

KENNETH C. BALDWIN

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Also admitted in Massachusetts  
and New York

January 13, 2022

*Via Electronic Mail*

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

Re: **Notice of Exempt Modification – Facility Modification  
106 Willenbrock Road, Oxford, 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 tower. The tower was approved by the Town of Oxford in October of 2000. Cellco’s shared use of the tower was approved by the Siting Council (“Council”) in April of 2001 (TS-VER-108-010327). A copy of the Town’s approval and Council’s TS-VER-108-010327 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing nine (9) antennas and installing (3) new Samsung MT6407-77A antennas and six (6) new NHH-65B-R2B antennas on Cellco’s existing antenna platform. 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 the specifications for Cellco’s new antennas and RRHs are included in Attachment 2. Cellco refers to this facility as it Southford facility.

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 Oxford’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.  
January 13, 2022  
Page 2

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. Cellco's replacement antennas will be installed on its existing antenna platform.
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 General Power Density table for Cellco's modified facility is included in Attachment 3. 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 platform and mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Melanie A. Bachman, Esq.  
January 13, 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:

George Temple, Oxford First Selectman  
Steven Macary, Zoning Enforcement Officer  
Tower Business Park LLC, Property Owner  
Karla Hanna, Verizon Wireless

# **ATTACHMENT 1**



# TOWN OF OXFORD

S.B. CHURCH MEMORIAL TOWN HALL

486 OXFORD ROAD, OXFORD, CONNECTICUT 06478

CT 3109-5

PLANNING & ZONING COMMISSION

October 10, 2000

Mr. Thomas Flynn, III  
SBA, Inc.  
80 Eastern Boulevard  
Glastonbury, CT 06033

Re: Z-00-124 SBA, Inc./Sprint PCS (S/E - Wireless Telecommunication Facility)

Dear Mr. Flynn:

At the Planning & Zoning Commission meeting of 10/5/00, approval of the above-referenced application came with the following motion:

**MOTION** was made by Vincent Vizzo and seconded by John Barnes to approve Application Z-00-124 SBA, Inc. (as amended with new co-applicant Sprint PCS on Lot 5 Willenbrock Road). Applicant and their assigns must comply with all representations made at P&Z Commission meetings and public hearings regarding this application. They must also comply with all contracted planner comments. An amount for a completion bond and dismantling bond will be sent by P&Z Engineer in a form acceptable to Town Counsel. Mr. Flynn will provide the P&Z Engineer with bond amounts they have pre-calculated, as a courtesy. No material will be substituted without approval from the P&Z Commission and P&Z Engineer. Per Article 3, Section 19.9 of the Zoning Regulations, the applicant shall be responsible for rendering payment for any outside experts the Commission assigns to review this application. Reason for approval is that it meets the Oxford Zoning Regulations in effect as of this date. All were in favor.

Your copies of the approved permit are enclosed. If you have any questions, please contact me.

Sincerely,

Dave Robinson, Chairman  
Planning & Zoning Commission

DR/ikc

Enclosure

**Certified/Return Receipt**

April 16, 2001

Sandy M. Carter  
Verizon Wireless  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492

RE: **TS-VER-108-010327** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 106 Willenbrock Road, Oxford, Connecticut.

Dear Ms. Carter:

At a public meeting held April 12, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

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

The proposed shared use is to be implemented as specified in your letter dated March 26, 2001.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston  
Chairman

MAG/RKE/laf

c: Honorable Paul T. Schreiber, First Selectman, Town of Oxford  
Dave Robinson, Planning & Zoning Chairman, Town of Oxford  
Esther McNany, SBA, Inc.  
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae

# **ATTACHMENT 2**



# WIRELESS COMMUNICATIONS FACILITY

**SOUTHFORD CT  
106 WILLENBROCK RD.  
OXFORD, CT 06478**

## DRAWING INDEX

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

## SITE DIRECTIONS

**START: 20 ALEXANDER DRIVE  
WALLINGFORD, CONNECTICUT 06492**

**END: 106 WILLENBROCK RD.  
OXFORD, CT 06478**

- |  |         |
|--|---------|
| 1. HEAD SOUTH TOWARDS ALEXANDER DRIVE                                  | 279 FT  |
| 2. SLIGHT RIGHT TOWARDS ALEXANDER DRIVE                                | 289 FT  |
| 3. TURN RIGHT TOWARDS ALEXANDER DRIVE                                  | 167 FT  |
| 4. TURN RIGHT ONTO ALEXANDER DRIVE                                     | 0.3 MI  |
| 5. TURN RIGHT ONTO BARNES INDUSTRIAL PARK ROAD                         | 0.1 MI  |
| 6. TURN LEFT AT FIRST CROSS STREET ONTO CT-68W                         | 0.4 MI  |
| 7. TURN RIGHT  | 0.2 MI  |
| 8. TURN RIGHT ONTO N COLONY ROAD                                       | 0.3 MI  |
| 9. TURN RIGHT TO MERGE ONTO CT-15 TOWARD HARTFORD                      | 0.5 MI  |
| 10. MERGE ONTO CT-15 N   | 3.1 FT  |
| 11. USE MIDDLE LANE TO STAY ON CT-15 N                                 | 0.1 MI  |
| 12. TAKE EXIT 68W TO MERGE ONTO I-891 W TOWARD MERIDEN/DANBURY         | 7.7 MI  |
| 13. USE ANY LANE TO TAKE EXIT 1 FOR I-84 W TOWARD WATERBURY/DANBURY    | 1.2 MI  |
| 14. MERGE ONTO I-84  | 1.6 MI  |
| 15. KEEP LEFT TO STAY ON I-84  | 13.3 MI |
| 16. TAKE EXIT 16 FOR CT-188 TOWARD SOUTHBURY                           | 0.3 MI  |
| 17. TURN LEFT ONTO CT-188  | 0.4 MI  |
| 18. SHARP LEFT ONTO BRISTOL TOWN ROAD                                  | 1.4 MI  |
| 19. TURN RIGHT ONTO POPE ROAD  | 0.6 MI  |
| 20. TURN LEFT ONTO HAWLEY ROAD   | 0.2 MI  |
| 21. TURN RIGHT ONTO WILLENBROCK ROAD (DESTINATION WILL BE ON THE LEFT) | 0.3 MI  |



**LOCATION MAP**  
SCALE: 1" = 200'-0"

## SITE INFORMATION

VZ SITE NAME: SOUTHFORD CT  
VZ PROJ FUZE I.D.: 16486640  
VZ LOCATION CODE: 467915  
VZ PROJECT CODE: 20212261287  
LOCATION: 106 WILLENBROCK RD.  
OXFORD, CT 06478

PROJECT SCOPE: REFER TO NOTES ON DRAWING C-1 FOR SCOPE OF WORK.

MAP-LOT: 18/29/21-5CELL

ZONING DISTRICT: IND (INDUSTRIAL)

LATITUDE: 41° 27' 54.396" N (41.46511° N)

LONGITUDE: 73° 08' 45.9996" W (73.146111° W)

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

GROUND ELEVATION: 553± AMSL

PROPERTY OWNER: TOWER BUSINESS PARK LLC  
106 WILLENBROCK RD.  
MA: 15 BATES PLACE  
DANBURY, CT 06810

TOWER OWNER: SBA TOWERS INC.  
8051 CONGRESS AVE.  
BOCA RATON, FL 33487

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 06385  
(860) 663-1697

VERIZON SMART TOOL PROJECT #: 10071873; 10109013

Cellco Partnership d/b/a



20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492



567 VAUXHALL STREET EXTENSION - SUITE 311  
WATERFORD, CT 06385 PHONE: (860) 663-1697  
WWW.ALLPOINTSTECH.COM FAX: (860) 663-0935

### CONSTRUCTION DOCUMENTS

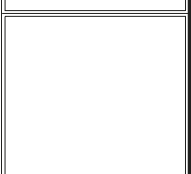
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0	09/28/21	FOR REVIEW- JRM
1	12/14/21	FOR FILING- JRM
2		
3		
4		
5		
6		



### 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 06385

OWNER: SBA TOWERS INC.  
ADDRESS: 8051 CONGRESS AVE.  
BOCA RATON, FL 33487



### SOUTHFORD CT

SITE: 106 WILLENBROCK RD.  
ADDRESS: OXFORD, CT 06478

APT FILING NUMBER: CT141\_12890

DRAWN BY: DRA

DATE: 09/28/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212261287

VZ LOCATION CODE: 467915

VZ FUZE ID: 16486640

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1





20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492



567 VAUXHALL STREET EXTENSION - SUITE 311  
WATERFORD, CT 06385 PHONE: (860) 663-9697  
WWW.ALLPOINTSCT.COM FAX: (860) 663-9939

CONSTRUCTION DOCUMENTS		
NO	DATE	REVISION
0	09/28/21	FOR REVIEW - JRM
1	12/14/21	FOR FILING - JRM
2		
3		
4		
5		
6		



**DESIGN PROFESSIONALS OF RECORD**  
**PROF. MICHAEL S. TRODDEN P.E.**  
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.  
ADDR: 567 VAUXHALL STREET EXT. SUITE 311  
WATERFORD, CT 06385  
OWNER: SBA TOWERS INC.  
ADDRESS: 8051 CONGRESS AVE. BOCA RATON, FL 33487

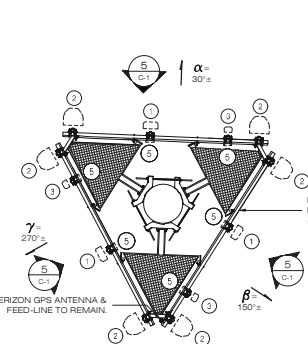
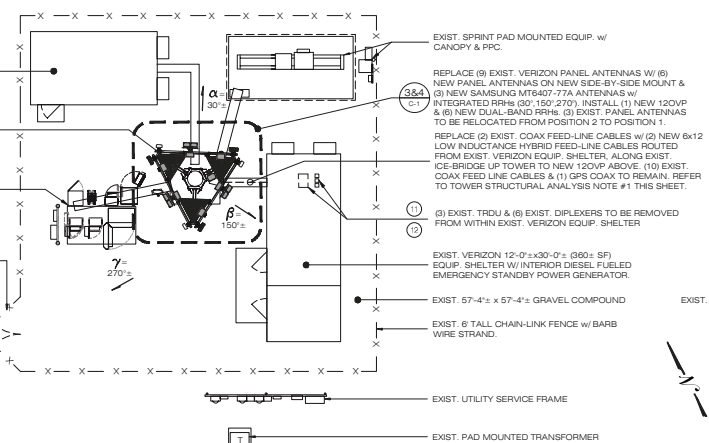
**SOUTHFORD CT**  
SITE: 106 WILLENROCK RD.  
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CHECKED BY: DRG  
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**SHEET TITLE:**  
**COMPOUND PLAN, TOWER ELEVATION, EQUIP. CONFIGURATION PLANS & ELEVATIONS**

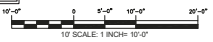
SHEET NUMBER:  
**C-1**

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

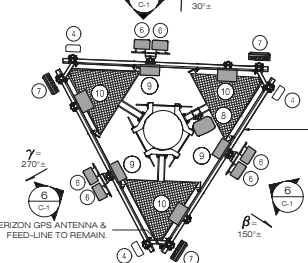
- NOTES:**
- REFER TO TOWER STRUCTURAL ANALYSIS PREPARED REPORT BY TOWER ENGINEERING SOLUTIONS DATED 11/6/21 AVAILABLE UNDER SEPARATE COVER.
  - REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, CONNECTICUT, PROJECT #21781060A MARKED REV'D DATED 10/12/21 AVAILABLE UNDER SEPARATE COVER.
  - REFER TO POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWINGS PREPARED BY MASER CONSULTING, CONNECTICUT, PROJECT #21781060A DATED 10/25/21 AVAILABLE UNDER SEPARATE COVER.
  - BASE MAPPING OBTAINED FROM FIELD MEASUREMENTS CONDUCTED BY ALL-POINTS TECHNOLOGY CORPORATION, P.C. ON 08/20/21.
  - PROJECT SCOPE INCLUDES THE FOLLOWING:
    - REPLACEMENT OF (6) EXIST. PANEL ANTENNAS w/ (6) NEW PANEL ANTENNAS ON NEW SIDE-BY-SIDE MOUNTS (COMMSCOPE BSAMNT-SBS-1-2)
    - REPLACEMENT OF (3) EXIST. PANEL ANTENNAS w/ (3) NEW SAMSUNG MT6407-77A ANTENNAS w/ INTEGRATED RRHs.
    - INSTALLATION OF (6) NEW DUAL BAND RRHs.
    - INSTALLATION OF (1) NEW 120VP (BETA).
    - REPLACEMENT OF (3) EXIST. COAX FEED-LINE CABLES w/ (2) NEW 6x12 LOW-INDUCTANCE HYBRID FEED-LINE CABLES.
    - REMOVAL OF (1) B13 TRDU & (6) CROSSBAND COUPLERS FROM WITHIN EXIST. VERIZON EQUIP. SHELTER.
  - ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG), PAINT TO MATCH EXIST. (WHERE APPLICABLE).
  - CAP & WEATHERPROOF ALL LIN-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.
  - BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR w/ # 2 AWG. BCW, (WHERE APPLICABLE).
  - CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURERS RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. 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 OTHERWISE NOTED).
  - 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 CABLEING & DOWN-TILT INFORMATION.
  - COORDINATE ALL LSUB8 COLOR MATCHING (WHERE APPLICABLE) W/ LSUB8 MANUFACTURER INSTALLATION REQUIREMENTS, VERIZON CONSTRUCTION MANAGER & OWNER.
  - PAINT ALL NEW NON LSUB8 ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.



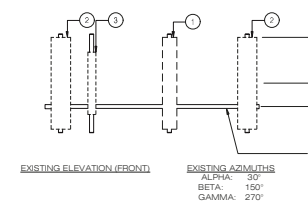
**1 COMPOUND PLAN**  
C-1 SCALE: 1" = 10'-0"



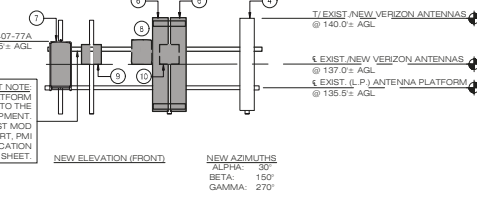
**3 EQUIP. CONFIG. PLAN (EXIST.)**  
C-1 SCALE: 1/2" = 1'-0"



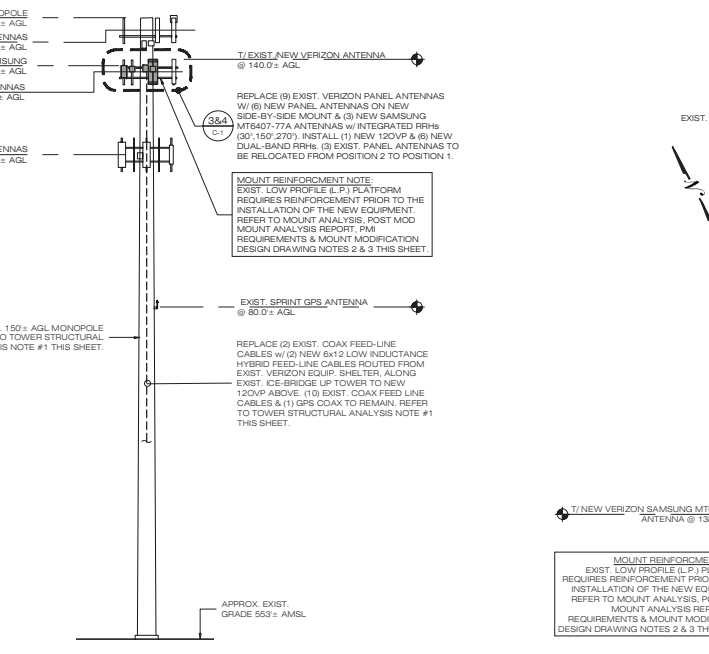
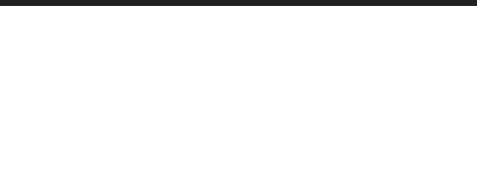
**4 EQUIP. CONFIG. PLAN (NEW)**  
C-1 SCALE: 1/2" = 1'-0"



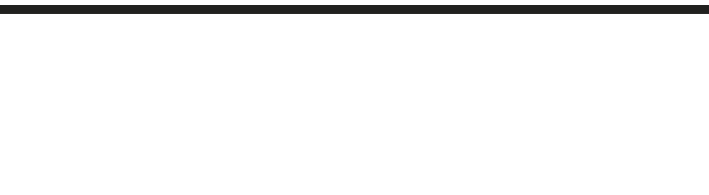
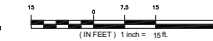
**5 EQUIP. MOUNTING CONFIG. - TYPICAL (EXIST.)**  
C-1 SCALE: 1/2" = 1'-0"



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

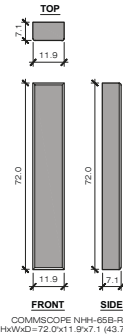


**2 TOWER ELEVATION**  
C-1 SCALE: 1" = 15'-0"



EQUIPMENT DATA									
EQUIPMENT SPECIFICATIONS									
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (ft)	WIDTH (ft)	DEPTH (ft)	WEIGHT (LBS)	
ALPHA	SPARE 700. ANTEL BXA-70063-6CF	1	30°	ERL	71.0	11.2	5.2	17.0 <sup>(2)</sup>	
	700B502100/CBRS, COMMSCOPE NHH-65B-R2B	1	30°	NEW	72.0	11.9	7.1	43.7 <sup>(3)</sup>	
	700B501900, COMMSCOPE NHH-65B-R2B	1	30°	NEW	72.0	11.9	7.1	43.7 <sup>(3)</sup>	
BETA	SAMSUNG MT6407-77A	1	30°	NEW	35.1 <sup>(4)</sup>	16.1 <sup>(4)</sup>	5.5 <sup>(5)</sup>	87.1 <sup>(2)(3)</sup>	
	SPARE 700. ANTEL BXA-70063-6CF	1	150°	ERL	71.0	11.2	5.2	17.0 <sup>(2)</sup>	
	700B502100/CBRS, COMMSCOPE NHH-65B-R2B	1	150°	NEW	72.0	11.9	7.1	43.7 <sup>(3)</sup>	
GAMMA	700B501900, COMMSCOPE NHH-65B-R2B	1	150°	NEW	72.0	11.9	7.1	43.7 <sup>(3)</sup>	
	SAMSUNG MT6407-77A	1	150°	NEW	35.1 <sup>(4)</sup>	16.1 <sup>(4)</sup>	5.5 <sup>(5)</sup>	87.1 <sup>(2)(3)</sup>	
	SPARE 700. ANTEL BXA-70063-6CF	1	270°	ERL	71.0	11.2	5.2	17.0 <sup>(2)</sup>	
	700B502100/CBRS, COMMSCOPE NHH-65B-R2B	1	270°	NEW	72.0	11.9	7.1	43.7 <sup>(3)</sup>	
	700B501900, COMMSCOPE NHH-65B-R2B	1	270°	NEW	72.0	11.9	7.1	43.7 <sup>(3)</sup>	
	SAMSUNG MT6407-77A	1	270°	NEW	35.1 <sup>(4)</sup>	16.1 <sup>(4)</sup>	5.5 <sup>(5)</sup>	87.1 <sup>(2)(3)</sup>	
	APPURTENANCE MAKE/MODEL								
	SAMSUNG B2/B66A RRH (RF4439d-25A)	3	-	NEW	15.0	15.0	10.1	97.5	
	SAMSUNG B5/B13 RRH (RF440g-13A)	3	-	NEW	15.0	15.0	9.1	82.0	
	RAYCAP RVZDC-6627-PF-48	1	-	NEW	29.5	16.5	12.6	32.0	

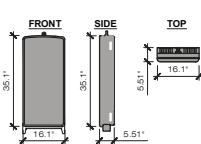
- (1) ETR DENOTES EXIST. TO REMAIN. ETR DENOTES EXIST. RELOCATED  
(2) WEIGHT WITHOUT MOUNTING BRACKET  
(3) ANTENNA DATA BASED ON RFDS REV DATED 07/22/21  
(4) EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND  
(5) NOT TO EXCEED



**2 NEW ANTENNA DETAIL**  
SCALE: 3/4" = 1'-0"

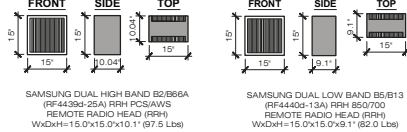
BILL OF MATERIALS				COMMENTS
DESCRIPTION	QUANTITY	LENGTH		
700B5019002100	6			COMMSCOPE NHH-65B-R2B MOUNTED TO PIPE MAST VIA NEW SBS MOUNT (COMMSCOPE BSAMNT-SBS-1-2)
LSUB8 ANTENNA w/ INTEGRATED RRH	3			SAMSUNG MT6407-77A
1/2" JUMPER CABLE	36	15 FT		ROUTE FROM RRH TO ANTENNAS
ANTENNA LINK CABLES	6	15 M		ROUTE FROM UPPER OVP TO ANTENNAS
ANTENNA POWER CABLES	3	15 M		PROPRIETARY POWER CABLE FROM EXIST. OVP TO ANTENNAS
700B50 RRH	3			SAMSUNG B5/B13 RRH (RF4440g-13A)
AWS/PCS RRH	3			SAMSUNG B2/B66 RRH (RF4439d-25A)
RRH CABLES	6	15M		PROPRIETARY POWER & FIBER CABLES
UPPER 120VVP	1			(RAYCAP RVZDC-6627-PF-48)
HYBRID CABLES	2	150± FT		6x12 LOW INDUCTANCE HYBRID CABLES

- NOTES:  
1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.  
2. INFORMATION IS BASED ON RFDS REV DATED 07/22/21.  
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 UP-CONVERTERS LOCATED AT BASE OVPS WHERE REQUIRED. COORDINATE W/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.  
6. COORDINATE ANTENNA CABLING 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.



