1B	Y	-.517	1
41	MP1B	My	-.000129	1
42	MP1B	Mz	-.000224	1
43	MP1B	Y	-.517	5
44	MP1B	My	-.000129	5
45	MP1B	Mz	-.000224	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP5A	Y	-.517	1
47	MP5A	My	-.000234	1
48	MP5A	Mz	.000109	1
49	MP5A	Y	-.517	5
50	MP5A	My	-.000234	5
51	MP5A	Mz	.000109	5
52	MP5B	Y	-.517	1
53	MP5B	My	-.000129	1
54	MP5B	Mz	-.000224	1
55	MP5B	Y	-.517	5
56	MP5B	My	-.000129	5
57	MP5B	Mz	-.000224	5
58	MP2A	Y	-3.681	3
59	MP2A	My	-.001	3
60	MP2A	Mz	.001	3
61	MP2B	Y	-3.681	3
62	MP2B	My	.00032	3
63	MP2B	Mz	-.002	3
64	MP4A	Y	-4.292	3
65	MP4A	My	-.002	3
66	MP4A	Mz	.001	3
67	MP4B	Y	-4.292	3
68	MP4B	My	.000373	3
69	MP4B	Mz	-.002	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Z	-8.661	3
2	MP3A	Mx	-.003	3
3	MP3B	Z	-8.661	3
4	MP3B	Mx	.004	3
5	MP4A	Z	-3.942	1
6	MP4A	Mx	-.001	1
7	MP2B	Z	-2.834	2
8	MP2B	Mx	.001	2
9	MP2B	Z	-2.834	6
10	MP2B	Mx	.001	6
11	MP2B	Z	-2.834	2
12	MP2B	Mx	.002	2
13	MP2B	Z	-2.834	6
14	MP2B	Mx	.002	6
15	MP3A	Z	-2.834	2
16	MP3A	Mx	-.002	2
17	MP3A	Z	-2.834	6
18	MP3A	Mx	-.002	6
19	MP3A	Z	-2.834	2
20	MP3A	Mx	.000536	2
21	MP3A	Z	-2.834	6
22	MP3A	Mx	.000536	6
23	MP1A	Z	-1.294	1
24	MP1A	Mx	-.000273	1
25	MP1A	Z	-1.294	5
26	MP1A	Mx	-.000273	5
27	MP1B	Z	-1.294	1
28	MP1B	Mx	.00056	1
29	MP1B	Z	-1.294	5
30	MP1B	Mx	.00056	5
31	MP5A	Z	-1.294	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP5A	Mx	-0.00273	1
33	MP5A	Z	-1.294	5
34	MP5A	Mx	-0.00273	5
35	MP5B	Z	-1.294	1
36	MP5B	Mx	.00056	1
37	MP5B	Z	-1.294	5
38	MP5B	Mx	.00056	5
39	MP2A	Z	-9.203	3
40	MP2A	Mx	-.003	3
41	MP2B	Z	-9.203	3
42	MP2B	Mx	.005	3
43	MP4A	Z	-10.731	3
44	MP4A	Mx	-.003	3
45	MP4B	Z	-10.731	3
46	MP4B	Mx	.005	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	8.661	3
2	MP3A	Mx	-.003	3
3	MP3B	X	8.661	3
4	MP3B	Mx	.000752	3
5	MP4A	X	3.942	1
6	MP4A	Mx	-.002	1
7	MP2B	X	2.834	2
8	MP2B	Mx	.002	2
9	MP2B	X	2.834	6
10	MP2B	Mx	.002	6
11	MP2B	X	2.834	2
12	MP2B	Mx	-.002	2
13	MP2B	X	2.834	6
14	MP2B	Mx	-.002	6
15	MP3A	X	2.834	2
16	MP3A	Mx	.000129	2
17	MP3A	X	2.834	6
18	MP3A	Mx	.000129	6
19	MP3A	X	2.834	2
20	MP3A	Mx	-.002	2
21	MP3A	X	2.834	6
22	MP3A	Mx	-.002	6
23	MP1A	X	1.294	1
24	MP1A	Mx	-0.00586	1
25	MP1A	X	1.294	5
26	MP1A	Mx	-0.00586	5
27	MP1B	X	1.294	1
28	MP1B	Mx	-0.00323	1
29	MP1B	X	1.294	5
30	MP1B	Mx	-0.00323	5
31	MP5A	X	1.294	1
32	MP5A	Mx	-0.00586	1
33	MP5A	X	1.294	5
34	MP5A	Mx	-0.00586	5
35	MP5B	X	1.294	1
36	MP5B	Mx	-0.00323	1
37	MP5B	X	1.294	5
38	MP5B	Mx	-0.00323	5
39	MP2A	X	9.203	3
40	MP2A	Mx	-.004	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP2B	X	9.203	3
42	MP2B	Mx	.000799	3
43	MP4A	X	10.731	3
44	MP4A	Mx	-.004	3
45	MP4B	X	10.731	3
46	MP4B	Mx	.000932	3

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	Y	-14.83	-14.83	0	%100
2	MP1B	Y	-4.513	-4.513	0	%100
3	MP5B	Y	-4.513	-4.513	0	%100
4	MP4B	Y	-4.513	-4.513	0	%100
5	MP3B	Y	-4.513	-4.513	0	%100
6	MP2B	Y	-5.168	-5.168	0	%100
7	FACEA	Y	-14.83	-14.83	0	%100
8	MP1A	Y	-4.513	-4.513	0	%100
9	MP5A	Y	-4.513	-4.513	0	%100
10	MP4A	Y	-4.513	-4.513	0	%100
11	MP2A	Y	-5.168	-5.168	0	%100
12	MP6A	Y	-4.513	-4.513	0	%100
13	MP3A	Y	-4.513	-4.513	0	%100
14	MP6B	Y	-4.513	-4.513	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	-31.891	-31.891	0	%100
3	MP1B	X	0	0	0	%100
4	MP1B	Z	-6.012	-6.012	0	%100
5	MP5B	X	0	0	0	%100
6	MP5B	Z	-6.012	-6.012	0	%100
7	MP4B	X	0	0	0	%100
8	MP4B	Z	-6.012	-6.012	0	%100
9	MP3B	X	0	0	0	%100
10	MP3B	Z	-6.012	-6.012	0	%100
11	MP2B	X	0	0	0	%100
12	MP2B	Z	-7.278	-7.278	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	-7.973	-7.973	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-6.012	-6.012	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	-6.012	-6.012	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	-6.012	-6.012	0	%100
21	MP2A	X	0	0	0	%100
22	MP2A	Z	-7.278	-7.278	0	%100
23	MP6A	X	0	0	0	%100
24	MP6A	Z	-6.012	-6.012	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	-6.012	-6.012	0	%100
27	MP6B	X	0	0	0	%100
28	MP6B	Z	-6.012	-6.012	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft]	End Magnitude[lb/ft]	Start Location[ft.%]	End Location[ft.%]
	RISA-3D Version 17.0.4		[.....\Rev 1\RISA\467555-VZW_MT_LO_H.r3d]			Page 57

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	11.959	11.959	0	%100
2	FACEB	Z	-20.714	-20.714	0	%100
3	MP1B	X	3.006	3.006	0	%100
4	MP1B	Z	-5.206	-5.206	0	%100
5	MP5B	X	3.006	3.006	0	%100
6	MP5B	Z	-5.206	-5.206	0	%100
7	MP4B	X	3.006	3.006	0	%100
8	MP4B	Z	-5.206	-5.206	0	%100
9	MP3B	X	3.006	3.006	0	%100
10	MP3B	Z	-5.206	-5.206	0	%100
11	MP2B	X	3.639	3.639	0	%100
12	MP2B	Z	-6.303	-6.303	0	%100
13	FACEA	X	11.959	11.959	0	%100
14	FACEA	Z	-20.714	-20.714	0	%100
15	MP1A	X	3.006	3.006	0	%100
16	MP1A	Z	-5.206	-5.206	0	%100
17	MP5A	X	3.006	3.006	0	%100
18	MP5A	Z	-5.206	-5.206	0	%100
19	MP4A	X	3.006	3.006	0	%100
20	MP4A	Z	-5.206	-5.206	0	%100
21	MP2A	X	3.639	3.639	0	%100
22	MP2A	Z	-6.303	-6.303	0	%100
23	MP6A	X	3.006	3.006	0	%100
24	MP6A	Z	-5.206	-5.206	0	%100
25	MP3A	X	3.006	3.006	0	%100
26	MP3A	Z	-5.206	-5.206	0	%100
27	MP6B	X	3.006	3.006	0	%100
28	MP6B	Z	-5.206	-5.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	6.905	6.905	0	%100
2	FACEB	Z	-3.986	-3.986	0	%100
3	MP1B	X	5.206	5.206	0	%100
4	MP1B	Z	-3.006	-3.006	0	%100
5	MP5B	X	5.206	5.206	0	%100
6	MP5B	Z	-3.006	-3.006	0	%100
7	MP4B	X	5.206	5.206	0	%100
8	MP4B	Z	-3.006	-3.006	0	%100
9	MP3B	X	5.206	5.206	0	%100
10	MP3B	Z	-3.006	-3.006	0	%100
11	MP2B	X	6.303	6.303	0	%100
12	MP2B	Z	-3.639	-3.639	0	%100
13	FACEA	X	27.618	27.618	0	%100
14	FACEA	Z	-15.945	-15.945	0	%100
15	MP1A	X	5.206	5.206	0	%100
16	MP1A	Z	-3.006	-3.006	0	%100
17	MP5A	X	5.206	5.206	0	%100
18	MP5A	Z	-3.006	-3.006	0	%100
19	MP4A	X	5.206	5.206	0	%100
20	MP4A	Z	-3.006	-3.006	0	%100
21	MP2A	X	6.303	6.303	0	%100
22	MP2A	Z	-3.639	-3.639	0	%100
23	MP6A	X	5.206	5.206	0	%100
24	MP6A	Z	-3.006	-3.006	0	%100
25	MP3A	X	5.206	5.206	0	%100
26	MP3A	Z	-3.006	-3.006	0	%100
27	MP6B	X	5.206	5.206	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
28	MP6B	Z	-3.006	-3.006	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	0 %100
2	FACEB	Z	0	0	0 %100
3	MP1B	X	6.012	6.012	0 %100
4	MP1B	Z	0	0	0 %100
5	MP5B	X	6.012	6.012	0 %100
6	MP5B	Z	0	0	0 %100
7	MP4B	X	6.012	6.012	0 %100
8	MP4B	Z	0	0	0 %100
9	MP3B	X	6.012	6.012	0 %100
10	MP3B	Z	0	0	0 %100
11	MP2B	X	7.278	7.278	0 %100
12	MP2B	Z	0	0	0 %100
13	FACEA	X	23.918	23.918	0 %100
14	FACEA	Z	0	0	0 %100
15	MP1A	X	6.012	6.012	0 %100
16	MP1A	Z	0	0	0 %100
17	MP5A	X	6.012	6.012	0 %100
18	MP5A	Z	0	0	0 %100
19	MP4A	X	6.012	6.012	0 %100
20	MP4A	Z	0	0	0 %100
21	MP2A	X	7.278	7.278	0 %100
22	MP2A	Z	0	0	0 %100
23	MP6A	X	6.012	6.012	0 %100
24	MP6A	Z	0	0	0 %100
25	MP3A	X	6.012	6.012	0 %100
26	MP3A	Z	0	0	0 %100
27	MP6B	X	6.012	6.012	0 %100
28	MP6B	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....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	6.905	6.905	0 %100
2	FACEB	Z	3.986	3.986	0 %100
3	MP1B	X	5.206	5.206	0 %100
4	MP1B	Z	3.006	3.006	0 %100
5	MP5B	X	5.206	5.206	0 %100
6	MP5B	Z	3.006	3.006	0 %100
7	MP4B	X	5.206	5.206	0 %100
8	MP4B	Z	3.006	3.006	0 %100
9	MP3B	X	5.206	5.206	0 %100
10	MP3B	Z	3.006	3.006	0 %100
11	MP2B	X	6.303	6.303	0 %100
12	MP2B	Z	3.639	3.639	0 %100
13	FACEA	X	6.905	6.905	0 %100
14	FACEA	Z	3.986	3.986	0 %100
15	MP1A	X	5.206	5.206	0 %100
16	MP1A	Z	3.006	3.006	0 %100
17	MP5A	X	5.206	5.206	0 %100
18	MP5A	Z	3.006	3.006	0 %100
19	MP4A	X	5.206	5.206	0 %100
20	MP4A	Z	3.006	3.006	0 %100
21	MP2A	X	6.303	6.303	0 %100
22	MP2A	Z	3.639	3.639	0 %100
23	MP6A	X	5.206	5.206	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
24	MP6A	Z	3.006	3.006	0	%100
25	MP3A	X	5.206	5.206	0	%100
26	MP3A	Z	3.006	3.006	0	%100
27	MP6B	X	5.206	5.206	0	%100
28	MP6B	Z	3.006	3.006	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	11.959	11.959	0	%100
2	FACEB	Z	20.714	20.714	0	%100
3	MP1B	X	3.006	3.006	0	%100
4	MP1B	Z	5.206	5.206	0	%100
5	MP5B	X	3.006	3.006	0	%100
6	MP5B	Z	5.206	5.206	0	%100
7	MP4B	X	3.006	3.006	0	%100
8	MP4B	Z	5.206	5.206	0	%100
9	MP3B	X	3.006	3.006	0	%100
10	MP3B	Z	5.206	5.206	0	%100
11	MP2B	X	3.639	3.639	0	%100
12	MP2B	Z	6.303	6.303	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	3.006	3.006	0	%100
16	MP1A	Z	5.206	5.206	0	%100
17	MP5A	X	3.006	3.006	0	%100
18	MP5A	Z	5.206	5.206	0	%100
19	MP4A	X	3.006	3.006	0	%100
20	MP4A	Z	5.206	5.206	0	%100
21	MP2A	X	3.639	3.639	0	%100
22	MP2A	Z	6.303	6.303	0	%100
23	MP6A	X	3.006	3.006	0	%100
24	MP6A	Z	5.206	5.206	0	%100
25	MP3A	X	3.006	3.006	0	%100
26	MP3A	Z	5.206	5.206	0	%100
27	MP6B	X	3.006	3.006	0	%100
28	MP6B	Z	5.206	5.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	31.891	31.891	0	%100
3	MP1B	X	0	0	0	%100
4	MP1B	Z	6.012	6.012	0	%100
5	MP5B	X	0	0	0	%100
6	MP5B	Z	6.012	6.012	0	%100
7	MP4B	X	0	0	0	%100
8	MP4B	Z	6.012	6.012	0	%100
9	MP3B	X	0	0	0	%100
10	MP3B	Z	6.012	6.012	0	%100
11	MP2B	X	0	0	0	%100
12	MP2B	Z	7.278	7.278	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	7.973	7.973	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	6.012	6.012	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	6.012	6.012	0	%100
19	MP4A	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....]	Start Location[ft.%]	End Location[ft.%]
20	MP4A	Z	6.012	6.012	0	%100
21	MP2A	X	0	0	0	%100
22	MP2A	Z	7.278	7.278	0	%100
23	MP6A	X	0	0	0	%100
24	MP6A	Z	6.012	6.012	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	6.012	6.012	0	%100
27	MP6B	X	0	0	0	%100
28	MP6B	Z	6.012	6.012	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-11.959	-11.959	0	%100
2	FACEB	Z	20.714	20.714	0	%100
3	MP1B	X	-3.006	-3.006	0	%100
4	MP1B	Z	5.206	5.206	0	%100
5	MP5B	X	-3.006	-3.006	0	%100
6	MP5B	Z	5.206	5.206	0	%100
7	MP4B	X	-3.006	-3.006	0	%100
8	MP4B	Z	5.206	5.206	0	%100
9	MP3B	X	-3.006	-3.006	0	%100
10	MP3B	Z	5.206	5.206	0	%100
11	MP2B	X	-3.639	-3.639	0	%100
12	MP2B	Z	6.303	6.303	0	%100
13	FACEA	X	-11.959	-11.959	0	%100
14	FACEA	Z	20.714	20.714	0	%100
15	MP1A	X	-3.006	-3.006	0	%100
16	MP1A	Z	5.206	5.206	0	%100
17	MP5A	X	-3.006	-3.006	0	%100
18	MP5A	Z	5.206	5.206	0	%100
19	MP4A	X	-3.006	-3.006	0	%100
20	MP4A	Z	5.206	5.206	0	%100
21	MP2A	X	-3.639	-3.639	0	%100
22	MP2A	Z	6.303	6.303	0	%100
23	MP6A	X	-3.006	-3.006	0	%100
24	MP6A	Z	5.206	5.206	0	%100
25	MP3A	X	-3.006	-3.006	0	%100
26	MP3A	Z	5.206	5.206	0	%100
27	MP6B	X	-3.006	-3.006	0	%100
28	MP6B	Z	5.206	5.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-6.905	-6.905	0	%100
2	FACEB	Z	3.986	3.986	0	%100
3	MP1B	X	-5.206	-5.206	0	%100
4	MP1B	Z	3.006	3.006	0	%100
5	MP5B	X	-5.206	-5.206	0	%100
6	MP5B	Z	3.006	3.006	0	%100
7	MP4B	X	-5.206	-5.206	0	%100
8	MP4B	Z	3.006	3.006	0	%100
9	MP3B	X	-5.206	-5.206	0	%100
10	MP3B	Z	3.006	3.006	0	%100
11	MP2B	X	-6.303	-6.303	0	%100
12	MP2B	Z	3.639	3.639	0	%100
13	FACEA	X	-27.618	-27.618	0	%100
14	FACEA	Z	15.945	15.945	0	%100
15	MP1A	X	-5.206	-5.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
16	MP1A	Z	3.006	3.006	0	%100
17	MP5A	X	-5.206	-5.206	0	%100
18	MP5A	Z	3.006	3.006	0	%100
19	MP4A	X	-5.206	-5.206	0	%100
20	MP4A	Z	3.006	3.006	0	%100
21	MP2A	X	-6.303	-6.303	0	%100
22	MP2A	Z	3.639	3.639	0	%100
23	MP6A	X	-5.206	-5.206	0	%100
24	MP6A	Z	3.006	3.006	0	%100
25	MP3A	X	-5.206	-5.206	0	%100
26	MP3A	Z	3.006	3.006	0	%100
27	MP6B	X	-5.206	-5.206	0	%100
28	MP6B	Z	3.006	3.006	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	0	0	0	%100
3	MP1B	X	-6.012	-6.012	0	%100
4	MP1B	Z	0	0	0	%100
5	MP5B	X	-6.012	-6.012	0	%100
6	MP5B	Z	0	0	0	%100
7	MP4B	X	-6.012	-6.012	0	%100
8	MP4B	Z	0	0	0	%100
9	MP3B	X	-6.012	-6.012	0	%100
10	MP3B	Z	0	0	0	%100
11	MP2B	X	-7.278	-7.278	0	%100
12	MP2B	Z	0	0	0	%100
13	FACEA	X	-23.918	-23.918	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	-6.012	-6.012	0	%100
16	MP1A	Z	0	0	0	%100
17	MP5A	X	-6.012	-6.012	0	%100