SAMSUNG MT6407-77A ANTENNA  
HWWD=35.1x16.1x5.51"  
WT=87.1 Lbs  
(NOT TO EXCEED)

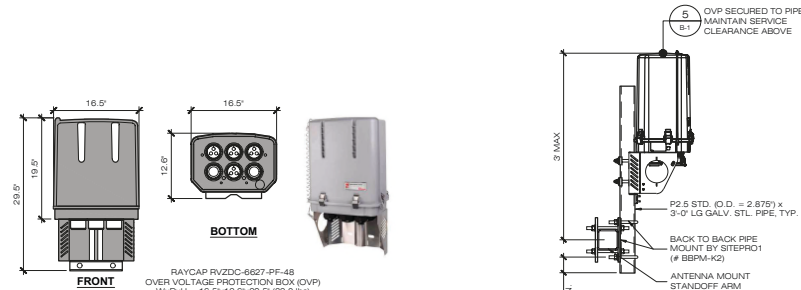
**3 NEW ANTENNA DETAIL**  
SCALE: 3/4" = 1'-0"



SAMSUNG DUAL HIGH BAND B2/B66A (RF4439d-25A) RRH PCS/AWS REMOTE RADIO HEAD (RRH)  
WxDxH=15.0x15.0x10.1" (97.5 Lbs)  
SAMSUNG DUAL LOW BAND B5/B13 (RF440d-13A) RRH 850/700 REMOTE RADIO HEAD (RRH)  
WxDxH=15.0x15.0x9.1" (82.0 Lbs)

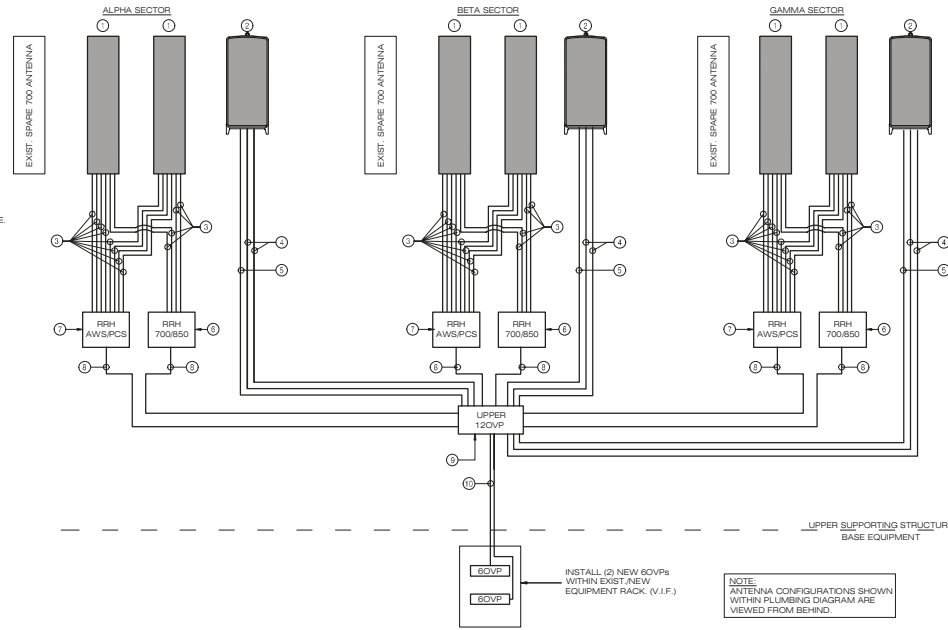
NOTE: WEIGHTS INCLUDE SOLAR SHIELD & MOUNTING BRACKET

**4 RRH EQUIPMENT DETAILS**  
SCALE: 3/4" = 1'-0"



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

**6 OVP TOWER MOUNT**  
SCALE: 3/4" = 1'-0"



**1 PLUMBING DIAGRAM**  
SCALE: 3/4" = 1'-0"

Cellco Partnership d/b/a



20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492



567 VAUXHALL STREET EXTENSION, SUITE 311  
WATERFORD, CT 06385 PHONE: (860) 663-9697  
WWW.ALLPOINTS-TECH.COM FAX: (860) 663-9836

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	09/28/21	FOR REVIEW - JRM
1	12/14/21	FOR FILING - JRM
2		
3		
4		
5		
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 06385

OWNER: SBA TOWERS INC.  
ADDRESS: 8051 CONGRESS AVE.  
BOCA RATON, FL 33467

SOUTHFORD CT

SITE: 106 WILLENROCK RD.  
ADDRESS: OXFORD, CT 06419  
APT FILING NUMBER: CT141\_12890

DATE: 09/28/21 DRAWN BY: JRM  
CHECKED BY: JRM  
VZ PROJECT CODE: 20212261287  
VZ LOCATION CODE: 467915  
VZ FUZE ID: 16486640

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

SHEET NUMBER:  
**B-1**



# 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](http://samsungnetworks.com)

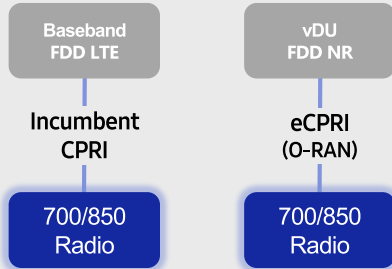


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

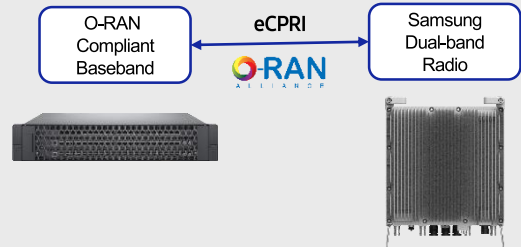
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



### 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.

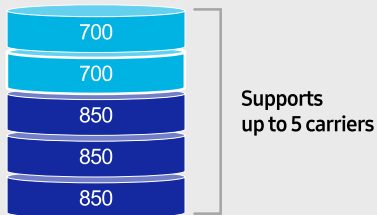
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### 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.

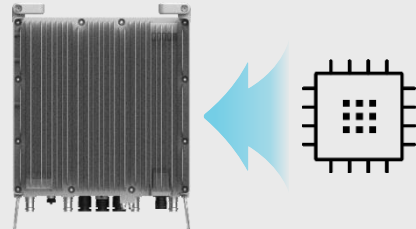
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



### 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

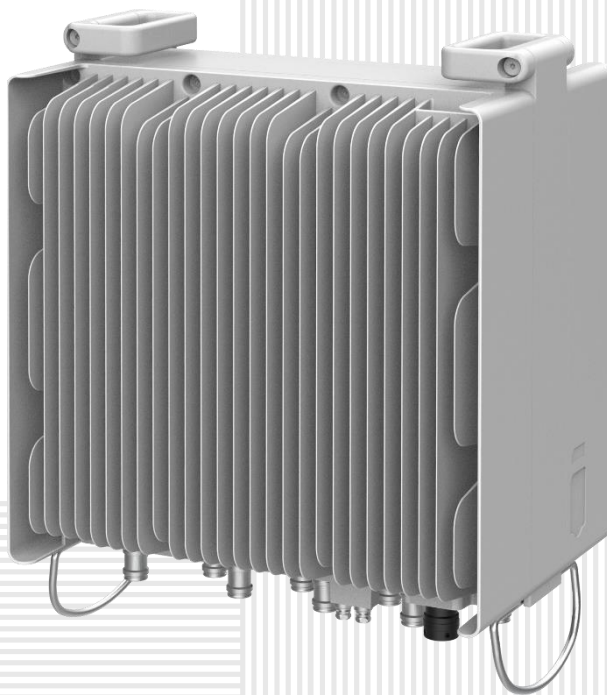
# SAMSUNG

## 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](http://samsungnetworks.com)

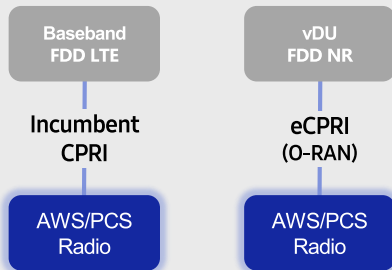


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

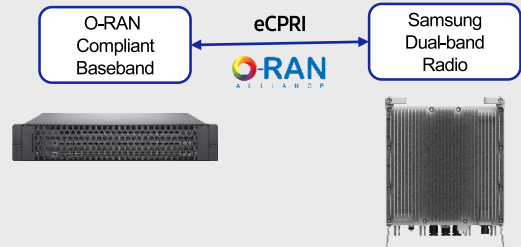
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



### 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.

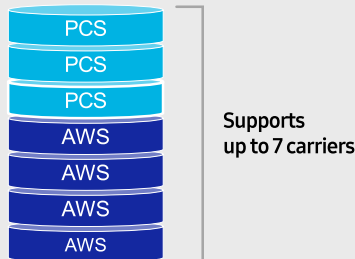
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

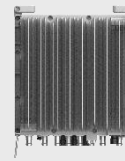
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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

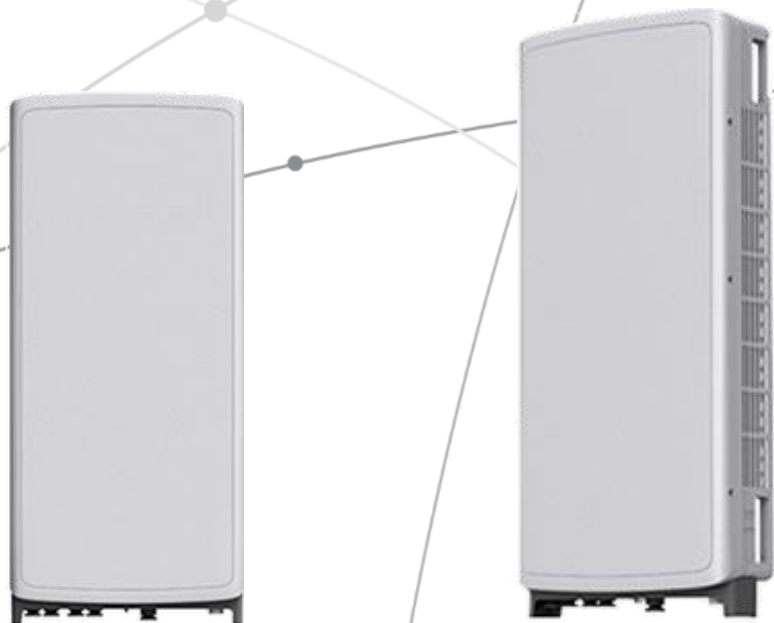
Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight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

## **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





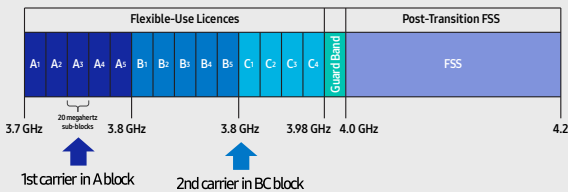
## Points of Differentiation

### 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

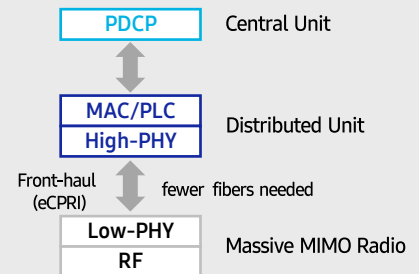
C-Band spectrum supported by Massive MIMO Radio



### 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.

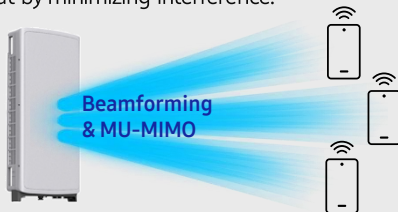


### Enhanced Performance

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.

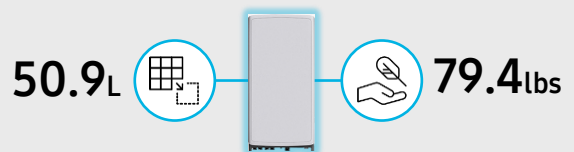
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



### 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.**

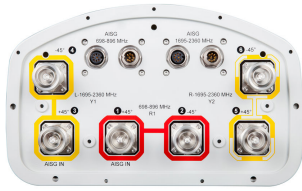
Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

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

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# NHH-65B-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light gray
<b>Effective Projective Area (EPA), frontal</b>	0.26 m <sup>2</sup>   2.799 ft <sup>2</sup>
<b>Effective Projective Area (EPA), lateral</b>	0.22 m <sup>2</sup>   2.368 ft <sup>2</sup>
<b>Grounding Type</b>	RF connector body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>RF Connector Interface</b>	7-16 DIN Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information, General

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male

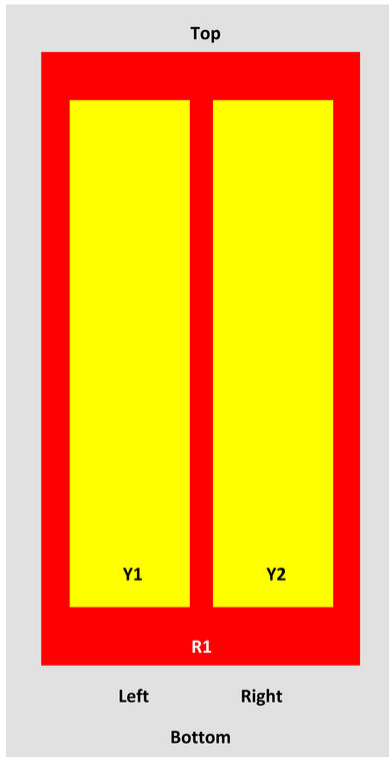
## Dimensions

<b>Width</b>	301 mm   11.85 in
<b>Length</b>	1828 mm   71.969 in
<b>Depth</b>	180 mm   7.087 in

## Array Layout

# NHH-65B-R2B

NHH



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANXXXXXXXXXXXXXXXXX1
Y1	1695-2360	3-4	2	ANXXXXXXXXXXXXXXXXX2
Y2	1695-2360	5-6		

View from the front of the antenna  
(Sizes of colored boxes are not true depictions of array sizes)

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2360 MHz   698 – 896 MHz
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Remote Electrical Tilt (RET) Information, Electrical

<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W
<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1   Port 3
<b>Internal RET</b>	High band (1)   Low band (1)

# NHH-65B-R2B

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.9	15	17.7	17.9	18.4	18.7
Beamwidth, Horizontal, degrees	65	60	71	69	64	57
Beamwidth, Vertical, degrees	12.4	11.2	5.7	5.2	4.9	4.6
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	0–7
USLS (First Lobe), dB	13	14	18	18	19	18
Front-to-Back Ratio at 180°, dB	30	29	31	30	29	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
VSWR   Return loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50° C, maximum, watts	300	300	300	300	300	300

## Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.5	14.5	17.3	17.7	18.1	18.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±1.1	±0.4	±0.4	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0°   14.4 7°   14.6 14°   14.3	0°   14.7 7°   14.7 14°   14.1	0°   17.2 4°   17.3 7°   17.3	0°   17.6 4°   17.7 7°   17.7	0°   18.0 4°   18.2 7°   18.1	0°   18.3 4°   18.5 7°   18.6
Beamwidth, Horizontal Tolerance, degrees	±2	±2.1	±3	±4.1	±6.5	±2.9
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	13	14	16	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	23	22	27	27	25	25
CPR at Boresight, dB	22	21	23	23	22	19
CPR at Sector, dB	10	7	16	13	11	4

## Material Specifications

Radiator Material

Low loss circuit board

# NHH-65B-R2B

---

**Reflector Material** Aluminum

## Mechanical Specifications

**Wind Loading at Velocity, frontal** 278.0 N @ 150 km/h | 63.6 lbf @ 150 km/h  
**Wind Loading at Velocity, lateral** 230.0 N @ 150 km/h | 51.7 lbf @ 150 km/h  
**Wind Loading at Velocity, maximum** 120.7 lbf @ 150 km/h | 537.0 N @ 150 km/h  
**Wind Speed, maximum** 241 km/h | 149.75 mph

## Packaging and Weights

**Width, packed** 409 mm | 16.102 in  
**Depth, packed** 299 mm | 11.772 in  
**Length, packed** 1952 mm | 76.85 in  
**Net Weight, without mounting kit** 19.8 kg | 43.651 lb  
**Weight, gross** 32.3 kg | 71.209 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant



## Included Products

**BSAMNT-3** — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

# **ATTACHMENT 3**

	General	Power	Density					
<b>Site Name: Southford (Oxford)</b>								
Tower Height: Verizon @ 137ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.EXP.	FRACTION MPE	Total
*AT&T	1	40	117	850	0.001167503	0.566666667	0.02%	
*AT&T	4	40	117	700	0.004670013	0.466666667	0.10%	
*AT&T	4	40	117	1900	0.004670013	1	0.05%	
*AT&T	2	40	117	700	0.002335006	0.466666667	0.05%	
*AT&T	2	40	117	850	0.002335006	0.566666667	0.04%	
*AT&T	4	40	117	2100	0.004670013	1	0.05%	
*AT&T	2	40	117	850	0.002335006	0.566666667	0.04%	
*Nextel	9	100	127	851	0.022106286	0.567333333	0.39%	
*T-Mobile	4	1028	147	1900	0.074380468	1	0.74%	
*T-Mobile	2	2057	147	1900	0.074416645	1	0.74%	
*T-Mobile	2	2308	147	2100	0.08349714	1	0.83%	
*T-Mobile	2	492	147	600	0.017799217	0.4	0.44%	
*T-Mobile	1	1578	147	600	0.028543866	0.4	0.71%	
*T-Mobile	2	695	147	700	0.0251	0.466666667	0.54%	
*T-Mobile	2	2105	147	1900	0.0762	1	0.76%	
*T-Mobile	1	19239	147	2500	0.3480	1	3.48%	
*T-Mobile	1	19239	147	2500	0.3480	1	3.48%	
<b>VZW 700</b>	<b>4</b>	<b>671</b>	<b>137</b>	<b>751</b>	<b>0.0051</b>	<b>0.5007</b>	<b>1.03%</b>	
<b>VZW Cellular</b>	<b>4</b>	<b>690</b>	<b>137</b>	<b>874</b>	<b>0.0053</b>	<b>0.5827</b>	<b>0.91%</b>	
<b>VZW PCS</b>	<b>4</b>	<b>1404</b>	<b>137</b>	<b>1975</b>	<b>0.0108</b>	<b>1.0000</b>	<b>1.08%</b>	
<b>VZW AWS</b>	<b>4</b>	<b>1574</b>	<b>137</b>	<b>2120</b>	<b>0.0121</b>	<b>1.0000</b>	<b>1.21%</b>	
<b>VZW CBAND</b>	<b>2</b>	<b>21627</b>	<b>137</b>	<b>3730.08</b>	<b>0.0829</b>	<b>1.0000</b>	<b>8.29%</b>	
								<b>24.98%</b>
* Source: Siting Council								



# **ATTACHMENT 4**



**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
1320 Greenway Drive, Suite 600, Irving, Texas 75038

---

## **Structural Analysis Report**

**Existing 150 ft SUMMIT Monopole**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT03109-S**

**Customer Site Name: Oxford 3, CT**

**Carrier Name: Verizon (App#: 167327, V2)**

**Carrier Site ID / Name: 16486640 / Southford CT**

**Site Location: 106 Willenbrock Road**

**Oxford, Connecticut**

**New Haven County**

**Latitude: 41.465106**

**Longitude: -73.146555**

Exp. 01/31/2022



### **Analysis Result:**

**Max Structural Usage: 43.9% [Pass]**

**Max Foundation Usage: 33.0% [Pass]**

**Additional Usage Caused by Mount Modification: +1.2%**

**Report Prepared By : Dipika Dhungana**

11/16/2021



**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
1320 Greenway Drive, Suite 600, Irving, Texas 75038

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## **Structural Analysis Report**

**Existing 150 ft SUMMIT Monopole**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT03109-S**

**Customer Site Name: Oxford 3, CT**

**Carrier Name: Verizon (App#: 167327, V2)**

**Carrier Site ID / Name: 16486640 / Southford CT**

**Site Location: 106 Willenbrock Road**

**Oxford, Connecticut**

**New Haven County**

**Latitude: 41.465106**

**Longitude: -73.146555**

### **Analysis Result:**

**Max Structural Usage: 43.9% [Pass]**

**Max Foundation Usage: 33.0% [Pass]**

**Additional Usage Caused by Mount Modification: +1.2%**

**Report Prepared By : Dipika Dhungana**

## Introduction

The purpose of this report is to summarize the analysis results on the 150 ft SUMMIT Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

## Sources of Information

<b>Tower Drawings</b>	Paul J. Ford, Job # 29200-1055, dated 7/19/2000
<b>Foundation Drawing</b>	Paul J. Ford, Job # 29200-1055, dated 8/7/2000
<b>Geotechnical Report</b>	Jaworski, Report # 00248G, dated 07/14/2000
<b>Modification Drawings</b>	N/A
<b>Mount Analysis</b>	SMART Tool Project #: 10109013, dated 10/25/2021

## Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

<b>Wind Speed Used in the Analysis:</b>	Ultimate Design Wind Speed $V_{ult} = 125.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 97.0$ mph (3-Sec. Gust)
<b>Wind Speed with Ice:</b>	50 mph (3-Sec. Gust) with 1" radial ice concurrent
<b>Operational Wind Speed:</b>	60 mph + 0" Radial ice
<b>Standard/Codes:</b>	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
<b>Exposure Category:</b>	C
<b>Structure Class:</b>	II
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	$S_5 = 0.198$ , $S_1 = 0.054$

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

## Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	147.0	3	Ericsson AIR32 KRD901146-1_B66A_B2A (Octo)- Panel	Modified Low Profile Platform W/ (1) MS-HRECP-35 (SUPPORT RAIL PIPE W/ END CONNECTION KIT)	(3) 2" Hybrid	T-Mobile Sprint
2		3	RFS APXVAALL24_43-U-NA20- Panel			
3		3	Ericsson AIR6449 B41- Panel			
4		4	RFS ACU-A20-N RET			
5		3	Ericsson 4415 B25 RRU			
6		3	ALU 800 MHz RRH			
7		3	Ericsson 4449 B71 + B85 RRU			
8		3	ALU 800 MHz Filter			
-	137.0	3	Antel BXA-70063/6CF- Panel	Low Profile Platform	(12) 1 5/8" (1) 1 5/8" Hybrid	Verizon
-		3	Antel BXA-171063-8BF - Panel			
-		3	Andrew HBX-6517DS - Panel			
-		3	Andrew LNX-6514DS - Panel			
-		3	Alcatel Lucent RRH2x40-AWS			
-		6	RFS FD9R6004/2C-3L			
-		1	RFS DB-T1-6Z-8AB-0Z			
-		1	GPS			
17	117.0	3	Powerwave 7770.00 - Panel	(3) Sector Mount (SitePro1 VFA12-M3-WLL)	(9) 1 5/8" (1) 2" Conduit* (1) 2" Conduit** (2) 1/2" DC (1) 3/8" Fiber	AT&T
18		3	CCI OPA65R-BU6DA - Panel			
19		3	CCI DMP65R-BU6DA - Panel			
20		6	Powerwave LGP21401			
21		3	Ericsson 4449 B5/B12			
22		3	Ericsson 8843 B25/B66A			
23		3	Ericsson RRUS 4478 B14			
24		1	Raycap DC6-48-60-18-8F			
25	1	Raycap DC9-48-60-24-PC16-EV				
27	80.0	1	GPS	(1) Side Arm	(1) 1/2"	Sprint

\* Housing (2) 3/4" DC Power

\*\* Housing (1) 3/4" DC Power, (1) 3/8" Fiber

## **Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines**

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
9	137.0	3	Antel BXA-70063-6CF-EDIN-5	Low Profile Platform w/ support rail and (3) Mount Brackets Commscope BSAMNT- SBS-1-2	(10) 1 5/8" (3) 1 5/8" Hybrid	Verizon
10		3	Samsung MT6407-77A Antenna w/ integrated radio MT6407-77A			
11		6	Commscope NHH-65B-R2B			
14		3	Samsung RF4439d-25A			
15		3	Samsung RF4440d-13A			
16		1	RFS DB-T1-6Z-8AB-OZ			
26	100.0	1	Lucent KS24019-L112A			

See the attached coax layout for the line placement considered in the analysis.