18	MP5A	Z	0	0	0	%100
19	MP4A	X	-6.012	-6.012	0	%100
20	MP4A	Z	0	0	0	%100
21	MP2A	X	-7.278	-7.278	0	%100
22	MP2A	Z	0	0	0	%100
23	MP6A	X	-6.012	-6.012	0	%100
24	MP6A	Z	0	0	0	%100
25	MP3A	X	-6.012	-6.012	0	%100
26	MP3A	Z	0	0	0	%100
27	MP6B	X	-6.012	-6.012	0	%100
28	MP6B	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....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-6.905	-6.905	0	%100
2	FACEB	Z	-3.986	-3.986	0	%100
3	MP1B	X	-5.206	-5.206	0	%100
4	MP1B	Z	-3.006	-3.006	0	%100
5	MP5B	X	-5.206	-5.206	0	%100
6	MP5B	Z	-3.006	-3.006	0	%100
7	MP4B	X	-5.206	-5.206	0	%100
8	MP4B	Z	-3.006	-3.006	0	%100
9	MP3B	X	-5.206	-5.206	0	%100
10	MP3B	Z	-3.006	-3.006	0	%100
11	MP2B	X	-6.303	-6.303	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
12	MP2B	Z	-3.639	-3.639	0	%100
13	FACEA	X	-6.905	-6.905	0	%100
14	FACEA	Z	-3.986	-3.986	0	%100
15	MP1A	X	-5.206	-5.206	0	%100
16	MP1A	Z	-3.006	-3.006	0	%100
17	MP5A	X	-5.206	-5.206	0	%100
18	MP5A	Z	-3.006	-3.006	0	%100
19	MP4A	X	-5.206	-5.206	0	%100
20	MP4A	Z	-3.006	-3.006	0	%100
21	MP2A	X	-6.303	-6.303	0	%100
22	MP2A	Z	-3.639	-3.639	0	%100
23	MP6A	X	-5.206	-5.206	0	%100
24	MP6A	Z	-3.006	-3.006	0	%100
25	MP3A	X	-5.206	-5.206	0	%100
26	MP3A	Z	-3.006	-3.006	0	%100
27	MP6B	X	-5.206	-5.206	0	%100
28	MP6B	Z	-3.006	-3.006	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-11.959	-11.959	0	%100
2	FACEB	Z	-20.714	-20.714	0	%100
3	MP1B	X	-3.006	-3.006	0	%100
4	MP1B	Z	-5.206	-5.206	0	%100
5	MP5B	X	-3.006	-3.006	0	%100
6	MP5B	Z	-5.206	-5.206	0	%100
7	MP4B	X	-3.006	-3.006	0	%100
8	MP4B	Z	-5.206	-5.206	0	%100
9	MP3B	X	-3.006	-3.006	0	%100
10	MP3B	Z	-5.206	-5.206	0	%100
11	MP2B	X	-3.639	-3.639	0	%100
12	MP2B	Z	-6.303	-6.303	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	-3.006	-3.006	0	%100
16	MP1A	Z	-5.206	-5.206	0	%100
17	MP5A	X	-3.006	-3.006	0	%100
18	MP5A	Z	-5.206	-5.206	0	%100
19	MP4A	X	-3.006	-3.006	0	%100
20	MP4A	Z	-5.206	-5.206	0	%100
21	MP2A	X	-3.639	-3.639	0	%100
22	MP2A	Z	-6.303	-6.303	0	%100
23	MP6A	X	-3.006	-3.006	0	%100
24	MP6A	Z	-5.206	-5.206	0	%100
25	MP3A	X	-3.006	-3.006	0	%100
26	MP3A	Z	-5.206	-5.206	0	%100
27	MP6B	X	-3.006	-3.006	0	%100
28	MP6B	Z	-5.206	-5.206	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	-7.054	-7.054	0	%100
3	MP1B	X	0	0	0	%100
4	MP1B	Z	-2.162	-2.162	0	%100
5	MP5B	X	0	0	0	%100
6	MP5B	Z	-2.162	-2.162	0	%100
7	MP4B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
8	MP4B	Z	-2.162	-2.162	0	%100
9	MP3B	X	0	0	0	%100
10	MP3B	Z	-2.162	-2.162	0	%100
11	MP2B	X	0	0	0	%100
12	MP2B	Z	-2.401	-2.401	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	-1.764	-1.764	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-2.162	-2.162	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	-2.162	-2.162	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	-2.162	-2.162	0	%100
21	MP2A	X	0	0	0	%100
22	MP2A	Z	-2.401	-2.401	0	%100
23	MP6A	X	0	0	0	%100
24	MP6A	Z	-2.162	-2.162	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	-2.162	-2.162	0	%100
27	MP6B	X	0	0	0	%100
28	MP6B	Z	-2.162	-2.162	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	2.645	2.645	0	%100
2	FACEB	Z	-4.582	-4.582	0	%100
3	MP1B	X	1.081	1.081	0	%100
4	MP1B	Z	-1.872	-1.872	0	%100
5	MP5B	X	1.081	1.081	0	%100
6	MP5B	Z	-1.872	-1.872	0	%100
7	MP4B	X	1.081	1.081	0	%100
8	MP4B	Z	-1.872	-1.872	0	%100
9	MP3B	X	1.081	1.081	0	%100
10	MP3B	Z	-1.872	-1.872	0	%100
11	MP2B	X	1.201	1.201	0	%100
12	MP2B	Z	-2.08	-2.08	0	%100
13	FACEA	X	2.645	2.645	0	%100
14	FACEA	Z	-4.582	-4.582	0	%100
15	MP1A	X	1.081	1.081	0	%100
16	MP1A	Z	-1.872	-1.872	0	%100
17	MP5A	X	1.081	1.081	0	%100
18	MP5A	Z	-1.872	-1.872	0	%100
19	MP4A	X	1.081	1.081	0	%100
20	MP4A	Z	-1.872	-1.872	0	%100
21	MP2A	X	1.201	1.201	0	%100
22	MP2A	Z	-2.08	-2.08	0	%100
23	MP6A	X	1.081	1.081	0	%100
24	MP6A	Z	-1.872	-1.872	0	%100
25	MP3A	X	1.081	1.081	0	%100
26	MP3A	Z	-1.872	-1.872	0	%100
27	MP6B	X	1.081	1.081	0	%100
28	MP6B	Z	-1.872	-1.872	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	1.527	1.527	0	%100
2	FACEB	Z	-0.882	-0.882	0	%100
3	MP1B	X	1.872	1.872	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft. %]	End Location[ft. %]
4	MP1B	Z	-1.081	-1.081	0	%100
5	MP5B	X	1.872	1.872	0	%100
6	MP5B	Z	-1.081	-1.081	0	%100
7	MP4B	X	1.872	1.872	0	%100
8	MP4B	Z	-1.081	-1.081	0	%100
9	MP3B	X	1.872	1.872	0	%100
10	MP3B	Z	-1.081	-1.081	0	%100
11	MP2B	X	2.08	2.08	0	%100
12	MP2B	Z	-1.201	-1.201	0	%100
13	FACEA	X	6.109	6.109	0	%100
14	FACEA	Z	-3.527	-3.527	0	%100
15	MP1A	X	1.872	1.872	0	%100
16	MP1A	Z	-1.081	-1.081	0	%100
17	MP5A	X	1.872	1.872	0	%100
18	MP5A	Z	-1.081	-1.081	0	%100
19	MP4A	X	1.872	1.872	0	%100
20	MP4A	Z	-1.081	-1.081	0	%100
21	MP2A	X	2.08	2.08	0	%100
22	MP2A	Z	-1.201	-1.201	0	%100
23	MP6A	X	1.872	1.872	0	%100
24	MP6A	Z	-1.081	-1.081	0	%100
25	MP3A	X	1.872	1.872	0	%100
26	MP3A	Z	-1.081	-1.081	0	%100
27	MP6B	X	1.872	1.872	0	%100
28	MP6B	Z	-1.081	-1.081	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft. %]	End Location[ft. %]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	0	0	0	%100
3	MP1B	X	2.162	2.162	0	%100
4	MP1B	Z	0	0	0	%100
5	MP5B	X	2.162	2.162	0	%100
6	MP5B	Z	0	0	0	%100
7	MP4B	X	2.162	2.162	0	%100
8	MP4B	Z	0	0	0	%100
9	MP3B	X	2.162	2.162	0	%100
10	MP3B	Z	0	0	0	%100
11	MP2B	X	2.401	2.401	0	%100
12	MP2B	Z	0	0	0	%100
13	FACEA	X	5.291	5.291	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	2.162	2.162	0	%100
16	MP1A	Z	0	0	0	%100
17	MP5A	X	2.162	2.162	0	%100
18	MP5A	Z	0	0	0	%100
19	MP4A	X	2.162	2.162	0	%100
20	MP4A	Z	0	0	0	%100
21	MP2A	X	2.401	2.401	0	%100
22	MP2A	Z	0	0	0	%100
23	MP6A	X	2.162	2.162	0	%100
24	MP6A	Z	0	0	0	%100
25	MP3A	X	2.162	2.162	0	%100
26	MP3A	Z	0	0	0	%100
27	MP6B	X	2.162	2.162	0	%100
28	MP6B	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....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	1.527	1.527	0	%100
2	FACEB	Z	.882	.882	0	%100
3	MP1B	X	1.872	1.872	0	%100
4	MP1B	Z	1.081	1.081	0	%100
5	MP5B	X	1.872	1.872	0	%100
6	MP5B	Z	1.081	1.081	0	%100
7	MP4B	X	1.872	1.872	0	%100
8	MP4B	Z	1.081	1.081	0	%100
9	MP3B	X	1.872	1.872	0	%100
10	MP3B	Z	1.081	1.081	0	%100
11	MP2B	X	2.08	2.08	0	%100
12	MP2B	Z	1.201	1.201	0	%100
13	FACEA	X	1.527	1.527	0	%100
14	FACEA	Z	.882	.882	0	%100
15	MP1A	X	1.872	1.872	0	%100
16	MP1A	Z	1.081	1.081	0	%100
17	MP5A	X	1.872	1.872	0	%100
18	MP5A	Z	1.081	1.081	0	%100
19	MP4A	X	1.872	1.872	0	%100
20	MP4A	Z	1.081	1.081	0	%100
21	MP2A	X	2.08	2.08	0	%100
22	MP2A	Z	1.201	1.201	0	%100
23	MP6A	X	1.872	1.872	0	%100
24	MP6A	Z	1.081	1.081	0	%100
25	MP3A	X	1.872	1.872	0	%100
26	MP3A	Z	1.081	1.081	0	%100
27	MP6B	X	1.872	1.872	0	%100
28	MP6B	Z	1.081	1.081	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	2.645	2.645	0	%100
2	FACEB	Z	4.582	4.582	0	%100
3	MP1B	X	1.081	1.081	0	%100
4	MP1B	Z	1.872	1.872	0	%100
5	MP5B	X	1.081	1.081	0	%100
6	MP5B	Z	1.872	1.872	0	%100
7	MP4B	X	1.081	1.081	0	%100
8	MP4B	Z	1.872	1.872	0	%100
9	MP3B	X	1.081	1.081	0	%100
10	MP3B	Z	1.872	1.872	0	%100
11	MP2B	X	1.201	1.201	0	%100
12	MP2B	Z	2.08	2.08	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	1.081	1.081	0	%100
16	MP1A	Z	1.872	1.872	0	%100
17	MP5A	X	1.081	1.081	0	%100
18	MP5A	Z	1.872	1.872	0	%100
19	MP4A	X	1.081	1.081	0	%100
20	MP4A	Z	1.872	1.872	0	%100
21	MP2A	X	1.201	1.201	0	%100
22	MP2A	Z	2.08	2.08	0	%100
23	MP6A	X	1.081	1.081	0	%100
24	MP6A	Z	1.872	1.872	0	%100
25	MP3A	X	1.081	1.081	0	%100
26	MP3A	Z	1.872	1.872	0	%100
27	MP6B	X	1.081	1.081	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
28	MP6B	Z	1.872	1.872	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	%100
2	FACEB	Z	7.054	7.054	0 %100
3	MP1B	X	0	0	%100
4	MP1B	Z	2.162	2.162	0 %100
5	MP5B	X	0	0	%100
6	MP5B	Z	2.162	2.162	0 %100
7	MP4B	X	0	0	%100
8	MP4B	Z	2.162	2.162	0 %100
9	MP3B	X	0	0	%100
10	MP3B	Z	2.162	2.162	0 %100
11	MP2B	X	0	0	%100
12	MP2B	Z	2.401	2.401	0 %100
13	FACEA	X	0	0	%100
14	FACEA	Z	1.764	1.764	0 %100
15	MP1A	X	0	0	%100
16	MP1A	Z	2.162	2.162	0 %100
17	MP5A	X	0	0	%100
18	MP5A	Z	2.162	2.162	0 %100
19	MP4A	X	0	0	%100
20	MP4A	Z	2.162	2.162	0 %100
21	MP2A	X	0	0	%100
22	MP2A	Z	2.401	2.401	0 %100
23	MP6A	X	0	0	%100
24	MP6A	Z	2.162	2.162	0 %100
25	MP3A	X	0	0	%100
26	MP3A	Z	2.162	2.162	0 %100
27	MP6B	X	0	0	%100
28	MP6B	Z	2.162	2.162	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-2.645	-2.645	0 %100
2	FACEB	Z	4.582	4.582	0 %100
3	MP1B	X	-1.081	-1.081	0 %100
4	MP1B	Z	1.872	1.872	0 %100
5	MP5B	X	-1.081	-1.081	0 %100
6	MP5B	Z	1.872	1.872	0 %100
7	MP4B	X	-1.081	-1.081	0 %100
8	MP4B	Z	1.872	1.872	0 %100
9	MP3B	X	-1.081	-1.081	0 %100
10	MP3B	Z	1.872	1.872	0 %100
11	MP2B	X	-1.201	-1.201	0 %100
12	MP2B	Z	2.08	2.08	0 %100
13	FACEA	X	-2.645	-2.645	0 %100
14	FACEA	Z	4.582	4.582	0 %100
15	MP1A	X	-1.081	-1.081	0 %100
16	MP1A	Z	1.872	1.872	0 %100
17	MP5A	X	-1.081	-1.081	0 %100
18	MP5A	Z	1.872	1.872	0 %100
19	MP4A	X	-1.081	-1.081	0 %100
20	MP4A	Z	1.872	1.872	0 %100
21	MP2A	X	-1.201	-1.201	0 %100
22	MP2A	Z	2.08	2.08	0 %100
23	MP6A	X	-1.081	-1.081	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
24	MP6A	Z	1.872	1.872	0	%100
25	MP3A	X	-1.081	-1.081	0	%100
26	MP3A	Z	1.872	1.872	0	%100
27	MP6B	X	-1.081	-1.081	0	%100
28	MP6B	Z	1.872	1.872	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-1.527	-1.527	0	%100
2	FACEB	Z	.882	.882	0	%100
3	MP1B	X	-1.872	-1.872	0	%100
4	MP1B	Z	1.081	1.081	0	%100
5	MP5B	X	-1.872	-1.872	0	%100
6	MP5B	Z	1.081	1.081	0	%100
7	MP4B	X	-1.872	-1.872	0	%100
8	MP4B	Z	1.081	1.081	0	%100
9	MP3B	X	-1.872	-1.872	0	%100
10	MP3B	Z	1.081	1.081	0	%100
11	MP2B	X	-2.08	-2.08	0	%100
12	MP2B	Z	1.201	1.201	0	%100
13	FACEA	X	-6.109	-6.109	0	%100
14	FACEA	Z	3.527	3.527	0	%100
15	MP1A	X	-1.872	-1.872	0	%100
16	MP1A	Z	1.081	1.081	0	%100
17	MP5A	X	-1.872	-1.872	0	%100
18	MP5A	Z	1.081	1.081	0	%100
19	MP4A	X	-1.872	-1.872	0	%100
20	MP4A	Z	1.081	1.081	0	%100
21	MP2A	X	-2.08	-2.08	0	%100
22	MP2A	Z	1.201	1.201	0	%100
23	MP6A	X	-1.872	-1.872	0	%100
24	MP6A	Z	1.081	1.081	0	%100
25	MP3A	X	-1.872	-1.872	0	%100
26	MP3A	Z	1.081	1.081	0	%100
27	MP6B	X	-1.872	-1.872	0	%100
28	MP6B	Z	1.081	1.081	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	0	0	0	%100
3	MP1B	X	-2.162	-2.162	0	%100
4	MP1B	Z	0	0	0	%100
5	MP5B	X	-2.162	-2.162	0	%100
6	MP5B	Z	0	0	0	%100
7	MP4B	X	-2.162	-2.162	0	%100
8	MP4B	Z	0	0	0	%100
9	MP3B	X	-2.162	-2.162	0	%100
10	MP3B	Z	0	0	0	%100
11	MP2B	X	-2.401	-2.401	0	%100
12	MP2B	Z	0	0	0	%100
13	FACEA	X	-5.291	-5.291	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	-2.162	-2.162	0	%100
16	MP1A	Z	0	0	0	%100
17	MP5A	X	-2.162	-2.162	0	%100
18	MP5A	Z	0	0	0	%100
19	MP4A	X	-2.162	-2.162	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
20	MP4A	Z	0	0	0	%100
21	MP2A	X	-2.401	-2.401	0	%100
22	MP2A	Z	0	0	0	%100
23	MP6A	X	-2.162	-2.162	0	%100
24	MP6A	Z	0	0	0	%100
25	MP3A	X	-2.162	-2.162	0	%100
26	MP3A	Z	0	0	0	%100
27	MP6B	X	-2.162	-2.162	0	%100
28	MP6B	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....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-1.527	-1.527	0	%100
2	FACEB	Z	-0.882	-0.882	0	%100
3	MP1B	X	-1.872	-1.872	0	%100
4	MP1B	Z	-1.081	-1.081	0	%100
5	MP5B	X	-1.872	-1.872	0	%100
6	MP5B	Z	-1.081	-1.081	0	%100
7	MP4B	X	-1.872	-1.872	0	%100
8	MP4B	Z	-1.081	-1.081	0	%100
9	MP3B	X	-1.872	-1.872	0	%100
10	MP3B	Z	-1.081	-1.081	0	%100
11	MP2B	X	-2.08	-2.08	0	%100
12	MP2B	Z	-1.201	-1.201	0	%100
13	FACEA	X	-1.527	-1.527	0	%100
14	FACEA	Z	-0.882	-0.882	0	%100
15	MP1A	X	-1.872	-1.872	0	%100
16	MP1A	Z	-1.081	-1.081	0	%100
17	MP5A	X	-1.872	-1.872	0	%100
18	MP5A	Z	-1.081	-1.081	0	%100
19	MP4A	X	-1.872	-1.872	0	%100
20	MP4A	Z	-1.081	-1.081	0	%100
21	MP2A	X	-2.08	-2.08	0	%100
22	MP2A	Z	-1.201	-1.201	0	%100
23	MP6A	X	-1.872	-1.872	0	%100
24	MP6A	Z	-1.081	-1.081	0	%100
25	MP3A	X	-1.872	-1.872	0	%100
26	MP3A	Z	-1.081	-1.081	0	%100
27	MP6B	X	-1.872	-1.872	0	%100
28	MP6B	Z	-1.081	-1.081	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-2.645	-2.645	0	%100
2	FACEB	Z	-4.582	-4.582	0	%100
3	MP1B	X	-1.081	-1.081	0	%100
4	MP1B	Z	-1.872	-1.872	0	%100
5	MP5B	X	-1.081	-1.081	0	%100
6	MP5B	Z	-1.872	-1.872	0	%100
7	MP4B	X	-1.081	-1.081	0	%100
8	MP4B	Z	-1.872	-1.872	0	%100
9	MP3B	X	-1.081	-1.081	0	%100
10	MP3B	Z	-1.872	-1.872	0	%100
11	MP2B	X	-1.201	-1.201	0	%100
12	MP2B	Z	-2.08	-2.08	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	-1.081	-1.081	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
16	MP1A	Z	-1.872	-1.872	0	%100
17	MP5A	X	-1.081	-1.081	0	%100
18	MP5A	Z	-1.872	-1.872	0	%100
19	MP4A	X	-1.081	-1.081	0	%100
20	MP4A	Z	-1.872	-1.872	0	%100
21	MP2A	X	-1.201	-1.201	0	%100
22	MP2A	Z	-2.08	-2.08	0	%100
23	MP6A	X	-1.081	-1.081	0	%100
24	MP6A	Z	-1.872	-1.872	0	%100
25	MP3A	X	-1.081	-1.081	0	%100
26	MP3A	Z	-1.872	-1.872	0	%100
27	MP6B	X	-1.081	-1.081	0	%100
28	MP6B	Z	-1.872	-1.872	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	-2.17	-2.17	0	%100
3	MP1B	X	0	0	0	%100
4	MP1B	Z	-409	-409	0	%100
5	MP5B	X	0	0	0	%100
6	MP5B	Z	-409	-409	0	%100
7	MP4B	X	0	0	0	%100
8	MP4B	Z	-409	-409	0	%100
9	MP3B	X	0	0	0	%100
10	MP3B	Z	-409	-409	0	%100
11	MP2B	X	0	0	0	%100
12	MP2B	Z	-495	-495	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	-543	-543	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-409	-409	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	-409	-409	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	-409	-409	0	%100
21	MP2A	X	0	0	0	%100
22	MP2A	Z	-495	-495	0	%100
23	MP6A	X	0	0	0	%100
24	MP6A	Z	-409	-409	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	-409	-409	0	%100
27	MP6B	X	0	0	0	%100
28	MP6B	Z	-409	-409	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	.814	.814	0	%100
2	FACEB	Z	-1.41	-1.41	0	%100
3	MP1B	X	.205	.205	0	%100
4	MP1B	Z	-.354	-.354	0	%100
5	MP5B	X	.205	.205	0	%100
6	MP5B	Z	-.354	-.354	0	%100
7	MP4B	X	.205	.205	0	%100
8	MP4B	Z	-.354	-.354	0	%100
9	MP3B	X	.205	.205	0	%100
10	MP3B	Z	-.354	-.354	0	%100
11	MP2B	X	.248	.248	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
12	MP2B	Z	-.429	-.429	0	%100
13	FACEA	X	.814	.814	0	%100
14	FACEA	Z	-1.41	-1.41	0	%100
15	MP1A	X	.205	.205	0	%100
16	MP1A	Z	-.354	-.354	0	%100
17	MP5A	X	.205	.205	0	%100
18	MP5A	Z	-.354	-.354	0	%100
19	MP4A	X	.205	.205	0	%100
20	MP4A	Z	-.354	-.354	0	%100
21	MP2A	X	.248	.248	0	%100
22	MP2A	Z	-.429	-.429	0	%100
23	MP6A	X	.205	.205	0	%100
24	MP6A	Z	-.354	-.354	0	%100
25	MP3A	X	.205	.205	0	%100
26	MP3A	Z	-.354	-.354	0	%100
27	MP6B	X	.205	.205	0	%100
28	MP6B	Z	-.354	-.354	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	.47	.47	0	%100
2	FACEB	Z	-.271	-.271	0	%100
3	MP1B	X	.354	.354	0	%100
4	MP1B	Z	-.205	-.205	0	%100
5	MP5B	X	.354	.354	0	%100
6	MP5B	Z	-.205	-.205	0	%100
7	MP4B	X	.354	.354	0	%100
8	MP4B	Z	-.205	-.205	0	%100
9	MP3B	X	.354	.354	0	%100
10	MP3B	Z	-.205	-.205	0	%100
11	MP2B	X	.429	.429	0	%100
12	MP2B	Z	-.248	-.248	0	%100
13	FACEA	X	1.88	1.88	0	%100
14	FACEA	Z	-1.085	-1.085	0	%100
15	MP1A	X	.354	.354	0	%100
16	MP1A	Z	-.205	-.205	0	%100
17	MP5A	X	.354	.354	0	%100
18	MP5A	Z	-.205	-.205	0	%100
19	MP4A	X	.354	.354	0	%100
20	MP4A	Z	-.205	-.205	0	%100
21	MP2A	X	.429	.429	0	%100
22	MP2A	Z	-.248	-.248	0	%100
23	MP6A	X	.354	.354	0	%100
24	MP6A	Z	-.205	-.205	0	%100
25	MP3A	X	.354	.354	0	%100