## **Analysis Results**

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	<b>39.9%</b>	<b>35.9%</b>	<b>43.9%</b>
Pass/Fail	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## **Foundations**

	Moment (Kip-Ft)	Shear (Kips)
Analysis Reactions	3816.9	36.3

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

## **Operational Condition (Rigidity):**

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.5625 degrees under the operational wind speed as specified in the Analysis Criteria.

## Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

## Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

# Usage Diagram - Max Ratio 39.89% at 0.0ft

**Structure:** CT03109-S-SBA  
**Site Name:** Oxford 3, CT  
**Height:** 150.00 (ft)  
**Base Elev:** 0.000 (ft)

**Code:** EIA/TIA-222-G  
**Exposure:** C  
**Gh:** 1.1

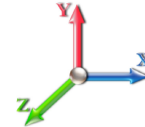
11/16/2021



Page: 1

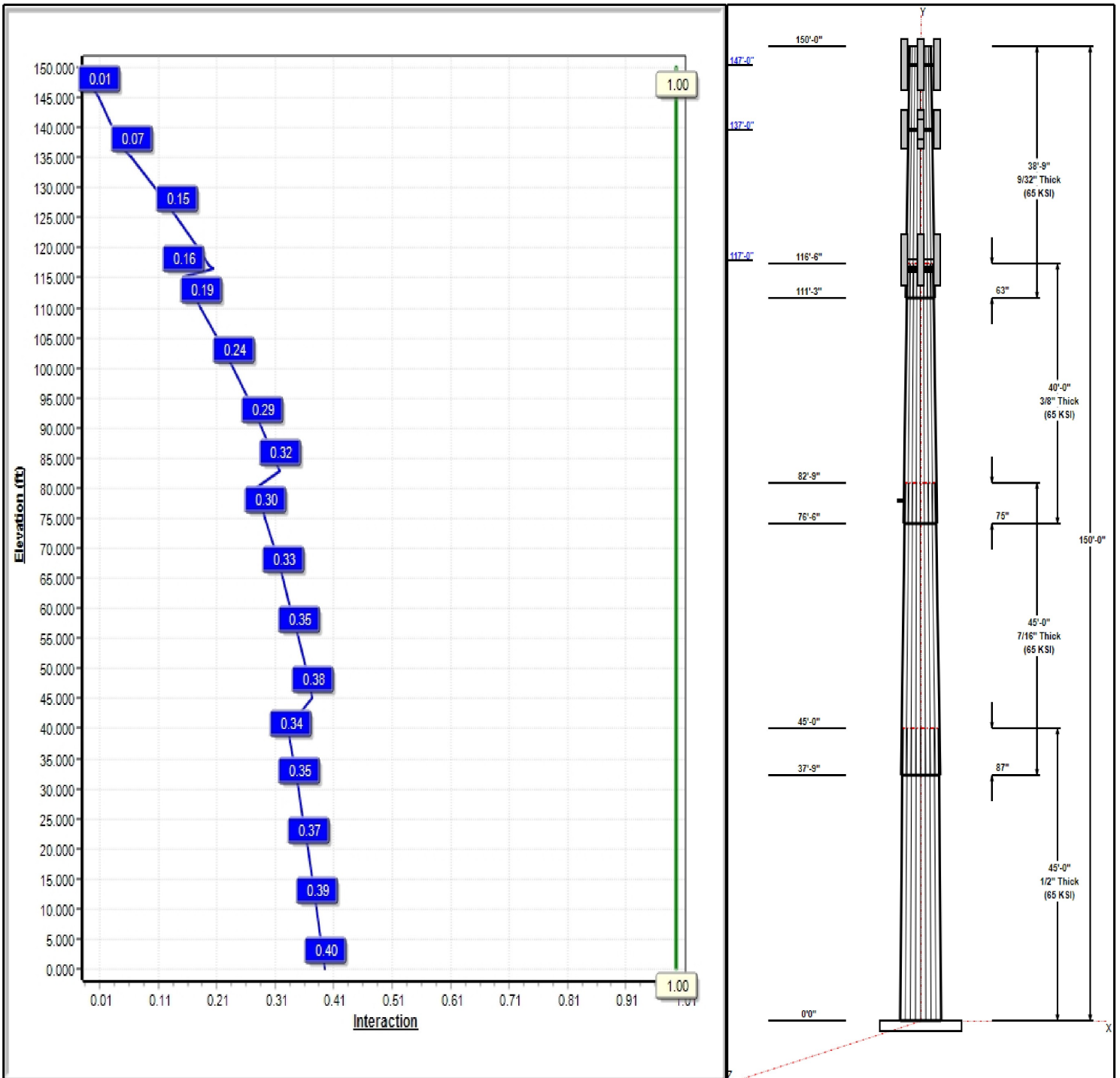
**Dead Load Factor:** 1.20  
**Wind Load Factor:** 1.60

**Load Case : 1.2D + 1.6W 97 mph Wind**



**Iterations:** 20

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## Structure: CT03109-S-SBA

**Type:** Tapered  
**Site Name:** Oxford 3, CT  
**Height:** 150.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 18 Sided  
**Taper:** 0.25372

11/16/2021

Page: 2



### Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	45.00	55.55	66.97	0.500		0.25372	65
2	45.00	46.85	58.27	0.438	Slip	0.25372	65
3	40.00	39.04	49.19	0.375	Slip	0.25372	65
4	38.75	31.10	40.93	0.281	Slip	0.25372	65

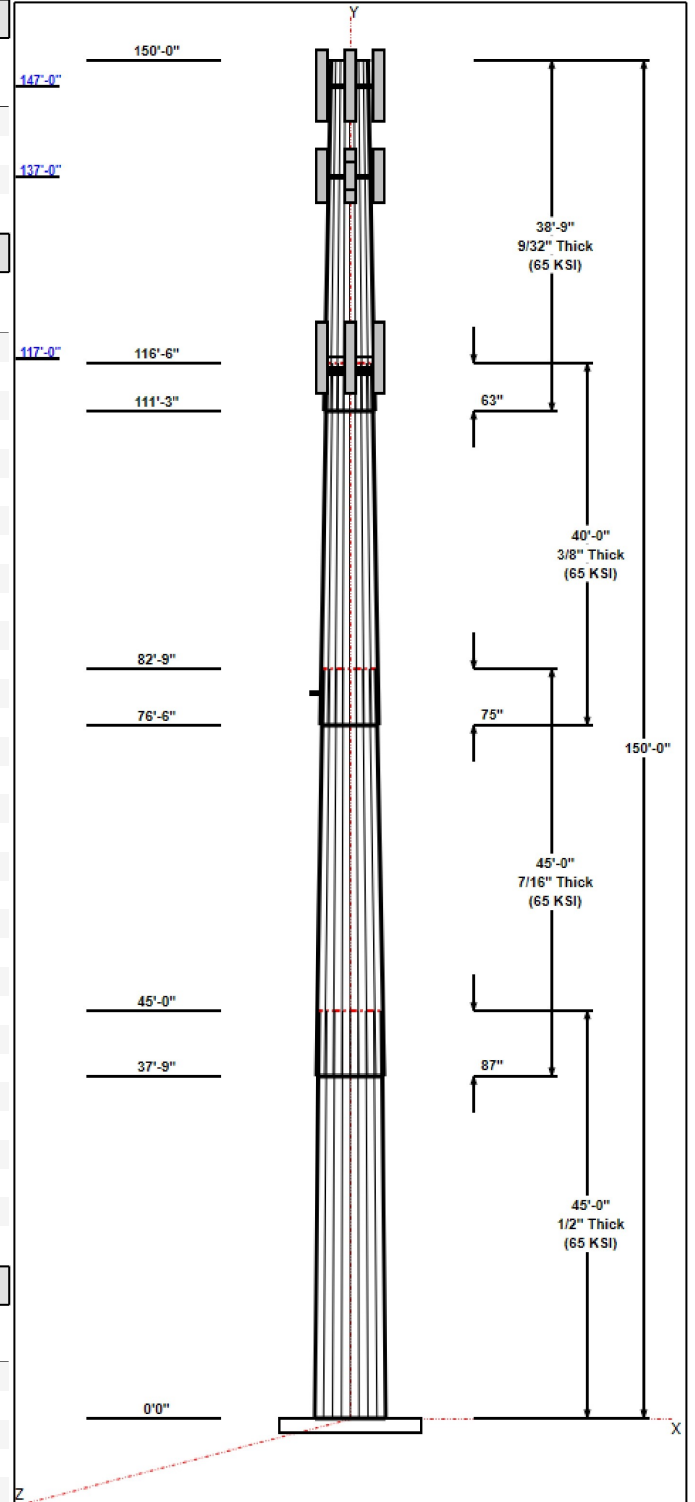
### Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
147.00	147.00	3	4415 B25	T-Mobile Sprint
147.00	147.00	3	800 MHz RRH	T-Mobile Sprint
147.00	147.00	3	4449 B71 + B85	T-Mobile Sprint
147.00	147.00	3	800 MHz Filter	T-Mobile Sprint
147.00	147.00	3	AIR32 KRD901146	T-Mobile Sprint
147.00	147.00	3	APXVAALL24_43-U-NA20	T-Mobile Sprint
147.00	147.00	3	AIR6449 B41	T-Mobile Sprint
147.00	147.00	1	Low Profile Platform	T-Mobile Sprint
147.00	147.00	4	ACU-A20-N	T-Mobile Sprint
147.00	147.00	1	MS-HRECP-35	T-Mobile Sprint
137.00	137.00	1	Low Profile Platform	Verizon
137.00	137.00	6	NHH-65B-R2B	Verizon
137.00	137.00	3	RF4439d-25A	Verizon
137.00	137.00	3	RF4440d-13A	Verizon
137.00	137.00	1	HRK12 (Handrail Kit)	Verizon
137.00	137.00	3	BXA-70063/6CF	Verizon
137.00	137.00	3	MT6407-77A w/ integrated	Verizon
137.00	137.00	3	LNx-6514DS	Verizon
137.00	137.00	1	DB-T1-6Z-8AB-0Z	Verizon
117.00	117.00	3	7770.00	AT&T
117.00	117.00	3	OPA65R-BU6DA	AT&T
117.00	117.00	3	DMP65R-BU6DA	AT&T
117.00	117.00	6	LGP21401	AT&T
117.00	117.00	3	4449 B5/B12	AT&T
117.00	117.00	3	8843 B25/B66A	AT&T
117.00	117.00	3	RRUS 4478 B14	AT&T
117.00	117.00	1	DC6-48-60-18-8F	AT&T
117.00	117.00	1	DC9-48-60-24-PC16-EV	AT&T
117.00	117.00	1	(3) Sector Mount	AT&T
100.00	100.00	1	Lucent KS24019-L112A	Verizon
80.00	80.00	1	GPS	Sprint
80.00	80.00	1	Side Arm	Sprint

### Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	147.00	Inside	2" Hybrid	T-Mobile Sprint
0.00	137.00	Inside	1 5/8" Coax	Verizon
0.00	137.00	Inside	1 5/8" Hybrid	Verizon
0.00	117.00	Inside	1 5/8" Coax	AT&T
0.00	117.00	Inside	1/2" DC	AT&T
0.00	117.00	Inside	2" Conduit	AT&T
0.00	117.00	Inside	3/8" Fiber	AT&T
0.00	80.00	Inside	1/2" Coax	Sprint

### Anchor Bolts



**Structure: CT03109-S-SBA**

**Type:** Tapered  
**Site Name:** Oxford 3, CT  
**Height:** 150.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 18 Sided  
**Taper:** 0.25372

11/16/2021

Page: 3



Qty	Specifications	Grade (ksi)	Arrangement
28	2.25" 18J	75.0	Cluster

**Base Plate**

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.0000	77.0	55.0	Clipped

**Reactions**

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 97 mph Wind	3816.9	36.3	60.0
0.9D + 1.6W 97 mph Wind	3798.0	36.3	45.0
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1155.4	11.1	96.9
1.2D + 1.0E	255.3	2.3	60.0
0.9D + 1.0E	253.9	2.3	45.0
1.0D + 1.0W 60 mph Wind	909.9	8.7	50.0

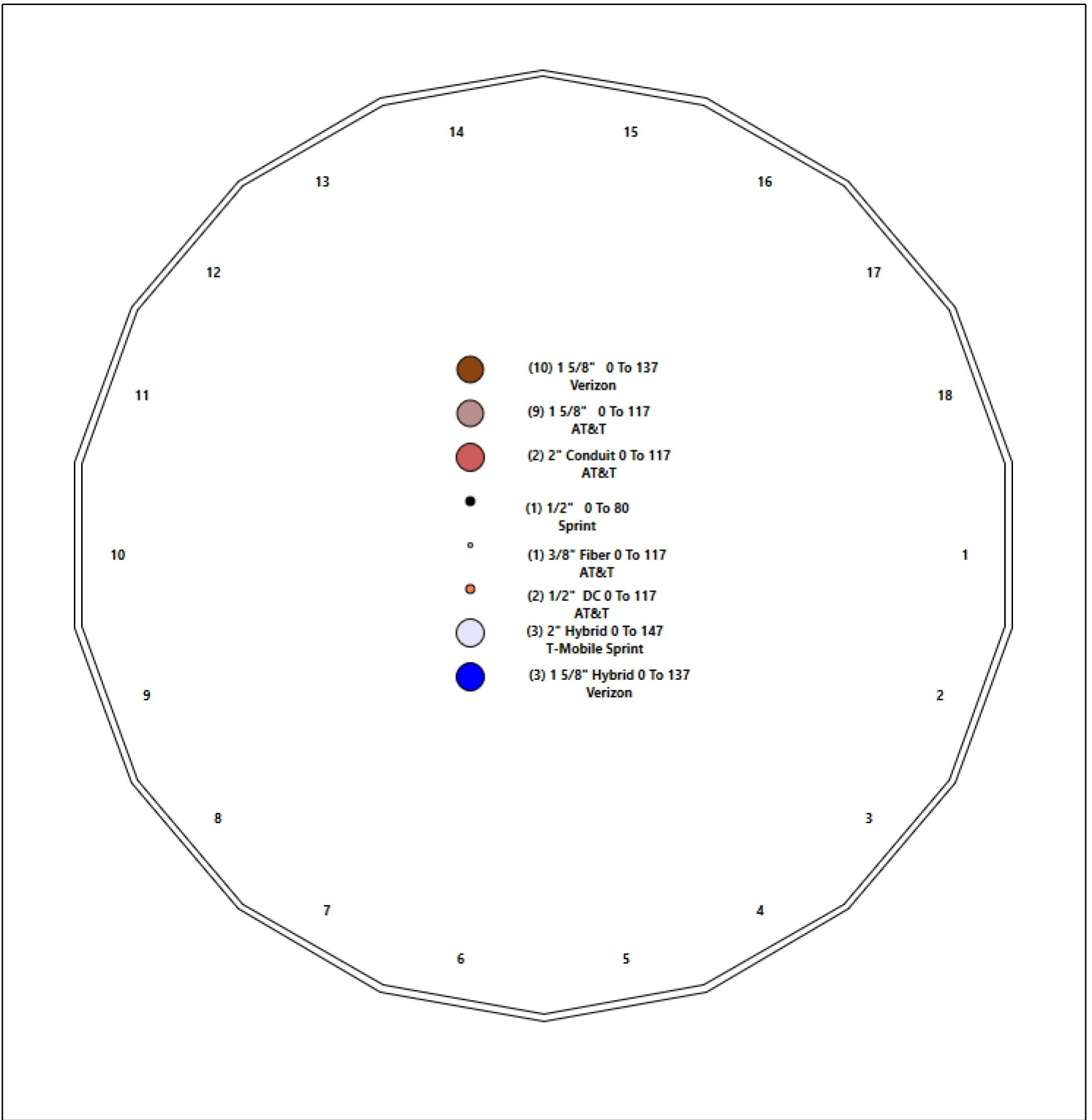
# Structure: CT03109-S-SBA - Coax Line Placement

**Type:** Monopole  
**Site Name:** Oxford 3, CT  
**Height:** 150.00 (ft)

11/16/2021



Page: 4



## Shaft Properties

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 5

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	45.000	0.5000	65		0.00	14,765
2	18	45.000	0.4375	65	Slip	87.00	11,082
3	18	40.000	0.3750	65	Slip	75.00	7,085
4	18	38.750	0.2813	65	Slip	63.00	4,207
<b>Total Shaft Weight:</b>							<b>37,139</b>

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Taper
1	66.97	0.00	105.4	58883.20	22.21	133.94	55.55	45.00	87.37	33454.2	18.18	111.1	0.253717
2	58.27	37.75	80.30	33929.28	22.07	133.18	46.85	82.75	64.45	17539.7	17.47	107.0	0.253717
3	49.19	76.50	58.09	17487.14	21.72	131.16	39.04	116.50	46.02	8690.13	16.94	104.1	0.253717
4	40.93	111.2	36.29	7577.11	24.25	145.51	31.10	150.00	27.52	3301.85	18.08	110.5	0.253717

## Load Summary

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 6

### Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	147.00	4415 B25	3	46.30	1.86	0.72	134.81	2.638	0.72	0.00	0.00
2	147.00	800 MHz RRH	3	53.00	2.40	0.67	138.07	3.889	0.67	0.00	0.00
3	147.00	4449 B71 + B85	3	75.00	1.97	0.67	153.72	2.728	0.67	0.00	0.00
4	147.00	800 MHz Filter	3	8.80	0.78	0.50	32.28	1.641	0.50	0.00	0.00
5	147.00	AIR32 KRD901146	3	132.20	6.51	0.87	391.02	8.034	0.87	0.00	0.00
6	147.00	APXVAALL24_43-U-NA20	3	99.00	20.24	0.73	691.84	22.800	0.73	0.00	0.00
7	147.00	AIR6449 B41	3	103.00	5.65	0.71	285.46	6.915	0.71	0.00	0.00
8	147.00	Low Profile Platform	1	1200.00	25.00	1.00	2593.35	52.867	1.00	0.00	0.00
9	147.00	ACU-A20-N	4	1.00	0.14	0.67	6.72	0.535	0.67	0.00	0.00
10	147.00	MS-HRECP-35	1	514.00	12.25	1.00	1325.68	28.181	1.00	0.00	0.00
11	137.00	Low Profile Platform	1	1200.00	35.00	1.00	2583.57	73.740	1.00	0.00	0.00
12	137.00	NHH-65B-R2B	6	43.70	8.08	0.83	326.69	9.825	0.83	0.00	0.00
13	137.00	RF4439d-25A	3	70.30	1.87	0.67	169.69	2.651	0.67	0.00	0.00
14	137.00	RF4440d-13A	3	84.40	1.87	0.67	193.62	2.651	0.67	0.00	0.00
15	137.00	HRK12 (Handrail Kit)	1	261.72	6.75	1.00	672.11	15.467	1.00	0.00	0.00
16	137.00	BXA-70063/6CF	3	17.00	7.57	0.70	204.24	11.222	0.70	0.00	0.00
17	137.00	MT6407-77A w/ integrated radio	3	79.40	4.69	0.70	248.21	5.961	0.70	0.00	0.00
18	137.00	LNK-6514DS	3	33.10	8.09	0.80	263.94	11.784	0.80	0.00	0.00
19	137.00	DB-T1-6Z-8AB-OZ	1	18.90	4.80	1.00	178.88	6.128	1.00	0.00	0.00
20	117.00	7770.00	3	35.00	5.50	0.73	223.01	6.913	0.73	0.00	0.00
21	117.00	OPA65R-BU6DA	3	69.00	11.20	0.89	414.75	13.366	0.89	0.00	0.00
22	117.00	DMP65R-BU6DA	3	79.40	12.71	0.72	462.49	14.614	0.72	0.00	0.00
23	117.00	LGP21401	6	14.10	1.29	0.50	46.62	2.377	0.50	0.00	0.00
24	117.00	4449 B5/B12	3	71.00	1.97	0.67	140.43	2.682	0.67	0.00	0.00
25	117.00	8843 B25/B66A	3	72.00	1.64	0.67	132.93	2.286	0.67	0.00	0.00
26	117.00	RRUS 4478 B14	3	59.40	1.65	0.67	113.33	2.324	0.67	0.00	0.00
27	117.00	DC6-48-60-18-8F	1	31.80	0.92	1.00	112.21	1.490	1.00	0.00	0.00
28	117.00	DC9-48-60-24-PC16-EV	1	26.20	1.14	1.00	164.05	3.204	1.00	0.00	0.00
29	117.00	(3) Sector Mount	1	1696.00	47.10	1.00	3851.81	24.075	1.00	0.00	0.00
30	100.00	Lucent KS24019-L112A	1	4.00	0.91	1.00	36.29	2.197	1.00	0.00	0.00
31	80.00	GPS	1	4.00	0.91	1.00	35.58	2.168	1.00	0.00	0.00
32	80.00	Side Arm	1	120.00	4.50	1.00	251.11	11.069	1.00	0.00	0.00
<b>Totals:</b>			<b>81</b>	<b>8,989.32</b>			<b>27,252.90</b>				

### Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	147.00	(3) 2" Hybrid	0.00	Inside
0.00	137.00	(10) 1 5/8" Coax	0.00	Inside
0.00	137.00	(3) 1 5/8" Hybrid	0.00	Inside
0.00	117.00	(9) 1 5/8" Coax	0.00	Inside
0.00	117.00	(2) 1/2" DC	0.00	Inside
0.00	117.00	(2) 2" Conduit	0.00	Inside
0.00	117.00	(1) 3/8" Fiber	0.00	Inside
0.00	80.00	(1) 1/2" Coax	0.00	Inside

## Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		

## Shaft Section Properties

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 8

**Increment Length:** 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in <sup>3</sup> )	Weight (lb)
0.00		0.5000	66.970	105.484	58883.2	22.21	133.94	75.3	1731.	0.0
5.00		0.5000	65.701	103.471	55575.8	21.76	131.40	75.8	1666.	1777.6
10.00		0.5000	64.433	101.458	52394.5	21.31	128.87	76.3	1601.	1743.3
15.00		0.5000	63.164	99.445	49337.1	20.86	126.33	76.9	1538.	1709.1
20.00		0.5000	61.896	97.431	46401.0	20.42	123.79	77.4	1476.	1674.8
25.00		0.5000	60.627	95.418	43583.7	19.97	121.25	77.9	1415.	1640.6
30.00		0.5000	59.358	93.405	40882.9	19.52	118.72	78.4	1356.	1606.3
35.00		0.5000	58.090	91.392	38296.0	19.08	116.18	79.0	1298.	1572.1
37.75	Bot - Section 2	0.5000	57.392	90.285	36920.9	18.83	114.78	79.3	1267.	850.0
40.00		0.5000	56.821	89.379	35820.6	18.63	113.64	79.5	1241.	1299.5
45.00	Top - Section 1	0.4375	56.428	77.747	30793.5	21.33	128.98	0.0	0.0	2841.3
50.00		0.4375	55.159	75.985	28747.5	20.82	126.08	76.9	1026.	1307.8
55.00		0.4375	53.891	74.224	26794.1	20.31	123.18	77.5	979.3	1277.8
60.00		0.4375	52.622	72.462	24931.4	19.80	120.28	78.1	933.2	1247.8
65.00		0.4375	51.353	70.701	23157.0	19.29	117.38	78.7	888.2	1217.9
70.00		0.4375	50.085	68.939	21468.9	18.78	114.48	79.3	844.3	1187.9
75.00		0.4375	48.816	67.177	19864.8	18.26	111.58	79.9	801.5	1157.9
76.50	Bot - Section 3	0.4375	48.436	66.649	19399.7	18.11	110.71	80.1	788.9	341.5
80.00		0.4375	47.548	65.416	18342.8	17.75	108.68	80.5	759.8	1472.0
82.75	Top - Section 2	0.3750	47.600	56.207	15837.6	20.97	126.93	0.0	0.0	1137.5
85.00		0.3750	47.029	55.528	15270.1	20.70	125.41	77.1	639.5	427.7
90.00		0.3750	45.760	54.018	14058.1	20.11	122.03	77.8	605.1	931.9
95.00		0.3750	44.492	52.508	12911.9	19.51	118.64	78.5	571.6	906.2
100.00		0.3750	43.223	50.998	11829.7	18.91	115.26	79.2	539.1	880.5
105.00		0.3750	41.955	49.488	10809.8	18.32	111.88	79.9	507.5	854.8
110.00		0.3750	40.686	47.979	9850.3	17.72	108.50	80.6	476.9	829.1
111.25	Bot - Section 4	0.3750	40.369	47.601	9619.6	17.57	107.65	80.7	469.3	203.3
115.00		0.3750	39.418	46.469	8949.3	17.12	105.11	81.3	447.2	1057.9
116.50	Top - Section 3	0.2813	39.600	35.104	6856.4	23.41	140.77	0.0	0.0	416.1
117.00		0.2813	39.473	34.991	6790.2	23.33	140.32	74.0	338.8	59.6
120.00		0.2813	38.712	34.311	6402.3	22.85	137.62	74.5	325.7	353.7
125.00		0.2813	37.443	33.178	5788.9	22.06	133.11	75.5	304.5	574.1
130.00		0.2813	36.174	32.046	5216.1	21.26	128.60	76.4	284.0	554.9
135.00		0.2813	34.906	30.913	4682.3	20.47	124.09	77.3	264.2	535.6
137.00		0.2813	34.398	30.460	4479.5	20.15	122.28	77.7	256.5	208.8
140.00		0.2813	33.637	29.781	4186.3	19.67	119.58	78.3	245.1	307.5
145.00		0.2813	32.369	28.648	3726.6	18.88	115.07	79.2	226.8	497.0
147.00		0.2813	31.861	28.195	3552.6	18.56	113.26	79.6	219.6	193.4
150.00		0.2813	31.100	27.515	3301.8	18.08	110.56	80.1	209.1	284.4

**37139.4**

## Wind Loading - Shaft

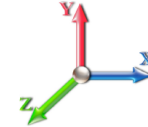
<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 9

**Load Case:** 1.2D + 1.6W 97 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.60



**Iterations** 20

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	19.450	21.40	506.79	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	19.450	21.40	497.19	0.650	0.000	5.00	28.066	18.24	624.5	0.0	2133.1
10.00		1.00	0.85	19.450	21.40	487.59	0.650	0.000	5.00	27.530	17.89	612.6	0.0	2092.0
15.00		1.00	0.85	19.450	21.40	477.99	0.650	0.000	5.00	26.993	17.55	600.6	0.0	2050.9
20.00		1.00	0.90	20.638	22.70	482.48	0.650	0.000	5.00	26.456	17.20	624.6	0.0	2009.8
25.00		1.00	0.95	21.630	23.79	483.82	0.650	0.000	5.00	25.919	16.85	641.4	0.0	1968.7
30.00		1.00	0.98	22.477	24.72	482.87	0.650	0.000	5.00	25.383	16.50	652.7	0.0	1927.6
35.00		1.00	1.01	23.218	25.54	480.28	0.650	0.000	5.00	24.846	16.15	659.9	0.0	1886.5
37.75 Bot - Section 2		1.00	1.03	23.591	25.95	478.31	0.650	0.000	2.75	13.436	8.73	362.6	0.0	1020.0
40.00		1.00	1.04	23.880	26.27	476.45	0.650	0.000	2.25	11.039	7.18	301.6	0.0	1559.5
45.00 Top - Section 1		1.00	1.07	24.479	26.93	471.62	0.650	0.000	5.00	24.143	15.69	676.1	0.0	3409.6
50.00		1.00	1.09	25.029	27.53	473.50	0.650	0.000	5.00	23.606	15.34	675.9	0.0	1569.3
55.00		1.00	1.12	25.536	28.09	467.28	0.650	0.000	5.00	23.069	14.99	673.9	0.0	1533.4
60.00		1.00	1.14	26.008	28.61	460.47	0.650	0.000	5.00	22.532	14.65	670.4	0.0	1497.4
65.00		1.00	1.16	26.450	29.09	453.18	0.650	0.000	5.00	21.996	14.30	665.6	0.0	1461.5
70.00		1.00	1.17	26.866	29.55	445.44	0.650	0.000	5.00	21.459	13.95	659.5	0.0	1425.5
75.00		1.00	1.19	27.259	29.98	437.32	0.650	0.000	5.00	20.922	13.60	652.4	0.0	1389.5
76.50 Bot - Section 3		1.00	1.20	27.373	30.11	434.82	0.650	0.000	1.50	6.172	4.01	193.3	0.0	409.8
80.00 Appurtenance(s)		1.00	1.21	27.632	30.39	428.86	0.650	0.000	3.50	14.436	9.38	456.3	0.0	1766.4
82.75 Top - Section 2		1.00	1.22	27.829	30.61	424.08	0.650	0.000	2.75	11.158	7.25	355.2	0.0	1365.0
85.00		1.00	1.22	27.987	30.79	426.90	0.650	0.000	2.25	9.008	5.86	288.4	0.0	513.3
90.00		1.00	1.24	28.325	31.16	417.89	0.650	0.000	5.00	19.629	12.76	636.1	0.0	1118.3
95.00		1.00	1.25	28.650	31.51	408.63	0.650	0.000	5.00	19.093	12.41	625.8	0.0	1087.5
100.00 Appurtenance(s)		1.00	1.27	28.961	31.86	399.12	0.650	0.000	5.00	18.556	12.06	614.8	0.0	1056.6
105.00		1.00	1.28	29.260	32.19	389.40	0.650	0.000	5.00	18.019	11.71	603.2	0.0	1025.8
110.00		1.00	1.29	29.548	32.50	379.48	0.650	0.000	5.00	17.482	11.36	591.0	0.0	995.0
111.25 Bot - Section 4		1.00	1.29	29.618	32.58	376.97	0.650	0.000	1.25	4.287	2.79	145.2	0.0	243.9
115.00		1.00	1.30	29.826	32.81	369.38	0.650	0.000	3.75	12.837	8.34	438.0	0.0	1269.5
116.50 Top - Section 3		1.00	1.31	29.907	32.90	366.31	0.650	0.000	1.50	5.050	3.28	172.8	0.0	499.3
117.00 Appurtenance(s)		1.00	1.31	29.934	32.93	370.57	0.650	0.000	0.50	1.673	1.09	57.3	0.0	71.6
120.00		1.00	1.32	30.094	33.10	364.39	0.650	0.000	3.00	9.924	6.45	341.7	0.0	424.5
125.00		1.00	1.33	30.354	33.39	353.97	0.650	0.000	5.00	16.110	10.47	559.4	0.0	689.0
130.00		1.00	1.34	30.605	33.67	343.39	0.650	0.000	5.00	15.574	10.12	545.3	0.0	665.8
135.00		1.00	1.35	30.850	33.93	332.66	0.650	0.000	5.00	15.037	9.77	530.7	0.0	642.7
137.00 Appurtenance(s)		1.00	1.35	30.945	34.04	328.34	0.650	0.000	2.00	5.864	3.81	207.6	0.0	250.6
140.00		1.00	1.36	31.087	34.20	321.80	0.650	0.000	3.00	8.636	5.61	307.1	0.0	369.0
145.00		1.00	1.37	31.317	34.45	310.81	0.650	0.000	5.00	13.963	9.08	500.3	0.0	596.5
147.00 Appurtenance(s)		1.00	1.37	31.408	34.55	306.38	0.650	0.000	2.00	5.435	3.53	195.3	0.0	232.1
150.00		1.00	1.38	31.541	34.70	299.70	0.650	0.000	3.00	7.992	5.19	288.4	0.0	341.2
<b>Totals:</b>									<b>150.00</b>			<b>18,407.3</b>		<b>44,567.3</b>



## Discrete Appurtenance Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 10

**Load Case:** 1.2D + 1.6W 97 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.60



**Iterations** 20

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	147.00	MS-HRECP-35	1	31.408	34.548	1.00	1.00	12.25	616.80	0.000	0.000	677.15	0.00	0.00
2	147.00	4415 B25	3	31.408	34.548	0.54	0.75	3.01	166.68	0.000	0.000	166.56	0.00	0.00
3	147.00	800 MHz RRH	3	31.408	34.548	0.50	0.75	3.62	190.80	0.000	0.000	199.99	0.00	0.00
4	147.00	4449 B71 + B85	3	31.408	34.548	0.50	0.75	2.97	270.00	0.000	0.000	164.16	0.00	0.00
5	147.00	800 MHz Filter	3	31.408	34.548	0.38	0.75	0.88	31.68	0.000	0.000	48.51	0.00	0.00
6	147.00	ACU-A20-N	4	31.408	34.548	0.50	0.75	0.28	4.80	0.000	0.000	15.56	0.00	0.00
7	147.00	AIR32 KRD901146	3	31.408	34.548	0.65	0.75	12.74	475.92	0.000	0.000	704.42	0.00	0.00
8	147.00	APXVAALL24_43-U-NA20	3	31.408	34.548	0.55	0.75	33.24	356.40	0.000	0.000	1837.65	0.00	0.00
9	147.00	AIR6449 B41	3	31.408	34.548	0.53	0.75	9.03	370.80	0.000	0.000	498.93	0.00	0.00
10	147.00	Low Profile Platform	1	31.408	34.548	1.00	1.00	25.00	1440.00	0.000	0.000	1381.93	0.00	0.00
11	137.00	DB-T1-6Z-8AB-OZ	1	30.945	34.040	1.00	1.00	4.80	22.68	0.000	0.000	261.43	0.00	0.00
12	137.00	LNx-6514DS	3	30.945	34.040	0.60	0.75	14.56	119.16	0.000	0.000	793.10	0.00	0.00
13	137.00	MT6407-77A w/ integrated	3	30.945	34.040	0.52	0.75	7.39	285.84	0.000	0.000	402.31	0.00	0.00
14	137.00	BXA-70063/6CF	3	30.945	34.040	0.52	0.75	11.92	61.20	0.000	0.000	649.36	0.00	0.00
15	137.00	HRK12 (Handrail Kit)	1	30.945	34.040	1.00	1.00	6.75	314.06	0.000	0.000	367.63	0.00	0.00
16	137.00	RF4440d-13A	3	30.945	34.040	0.50	0.75	2.82	303.84	0.000	0.000	153.53	0.00	0.00
17	137.00	RF4439d-25A	3	30.945	34.040	0.50	0.75	2.82	253.08	0.000	0.000	153.53	0.00	0.00
18	137.00	NHH-65B-R2B	6	30.945	34.040	0.62	0.75	30.18	314.64	0.000	0.000	1643.64	0.00	0.00
19	137.00	Low Profile Platform	1	30.945	34.040	1.00	1.00	35.00	1440.00	0.000	0.000	1906.22	0.00	0.00
20	117.00	4449 B5/B12	3	29.934	32.927	0.54	0.80	3.17	255.60	0.000	0.000	166.89	0.00	0.00
21	117.00	8843 B25/B66A	3	29.934	32.927	0.54	0.80	2.64	259.20	0.000	0.000	138.93	0.00	0.00
22	117.00	RRUS 4478 B14	3	29.934	32.927	0.54	0.80	2.65	213.84	0.000	0.000	139.78	0.00	0.00
23	117.00	DC6-48-60-18-8F	1	29.934	32.927	1.00	1.00	0.92	38.16	0.000	0.000	48.47	0.00	0.00
24	117.00	DC9-48-60-24-PC16-EV	1	29.934	32.927	1.00	1.00	1.14	31.44	0.000	0.000	60.06	0.00	0.00
25	117.00	(3) Sector Mount	1	29.934	32.927	0.75	0.75	35.33	2035.20	0.000	0.000	1861.06	0.00	0.00
26	117.00	7770.00	3	29.934	32.927	0.58	0.80	9.64	126.00	0.000	0.000	507.66	0.00	0.00
27	117.00	OPA65R-BU6DA	3	29.934	32.927	0.71	0.80	23.92	248.40	0.000	0.000	1260.37	0.00	0.00
28	117.00	DMP65R-BU6DA	3	29.934	32.927	0.58	0.80	21.96	285.84	0.000	0.000	1157.09	0.00	0.00
29	117.00	LGP21401	6	29.934	32.927	0.40	0.80	3.10	101.52	0.000	0.000	163.11	0.00	0.00
30	100.00	Lucent KS24019-L112A	1	28.961	31.857	1.00	1.00	0.91	4.80	0.000	0.000	46.38	0.00	0.00
31	80.00	Side Arm	1	27.632	30.395	1.00	1.00	4.50	144.00	0.000	0.000	218.84	0.00	0.00
32	80.00	GPS	1	27.632	30.395	1.00	1.00	0.91	4.80	0.000	0.000	44.25	0.00	0.00
<b>Totals:</b>									<b>10,787.18</b>			<b>17,838.51</b>		

## Total Applied Force Summary

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 11

**Load Case:** 1.2D + 1.6W 97 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.60



**Iterations** 20

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		624.51	2313.80	0.00	0.00
10.00		612.56	2272.70	0.00	0.00
15.00		600.62	2231.60	0.00	0.00
20.00		624.61	2190.50	0.00	0.00
25.00		641.37	2149.39	0.00	0.00
30.00		652.67	2108.29	0.00	0.00
35.00		659.94	2067.19	0.00	0.00
37.75		362.62	1119.43	0.00	0.00
40.00		301.58	1640.77	0.00	0.00
45.00		676.10	3590.29	0.00	0.00
50.00		675.90	1750.06	0.00	0.00
55.00		673.92	1714.10	0.00	0.00
60.00		670.41	1678.14	0.00	0.00
65.00		665.56	1642.17	0.00	0.00
70.00		659.53	1606.21	0.00	0.00
75.00		652.44	1570.24	0.00	0.00
76.50		193.27	464.06	0.00	0.00
80.00	(2) attachments	719.42	2041.74	0.00	0.00
82.75		355.22	1463.82	0.00	0.00
85.00		288.42	594.18	0.00	0.00
90.00		636.08	1298.04	0.00	0.00
95.00		625.77	1267.22	0.00	0.00
100.00	(1) attachments	661.16	1241.19	0.00	0.00
105.00		603.16	1205.56	0.00	0.00
110.00		590.95	1174.74	0.00	0.00
111.25		145.25	288.87	0.00	0.00
115.00		438.02	1404.28	0.00	0.00
116.50		172.79	553.21	0.00	0.00
117.00	(27) attachments	5560.70	3684.73	0.00	0.00
120.00		341.65	485.67	0.00	0.00
125.00		559.42	790.95	0.00	0.00
130.00		545.27	767.83	0.00	0.00
135.00		530.68	744.71	0.00	0.00
137.00	(24) attachments	6538.36	3405.91	0.00	0.00
140.00		307.11	380.85	0.00	0.00
145.00		500.26	616.26	0.00	0.00
147.00	(27) attachments	5890.14	4163.91	0.00	0.00
150.00		288.36	341.23	0.00	0.00
<b>Totals:</b>		<b>36,245.79</b>	<b>60,023.84</b>	<b>0.00</b>	<b>0.00</b>

## Calculated Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



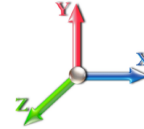
Page: 12

**Load Case:** 1.2D + 1.6W 97 mph Wind

**Iterations** 20

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-59.99	-36.29	0.00	-3816.9	0.00	3816.94	7146.92	3573.46	19526.6	9777.85	0.00	0.000	0.000	0.399
5.00	-57.62	-35.76	0.00	-3635.4	0.00	3635.47	7059.52	3529.76	18917.0	9472.57	0.05	-0.090	0.000	0.392
10.00	-55.30	-35.23	0.00	-3456.6	0.00	3456.68	6970.22	3485.11	18311.5	9169.38	0.19	-0.181	0.000	0.385
15.00	-53.01	-34.70	0.00	-3280.5	0.00	3280.54	6879.00	3439.50	17710.5	8868.44	0.43	-0.272	0.000	0.378
20.00	-50.77	-34.15	0.00	-3107.0	0.00	3107.02	6785.88	3392.94	17114.3	8569.88	0.77	-0.364	0.000	0.370
25.00	-48.57	-33.57	0.00	-2936.2	0.00	2936.27	6690.86	3345.43	16523.1	8273.86	1.20	-0.457	0.000	0.362
30.00	-46.42	-32.98	0.00	-2768.4	0.00	2768.42	6593.92	3296.96	15937.3	7980.54	1.73	-0.550	0.000	0.354
35.00	-44.31	-32.35	0.00	-2603.5	0.00	2603.54	6495.08	3247.54	15357.3	7690.06	2.35	-0.644	0.000	0.345
37.75	-43.17	-32.01	0.00	-2514.5	0.00	2514.58	6439.91	3219.95	15040.7	7531.56	2.74	-0.696	0.000	0.341
40.00	-41.50	-31.74	0.00	-2442.5	0.00	2442.56	6394.33	3197.17	14783.1	7402.57	3.08	-0.739	0.000	0.337
45.00	-37.87	-31.08	0.00	-2283.8	0.00	2283.87	5339.62	2669.81	12285.1	6151.71	3.90	-0.833	0.000	0.378
50.00	-36.07	-30.43	0.00	-2128.5	0.00	2128.50	5259.76	2629.88	11825.1	5921.34	4.83	-0.926	0.000	0.366
55.00	-34.32	-29.79	0.00	-1976.3	0.00	1976.33	5178.00	2589.00	11369.2	5693.08	5.85	-1.028	0.000	0.354
60.00	-32.60	-29.15	0.00	-1827.3	0.00	1827.37	5094.33	2547.16	10917.9	5467.08	6.99	-1.129	0.000	0.341
65.00	-30.93	-28.50	0.00	-1681.6	0.00	1681.64	5008.75	2504.38	10471.4	5243.49	8.22	-1.229	0.000	0.327
70.00	-29.29	-27.86	0.00	-1539.1	0.00	1539.13	4921.27	2460.63	10029.9	5022.45	9.56	-1.328	0.000	0.313
75.00	-27.70	-27.20	0.00	-1399.8	0.00	1399.85	4831.88	2415.94	9593.97	4804.12	11.01	-1.425	0.000	0.297
76.50	-27.22	-27.02	0.00	-1359.0	0.00	1359.06	4804.69	2402.34	9464.26	4739.17	11.46	-1.455	0.000	0.293
80.00	-25.17	-26.27	0.00	-1264.5	0.00	1264.51	4740.58	2370.29	9163.66	4588.64	12.55	-1.522	0.000	0.281
82.75	-23.70	-25.89	0.00	-1192.2	0.00	1192.27	3881.76	1940.88	7531.87	3771.54	13.45	-1.575	0.000	0.322
85.00	-23.08	-25.62	0.00	-1134.0	0.00	1134.01	3850.62	1925.31	7380.41	3695.69	14.20	-1.617	0.000	0.313
90.00	-21.76	-24.98	0.00	-1005.9	0.00	1005.92	3780.02	1890.01	7046.53	3528.50	15.95	-1.717	0.000	0.291
95.00	-20.47	-24.35	0.00	-881.01	0.00	881.01	3707.52	1853.76	6716.61	3363.30	17.80	-1.812	0.000	0.268
100.00	-19.22	-23.68	0.00	-759.26	0.00	759.26	3633.11	1816.55	6390.95	3200.23	19.75	-1.903	0.000	0.243
105.00	-18.00	-23.06	0.00	-640.87	0.00	640.87	3556.79	1778.40	6069.86	3039.44	21.78	-1.987	0.000	0.216
110.00	-16.83	-22.44	0.00	-525.57	0.00	525.57	3478.57	1739.28	5753.63	2881.09	23.91	-2.064	0.000	0.187
111.25	-16.53	-22.30	0.00	-497.52	0.00	497.52	3458.72	1729.36	5675.37	2841.90	24.45	-2.082	0.000	0.180
115.00	-15.13	-21.82	0.00	-413.91	0.00	413.91	3398.44	1699.22	5442.57	2725.33	26.11	-2.133	0.000	0.156
116.50	-14.58	-21.63	0.00	-381.19	0.00	381.19	2333.64	1166.82	3772.85	1889.23	26.78	-2.152	0.000	0.208
117.00	-11.10	-15.94	0.00	-370.37	0.00	370.37	2329.06	1164.53	3753.21	1879.39	27.01	-2.158	0.000	0.202
120.00	-10.61	-15.59	0.00	-322.57	0.00	322.57	2301.15	1150.58	3635.71	1820.56	28.38	-2.201	0.000	0.182
125.00	-9.83	-15.01	0.00	-244.64	0.00	244.64	2253.12	1126.56	3441.45	1723.28	30.72	-2.264	0.000	0.147
130.00	-9.07	-14.44	0.00	-169.62	0.00	169.62	2203.18	1101.59	3249.43	1627.13	33.12	-2.315	0.000	0.109
135.00	-8.34	-13.88	0.00	-97.44	0.00	97.44	2151.33	1075.66	3059.95	1532.25	35.57	-2.352	0.000	0.068
137.00	-5.21	-7.21	0.00	-69.68	0.00	69.68	2130.06	1065.03	2984.93	1494.68	36.55	-2.362	0.000	0.049
140.00	-4.84	-6.89	0.00	-48.06	0.00	48.06	2097.57	1048.79	2873.30	1438.78	38.04	-2.373	0.000	0.036
145.00	-4.24	-6.36	0.00	-13.63	0.00	13.63	2041.91	1020.96	2689.79	1346.89	40.53	-2.383	0.000	0.012
147.00	-0.33	-0.30	0.00	-0.91	0.00	0.91	2019.12	1009.56	2617.33	1310.61	41.53	-2.385	0.000	0.001
150.00	0.00	-0.29	0.00	0.00	0.00	0.00	1984.35	992.17	2509.71	1256.72	43.03	-2.385	0.000	0.000