26	MP3A	Z	-.205	-.205	0	%100
27	MP6B	X	.354	.354	0	%100
28	MP6B	Z	-.205	-.205	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	0	0	0	%100
3	MP1B	X	.409	.409	0	%100
4	MP1B	Z	0	0	0	%100
5	MP5B	X	.409	.409	0	%100
6	MP5B	Z	0	0	0	%100
7	MP4B	X	.409	.409	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
8	MP4B	Z	0	0	0	%100
9	MP3B	X	.409	.409	0	%100
10	MP3B	Z	0	0	0	%100
11	MP2B	X	.495	.495	0	%100
12	MP2B	Z	0	0	0	%100
13	FACEA	X	1.628	1.628	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	.409	.409	0	%100
16	MP1A	Z	0	0	0	%100
17	MP5A	X	.409	.409	0	%100
18	MP5A	Z	0	0	0	%100
19	MP4A	X	.409	.409	0	%100
20	MP4A	Z	0	0	0	%100
21	MP2A	X	.495	.495	0	%100
22	MP2A	Z	0	0	0	%100
23	MP6A	X	.409	.409	0	%100
24	MP6A	Z	0	0	0	%100
25	MP3A	X	.409	.409	0	%100
26	MP3A	Z	0	0	0	%100
27	MP6B	X	.409	.409	0	%100
28	MP6B	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....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	.47	.47	0	%100
2	FACEB	Z	.271	.271	0	%100
3	MP1B	X	.354	.354	0	%100
4	MP1B	Z	.205	.205	0	%100
5	MP5B	X	.354	.354	0	%100
6	MP5B	Z	.205	.205	0	%100
7	MP4B	X	.354	.354	0	%100
8	MP4B	Z	.205	.205	0	%100
9	MP3B	X	.354	.354	0	%100
10	MP3B	Z	.205	.205	0	%100
11	MP2B	X	.429	.429	0	%100
12	MP2B	Z	.248	.248	0	%100
13	FACEA	X	.47	.47	0	%100
14	FACEA	Z	.271	.271	0	%100
15	MP1A	X	.354	.354	0	%100
16	MP1A	Z	.205	.205	0	%100
17	MP5A	X	.354	.354	0	%100
18	MP5A	Z	.205	.205	0	%100
19	MP4A	X	.354	.354	0	%100
20	MP4A	Z	.205	.205	0	%100
21	MP2A	X	.429	.429	0	%100
22	MP2A	Z	.248	.248	0	%100
23	MP6A	X	.354	.354	0	%100
24	MP6A	Z	.205	.205	0	%100
25	MP3A	X	.354	.354	0	%100
26	MP3A	Z	.205	.205	0	%100
27	MP6B	X	.354	.354	0	%100
28	MP6B	Z	.205	.205	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	.814	.814	0	%100
2	FACEB	Z	1.41	1.41	0	%100
3	MP1B	X	.205	.205	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft. %]	End Location[ft. %]
4	MP1B	Z	.354	.354	0	%100
5	MP5B	X	.205	.205	0	%100
6	MP5B	Z	.354	.354	0	%100
7	MP4B	X	.205	.205	0	%100
8	MP4B	Z	.354	.354	0	%100
9	MP3B	X	.205	.205	0	%100
10	MP3B	Z	.354	.354	0	%100
11	MP2B	X	.248	.248	0	%100
12	MP2B	Z	.429	.429	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	.205	.205	0	%100
16	MP1A	Z	.354	.354	0	%100
17	MP5A	X	.205	.205	0	%100
18	MP5A	Z	.354	.354	0	%100
19	MP4A	X	.205	.205	0	%100
20	MP4A	Z	.354	.354	0	%100
21	MP2A	X	.248	.248	0	%100
22	MP2A	Z	.429	.429	0	%100
23	MP6A	X	.205	.205	0	%100
24	MP6A	Z	.354	.354	0	%100
25	MP3A	X	.205	.205	0	%100
26	MP3A	Z	.354	.354	0	%100
27	MP6B	X	.205	.205	0	%100
28	MP6B	Z	.354	.354	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft. %]	End Location[ft. %]
1	FACEB	X	0	0	0	%100
2	FACEB	Z	2.17	2.17	0	%100
3	MP1B	X	0	0	0	%100
4	MP1B	Z	.409	.409	0	%100
5	MP5B	X	0	0	0	%100
6	MP5B	Z	.409	.409	0	%100
7	MP4B	X	0	0	0	%100
8	MP4B	Z	.409	.409	0	%100
9	MP3B	X	0	0	0	%100
10	MP3B	Z	.409	.409	0	%100
11	MP2B	X	0	0	0	%100
12	MP2B	Z	.495	.495	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	.543	.543	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	.409	.409	0	%100
17	MP5A	X	0	0	0	%100
18	MP5A	Z	.409	.409	0	%100
19	MP4A	X	0	0	0	%100
20	MP4A	Z	.409	.409	0	%100
21	MP2A	X	0	0	0	%100
22	MP2A	Z	.495	.495	0	%100
23	MP6A	X	0	0	0	%100
24	MP6A	Z	.409	.409	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	.409	.409	0	%100
27	MP6B	X	0	0	0	%100
28	MP6B	Z	.409	.409	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	- .814	- .814	0	%100
2	FACEB	Z	1.41	1.41	0	%100
3	MP1B	X	- .205	- .205	0	%100
4	MP1B	Z	.354	.354	0	%100
5	MP5B	X	- .205	- .205	0	%100
6	MP5B	Z	.354	.354	0	%100
7	MP4B	X	- .205	- .205	0	%100
8	MP4B	Z	.354	.354	0	%100
9	MP3B	X	- .205	- .205	0	%100
10	MP3B	Z	.354	.354	0	%100
11	MP2B	X	- .248	- .248	0	%100
12	MP2B	Z	.429	.429	0	%100
13	FACEA	X	- .814	- .814	0	%100
14	FACEA	Z	1.41	1.41	0	%100
15	MP1A	X	- .205	- .205	0	%100
16	MP1A	Z	.354	.354	0	%100
17	MP5A	X	- .205	- .205	0	%100
18	MP5A	Z	.354	.354	0	%100
19	MP4A	X	- .205	- .205	0	%100
20	MP4A	Z	.354	.354	0	%100
21	MP2A	X	- .248	- .248	0	%100
22	MP2A	Z	.429	.429	0	%100
23	MP6A	X	- .205	- .205	0	%100
24	MP6A	Z	.354	.354	0	%100
25	MP3A	X	- .205	- .205	0	%100
26	MP3A	Z	.354	.354	0	%100
27	MP6B	X	- .205	- .205	0	%100
28	MP6B	Z	.354	.354	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	- .47	- .47	0	%100
2	FACEB	Z	.271	.271	0	%100
3	MP1B	X	- .354	- .354	0	%100
4	MP1B	Z	.205	.205	0	%100
5	MP5B	X	- .354	- .354	0	%100
6	MP5B	Z	.205	.205	0	%100
7	MP4B	X	- .354	- .354	0	%100
8	MP4B	Z	.205	.205	0	%100
9	MP3B	X	- .354	- .354	0	%100
10	MP3B	Z	.205	.205	0	%100
11	MP2B	X	- .429	- .429	0	%100
12	MP2B	Z	.248	.248	0	%100
13	FACEA	X	- 1.88	- 1.88	0	%100
14	FACEA	Z	1.085	1.085	0	%100
15	MP1A	X	- .354	- .354	0	%100
16	MP1A	Z	.205	.205	0	%100
17	MP5A	X	- .354	- .354	0	%100
18	MP5A	Z	.205	.205	0	%100
19	MP4A	X	- .354	- .354	0	%100
20	MP4A	Z	.205	.205	0	%100
21	MP2A	X	- .429	- .429	0	%100
22	MP2A	Z	.248	.248	0	%100
23	MP6A	X	- .354	- .354	0	%100
24	MP6A	Z	.205	.205	0	%100
25	MP3A	X	- .354	- .354	0	%100
26	MP3A	Z	.205	.205	0	%100
27	MP6B	X	- .354	- .354	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
28	MP6B	Z	.205	.205	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	0	0	%100
2	FACEB	Z	0	0	%100
3	MP1B	X	-409	-409	%100
4	MP1B	Z	0	0	%100
5	MP5B	X	-409	-409	%100
6	MP5B	Z	0	0	%100
7	MP4B	X	-409	-409	%100
8	MP4B	Z	0	0	%100
9	MP3B	X	-409	-409	%100
10	MP3B	Z	0	0	%100
11	MP2B	X	-495	-495	%100
12	MP2B	Z	0	0	%100
13	FACEA	X	-1.628	-1.628	%100
14	FACEA	Z	0	0	%100
15	MP1A	X	-409	-409	%100
16	MP1A	Z	0	0	%100
17	MP5A	X	-409	-409	%100
18	MP5A	Z	0	0	%100
19	MP4A	X	-409	-409	%100
20	MP4A	Z	0	0	%100
21	MP2A	X	-495	-495	%100
22	MP2A	Z	0	0	%100
23	MP6A	X	-409	-409	%100
24	MP6A	Z	0	0	%100
25	MP3A	X	-409	-409	%100
26	MP3A	Z	0	0	%100
27	MP6B	X	-409	-409	%100
28	MP6B	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-.47	-.47	0 %100
2	FACEB	Z	-.271	-.271	0 %100
3	MP1B	X	-.354	-.354	0 %100
4	MP1B	Z	-.205	-.205	0 %100
5	MP5B	X	-.354	-.354	0 %100
6	MP5B	Z	-.205	-.205	0 %100
7	MP4B	X	-.354	-.354	0 %100
8	MP4B	Z	-.205	-.205	0 %100
9	MP3B	X	-.354	-.354	0 %100
10	MP3B	Z	-.205	-.205	0 %100
11	MP2B	X	-.429	-.429	0 %100
12	MP2B	Z	-.248	-.248	0 %100
13	FACEA	X	-.47	-.47	0 %100
14	FACEA	Z	-.271	-.271	0 %100
15	MP1A	X	-.354	-.354	0 %100
16	MP1A	Z	-.205	-.205	0 %100
17	MP5A	X	-.354	-.354	0 %100
18	MP5A	Z	-.205	-.205	0 %100
19	MP4A	X	-.354	-.354	0 %100
20	MP4A	Z	-.205	-.205	0 %100
21	MP2A	X	-.429	-.429	0 %100
22	MP2A	Z	-.248	-.248	0 %100
23	MP6A	X	-.354	-.354	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
24	MP6A	Z	-205	-205	0	%100
25	MP3A	X	-354	-354	0	%100
26	MP3A	Z	-205	-205	0	%100
27	MP6B	X	-354	-354	0	%100
28	MP6B	Z	-205	-205	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft.%]	End Location[ft.%]
1	FACEB	X	-814	-814	0	%100
2	FACEB	Z	-1.41	-1.41	0	%100
3	MP1B	X	-205	-205	0	%100
4	MP1B	Z	-354	-354	0	%100
5	MP5B	X	-205	-205	0	%100
6	MP5B	Z	-354	-354	0	%100
7	MP4B	X	-205	-205	0	%100
8	MP4B	Z	-354	-354	0	%100
9	MP3B	X	-205	-205	0	%100
10	MP3B	Z	-354	-354	0	%100
11	MP2B	X	-248	-248	0	%100
12	MP2B	Z	-429	-429	0	%100
13	FACEA	X	0	0	0	%100
14	FACEA	Z	0	0	0	%100
15	MP1A	X	-205	-205	0	%100
16	MP1A	Z	-354	-354	0	%100
17	MP5A	X	-205	-205	0	%100
18	MP5A	Z	-354	-354	0	%100
19	MP4A	X	-205	-205	0	%100
20	MP4A	Z	-354	-354	0	%100
21	MP2A	X	-248	-248	0	%100
22	MP2A	Z	-429	-429	0	%100
23	MP6A	X	-205	-205	0	%100
24	MP6A	Z	-354	-354	0	%100
25	MP3A	X	-205	-205	0	%100
26	MP3A	Z	-354	-354	0	%100
27	MP6B	X	-205	-205	0	%100
28	MP6B	Z	-354	-354	0	%100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