## Wind Loading - Shaft

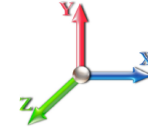
<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 13

**Load Case:** 0.9D + 1.6W 97 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.60



**Iterations** 20

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	19.450	21.40	506.79	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	19.450	21.40	497.19	0.650	0.000	5.00	28.066	18.24	624.5	0.0	1599.8
10.00		1.00	0.85	19.450	21.40	487.59	0.650	0.000	5.00	27.530	17.89	612.6	0.0	1569.0
15.00		1.00	0.85	19.450	21.40	477.99	0.650	0.000	5.00	26.993	17.55	600.6	0.0	1538.2
20.00		1.00	0.90	20.638	22.70	482.48	0.650	0.000	5.00	26.456	17.20	624.6	0.0	1507.3
25.00		1.00	0.95	21.630	23.79	483.82	0.650	0.000	5.00	25.919	16.85	641.4	0.0	1476.5
30.00		1.00	0.98	22.477	24.72	482.87	0.650	0.000	5.00	25.383	16.50	652.7	0.0	1445.7
35.00		1.00	1.01	23.218	25.54	480.28	0.650	0.000	5.00	24.846	16.15	659.9	0.0	1414.9
37.75 Bot - Section 2		1.00	1.03	23.591	25.95	478.31	0.650	0.000	2.75	13.436	8.73	362.6	0.0	765.0
40.00		1.00	1.04	23.880	26.27	476.45	0.650	0.000	2.25	11.039	7.18	301.6	0.0	1169.6
45.00 Top - Section 1		1.00	1.07	24.479	26.93	471.62	0.650	0.000	5.00	24.143	15.69	676.1	0.0	2557.2
50.00		1.00	1.09	25.029	27.53	473.50	0.650	0.000	5.00	23.606	15.34	675.9	0.0	1177.0
55.00		1.00	1.12	25.536	28.09	467.28	0.650	0.000	5.00	23.069	14.99	673.9	0.0	1150.0
60.00		1.00	1.14	26.008	28.61	460.47	0.650	0.000	5.00	22.532	14.65	670.4	0.0	1123.1
65.00		1.00	1.16	26.450	29.09	453.18	0.650	0.000	5.00	21.996	14.30	665.6	0.0	1096.1
70.00		1.00	1.17	26.866	29.55	445.44	0.650	0.000	5.00	21.459	13.95	659.5	0.0	1069.1
75.00		1.00	1.19	27.259	29.98	437.32	0.650	0.000	5.00	20.922	13.60	652.4	0.0	1042.1
76.50 Bot - Section 3		1.00	1.20	27.373	30.11	434.82	0.650	0.000	1.50	6.172	4.01	193.3	0.0	307.4
80.00 Appurtenance(s)		1.00	1.21	27.632	30.39	428.86	0.650	0.000	3.50	14.436	9.38	456.3	0.0	1324.8
82.75 Top - Section 2		1.00	1.22	27.829	30.61	424.08	0.650	0.000	2.75	11.158	7.25	355.2	0.0	1023.7
85.00		1.00	1.22	27.987	30.79	426.90	0.650	0.000	2.25	9.008	5.86	288.4	0.0	385.0
90.00		1.00	1.24	28.325	31.16	417.89	0.650	0.000	5.00	19.629	12.76	636.1	0.0	838.7
95.00		1.00	1.25	28.650	31.51	408.63	0.650	0.000	5.00	19.093	12.41	625.8	0.0	815.6
100.00 Appurtenance(s)		1.00	1.27	28.961	31.86	399.12	0.650	0.000	5.00	18.556	12.06	614.8	0.0	792.5
105.00		1.00	1.28	29.260	32.19	389.40	0.650	0.000	5.00	18.019	11.71	603.2	0.0	769.4
110.00		1.00	1.29	29.548	32.50	379.48	0.650	0.000	5.00	17.482	11.36	591.0	0.0	746.2
111.25 Bot - Section 4		1.00	1.29	29.618	32.58	376.97	0.650	0.000	1.25	4.287	2.79	145.2	0.0	182.9
115.00		1.00	1.30	29.826	32.81	369.38	0.650	0.000	3.75	12.837	8.34	438.0	0.0	952.1
116.50 Top - Section 3		1.00	1.31	29.907	32.90	366.31	0.650	0.000	1.50	5.050	3.28	172.8	0.0	374.5
117.00 Appurtenance(s)		1.00	1.31	29.934	32.93	370.57	0.650	0.000	0.50	1.673	1.09	57.3	0.0	53.7
120.00		1.00	1.32	30.094	33.10	364.39	0.650	0.000	3.00	9.924	6.45	341.7	0.0	318.4
125.00		1.00	1.33	30.354	33.39	353.97	0.650	0.000	5.00	16.110	10.47	559.4	0.0	516.7
130.00		1.00	1.34	30.605	33.67	343.39	0.650	0.000	5.00	15.574	10.12	545.3	0.0	499.4
135.00		1.00	1.35	30.850	33.93	332.66	0.650	0.000	5.00	15.037	9.77	530.7	0.0	482.0
137.00 Appurtenance(s)		1.00	1.35	30.945	34.04	328.34	0.650	0.000	2.00	5.864	3.81	207.6	0.0	188.0
140.00		1.00	1.36	31.087	34.20	321.80	0.650	0.000	3.00	8.636	5.61	307.1	0.0	276.7
145.00		1.00	1.37	31.317	34.45	310.81	0.650	0.000	5.00	13.963	9.08	500.3	0.0	447.3
147.00 Appurtenance(s)		1.00	1.37	31.408	34.55	306.38	0.650	0.000	2.00	5.435	3.53	195.3	0.0	174.1
150.00		1.00	1.38	31.541	34.70	299.70	0.650	0.000	3.00	7.992	5.19	288.4	0.0	255.9
<b>Totals:</b>									<b>150.00</b>			<b>18,407.3</b>		<b>33,425.5</b>

## Discrete Appurtenance Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 14

**Load Case:** 0.9D + 1.6W 97 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.60



**Iterations** 20

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	147.00	MS-HRECP-35	1	31.408	34.548	1.00	1.00	12.25	462.60	0.000	0.000	677.15	0.00	0.00
2	147.00	4415 B25	3	31.408	34.548	0.54	0.75	3.01	125.01	0.000	0.000	166.56	0.00	0.00
3	147.00	800 MHz RRH	3	31.408	34.548	0.50	0.75	3.62	143.10	0.000	0.000	199.99	0.00	0.00
4	147.00	4449 B71 + B85	3	31.408	34.548	0.50	0.75	2.97	202.50	0.000	0.000	164.16	0.00	0.00
5	147.00	800 MHz Filter	3	31.408	34.548	0.38	0.75	0.88	23.76	0.000	0.000	48.51	0.00	0.00
6	147.00	ACU-A20-N	4	31.408	34.548	0.50	0.75	0.28	3.60	0.000	0.000	15.56	0.00	0.00
7	147.00	AIR32 KRD901146	3	31.408	34.548	0.65	0.75	12.74	356.94	0.000	0.000	704.42	0.00	0.00
8	147.00	APXVAALL24_43-U-NA20	3	31.408	34.548	0.55	0.75	33.24	267.30	0.000	0.000	1837.65	0.00	0.00
9	147.00	AIR6449 B41	3	31.408	34.548	0.53	0.75	9.03	278.10	0.000	0.000	498.93	0.00	0.00
10	147.00	Low Profile Platform	1	31.408	34.548	1.00	1.00	25.00	1080.00	0.000	0.000	1381.93	0.00	0.00
11	137.00	DB-T1-6Z-8AB-0Z	1	30.945	34.040	1.00	1.00	4.80	17.01	0.000	0.000	261.43	0.00	0.00
12	137.00	LNx-6514DS	3	30.945	34.040	0.60	0.75	14.56	89.37	0.000	0.000	793.10	0.00	0.00
13	137.00	MT6407-77A w/ integrated	3	30.945	34.040	0.52	0.75	7.39	214.38	0.000	0.000	402.31	0.00	0.00
14	137.00	BXA-70063/6CF	3	30.945	34.040	0.52	0.75	11.92	45.90	0.000	0.000	649.36	0.00	0.00
15	137.00	HRK12 (Handrail Kit)	1	30.945	34.040	1.00	1.00	6.75	235.55	0.000	0.000	367.63	0.00	0.00
16	137.00	RF4440d-13A	3	30.945	34.040	0.50	0.75	2.82	227.88	0.000	0.000	153.53	0.00	0.00
17	137.00	RF4439d-25A	3	30.945	34.040	0.50	0.75	2.82	189.81	0.000	0.000	153.53	0.00	0.00
18	137.00	NHH-65B-R2B	6	30.945	34.040	0.62	0.75	30.18	235.98	0.000	0.000	1643.64	0.00	0.00
19	137.00	Low Profile Platform	1	30.945	34.040	1.00	1.00	35.00	1080.00	0.000	0.000	1906.22	0.00	0.00
20	117.00	4449 B5/B12	3	29.934	32.927	0.54	0.80	3.17	191.70	0.000	0.000	166.89	0.00	0.00
21	117.00	8843 B25/B66A	3	29.934	32.927	0.54	0.80	2.64	194.40	0.000	0.000	138.93	0.00	0.00
22	117.00	RRUS 4478 B14	3	29.934	32.927	0.54	0.80	2.65	160.38	0.000	0.000	139.78	0.00	0.00
23	117.00	DC6-48-60-18-8F	1	29.934	32.927	1.00	1.00	0.92	28.62	0.000	0.000	48.47	0.00	0.00
24	117.00	DC9-48-60-24-PC16-EV	1	29.934	32.927	1.00	1.00	1.14	23.58	0.000	0.000	60.06	0.00	0.00
25	117.00	(3) Sector Mount	1	29.934	32.927	0.75	0.75	35.33	1526.40	0.000	0.000	1861.06	0.00	0.00
26	117.00	7770.00	3	29.934	32.927	0.58	0.80	9.64	94.50	0.000	0.000	507.66	0.00	0.00
27	117.00	OPA65R-BU6DA	3	29.934	32.927	0.71	0.80	23.92	186.30	0.000	0.000	1260.37	0.00	0.00
28	117.00	DMP65R-BU6DA	3	29.934	32.927	0.58	0.80	21.96	214.38	0.000	0.000	1157.09	0.00	0.00
29	117.00	LGP21401	6	29.934	32.927	0.40	0.80	3.10	76.14	0.000	0.000	163.11	0.00	0.00
30	100.00	Lucent KS24019-L112A	1	28.961	31.857	1.00	1.00	0.91	3.60	0.000	0.000	46.38	0.00	0.00
31	80.00	Side Arm	1	27.632	30.395	1.00	1.00	4.50	108.00	0.000	0.000	218.84	0.00	0.00
32	80.00	GPS	1	27.632	30.395	1.00	1.00	0.91	3.60	0.000	0.000	44.25	0.00	0.00
<b>Totals:</b>									<b>8,090.39</b>			<b>17,838.51</b>		

## Total Applied Force Summary

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 15

**Load Case:** 0.9D + 1.6W 97 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.60



**Iterations** 20

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		624.51	1735.35	0.00	0.00
10.00		612.56	1704.53	0.00	0.00
15.00		600.62	1673.70	0.00	0.00
20.00		624.61	1642.87	0.00	0.00
25.00		641.37	1612.04	0.00	0.00
30.00		652.67	1581.22	0.00	0.00
35.00		659.94	1550.39	0.00	0.00
37.75		362.62	839.58	0.00	0.00
40.00		301.58	1230.58	0.00	0.00
45.00		676.10	2692.72	0.00	0.00
50.00		675.90	1312.55	0.00	0.00
55.00		673.92	1285.58	0.00	0.00
60.00		670.41	1258.60	0.00	0.00
65.00		665.56	1231.63	0.00	0.00
70.00		659.53	1204.65	0.00	0.00
75.00		652.44	1177.68	0.00	0.00
76.50		193.27	348.04	0.00	0.00
80.00	(2) attachments	719.42	1531.30	0.00	0.00
82.75		355.22	1097.86	0.00	0.00
85.00		288.42	445.63	0.00	0.00
90.00		636.08	973.53	0.00	0.00
95.00		625.77	950.41	0.00	0.00
100.00	(1) attachments	661.16	930.89	0.00	0.00
105.00		603.16	904.17	0.00	0.00
110.00		590.95	881.05	0.00	0.00
111.25		145.25	216.65	0.00	0.00
115.00		438.02	1053.21	0.00	0.00
116.50		172.79	414.91	0.00	0.00
117.00	(27) attachments	5560.70	2763.55	0.00	0.00
120.00		341.65	364.25	0.00	0.00
125.00		559.42	593.22	0.00	0.00
130.00		545.27	575.87	0.00	0.00
135.00		530.68	558.53	0.00	0.00
137.00	(24) attachments	6538.36	2554.43	0.00	0.00
140.00		307.11	285.64	0.00	0.00
145.00		500.26	462.19	0.00	0.00
147.00	(27) attachments	5890.14	3122.93	0.00	0.00
150.00		288.36	255.92	0.00	0.00
<b>Totals:</b>		<b>36,245.79</b>	<b>45,017.88</b>	<b>0.00</b>	<b>0.00</b>

## Calculated Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



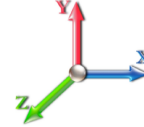
Page: 16

**Load Case:** 0.9D + 1.6W 97 mph Wind

**Iterations** 20

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-44.99	-36.28	0.00	-3798.0	0.00	3798.01	7146.92	3573.46	19526.6	9777.85	0.00	0.000	0.000	0.395
5.00	-43.20	-35.72	0.00	-3616.6	0.00	3616.60	7059.52	3529.76	18917.0	9472.57	0.05	-0.090	0.000	0.388
10.00	-41.44	-35.17	0.00	-3437.9	0.00	3437.98	6970.22	3485.11	18311.5	9169.38	0.19	-0.180	0.000	0.381
15.00	-39.71	-34.63	0.00	-3262.1	0.00	3262.12	6879.00	3439.50	17710.5	8868.44	0.43	-0.271	0.000	0.374
20.00	-38.02	-34.06	0.00	-3088.9	0.00	3088.98	6785.88	3392.94	17114.3	8569.88	0.76	-0.362	0.000	0.366
25.00	-36.36	-33.46	0.00	-2918.7	0.00	2918.70	6690.86	3345.43	16523.1	8273.86	1.19	-0.454	0.000	0.358
30.00	-34.73	-32.85	0.00	-2751.3	0.00	2751.39	6593.92	3296.96	15937.3	7980.54	1.72	-0.547	0.000	0.350
35.00	-33.14	-32.22	0.00	-2587.1	0.00	2587.13	6495.08	3247.54	15357.3	7690.06	2.34	-0.640	0.000	0.342
37.75	-32.28	-31.87	0.00	-2498.5	0.00	2498.54	6439.91	3219.95	15040.7	7531.56	2.73	-0.692	0.000	0.337
40.00	-31.02	-31.59	0.00	-2426.8	0.00	2426.83	6394.33	3197.17	14783.1	7402.57	3.06	-0.735	0.000	0.333
45.00	-28.29	-30.93	0.00	-2268.8	0.00	2268.87	5339.62	2669.81	12285.1	6151.71	3.88	-0.828	0.000	0.374
50.00	-26.93	-30.27	0.00	-2114.2	0.00	2114.25	5259.76	2629.88	11825.1	5921.34	4.80	-0.921	0.000	0.362
55.00	-25.61	-29.62	0.00	-1962.8	0.00	1962.87	5178.00	2589.00	11369.2	5693.08	5.82	-1.022	0.000	0.350
60.00	-24.31	-28.97	0.00	-1814.7	0.00	1814.75	5094.33	2547.16	10917.9	5467.08	6.94	-1.122	0.000	0.337
65.00	-23.04	-28.32	0.00	-1669.8	0.00	1669.89	5008.75	2504.38	10471.4	5243.49	8.17	-1.221	0.000	0.323
70.00	-21.81	-27.67	0.00	-1528.2	0.00	1528.28	4921.27	2460.63	10029.9	5022.45	9.51	-1.320	0.000	0.309
75.00	-20.62	-27.02	0.00	-1389.9	0.00	1389.92	4831.88	2415.94	9593.97	4804.12	10.94	-1.416	0.000	0.294
76.50	-20.25	-26.83	0.00	-1349.4	0.00	1349.40	4804.69	2402.34	9464.26	4739.17	11.39	-1.446	0.000	0.289
80.00	-18.71	-26.09	0.00	-1255.4	0.00	1255.49	4740.58	2370.29	9163.66	4588.64	12.48	-1.513	0.000	0.278
82.75	-17.60	-25.72	0.00	-1183.7	0.00	1183.74	3881.76	1940.88	7531.87	3771.54	13.37	-1.565	0.000	0.319
85.00	-17.13	-25.44	0.00	-1125.8	0.00	1125.87	3850.62	1925.31	7380.41	3695.69	14.11	-1.607	0.000	0.309
90.00	-16.14	-24.80	0.00	-998.67	0.00	998.67	3780.02	1890.01	7046.53	3528.50	15.85	-1.706	0.000	0.287
95.00	-15.17	-24.17	0.00	-874.64	0.00	874.64	3707.52	1853.76	6716.61	3363.30	17.69	-1.801	0.000	0.264
100.00	-14.22	-23.51	0.00	-753.77	0.00	753.77	3633.11	1816.55	6390.95	3200.23	19.62	-1.890	0.000	0.240
105.00	-13.31	-22.89	0.00	-636.25	0.00	636.25	3556.79	1778.40	6069.86	3039.44	21.65	-1.974	0.000	0.213
110.00	-12.43	-22.28	0.00	-521.79	0.00	521.79	3478.57	1739.28	5753.63	2881.09	23.76	-2.050	0.000	0.185
111.25	-12.20	-22.13	0.00	-493.94	0.00	493.94	3458.72	1729.36	5675.37	2841.90	24.30	-2.068	0.000	0.177
115.00	-11.15	-21.66	0.00	-410.94	0.00	410.94	3398.44	1699.22	5442.57	2725.33	25.95	-2.119	0.000	0.154
116.50	-10.74	-21.48	0.00	-378.45	0.00	378.45	2333.64	1166.82	3772.85	1889.23	26.61	-2.137	0.000	0.205
117.00	-8.18	-15.82	0.00	-367.71	0.00	367.71	2329.06	1164.53	3753.21	1879.39	26.84	-2.144	0.000	0.199
120.00	-7.81	-15.47	0.00	-320.24	0.00	320.24	2301.15	1150.58	3635.71	1820.56	28.20	-2.187	0.000	0.179
125.00	-7.23	-14.90	0.00	-242.88	0.00	242.88	2253.12	1126.56	3441.45	1723.28	30.53	-2.249	0.000	0.144
130.00	-6.66	-14.34	0.00	-168.38	0.00	168.38	2203.18	1101.59	3249.43	1627.13	32.91	-2.300	0.000	0.107
135.00	-6.12	-13.79	0.00	-96.70	0.00	96.70	2151.33	1075.66	3059.95	1532.25	35.34	-2.336	0.000	0.066
137.00	-3.84	-7.15	0.00	-69.13	0.00	69.13	2130.06	1065.03	2984.93	1494.68	36.32	-2.346	0.000	0.048
140.00	-3.56	-6.83	0.00	-47.68	0.00	47.68	2097.57	1048.79	2873.30	1438.78	37.80	-2.357	0.000	0.035
145.00	-3.12	-6.31	0.00	-13.52	0.00	13.52	2041.91	1020.96	2689.79	1346.89	40.27	-2.368	0.000	0.012
147.00	-0.24	-0.30	0.00	-0.90	0.00	0.90	2019.12	1009.56	2617.33	1310.61	41.27	-2.369	0.000	0.001
150.00	0.00	-0.29	0.00	0.00	0.00	0.00	1984.35	992.17	2509.71	1256.72	42.75	-2.369	0.000	0.000

## Wind Loading - Shaft

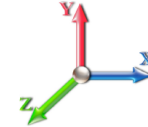
<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 17

**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 19

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.656	5.00	29.446	35.34	200.9	698.8	2831.9
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.775	5.00	29.009	34.81	197.9	736.1	2828.1
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.848	5.00	28.533	34.24	194.6	752.7	2803.6
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.902	5.00	28.041	33.65	203.0	760.2	2770.0
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.945	5.00	27.540	33.05	208.9	762.4	2731.1
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.981	5.00	27.033	32.44	213.1	761.1	2688.7
35.00		1.00	1.01	6.169	6.79	0.00	1.200	2.012	5.00	26.522	31.83	216.0	757.3	2643.8
37.75 Bot - Section 2		1.00	1.03	6.268	6.89	0.00	1.200	2.027	2.75	14.366	17.24	118.9	414.9	1435.0
40.00		1.00	1.04	6.345	6.98	0.00	1.200	2.039	2.25	11.804	14.16	98.9	343.3	1902.7
45.00 Top - Section 1		1.00	1.07	6.504	7.15	0.00	1.200	2.063	5.00	25.862	31.03	222.0	755.8	4165.3
50.00		1.00	1.09	6.650	7.32	0.00	1.200	2.085	5.00	25.343	30.41	222.5	747.5	2316.8
55.00		1.00	1.12	6.785	7.46	0.00	1.200	2.105	5.00	24.823	29.79	222.3	738.2	2271.5
60.00		1.00	1.14	6.910	7.60	0.00	1.200	2.123	5.00	24.302	29.16	221.7	728.0	2225.4
65.00		1.00	1.16	7.028	7.73	0.00	1.200	2.140	5.00	23.779	28.54	220.6	717.0	2178.5
70.00		1.00	1.17	7.138	7.85	0.00	1.200	2.156	5.00	23.256	27.91	219.1	705.4	2130.9
75.00		1.00	1.19	7.243	7.97	0.00	1.200	2.171	5.00	22.731	27.28	217.3	693.3	2082.8
76.50 Bot - Section 3		1.00	1.20	7.273	8.00	0.00	1.200	2.175	1.50	6.716	8.06	64.5	206.9	616.7
80.00 Appurtenance(s)		1.00	1.21	7.342	8.08	0.00	1.200	2.185	3.50	15.710	18.85	152.3	483.6	2250.0
82.75 Top - Section 2		1.00	1.22	7.394	8.13	0.00	1.200	2.193	2.75	12.163	14.60	118.7	376.0	1741.0
85.00		1.00	1.22	7.436	8.18	0.00	1.200	2.198	2.25	9.833	11.80	96.5	305.0	818.3
90.00		1.00	1.24	7.526	8.28	0.00	1.200	2.211	5.00	21.472	25.77	213.3	664.2	1782.5
95.00		1.00	1.25	7.612	8.37	0.00	1.200	2.223	5.00	20.945	25.13	210.5	650.3	1737.8
100.00 Appurtenance(s)		1.00	1.27	7.695	8.46	0.00	1.200	2.234	5.00	20.418	24.50	207.4	636.1	1692.7
105.00		1.00	1.28	7.774	8.55	0.00	1.200	2.245	5.00	19.890	23.87	204.1	621.5	1647.3
110.00		1.00	1.29	7.851	8.64	0.00	1.200	2.256	5.00	19.362	23.23	200.7	606.6	1601.6
111.25 Bot - Section 4		1.00	1.29	7.870	8.66	0.00	1.200	2.258	1.25	4.757	5.71	49.4	150.7	394.6
115.00		1.00	1.30	7.925	8.72	0.00	1.200	2.266	3.75	14.254	17.10	149.1	449.5	1719.0
116.50 Top - Section 3		1.00	1.31	7.946	8.74	0.00	1.200	2.269	1.50	5.618	6.74	58.9	178.4	677.7
117.00 Appurtenance(s)		1.00	1.31	7.954	8.75	0.00	1.200	2.270	0.50	1.862	2.23	19.5	59.3	130.9
120.00		1.00	1.32	7.996	8.80	0.00	1.200	2.276	3.00	11.062	13.27	116.8	350.4	774.9
125.00		1.00	1.33	8.065	8.87	0.00	1.200	2.285	5.00	18.014	21.62	191.8	568.4	1257.3
130.00		1.00	1.34	8.132	8.95	0.00	1.200	2.294	5.00	17.485	20.98	187.7	552.5	1218.3
135.00		1.00	1.35	8.197	9.02	0.00	1.200	2.303	5.00	16.956	20.35	183.5	536.4	1179.1
137.00 Appurtenance(s)		1.00	1.35	8.222	9.04	0.00	1.200	2.306	2.00	6.633	7.96	72.0	212.0	462.6
140.00		1.00	1.36	8.260	9.09	0.00	1.200	2.311	3.00	9.791	11.75	106.8	312.1	681.0
145.00		1.00	1.37	8.321	9.15	0.00	1.200	2.319	5.00	15.896	19.08	174.6	503.6	1100.1
147.00 Appurtenance(s)		1.00	1.37	8.345	9.18	0.00	1.200	2.322	2.00	6.209	7.45	68.4	198.8	430.9
150.00		1.00	1.38	8.381	9.22	0.00	1.200	2.327	3.00	9.155	10.99	101.3	292.2	633.4
<b>Totals:</b>									<b>150.00</b>			<b>6,145.2</b>		<b>64,553.6</b>



## Discrete Appurtenance Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 18

**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 19

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	
1	147.00	MS-HRECP-35	1	8.345	9.180	1.00	1.00	28.18	1942.48	0.000	0.000	258.69	0.00	0.00	
2	147.00	4415 B25	3	8.345	9.180	0.54	0.75	4.27	432.22	0.000	0.000	39.24	0.00	0.00	
3	147.00	800 MHz RRH	3	8.345	9.180	0.50	0.75	5.86	346.72	0.000	0.000	53.82	0.00	0.00	
4	147.00	4449 B71 + B85	3	8.345	9.180	0.50	0.75	4.11	336.37	0.000	0.000	37.75	0.00	0.00	
5	147.00	800 MHz Filter	3	8.345	9.180	0.38	0.75	1.85	87.11	0.000	0.000	16.94	0.00	0.00	
6	147.00	ACU-A20-N	4	8.345	9.180	0.50	0.75	1.07	22.47	0.000	0.000	9.87	0.00	0.00	
7	147.00	AIR32 KRD901146	3	8.345	9.180	0.65	0.75	15.73	1252.39	0.000	0.000	144.37	0.00	0.00	
8	147.00	APXVAALL24_43-U-NA20	3	8.345	9.180	0.55	0.75	37.45	2134.91	0.000	0.000	343.76	0.00	0.00	
9	147.00	AIR6449 B41	3	8.345	9.180	0.53	0.75	11.05	823.07	0.000	0.000	101.40	0.00	0.00	
10	147.00	Low Profile Platform	1	8.345	9.180	1.00	1.00	52.87	2533.35	0.000	0.000	485.30	0.00	0.00	
11	137.00	DB-T1-6Z-8AB-0Z	1	8.222	9.044	1.00	1.00	6.13	155.56	0.000	0.000	55.43	0.00	0.00	
12	137.00	LNx-6514DS	3	8.222	9.044	0.60	0.75	21.21	661.69	0.000	0.000	191.84	0.00	0.00	
13	137.00	MT6407-77A w/ integrated	3	8.222	9.044	0.52	0.75	9.39	792.27	0.000	0.000	84.91	0.00	0.00	
14	137.00	BXA-70063/6CF	3	8.222	9.044	0.52	0.75	17.67	501.12	0.000	0.000	159.85	0.00	0.00	
15	137.00	HRK12 (Handrail Kit)	1	8.222	9.044	1.00	1.00	15.47	986.17	0.000	0.000	139.89	0.00	0.00	
16	137.00	RF4440d-13A	3	8.222	9.044	0.50	0.75	4.00	631.49	0.000	0.000	36.14	0.00	0.00	
17	137.00	RF4439d-25A	3	8.222	9.044	0.50	0.75	4.00	551.25	0.000	0.000	36.14	0.00	0.00	
18	137.00	NHH-65B-R2B	6	8.222	9.044	0.62	0.75	36.70	2012.60	0.000	0.000	331.90	0.00	0.00	
19	137.00	Low Profile Platform	1	8.222	9.044	1.00	1.00	73.74	2523.57	0.000	0.000	666.94	0.00	0.00	
20	117.00	4449 B5/B12	3	7.954	8.749	0.54	0.80	4.31	423.08	0.000	0.000	37.73	0.00	0.00	
21	117.00	8843 B25/B66A	3	7.954	8.749	0.54	0.80	3.68	405.98	0.000	0.000	32.16	0.00	0.00	
22	117.00	RRUS 4478 B14	3	7.954	8.749	0.54	0.80	3.74	347.43	0.000	0.000	32.70	0.00	0.00	
23	117.00	DC6-48-60-18-8F	1	7.954	8.749	1.00	1.00	1.49	100.87	0.000	0.000	13.03	0.00	0.00	
24	117.00	DC9-48-60-24-PC16-EV	1	7.954	8.749	1.00	1.00	3.20	152.19	0.000	0.000	28.03	0.00	0.00	
25	117.00	(3) Sector Mount	1	7.954	8.749	0.75	0.75	93.06	3799.01	0.000	0.000	814.14	0.00	0.00	
26	117.00	7770.00	3	7.954	8.749	0.58	0.80	12.11	690.03	0.000	0.000	105.96	0.00	0.00	
27	117.00	OPA65R-BU6DA	3	7.954	8.749	0.71	0.80	28.55	1267.96	0.000	0.000	249.78	0.00	0.00	
28	117.00	DMP65R-BU6DA	3	7.954	8.749	0.58	0.80	25.25	1233.21	0.000	0.000	220.94	0.00	0.00	
29	117.00	LGP21401	6	7.954	8.749	0.40	0.80	5.70	254.02	0.000	0.000	49.91	0.00	0.00	
30	100.00	Lucent KS24019-L112A	1	7.695	8.464	1.00	1.00	2.20	29.89	0.000	0.000	18.59	0.00	0.00	
31	80.00	Side Arm	1	7.342	8.076	1.00	1.00	11.07	245.11	0.000	0.000	89.39	0.00	0.00	
32	80.00	GPS	1	7.342	8.076	1.00	1.00	2.17	29.18	0.000	0.000	17.51	0.00	0.00	
<b>Totals:</b>									<b>27,704.78</b>						<b>4,904.05</b>

## Total Applied Force Summary

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 19

**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



**Iterations** 19

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		200.88	3012.57	0.00	0.00
10.00		197.89	3008.82	0.00	0.00
15.00		194.65	2984.32	0.00	0.00
20.00		202.97	2950.69	0.00	0.00
25.00		208.93	2911.80	0.00	0.00
30.00		213.11	2869.41	0.00	0.00
35.00		215.98	2824.52	0.00	0.00
37.75		118.86	1534.36	0.00	0.00
40.00		98.86	1984.05	0.00	0.00
45.00		222.04	4346.06	0.00	0.00
50.00		222.47	2497.55	0.00	0.00
55.00		222.32	2452.27	0.00	0.00
60.00		221.67	2406.11	0.00	0.00
65.00		220.59	2359.21	0.00	0.00
70.00		219.13	2311.65	0.00	0.00
75.00		217.32	2263.51	0.00	0.00
76.50		64.47	670.91	0.00	0.00
80.00	(2) attachments	259.15	2650.82	0.00	0.00
82.75		118.71	1839.85	0.00	0.00
85.00		96.52	899.16	0.00	0.00
90.00		213.31	1962.27	0.00	0.00
95.00		210.46	1917.54	0.00	0.00
100.00	(1) attachments	225.99	1902.34	0.00	0.00
105.00		204.12	1827.03	0.00	0.00
110.00		200.66	1781.32	0.00	0.00
111.25		49.42	439.57	0.00	0.00
115.00		149.10	1853.83	0.00	0.00
116.50		58.93	731.65	0.00	0.00
117.00	(27) attachments	1603.93	8822.64	0.00	0.00
120.00		116.75	836.07	0.00	0.00
125.00		191.78	1359.31	0.00	0.00
130.00		187.69	1320.31	0.00	0.00
135.00		183.46	1281.09	0.00	0.00
137.00	(24) attachments	1775.03	9319.10	0.00	0.00
140.00		106.75	692.91	0.00	0.00
145.00		174.60	1119.86	0.00	0.00
147.00	(27) attachments	1559.53	10349.89	0.00	0.00
150.00		101.28	633.38	0.00	0.00
Totals:		11,049.30	96,927.76	0.00	0.00

## Calculated Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

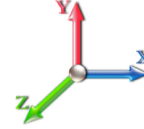


Page: 20

**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 19

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-96.92	-11.07	0.00	-1155.3	0.00	1155.38	7146.92	3573.46	19526.6	9777.85	0.00	0.000	0.000	0.132
5.00	-93.91	-10.92	0.00	-1100.0	0.00	1100.02	7059.52	3529.76	18917.0	9472.57	0.01	-0.027	0.000	0.129
10.00	-90.89	-10.76	0.00	-1045.4	0.00	1045.44	6970.22	3485.11	18311.5	9169.38	0.06	-0.055	0.000	0.127
15.00	-87.90	-10.60	0.00	-991.64	0.00	991.64	6879.00	3439.50	17710.5	8868.44	0.13	-0.082	0.000	0.125
20.00	-84.95	-10.44	0.00	-938.63	0.00	938.63	6785.88	3392.94	17114.3	8569.88	0.23	-0.110	0.000	0.122
25.00	-82.03	-10.26	0.00	-886.44	0.00	886.44	6690.86	3345.43	16523.1	8273.86	0.36	-0.138	0.000	0.119
30.00	-79.16	-10.08	0.00	-835.13	0.00	835.13	6593.92	3296.96	15937.3	7980.54	0.52	-0.166	0.000	0.117
35.00	-76.33	-9.88	0.00	-784.73	0.00	784.73	6495.08	3247.54	15357.3	7690.06	0.71	-0.194	0.000	0.114
37.75	-74.79	-9.78	0.00	-757.55	0.00	757.55	6439.91	3219.95	15040.7	7531.56	0.83	-0.210	0.000	0.112
40.00	-72.81	-9.70	0.00	-735.55	0.00	735.55	6394.33	3197.17	14783.1	7402.57	0.93	-0.223	0.000	0.111
45.00	-68.46	-9.49	0.00	-687.06	0.00	687.06	6339.62	2669.81	12285.1	6151.71	1.18	-0.251	0.000	0.125
50.00	-65.96	-9.29	0.00	-639.60	0.00	639.60	6259.76	2629.88	11825.1	5921.34	1.46	-0.280	0.000	0.121
55.00	-63.50	-9.09	0.00	-593.14	0.00	593.14	6178.00	2589.00	11369.2	5693.08	1.77	-0.310	0.000	0.116
60.00	-61.09	-8.89	0.00	-547.68	0.00	547.68	6094.33	2547.16	10917.9	5467.08	2.11	-0.340	0.000	0.112
65.00	-58.73	-8.68	0.00	-503.24	0.00	503.24	6008.75	2504.38	10471.4	5243.49	2.48	-0.370	0.000	0.108
70.00	-56.41	-8.48	0.00	-459.83	0.00	459.83	4921.27	2460.63	10029.9	5022.45	2.89	-0.400	0.000	0.103
75.00	-54.15	-8.26	0.00	-417.44	0.00	417.44	4831.88	2415.94	9593.97	4804.12	3.32	-0.429	0.000	0.098
76.50	-53.48	-8.21	0.00	-405.05	0.00	405.05	4804.69	2402.34	9464.26	4739.17	3.46	-0.438	0.000	0.097
80.00	-50.83	-7.94	0.00	-376.33	0.00	376.33	4740.58	2370.29	9163.66	4588.64	3.79	-0.458	0.000	0.093
82.75	-48.99	-7.82	0.00	-354.50	0.00	354.50	3881.76	1940.88	7531.87	3771.54	4.05	-0.473	0.000	0.107
85.00	-48.08	-7.73	0.00	-336.90	0.00	336.90	3850.62	1925.31	7380.41	3695.69	4.28	-0.486	0.000	0.104
90.00	-46.12	-7.53	0.00	-298.23	0.00	298.23	3780.02	1890.01	7046.53	3528.50	4.81	-0.516	0.000	0.097
95.00	-44.20	-7.32	0.00	-260.60	0.00	260.60	3707.52	1853.76	6716.61	3363.30	5.36	-0.544	0.000	0.089
100.00	-42.30	-7.09	0.00	-224.01	0.00	224.01	3633.11	1816.55	6390.95	3200.23	5.95	-0.571	0.000	0.082
105.00	-40.47	-6.89	0.00	-188.54	0.00	188.54	3556.79	1778.40	6069.86	3039.44	6.56	-0.595	0.000	0.073
110.00	-38.69	-6.68	0.00	-154.10	0.00	154.10	3478.57	1739.28	5753.63	2881.09	7.19	-0.618	0.000	0.065
111.25	-38.25	-6.63	0.00	-145.75	0.00	145.75	3458.72	1729.36	5675.37	2841.90	7.36	-0.623	0.000	0.062
115.00	-36.40	-6.47	0.00	-120.89	0.00	120.89	3398.44	1699.22	5442.57	2725.33	7.85	-0.638	0.000	0.055
116.50	-35.66	-6.40	0.00	-111.19	0.00	111.19	2333.64	1166.82	3772.85	1889.23	8.05	-0.644	0.000	0.074
117.00	-26.86	-4.70	0.00	-107.99	0.00	107.99	2329.06	1164.53	3753.21	1879.39	8.12	-0.646	0.000	0.069
120.00	-26.02	-4.58	0.00	-93.88	0.00	93.88	2301.15	1150.58	3635.71	1820.56	8.53	-0.658	0.000	0.063
125.00	-24.67	-4.38	0.00	-70.96	0.00	70.96	2253.12	1126.56	3441.45	1723.28	9.23	-0.677	0.000	0.052
130.00	-23.35	-4.18	0.00	-49.05	0.00	49.05	2203.18	1101.59	3249.43	1627.13	9.95	-0.691	0.000	0.041
135.00	-22.07	-3.99	0.00	-28.12	0.00	28.12	2151.33	1075.66	3059.95	1532.25	10.68	-0.702	0.000	0.029
137.00	-12.77	-2.10	0.00	-20.15	0.00	20.15	2130.06	1065.03	2984.93	1494.68	10.97	-0.705	0.000	0.019
140.00	-12.08	-1.99	0.00	-13.85	0.00	13.85	2097.57	1048.79	2873.30	1438.78	11.42	-0.708	0.000	0.015
145.00	-10.96	-1.80	0.00	-3.92	0.00	3.92	2041.91	1020.96	2689.79	1346.89	12.16	-0.711	0.000	0.008
147.00	-0.63	-0.11	0.00	-0.33	0.00	0.33	2019.12	1009.56	2617.33	1310.61	12.46	-0.711	0.000	0.001
150.00	0.00	-0.10	0.00	0.00	0.00	0.00	1984.35	992.17	2509.71	1256.72	12.91	-0.711	0.000	0.000

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 21

<b>Load Case:</b> 1.2D + 1.0E						<b>Iterations</b> 18
<b>Gust Response Factor</b>	1.10			<b>Sds</b>	0.21	<b>Ss</b> 0.20
<b>Dead Load Factor</b>	1.20	<b>Seismic Load Factor</b>	1.00	<b>Sd1</b>	0.09	<b>S1</b> 0.05
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.51	<b>SA</b>	0.04	<b>Seismic Importance Factor</b> 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1777.5	0.00	0.03	0.02	33.17	
10.00		1743.3	0.01	0.05	0.03	47.91	
15.00		1709.0	0.02	0.06	0.04	54.57	
20.00		1674.8	0.03	0.07	0.04	57.39	
25.00		1640.5	0.05	0.07	0.04	58.45	
30.00		1606.3	0.08	0.07	0.04	58.85	
35.00		1572.0	0.10	0.07	0.04	59.05	
37.75	Bot - Section 2	850.03	0.12	0.07	0.03	32.35	
40.00		1299.5	0.13	0.07	0.03	49.94	
45.00	Top - Section 1	2841.3	0.17	0.07	0.03	110.94	
50.00		1307.7	0.21	0.06	0.02	51.03	
55.00		1277.8	0.25	0.05	0.02	48.29	
60.00		1247.8	0.30	0.04	0.01	43.29	
65.00		1217.8	0.35	0.03	0.01	35.35	
70.00		1187.9	0.41	0.01	0.01	24.18	
75.00		1157.9	0.47	-0.01	0.01	10.28	
76.50	Bot - Section 3	341.54	0.49	-0.01	0.01	1.71	
80.00	Appurtenance(s)	1596.0	0.54	-0.03	0.01	-6.88	
82.75	Top - Section 2	1137.4	0.58	-0.04	0.01	-13.19	
85.00		427.74	0.61	-0.06	0.02	-7.37	
90.00		931.90	0.68	-0.08	0.03	-25.81	
95.00		906.21	0.76	-0.10	0.04	-30.78	
100.00	Appurtenance(s)	884.52	0.84	-0.12	0.07	-31.01	
105.00		854.84	0.93	-0.12	0.10	-26.14	
110.00		829.15	1.02	-0.11	0.14	-16.95	
111.25	Bot - Section 4	203.27	1.04	-0.10	0.15	-3.46	
115.00		1057.8	1.11	-0.06	0.19	-4.93	
116.50	Top - Section 3	416.07	1.14	-0.04	0.21	0.49	
117.00	Appurtenance(s)	3055.6	1.15	-0.04	0.22	9.86	
120.00		353.73	1.21	0.01	0.26	5.92	
125.00		574.13	1.31	0.14	0.35	25.15	
130.00		554.86	1.42	0.32	0.45	42.49	
135.00		535.59	1.53	0.58	0.58	61.67	
137.00	Appurtenance(s)	2804.2	1.58	0.71	0.64	370.79	
140.00		307.48	1.65	0.93	0.73	49.08	
145.00		497.05	1.77	1.39	0.92	104.45	
147.00	Appurtenance(s)	3463.3	1.82	1.61	1.00	803.69	
150.00		284.35	1.89	1.98	1.14	75.87	
<b>Totals:</b>		<b>46,128.7</b>				<b>2,159.7</b>	<b>Total Wind: 36,245.8</b>

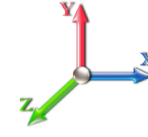
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

## Calculated Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021	
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C		
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00		
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil		
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II	Page: 22



<b>Load Case:</b> 1.2D + 1.0E		<b>Iterations</b> 18
<b>Gust Response Factor</b> 1.10	<b>Sds</b> 0.21	<b>Ss</b> 0.20
<b>Dead Load Factor</b> 1.20	<b>Seismic Load Factor</b> 1.00	<b>S1</b> 0.05
<b>Wind Load Factor</b> 0.00	<b>Structure Frequency (f1)</b> 0.51	<b>SA</b> 0.04
	<b>Seismic Importance Factor</b> 1.00	