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	N71	max	1927.24	9	3818.315	32	146.469	10	0	75	0	75	0	75
2		min	-1927.455	3	-923.427	2	-146.175	4	0	1	0	1	0	1
3	N67B	max	1927.24	9	6851.057	30	366.443	2	0	75	0	75	0	75
4		min	-1927.455	3	-105.971	12	-366.109	8	0	1	0	1	0	1
5	N72	max	1514.53	3	225.825	12	161.84	1	0	75	0	75	0	75
6		min	-1514.303	9	-5842.242	30	-161.852	7	0	1	0	1	0	1
7	N68C	max	1514.53	3	935.265	2	220.352	2	0	75	0	75	0	75
8		min	-1514.303	9	-3495.877	32	-220.309	8	0	1	0	1	0	1
9	N96	max	1131.9	1	2742.862	14	1673.383	1	0	75	0	75	0	75
10		min	-1132.046	7	8.14	8	-1673.593	7	0	1	0	1	0	1
11	N97	max	711.626	7	-489.341	10	1613.142	7	0	75	0	75	0	75
12		min	-711.508	1	-3785.397	16	-1612.899	1	0	1	0	1	0	1

Envelope Joint Reactions (Continued)

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
13	N100	max	751.969	1	4260.688	16	1892.737	1	0	75	0	75	0	75
14		min	-752.054	7	738.01	10	-1892.982	7	0	1	0	1	0	1
15	N101	max	1172.507	7	245.966	8	1347.053	7	0	75	0	75	0	75
16		min	-1172.332	1	-2269.529	14	-1346.842	1	0	1	0	1	0	1
17	N121	max	1172.261	7	5979.119	22	3154.03	1	0	75	0	75	0	75
18		min	-1171.966	1	389.06	4	-3154.848	7	0	1	0	1	0	1
19	N122	max	1637.852	1	686.387	6	2429.5	7	0	75	0	75	0	75
20		min	-1638.311	7	-3037.028	24	-2428.758	1	0	1	0	1	0	1
21	N123	max	933.833	9	3286.489	10	1930.31	3	0	75	0	75	0	75
22		min	-933.959	3	-968.05	4	-1930.031	9	0	1	0	1	0	1
23	N124	max	1111.42	3	547.343	6	1516.195	9	0	75	0	75	0	75
24		min	-1111.236	9	-3977.22	24	-1516.457	3	0	1	0	1	0	1
25	N125	max	1946.37	7	3355.339	24	2707.238	1	0	75	0	75	0	75
26		min	-1945.833	1	-670.142	6	-2707.916	7	0	1	0	1	0	1
27	N126	max	1479.917	1	-134.387	4	2520.696	7	0	75	0	75	0	75
28		min	-1480.354	7	-5071.167	22	-2519.942	1	0	1	0	1	0	1
29	N127	max	1339.373	9	4543.468	24	1696.13	3	0	75	0	75	0	75
30		min	-1339.571	3	-415.907	6	-1695.892	9	0	1	0	1	0	1
31	N128	max	622.728	3	1174.048	4	1798.303	9	0	75	0	75	0	75
32		min	-622.612	9	-2968.09	10	-1798.604	3	0	1	0	1	0	1
33	Totals:	max	2860.923	10	4321.731	21	2925.592	1						
34		min	-2860.923	4	1499.192	66	-2925.592	7						