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-60.02	-2.33	0.00	-255.30	0.00	255.30	7146.92	3573.46	19526.6	9777.85	0.00	0.00	0.00	0.035
5.00	-57.71	-2.30	0.00	-243.65	0.00	243.65	7059.52	3529.76	18917.0	9472.57	0.00	-0.01	0.034	
10.00	-55.44	-2.26	0.00	-232.14	0.00	232.14	6970.22	3485.11	18311.5	9169.38	0.01	-0.01	0.033	
15.00	-53.20	-2.21	0.00	-220.85	0.00	220.85	6879.00	3439.50	17710.5	8868.44	0.03	-0.02	0.033	
20.00	-51.01	-2.16	0.00	-209.80	0.00	209.80	6785.88	3392.94	17114.3	8569.88	0.05	-0.02	0.032	
25.00	-48.86	-2.10	0.00	-199.01	0.00	199.01	6690.86	3345.43	16523.1	8273.86	0.08	-0.03	0.031	
30.00	-46.76	-2.05	0.00	-188.50	0.00	188.50	6593.92	3296.96	15937.3	7980.54	0.12	-0.04	0.031	
35.00	-44.69	-1.99	0.00	-178.26	0.00	178.26	6495.08	3247.54	15357.3	7690.06	0.16	-0.04	0.030	
37.75	-43.57	-1.96	0.00	-172.78	0.00	172.78	6439.91	3219.95	15040.7	7531.56	0.18	-0.05	0.030	
40.00	-41.93	-1.91	0.00	-168.37	0.00	168.37	6394.33	3197.17	14783.1	7402.57	0.21	-0.05	0.029	
45.00	-38.34	-1.80	0.00	-158.80	0.00	158.80	6339.62	2669.81	12285.1	6151.71	0.26	-0.06	0.033	
50.00	-36.59	-1.75	0.00	-149.79	0.00	149.79	6259.76	2629.88	11825.1	5921.34	0.33	-0.06	0.032	
55.00	-34.87	-1.71	0.00	-141.01	0.00	141.01	6178.00	2589.00	11369.2	5693.08	0.40	-0.07	0.032	
60.00	-33.20	-1.67	0.00	-132.47	0.00	132.47	6094.33	2547.16	10917.9	5467.08	0.47	-0.08	0.031	
65.00	-31.55	-1.63	0.00	-124.13	0.00	124.13	6008.75	2504.38	10471.4	5243.49	0.56	-0.08	0.030	
70.00	-29.95	-1.61	0.00	-115.96	0.00	115.96	4921.27	2460.63	10029.9	5022.45	0.65	-0.09	0.029	
75.00	-28.38	-1.60	0.00	-107.91	0.00	107.91	4831.88	2415.94	9593.97	4804.12	0.75	-0.10	0.028	
76.50	-27.91	-1.60	0.00	-105.51	0.00	105.51	4804.69	2402.34	9464.26	4739.17	0.78	-0.10	0.028	
80.00	-25.87	-1.60	0.00	-99.91	0.00	99.91	4740.58	2370.29	9163.66	4588.64	0.86	-0.11	0.027	
82.75	-24.41	-1.60	0.00	-95.51	0.00	95.51	3881.76	1940.88	7531.87	3771.54	0.92	-0.11	0.032	
85.00	-23.81	-1.60	0.00	-91.92	0.00	91.92	3850.62	1925.31	7380.41	3695.69	0.98	-0.11	0.031	
90.00	-22.51	-1.60	0.00	-83.93	0.00	83.93	3780.02	1890.01	7046.53	3528.50	1.10	-0.12	0.030	
95.00	-21.25	-1.60	0.00	-75.93	0.00	75.93	3707.52	1853.76	6716.61	3363.30	1.23	-0.13	0.028	
100.00	-20.00	-1.60	0.00	-67.94	0.00	67.94	3633.11	1816.55	6390.95	3200.23	1.38	-0.14	0.027	
105.00	-18.80	-1.60	0.00	-59.94	0.00	59.94	3556.79	1778.40	6069.86	3039.44	1.53	-0.15	0.025	
110.00	-17.62	-1.60	0.00	-51.95	0.00	51.95	3478.57	1739.28	5753.63	2881.09	1.68	-0.15	0.023	
111.25	-17.34	-1.60	0.00	-49.95	0.00	49.95	3458.72	1729.36	5675.37	2841.90	1.72	-0.16	0.023	
115.00	-15.93	-1.59	0.00	-43.97	0.00	43.97	3398.44	1699.22	5442.57	2725.33	1.85	-0.16	0.021	
116.50	-15.38	-1.59	0.00	-41.57	0.00	41.57	2333.64	1166.82	3772.85	1889.23	1.90	-0.16	0.029	
117.00	-11.69	-1.57	0.00	-40.78	0.00	40.78	2329.06	1164.53	3753.21	1879.39	1.92	-0.16	0.027	
120.00	-11.21	-1.57	0.00	-36.06	0.00	36.06	2301.15	1150.58	3635.71	1820.56	2.02	-0.17	0.025	
125.00	-10.42	-1.54	0.00	-28.23	0.00	28.23	2253.12	1126.56	3441.45	1723.28	2.20	-0.18	0.021	
130.00	-9.65	-1.50	0.00	-20.53	0.00	20.53	2203.18	1101.59	3249.43	1627.13	2.39	-0.18	0.017	
135.00	-8.90	-1.43	0.00	-13.04	0.00	13.04	2151.33	1075.66	3059.95	1532.25	2.58	-0.19	0.013	
137.00	-5.50	-1.05	0.00	-10.18	0.00	10.18	2130.06	1065.03	2984.93	1494.68	2.66	-0.19	0.009	
140.00	-5.12	-1.00	0.00	-7.02	0.00	7.02	2097.57	1048.79	2873.30	1438.78	2.78	-0.19	0.007	
145.00	-4.50	-0.89	0.00	-2.02	0.00	2.02	2041.91	1020.96	2689.79	1346.89	2.98	-0.19	0.004	
147.00	-0.34	-0.08	0.00	-0.23	0.00	0.23	2019.12	1009.56	2617.33	1310.61	3.06	-0.19	0.000	
150.00	0.00	-0.08	0.00	0.00	0.00	0.00	1984.35	992.17	2509.71	1256.72	3.18	-0.19	0.000	

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 23

<b>Load Case:</b> 0.9D + 1.0E				<b>Iterations</b> 18
<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.21	<b>Ss</b> 0.20
<b>Dead Load Factor</b>	0.90	<b>Seismic Load Factor</b>	1.00	<b>S1</b> 0.05
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.51	<b>SA</b> 0.04
				<b>Seismic Importance Factor</b> 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1777.5	0.00	0.03	0.02	33.17	
10.00		1743.3	0.01	0.05	0.03	47.91	
15.00		1709.0	0.02	0.06	0.04	54.57	
20.00		1674.8	0.03	0.07	0.04	57.39	
25.00		1640.5	0.05	0.07	0.04	58.45	
30.00		1606.3	0.08	0.07	0.04	58.85	
35.00		1572.0	0.10	0.07	0.04	59.05	
37.75	Bot - Section 2	850.03	0.12	0.07	0.03	32.35	
40.00		1299.5	0.13	0.07	0.03	49.94	
45.00	Top - Section 1	2841.3	0.17	0.07	0.03	110.94	
50.00		1307.7	0.21	0.06	0.02	51.03	
55.00		1277.8	0.25	0.05	0.02	48.29	
60.00		1247.8	0.30	0.04	0.01	43.29	
65.00		1217.8	0.35	0.03	0.01	35.35	
70.00		1187.9	0.41	0.01	0.01	24.18	
75.00		1157.9	0.47	-0.01	0.01	10.28	
76.50	Bot - Section 3	341.54	0.49	-0.01	0.01	1.71	
80.00	Appurtenance(s)	1596.0	0.54	-0.03	0.01	-6.88	
82.75	Top - Section 2	1137.4	0.58	-0.04	0.01	-13.19	
85.00		427.74	0.61	-0.06	0.02	-7.37	
90.00		931.90	0.68	-0.08	0.03	-25.81	
95.00		906.21	0.76	-0.10	0.04	-30.78	
100.00	Appurtenance(s)	884.52	0.84	-0.12	0.07	-31.01	
105.00		854.84	0.93	-0.12	0.10	-26.14	
110.00		829.15	1.02	-0.11	0.14	-16.95	
111.25	Bot - Section 4	203.27	1.04	-0.10	0.15	-3.46	
115.00		1057.8	1.11	-0.06	0.19	-4.93	
116.50	Top - Section 3	416.07	1.14	-0.04	0.21	0.49	
117.00	Appurtenance(s)	3055.6	1.15	-0.04	0.22	9.86	
120.00		353.73	1.21	0.01	0.26	5.92	
125.00		574.13	1.31	0.14	0.35	25.15	
130.00		554.86	1.42	0.32	0.45	42.49	
135.00		535.59	1.53	0.58	0.58	61.67	
137.00	Appurtenance(s)	2804.2	1.58	0.71	0.64	370.79	
140.00		307.48	1.65	0.93	0.73	49.08	
145.00		497.05	1.77	1.39	0.92	104.45	
147.00	Appurtenance(s)	3463.3	1.82	1.61	1.00	803.69	
150.00		284.35	1.89	1.98	1.14	75.87	
<b>Totals:</b>		<b>46,128.7</b>				<b>2,159.7</b>	<b>Total Wind: 36,245.8</b>

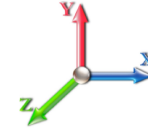
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

## Calculated Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 0.9D + 1.0E						<b>Iterations</b> 18
<b>Gust Response Factor</b>	1.10			<b>Sds</b>	0.21	<b>Ss</b> 0.20
<b>Dead Load Factor</b>	0.90	<b>Seismic Load Factor</b>	1.00	<b>Sd1</b>	0.09	<b>S1</b> 0.05
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.51	<b>SA</b>	0.04	<b>Seismic Importance Factor</b> 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-45.02	-2.33	0.00	-253.95	0.00	253.95	7146.92	3573.46	19526.6	9777.85	0.00	0.00	0.00	0.032
5.00	-43.28	-2.30	0.00	-242.31	0.00	242.31	7059.52	3529.76	18917.0	9472.57	0.00	-0.01	0.032	
10.00	-41.58	-2.26	0.00	-230.81	0.00	230.81	6970.22	3485.11	18311.5	9169.38	0.01	-0.01	0.031	
15.00	-39.90	-2.20	0.00	-219.53	0.00	219.53	6879.00	3439.50	17710.5	8868.44	0.03	-0.02	0.031	
20.00	-38.26	-2.15	0.00	-208.51	0.00	208.51	6785.88	3392.94	17114.3	8569.88	0.05	-0.02	0.030	
25.00	-36.65	-2.10	0.00	-197.76	0.00	197.76	6690.86	3345.43	16523.1	8273.86	0.08	-0.03	0.029	
30.00	-35.07	-2.04	0.00	-187.28	0.00	187.28	6593.92	3296.96	15937.3	7980.54	0.12	-0.04	0.029	
35.00	-33.52	-1.98	0.00	-177.08	0.00	177.08	6495.08	3247.54	15357.3	7690.06	0.16	-0.04	0.028	
37.75	-32.68	-1.95	0.00	-171.63	0.00	171.63	6439.91	3219.95	15040.7	7531.56	0.18	-0.05	0.028	
40.00	-31.45	-1.90	0.00	-167.23	0.00	167.23	6394.33	3197.17	14783.1	7402.57	0.21	-0.05	0.028	
45.00	-28.75	-1.79	0.00	-157.72	0.00	157.72	6339.62	2669.81	12285.1	6151.71	0.26	-0.06	0.031	
50.00	-27.44	-1.74	0.00	-148.75	0.00	148.75	6259.76	2629.88	11825.1	5921.34	0.32	-0.06	0.030	
55.00	-26.15	-1.70	0.00	-140.04	0.00	140.04	6178.00	2589.00	11369.2	5693.08	0.39	-0.07	0.030	
60.00	-24.90	-1.66	0.00	-131.55	0.00	131.55	6094.33	2547.16	10917.9	5467.08	0.47	-0.08	0.029	
65.00	-23.66	-1.62	0.00	-123.27	0.00	123.27	6008.75	2504.38	10471.4	5243.49	0.56	-0.08	0.028	
70.00	-22.46	-1.60	0.00	-115.17	0.00	115.17	4921.27	2460.63	10029.9	5022.45	0.65	-0.09	0.027	
75.00	-21.28	-1.59	0.00	-107.17	0.00	107.17	4831.88	2415.94	9593.97	4804.12	0.75	-0.10	0.027	
76.50	-20.93	-1.59	0.00	-104.79	0.00	104.79	4804.69	2402.34	9464.26	4739.17	0.78	-0.10	0.026	
80.00	-19.40	-1.59	0.00	-99.24	0.00	99.24	4740.58	2370.29	9163.66	4588.64	0.85	-0.11	0.026	
82.75	-18.30	-1.58	0.00	-94.88	0.00	94.88	3881.76	1940.88	7531.87	3771.54	0.92	-0.11	0.030	
85.00	-17.86	-1.59	0.00	-91.31	0.00	91.31	3850.62	1925.31	7380.41	3695.69	0.97	-0.11	0.029	
90.00	-16.88	-1.59	0.00	-83.38	0.00	83.38	3780.02	1890.01	7046.53	3528.50	1.09	-0.12	0.028	
95.00	-15.93	-1.59	0.00	-75.45	0.00	75.45	3707.52	1853.76	6716.61	3363.30	1.23	-0.13	0.027	
100.00	-15.00	-1.59	0.00	-67.52	0.00	67.52	3633.11	1816.55	6390.95	3200.23	1.37	-0.14	0.025	
105.00	-14.10	-1.59	0.00	-59.59	0.00	59.59	3556.79	1778.40	6069.86	3039.44	1.52	-0.15	0.024	
110.00	-13.22	-1.58	0.00	-51.66	0.00	51.66	3478.57	1739.28	5753.63	2881.09	1.67	-0.15	0.022	
111.25	-13.00	-1.58	0.00	-49.68	0.00	49.68	3458.72	1729.36	5675.37	2841.90	1.71	-0.15	0.021	
115.00	-11.95	-1.58	0.00	-43.73	0.00	43.73	3398.44	1699.22	5442.57	2725.33	1.84	-0.16	0.020	
116.50	-11.53	-1.58	0.00	-41.36	0.00	41.36	2333.64	1166.82	3772.85	1889.23	1.89	-0.16	0.027	
117.00	-8.77	-1.56	0.00	-40.57	0.00	40.57	2329.06	1164.53	3753.21	1879.39	1.90	-0.16	0.025	
120.00	-8.40	-1.56	0.00	-35.88	0.00	35.88	2301.15	1150.58	3635.71	1820.56	2.01	-0.17	0.023	
125.00	-7.81	-1.53	0.00	-28.09	0.00	28.09	2253.12	1126.56	3441.45	1723.28	2.19	-0.17	0.020	
130.00	-7.23	-1.49	0.00	-20.43	0.00	20.43	2203.18	1101.59	3249.43	1627.13	2.37	-0.18	0.016	
135.00	-6.68	-1.43	0.00	-12.98	0.00	12.98	2151.33	1075.66	3059.95	1532.25	2.57	-0.19	0.012	
137.00	-4.12	-1.05	0.00	-10.13	0.00	10.13	2130.06	1065.03	2984.93	1494.68	2.64	-0.19	0.009	
140.00	-3.84	-1.00	0.00	-6.99	0.00	6.99	2097.57	1048.79	2873.30	1438.78	2.76	-0.19	0.007	
145.00	-3.38	-0.89	0.00	-2.01	0.00	2.01	2041.91	1020.96	2689.79	1346.89	2.96	-0.19	0.003	
147.00	-0.26	-0.08	0.00	-0.23	0.00	0.23	2019.12	1009.56	2617.33	1310.61	3.04	-0.19	0.000	
150.00	0.00	-0.08	0.00	0.00	0.00	0.00	1984.35	992.17	2509.71	1256.72	3.16	-0.19	0.000	

## Wind Loading - Shaft

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 25

<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 19
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	313.48	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	307.54	0.650	0.000	5.00	28.066	18.24	149.3	0.0	1777.6
10.00		1.00	0.85	7.442	8.19	301.60	0.650	0.000	5.00	27.530	17.89	146.5	0.0	1743.3
15.00		1.00	0.85	7.442	8.19	295.66	0.650	0.000	5.00	26.993	17.55	143.6	0.0	1709.1
20.00		1.00	0.90	7.896	8.69	298.44	0.650	0.000	5.00	26.456	17.20	149.4	0.0	1674.8
25.00		1.00	0.95	8.276	9.10	299.27	0.650	0.000	5.00	25.919	16.85	153.4	0.0	1640.6
30.00		1.00	0.98	8.600	9.46	298.68	0.650	0.000	5.00	25.383	16.50	156.1	0.0	1606.3
35.00		1.00	1.01	8.883	9.77	297.08	0.650	0.000	5.00	24.846	16.15	157.8	0.0	1572.1
37.75 Bot - Section 2		1.00	1.03	9.026	9.93	295.86	0.650	0.000	2.75	13.436	8.73	86.7	0.0	850.0
40.00		1.00	1.04	9.137	10.05	294.71	0.650	0.000	2.25	11.039	7.18	72.1	0.0	1299.5
45.00 Top - Section 1		1.00	1.07	9.366	10.30	291.72	0.650	0.000	5.00	24.143	15.69	161.7	0.0	2841.3
50.00		1.00	1.09	9.576	10.53	292.89	0.650	0.000	5.00	23.606	15.34	161.6	0.0	1307.8
55.00		1.00	1.12	9.770	10.75	289.04	0.650	0.000	5.00	23.069	14.99	161.2	0.0	1277.8
60.00		1.00	1.14	9.951	10.95	284.83	0.650	0.000	5.00	22.532	14.65	160.3	0.0	1247.8
65.00		1.00	1.16	10.120	11.13	280.31	0.650	0.000	5.00	21.996	14.30	159.2	0.0	1217.9
70.00		1.00	1.17	10.279	11.31	275.53	0.650	0.000	5.00	21.459	13.95	157.7	0.0	1187.9
75.00		1.00	1.19	10.430	11.47	270.51	0.650	0.000	5.00	20.922	13.60	156.0	0.0	1157.9
76.50 Bot - Section 3		1.00	1.20	10.473	11.52	268.96	0.650	0.000	1.50	6.172	4.01	46.2	0.0	341.5
80.00 Appurtenance(s)		1.00	1.21	10.572	11.63	265.28	0.650	0.000	3.50	14.436	9.38	109.1	0.0	1472.0
82.75 Top - Section 2		1.00	1.22	10.648	11.71	262.31	0.650	0.000	2.75	11.158	7.25	84.9	0.0	1137.5
85.00		1.00	1.22	10.708	11.78	264.06	0.650	0.000	2.25	9.008	5.86	69.0	0.0	427.7
90.00		1.00	1.24	10.838	11.92	258.49	0.650	0.000	5.00	19.629	12.76	152.1	0.0	931.9
95.00		1.00	1.25	10.962	12.06	252.76	0.650	0.000	5.00	19.093	12.41	149.6	0.0	906.2
100.00 Appurtenance(s)		1.00	1.27	11.081	12.19	246.88	0.650	0.000	5.00	18.556	12.06	147.0	0.0	880.5
105.00		1.00	1.28	11.195	12.31	240.87	0.650	0.000	5.00	18.019	11.71	144.2	0.0	854.8
110.00		1.00	1.29	11.305	12.44	234.73	0.650	0.000	5.00	17.482	11.36	141.3	0.0	829.1
111.25 Bot - Section 4		1.00	1.29	11.332	12.47	233.18	0.650	0.000	1.25	4.287	2.79	34.7	0.0	203.3
115.00		1.00	1.30	11.412	12.55	228.48	0.650	0.000	3.75	12.837	8.34	104.7	0.0	1057.9
116.50 Top - Section 3		1.00	1.31	11.443	12.59	226.58	0.650	0.000	1.50	5.050	3.28	41.3	0.0	416.1
117.00 Appurtenance(s)		1.00	1.31	11.453	12.60	229.22	0.650	0.000	0.50	1.673	1.09	13.7	0.0	59.6
120.00		1.00	1.32	11.514	12.67	225.40	0.650	0.000	3.00	9.924	6.45	81.7	0.0	353.7
125.00		1.00	1.33	11.614	12.78	218.95	0.650	0.000	5.00	16.110	10.47	133.8	0.0	574.1
130.00		1.00	1.34	11.710	12.88	212.40	0.650	0.000	5.00	15.574	10.12	130.4	0.0	554.9
135.00		1.00	1.35	11.803	12.98	205.77	0.650	0.000	5.00	15.037	9.77	126.9	0.0	535.6
137.00 Appurtenance(s)		1.00	1.35	11.840	13.02	203.09	0.650	0.000	2.00	5.864	3.81	49.6	0.0	208.8
140.00		1.00	1.36	11.894	13.08	199.05	0.650	0.000	3.00	8.636	5.61	73.4	0.0	307.5
145.00		1.00	1.37	11.982	13.18	192.26	0.650	0.000	5.00	13.963	9.08	119.6	0.0	497.0
147.00 Appurtenance(s)		1.00	1.37	12.017	13.22	189.52	0.650	0.000	2.00	5.435	3.53	46.7	0.0	193.4
150.00		1.00	1.38	12.068	13.27	185.38	0.650	0.000	3.00	7.992	5.19	69.0	0.0	284.4
<b>Totals:</b>									<b>150.00</b>			<b>4,401.8</b>		<b>37,139.4</b>



## Discrete Appurtenance Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 26

**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 19

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	147.00	MS-HRECP-35	1	12.017	13.219	1.00	1.00	12.25	514.00	0.000	0.000	161.93	0.00	0.00
2	147.00	4415 B25	3	12.017	13.219	0.54	0.75	3.01	138.90	0.000	0.000	39.83	0.00	0.00
3	147.00	800 MHz RRH	3	12.017	13.219	0.50	0.75	3.62	159.00	0.000	0.000	47.82	0.00	0.00
4	147.00	4449 B71 + B85	3	12.017	13.219	0.50	0.75	2.97	225.00	0.000	0.000	39.26	0.00	0.00
5	147.00	800 MHz Filter	3	12.017	13.219	0.38	0.75	0.88	26.40	0.000	0.000	11.60	0.00	0.00
6	147.00	ACU-A20-N	4	12.017	13.219	0.50	0.75	0.28	4.00	0.000	0.000	3.72	0.00	0.00
7	147.00	AIR32 KRD901146	3	12.017	13.219	0.65	0.75	12.74	396.60	0.000	0.000	168.45	0.00	0.00
8	147.00	APXVAALL24_43-U-NA20	3	12.017	13.219	0.55	0.75	33.24	297.00	0.000	0.000	439.44	0.00	0.00
9	147.00	AIR6449 B41	3	12.017	13.219	0.53	0.75	9.03	309.00	0.000	0.000	119.31	0.00	0.00
10	147.00	Low Profile Platform	1	12.017	13.219	1.00	1.00	25.00	1200.00	0.000	0.000	330.47	0.00	0.00
11	137.00	DB-T1-6Z-8AB-OZ	1	11.840	13.024	1.00	1.00	4.80	18.90	0.000	0.000	62.52	0.00	0.00
12	137.00	LNx-6514DS	3	11.840	13.024	0.60	0.75	14.56	99.30	0.000	0.000	189.66	0.00	0.00
13	137.00	MT6407-77A w/ integrated	3	11.840	13.024	0.52	0.75	7.39	238.20	0.000	0.000	96.21	0.00	0.00
14	137.00	BXA-70063/6CF	3	11.840	13.024	0.52	0.75	11.92	51.00	0.000	0.000	155.28	0.00	0.00
15	137.00	HRK12 (Handrail Kit)	1	11.840	13.024	1.00	1.00	6.75	261.72	0.000	0.000	87.91	0.00	0.00
16	137.00	RF4440d-13A	3	11.840	13.024	0.50	0.75	2.82	253.20	0.000	0.000	36.72	0.00	0.00
17	137.00	RF4439d-25A	3	11.840	13.024	0.50	0.75	2.82	210.90	0.000	0.000	36.72	0.00	0.00
18	137.00	NHH-65B-R2B	6	11.840	13.024	0.62	0.75	30.18	262.20	0.000	0.000	393.05	0.00	0.00
19	137.00	Low Profile Platform	1	11.840	13.024	1.00	1.00	35.00	1200.00	0.000	0.000	455.84	0.00	0.00
20	117.00	4449 B5/B12	3	11.453	12.598	0.54	0.80	3.17	213.00	0.000	0.000	39.91	0.00	0.00
21	117.00	8843 B25/B66A	3	11.453	12.598	0.54	0.80	2.64	216.00	0.000	0.000	33.22	0.00	0.00
22	117.00	RRUS 4478 B14	3	11.453	12.598	0.54	0.80	2.65	178.20	0.000	0.000	33.43	0.00	0.00
23	117.00	DC6-48-60-18-8F	1	11.453	12.598	1.00	1.00	0.92	31.80	0.000	0.000	11.59	0.00	0.00
24	117.00	DC9-48-60-24-PC16-EV	1	11.453	12.598	1.00	1.00	1.14	26.20	0.000	0.000	14.36	0.00	0.00
25	117.00	(3) Sector Mount	1	11.453	12.598	0.75	0.75	35.33	1696.00	0.000	0.000	445.04	0.00	0.00
26	117.00	7770.00	3	11.453	12.598	0.58	0.80	9.64	105.00	0.000	0.000	121.40	0.00	0.00
27	117.00	OPA65R-BU6DA	3	11.453	12.598	0.71	0.80	23.92	207.00	0.000	0.000	301.39	0.00	0.00
28	117.00	DMP65R-BU6DA	3	11.453	12.598	0.58	0.80	21.96	238.20	0.000	0.000	276.70	0.00	0.00
29	117.00	LGP21401	6	11.453	12.598	0.40	0.80	3.10	84.60	0.000	0.000	39.00	0.00	0.00
30	100.00	Lucent KS24019-L112A	1	11.081	12.189	1.00	1.00	0.91	4.00	0.000	0.000	11.09	0.00	0.00
31	80.00	Side Arm	1	10.572	11.629	1.00	1.00	4.50	120.00	0.000	0.000	52.33	0.00	0.00
32	80.00	GPS	1	10.572	11.629	1.00	1.00	0.91	4.00	0.000	0.000	10.58	0.00	0.00
<b>Totals:</b>									<b>8,989.32</b>			<b>4,265.77</b>		