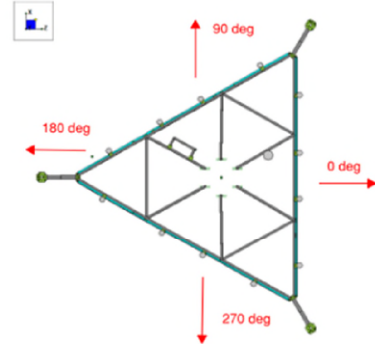
Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shear	...	Loc[ft]	Dir	LC	phi*Pnc	...	phi*Pnt	...	phi*Mn y	...	phi*Mn z	Cb	Eqn
1	FACEB	W8X24	.215	2.444	1	.422	6.569	z	1	132646...	318600	32.138	86.625	2...	H1-1b			
2	MP1B	PIPE 2.0	.225	4.818	9	.035	4.818	12	20114.4...	32130	1.872	1.872	1...	H1-1b				
3	MP5B	PIPE 2.0	.224	4.818	9	.035	4.818	12	20114.4...	32130	1.872	1.872	1...	H1-1b				
4	MP4B	PIPE 2.0	.162	4.557	10	.029	4.557	3	20114.4...	32130	1.872	1.872	3...	H1-1b				
5	MP3B	PIPE 2.0	.095	4.479	10	.015	4.479	12	17356.7...	32130	1.872	1.872	2...	H1-1b				
6	MP2B	PIPE 2.5	.293	5.125	10	.052	5.125	1	37773.8...	50715	3.596	3.596	2...	H1-1b				
7	FACEA	W8X24	.167	12.222	9	.374	8.097	z	9	132646...	318600	32.138	86.625	2...	H1-1b			
8	MP1A	PIPE 2.0	.224	4.818	6	.035	4.818	9	20114.4...	32130	1.872	1.872	1...	H1-1b				
9	MP5A	PIPE 2.0	.224	4.818	6	.035	4.818	9	20114.4...	32130	1.872	1.872	1...	H1-1b				
10	MP4A	PIPE 2.0	.410	4.875	6	.059	4.875	10	20866.7...	32130	1.872	1.872	1...	H1-1b				
11	MP2A	PIPE 2.0	.106	4.557	6	.017	4.557	8	20114.4...	32130	1.872	1.872	2...	H1-1b				
12	MP6A	PIPE 2.0	.034	4.5	9	.003	4.5	9	22845.3...	32130	1.872	1.872	1...	H1-1b				
13	MP3A	PIPE 2.5	.397	6.122	6	.092	6.122	9	33311.7...	50715	3.596	3.596	1...	H1-1b				
14	MP6B	PIPE 2.0	.061	6.122	1	.004	6.122	1	17356.7...	32130	1.872	1.872	1	H1-1b				

I. Mount-to-Tower Connection Check

Custom Orientation Required Yes

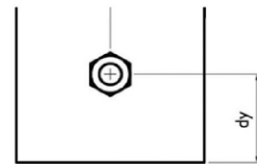
Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N121	240
N125	240
N101	300
N97	300
N123	60
N127	60
N72	0
N68C	0



Tower Connection Bolt Checks Yes

Bolt Orientation Vertical (bottom)

Bolt Quantity per Reaction:	1
d_x (in) (Delta X of typ. bolt config. sketch):	2
d_y (in) (Delta Y of typ. bolt config. sketch):	2
Bolt Type:	A325N
Bolt Diameter (in):	0.5
Required Tensile Strength / bolt (kips):	5.8
Required Shear Strength / bolt (kips):	0.1
Tensile Capacity / bolt (kips):	13.3
Shear Capacity / bolt (kips):	8.0
Bolt Overall Utilization:	43.6%



NO MOMENT RESISTANCE

Tower Connection Baseplate Checks No

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID: 467555-VZW / DANBURY S CT
Site Name: DANBURY S CT
Carrier Name: Verizon Wireless
Address: 144 Post Rd.
Danbury, Connecticut 06810,
Fairfield County
Latitude: 41.359531°
Longitude: -73.465481°

Structure Information

Tower Type: 66-Ft Self Support
Mount Type: 14.67-Ft Sector Frame

FUZE ID # 16502125

To Whom It May Concern,

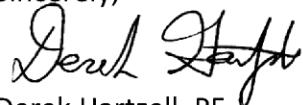
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

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

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

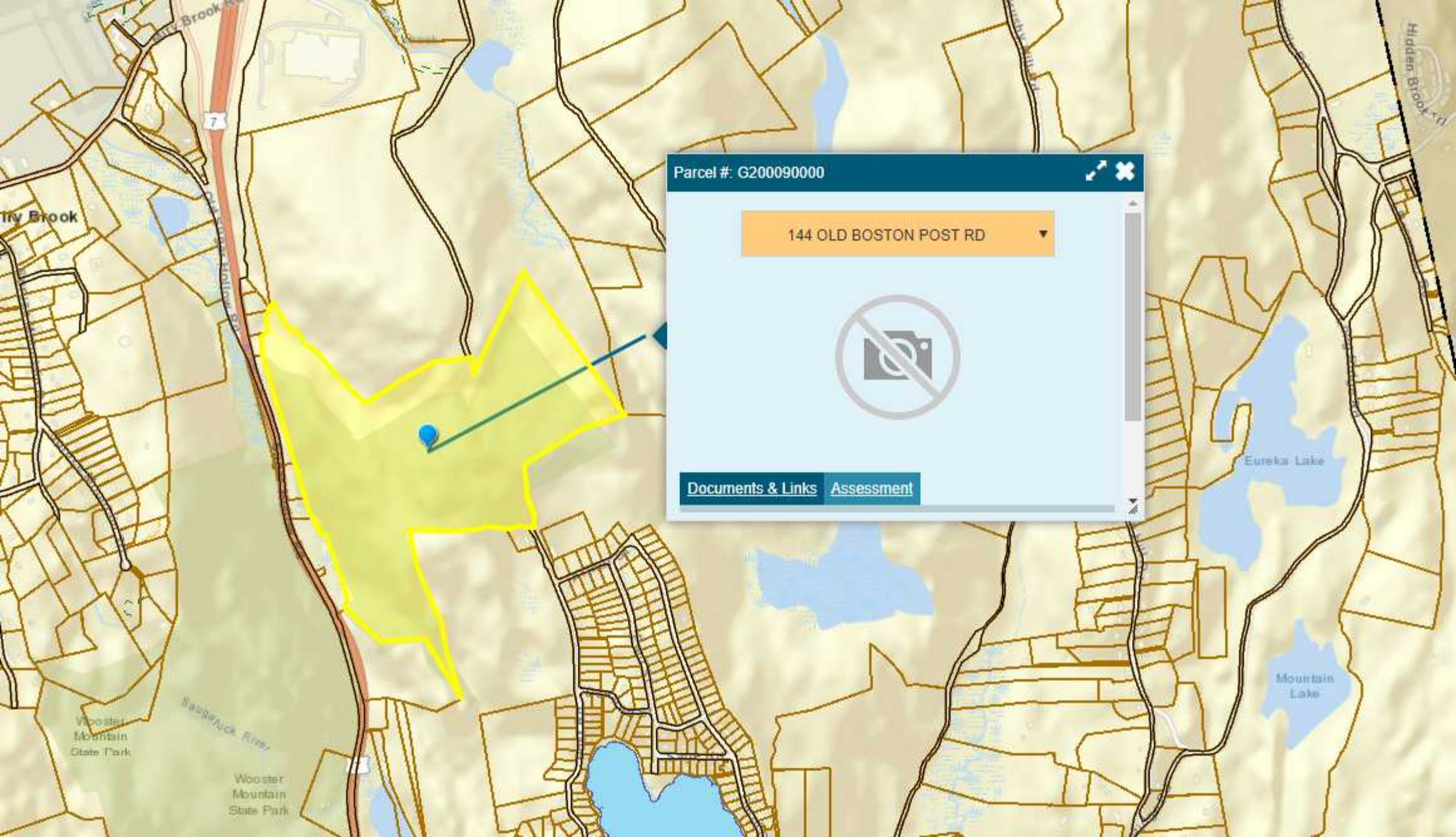
The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural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

Sincerely,




Derek Hartzell, PE
Technical Specialist

ATTACHMENT 4



Parcel #: G200090000

144 OLD BOSTON POST RD



[Documents & Links](#) [Assessment](#)

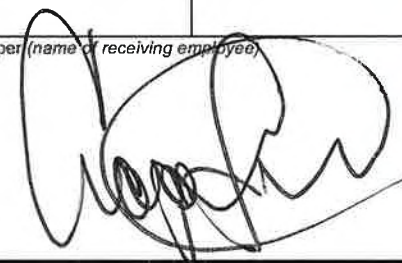



Location:	144 OLD BOSTON POST RD			Map Id:	G20 9 1	Zone:	RA80	Date Printed:	10/17/2022		
				Neighborhood:	Waubeeka			Last Update:	10/17/2022		
Owner Of Record				Volume/Page	Date	Sales Type		Valid	Sale Price		
STATE OF CONNECTICUT				0000/0000				No	0		
PARK, 210 CAPITOL AVE STE 1, HARTFORD, CT 06106						Exempt					
Prior Owner History											
Permit Number	Date	Permit Description									
59483	12/13/2016	3 ANTENMNAS									
57171		REPLACING 6 ANTENNAS									
Supplemental Data											
Census/Tract	2105	VisionPID	24537	Appraised Value							
Dev Map ID		Street Description	Paved	Total Land Value	9,000						
GIS ID		TC MAP	4638	Total Building Value	0						
Route	F4-G4	TC LOT	1	Total Outbdg Value	0						
District		TOPO	Wetland	Total Market Value	9,000						
Utilities											
Acres				State Item Codes							
Land Type	Acres	490	Total Value	Code	Quantity	Value					
490 Excess	89.30	89.30		62-Forest	91.30	15,300					
490 Excess	2.00	2.00									
Total	9,000										
Assessment History (Prior Years as of Oct 1)						490 Appraised Totals					
	2022	2021	2020	2019	2018	Type	Acres	Value	Type	Acres	Value
Land	15,300	15,300	6,300	6,300	6,300	Forest	91.30	21912			
Building	0	0	0	0	0						
Outbuilding	0	0	0	0	0						
Total	15,300	15,300	6,300	6,300	6,300	Totals		91.30	21912		
						Application Date:	Expiration Date:				
Comments											

Location:	144 OLD BOSTON POST RD			
Map Id:	G20 9 1			
General Description	Description	Area/Qty		
Building Use Units Overall Condition Class Stories Design (Style) Construction Year Built Percent Complete				
Finished Area				
Foundation				
Basement Area Finished Basement Garage Bays Outside Entry Sump Pump				
Attached Components				
HVAC		Type	Year	Area
Heating Type Fuel Cooling Type				
Interior				
Floors Attic Access Walls Bath Cond Kitchen Cond				
Exterior				
Exterior Roof Cover Roof Type				
Special Features				
Type		Count/Area		
Total Building Value:				
Detached Component Computations				
Type	Year	Condition	Area/Qty	
Room Summary				
Total	Bedroom	Kitchens	Half Baths	

ATTACHMENT 5



DANBURY SOUTH
Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here Postmark with Date of Receipt.		
	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.	Dean Esposito, Mayor City of Danbury 155 Deer Hill Avenue Danbury, CT 06810				
2.	Sharon Calitro, Director of Planning and Zoning City of Danbury 155 Deer Hill Avenue Danbury, CT 06810				
3.	State of Connecticut Park 210 Capital Avenue, STE #1 Hartford, CT 06106				
4.					
5.					
6.					