## Total Applied Force Summary

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 27

**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



**Iterations** 19

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		149.34	1928.17	0.00	0.00
10.00		146.48	1893.92	0.00	0.00
15.00		143.63	1859.66	0.00	0.00
20.00		149.36	1825.41	0.00	0.00
25.00		153.37	1791.16	0.00	0.00
30.00		156.07	1756.91	0.00	0.00
35.00		157.81	1722.66	0.00	0.00
37.75		86.71	932.86	0.00	0.00
40.00		72.12	1367.31	0.00	0.00
45.00		161.68	2991.91	0.00	0.00
50.00		161.63	1458.39	0.00	0.00
55.00		161.16	1428.42	0.00	0.00
60.00		160.32	1398.45	0.00	0.00
65.00		159.16	1368.48	0.00	0.00
70.00		157.71	1338.51	0.00	0.00
75.00		156.02	1308.53	0.00	0.00
76.50		46.22	386.72	0.00	0.00
80.00	(2) attachments	172.04	1701.45	0.00	0.00
82.75		84.95	1219.85	0.00	0.00
85.00		68.97	495.15	0.00	0.00
90.00		152.11	1081.70	0.00	0.00
95.00		149.64	1056.01	0.00	0.00
100.00	(1) attachments	158.11	1034.32	0.00	0.00
105.00		144.23	1004.64	0.00	0.00
110.00		141.32	978.95	0.00	0.00
111.25		34.73	240.72	0.00	0.00
115.00		104.74	1170.23	0.00	0.00
116.50		41.32	461.01	0.00	0.00
117.00	(27) attachments	1329.75	3070.61	0.00	0.00
120.00		81.70	404.73	0.00	0.00
125.00		133.78	659.13	0.00	0.00
130.00		130.39	639.86	0.00	0.00
135.00		126.90	620.59	0.00	0.00
137.00	(24) attachments	1563.54	2838.26	0.00	0.00
140.00		73.44	317.38	0.00	0.00
145.00		119.63	513.55	0.00	0.00
147.00	(27) attachments	1408.52	3469.92	0.00	0.00
150.00		68.96	284.35	0.00	0.00
Totals:		8,667.56	50,019.86	0.00	0.00

## Calculated Forces

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 28

**Load Case:** 1.0D + 1.0W 60 mph Wind

**Iterations** 19

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-50.02	-8.68	0.00	-909.92	0.00	909.92	7146.92	3573.46	19526.6	9777.85	0.00	0.000	0.000	0.100
5.00	-48.09	-8.55	0.00	-866.54	0.00	866.54	7059.52	3529.76	18917.0	9472.57	0.01	-0.021	0.000	0.098
10.00	-46.19	-8.42	0.00	-823.82	0.00	823.82	6970.22	3485.11	18311.5	9169.38	0.05	-0.043	0.000	0.096
15.00	-44.33	-8.29	0.00	-781.74	0.00	781.74	6879.00	3439.50	17710.5	8868.44	0.10	-0.065	0.000	0.095
20.00	-42.50	-8.15	0.00	-740.31	0.00	740.31	6785.88	3392.94	17114.3	8569.88	0.18	-0.087	0.000	0.093
25.00	-40.70	-8.01	0.00	-699.55	0.00	699.55	6690.86	3345.43	16523.1	8273.86	0.29	-0.109	0.000	0.091
30.00	-38.95	-7.87	0.00	-659.50	0.00	659.50	6593.92	3296.96	15937.3	7980.54	0.41	-0.131	0.000	0.089
35.00	-37.22	-7.72	0.00	-620.17	0.00	620.17	6495.08	3247.54	15357.3	7690.06	0.56	-0.153	0.000	0.086
37.75	-36.29	-7.63	0.00	-598.96	0.00	598.96	6439.91	3219.95	15040.7	7531.56	0.65	-0.166	0.000	0.085
40.00	-34.92	-7.57	0.00	-581.78	0.00	581.78	6394.33	3197.17	14783.1	7402.57	0.73	-0.176	0.000	0.084
45.00	-31.92	-7.41	0.00	-543.95	0.00	543.95	5339.62	2669.81	12285.1	6151.71	0.93	-0.198	0.000	0.094
50.00	-30.46	-7.25	0.00	-506.91	0.00	506.91	5259.76	2629.88	11825.1	5921.34	1.15	-0.221	0.000	0.091
55.00	-29.03	-7.10	0.00	-470.65	0.00	470.65	5178.00	2589.00	11369.2	5693.08	1.39	-0.245	0.000	0.088
60.00	-27.63	-6.94	0.00	-435.16	0.00	435.16	5094.33	2547.16	10917.9	5467.08	1.66	-0.269	0.000	0.085
65.00	-26.26	-6.79	0.00	-400.44	0.00	400.44	5008.75	2504.38	10471.4	5243.49	1.96	-0.293	0.000	0.082
70.00	-24.92	-6.63	0.00	-366.50	0.00	366.50	4921.27	2460.63	10029.9	5022.45	2.28	-0.316	0.000	0.078
75.00	-23.61	-6.48	0.00	-333.33	0.00	333.33	4831.88	2415.94	9593.97	4804.12	2.62	-0.340	0.000	0.074
76.50	-23.22	-6.43	0.00	-323.62	0.00	323.62	4804.69	2402.34	9464.26	4739.17	2.73	-0.347	0.000	0.073
80.00	-21.52	-6.26	0.00	-301.10	0.00	301.10	4740.58	2370.29	9163.66	4588.64	2.99	-0.363	0.000	0.070
82.75	-20.30	-6.17	0.00	-283.90	0.00	283.90	3881.76	1940.88	7531.87	3771.54	3.20	-0.375	0.000	0.081
85.00	-19.80	-6.10	0.00	-270.03	0.00	270.03	3850.62	1925.31	7380.41	3695.69	3.38	-0.385	0.000	0.078
90.00	-18.72	-5.95	0.00	-239.53	0.00	239.53	3780.02	1890.01	7046.53	3528.50	3.80	-0.409	0.000	0.073
95.00	-17.66	-5.80	0.00	-209.79	0.00	209.79	3707.52	1853.76	6716.61	3363.30	4.24	-0.432	0.000	0.067
100.00	-16.63	-5.64	0.00	-180.80	0.00	180.80	3633.11	1816.55	6390.95	3200.23	4.70	-0.453	0.000	0.061
105.00	-15.62	-5.49	0.00	-152.61	0.00	152.61	3556.79	1778.40	6069.86	3039.44	5.19	-0.473	0.000	0.055
110.00	-14.64	-5.34	0.00	-125.16	0.00	125.16	3478.57	1739.28	5753.63	2881.09	5.70	-0.492	0.000	0.048
111.25	-14.40	-5.31	0.00	-118.48	0.00	118.48	3458.72	1729.36	5675.37	2841.90	5.83	-0.496	0.000	0.046
115.00	-13.23	-5.20	0.00	-98.57	0.00	98.57	3398.44	1699.22	5442.57	2725.33	6.22	-0.508	0.000	0.040
116.50	-12.77	-5.15	0.00	-90.78	0.00	90.78	2333.64	1166.82	3772.85	1889.23	6.38	-0.512	0.000	0.054
117.00	-9.71	-3.79	0.00	-88.21	0.00	88.21	2329.06	1164.53	3753.21	1879.39	6.43	-0.514	0.000	0.051
120.00	-9.31	-3.71	0.00	-76.82	0.00	76.82	2301.15	1150.58	3635.71	1820.56	6.76	-0.524	0.000	0.046
125.00	-8.65	-3.57	0.00	-58.26	0.00	58.26	2253.12	1126.56	3441.45	1723.28	7.32	-0.539	0.000	0.038
130.00	-8.01	-3.44	0.00	-40.39	0.00	40.39	2203.18	1101.59	3249.43	1627.13	7.89	-0.551	0.000	0.028
135.00	-7.39	-3.31	0.00	-23.20	0.00	23.20	2151.33	1075.66	3059.95	1532.25	8.47	-0.560	0.000	0.019
137.00	-4.57	-1.72	0.00	-16.59	0.00	16.59	2130.06	1065.03	2984.93	1494.68	8.71	-0.563	0.000	0.013
140.00	-4.25	-1.64	0.00	-11.44	0.00	11.44	2097.57	1048.79	2873.30	1438.78	9.06	-0.565	0.000	0.010
145.00	-3.74	-1.51	0.00	-3.24	0.00	3.24	2041.91	1020.96	2689.79	1346.89	9.66	-0.568	0.000	0.004
147.00	-0.28	-0.07	0.00	-0.22	0.00	0.22	2019.12	1009.56	2617.33	1310.61	9.89	-0.568	0.000	0.000
150.00	0.00	-0.07	0.00	0.00	0.00	0.00	1984.35	992.17	2509.71	1256.72	10.25	-0.568	0.000	0.000

## Final Analysis Summary

<b>Structure:</b> CT03109-S-SBA	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 29

### Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 97 mph Wind	36.3	0.00	59.99	0.00	0.00	3816.94
0.9D + 1.6W 97 mph Wind	36.3	0.00	44.99	0.00	0.00	3798.01
1.2D + 1.0Di + 1.0Wi 50 mph Wind	11.1	0.00	96.92	0.00	0.00	1155.38
1.2D + 1.0E	2.3	0.00	60.02	0.00	0.00	255.30
0.9D + 1.0E	2.3	0.00	45.02	0.00	0.00	253.95
1.0D + 1.0W 60 mph Wind	8.7	0.00	50.02	0.00	0.00	909.92

### Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 97 mph Wind	-59.99	-36.29	0.00	-3816.9	0.00	-3816.9	7146.92	3573.4	19526.6	9777.85	0.00	0.399
0.9D + 1.6W 97 mph Wind	-44.99	-36.28	0.00	-3798.0	0.00	-3798.0	7146.92	3573.4	19526.6	9777.85	0.00	0.395
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-96.92	-11.07	0.00	-1155.3	0.00	-1155.3	7146.92	3573.4	19526.6	9777.85	0.00	0.132
1.2D + 1.0E	-60.02	-2.33	0.00	-255.30	0.00	-255.30	7146.92	3573.4	19526.6	9777.85	0.00	0.035
0.9D + 1.0E	-45.02	-2.33	0.00	-253.95	0.00	-253.95	7146.92	3573.4	19526.6	9777.85	0.00	0.032
1.0D + 1.0W 60 mph Wind	-50.02	-8.68	0.00	-909.92	0.00	-909.92	7146.92	3573.4	19526.6	9777.85	0.00	0.100

## Base Plate Summary

<b>Structure:</b> CT03109-S-SB	<b>Code:</b> EIA/TIA-222-G	11/16/2021
<b>Site Name:</b> Oxford 3, CT	<b>Exposure:</b> C	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Page: 30

Reactions	Base Plate	Anchor Bolts
Original Design	<b>Yield (ksi):</b> 55.00	<b>Bolt Circle:</b> 75.00
<b>Moment (kip-ft):</b> 6800.00	<b>Width (in):</b> 77.00	<b>Number Bolts:</b> 28.00
<b>Axial (kip):</b> 55.00	<b>Style:</b> Clipped	<b>Bolt Type:</b> 2.25" 18J
<b>Shear (kip):</b> 53.00	<b>Polygon Sides:</b> 0.00	<b>Bolt Diameter (in):</b> 2.25
Analysis (1.2D + 1.6W)	<b>Clip Length (in):</b> 16.00	<b>Yield (ksi):</b> 75.00
<b>Moment (kip-ft):</b> 3816.94	<b>Effective Len (in):</b> 7.44	<b>Ultimate (ksi):</b> 100.00
<b>Axial (kip):</b> 59.99	<b>Moment (kip-in):</b> 364.18	<b>Arrangement:</b> Clustered
<b>Shear (kip):</b> 36.29	<b>Allow Stress (ksi):</b> 74.25	<b>Cluster Dist (in):</b> 6.00
	<b>Applied Stress (ksi):</b> 32.67	<b>Start Angle (deg):</b> 45.00
	<b>Stress Ratio:</b> 0.44	Compression
		<b>Force (kip):</b> 90.71
		<b>Allowable (kip):</b> 260.00
		<b>Ratio:</b> 0.36
		Tension
		<b>Force (kip):</b> 83.78
		<b>Allowable (kip):</b> 260.00
		<b>Ratio:</b> 0.33



# Monopole Mat Foundation Design

Date  
11/16/2021

<b>Customer Name:</b>	Verizon	<b>EIA/TIA Standard:</b>	EIA-222-G
<b>Site Name:</b>		<b>Structure Height (Ft.):</b>	150
<b>Site Number:</b>	CT03109-S-SBA	<b>Engineer Name:</b>	J. Chen
<b>Engr. Number:</b>	119249	<b>Engineer Login ID:</b>	

**Foundation Info Obtained from:**

Drawings/Calculations
Monopole
Analysis

**Structure Type:**

**Analysis or Design?**

**Base Reactions (Factored):**

Axial Load (Kips):	60.0	Shear Force (Kips):	36.3
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3816.9

Allowable overstress %: 5.0%

**Foundation Geometries:**

Diameter of Pier (ft.):	8.0	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	0.50	Depth of Base BG (ft.):	8.0
Length of Pad (ft.):	30.5	Thickness of Pad (ft.):	3.00
		Width of Pad (ft.):	30.5

Final Length of pad (ft)	30.5	Final width of pad (ft):	30.5
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**Material Properties and Rebar Info:**

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	56	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	11	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	61	Qty. of Rebar in Pad (W):	61
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Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	61	Qty. of Rebar in Pad (W):	61
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Apply 1.35 factor for e/w Per G: 1.35

**Soil Design Parameters:**

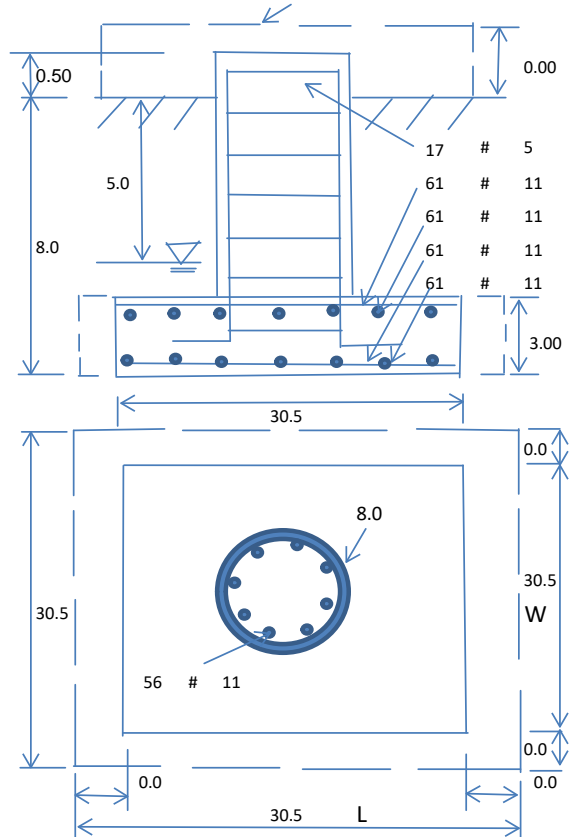
Soil Unit Weight (pcf):	125.0	Soil Buoyant Weight:	37.6	Pcf	Angle from Top of Pad:	30
Water Table B.G.S. (ft):	5.0	Unit Weight of Water:	62.4	pcf	Angle from Bottm of Pad:	25
Ultimate Bearing Pressure (psf):	16000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	Yes		Reduction factor on the maximum soil bearing pressure:	1.00
Consider soil hor. resist. for OTM.:	No					

**Foundation Analysis and Design:**

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	4399.92	Total Dry Soil Weight (Kips):	549.99
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	549.99	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	276.46	Total Dry Concrete Weight (Kips):	41.47
Total Buoyant Concrete Volume (cu. Ft.):	2790.75	Total Buoyant Concrete Weight (Kips):	244.47
Total Effective Concrete Weight (Kips):	285.94	Total Vertical Load on Base (Kips):	895.93

**Check Soil Capacities:**

Calculated Maxium Net Soil Pressure under the base (psf):	1907	< Allowable Factored Soil Bearing (psf):	12000	0.16	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	12388.1	> Design Factored Momont (kips-ft):	4125	0.33	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	3.00				OK!



**Check the capacities of Reinforcing Concrete:**

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00

Load/  
Capacity  
Ratio

**(1) Concrete Pier:**

Vertical Steel Rebar Area (sq. in./each):	1.56	Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	15495.8	> Design Factored Moment (Mu, Kips-F	4016.6	0.26	OK!
Calculated Shear Capacity (Kips):	1070.8	> Design Factored Shear (Kips):	36.3	0.03	OK!
Calculated Tension Capacity (Tn, Kips):	4717.4	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	9482.1	> Design Factored Axial Load (Pu Kips):	60.0	0.01	OK!
Moment & Axial Strength Combination:	0.26	OK! Check Tie Spacing (Design/Required):		0.5	OK!
Pier Reinforcement Ratio:	0.012	Reinforcement Ratio is satisfied per ACI			

**(2).Concrete Pad:**

One-Way Design Shear Capacity (L-Direction, Kips):	971.6	> One-Way Factored Shear (L-D. Kips):	327.8	0.34	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	971.6	> One-Way Factored Shear (W-D., Kips)	327.8	0.34	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	947.7	> One-Way Factored Shear (C-C, Kips):	296.3	0.31	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct. ):	0.0080	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0080		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	12527.0	> Moment at Bottom ( L-Dir. K-Ft):	2218.2	0.18	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	12527.0	> Moment at Bottom ( W-Dir. K-Ft):	2218.2	0.18	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	17294.1	> Moment at Bottom ( C-C Dir. K-Ft):	3137.1	0.18	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct. ):	0.0080	OK! Upper Steel Reinf. Ratio (W-Dir. ):	0.0080		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	12527.0	> Moment at the top (L-Dir K-Ft):	569.1	0.05	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	12527.0	> Moment at the top (W-Dir K-Ft):	569.1	0.05	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	17294.1	> Moment at the top (C-C Dir. K-Ft):	532.8	0.03	OK!

**(3).Check Punching Shear Capacity due to Moment in the Pier:**

Moment transferred by punching shear:	1526.8	k-ft.	Max. factored shear stress $v_{u,CD}$ :	1.9	Psi
Max. factored shear stress $v_{u,AB}$ :	9.2	Psi	Factored shear Strength $\phi v_n$ :	164.3	Psi
Max. factored shear stress $v_u$ :	9.2	Psi	Check Usage of Punching Shear Capacity:	0.06	OK!



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## Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10109013  
Maser Consulting Connecticut Project #: 21781060A

October 25, 2021

### Site Information

Site ID: 467915-VZW / SOUTHFORD CT  
Site Name: SOUTHFORD CT  
Carrier Name: Verizon Wireless  
Address: 106 Willenbrock Rd.  
Oxford, Connecticut 06478  
New Haven County  
Latitude: 41.465110°  
Longitude: -73.146111°

### Structure Information

Tower Type: Monopole  
Mount Type: 12.92-Ft Platform

FUZE ID # 16486640

### Analysis Results

Platform: 65.9% Pass

### \*\*\*Contractor PMI Requirements:

**Included at the end of this MA report**

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

**Contractor - Please Review Specific Site PMI Requirements Upon Award**

**Requirements also Noted on Mount Modification Drawings**

**Requirements may also be Noted on A & E drawings**

**For additional questions and support, please reach out to:**

**[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)**

Report Prepared By: Andy Hanes





## **Executive Summary:**

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

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

## **Sources of Information:**

<b>Document Type</b>	<b>Remarks</b>
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 675048, dated July 22, 2021</i>
<i>Mount Mapping Report</i>	<i>OnSight Services, LLC, Site ID: 467915, dated October 2, 2021</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting Connecticut, Project #: 21781060A, dated October 12, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 21781060A, dated October 25, 2021</i>

## **Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 117 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.982
Seismic Parameters:	$S_s$ : 0.198 g $S_1$ : 0.054 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
135.50	137.00	6	Commscope	NHH-65B-R2B	Added
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4440d-13A	
		3	Samsung	RF4439d-25A	
		3	Amphenol Antel	BXA-70063-6CF	Retained

The recent mount mapping did not report existing OVP units. However, it is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required.

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

**BASELINE mount weight per SBA agreement: 996 lbs**

**Increase in mount weight due to Verizon loading change per SBA agreement: 522 lbs**

**The weights listed above include 3 sectors.**

**Standard Conditions:**

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                      F1554 (Gr. 36)
  - o Bolts    ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

**Analysis Results:**

Component	Utilization %	Pass/Fail
Connection Check	65.9 %	Pass
Face Horizontal	48.7 %	Pass
Corner Angle	9.1 %	Pass
Standoff	49.9 %	Pass
Platform Support	30.9 %	Pass
Mount Pipe	46.7 %	Pass
MOD Support Rail	19.6 %	Pass
MOD Corner Angle	32.9 %	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>65.9%</b>
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**Recommendation:**

The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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

**Attachments:**

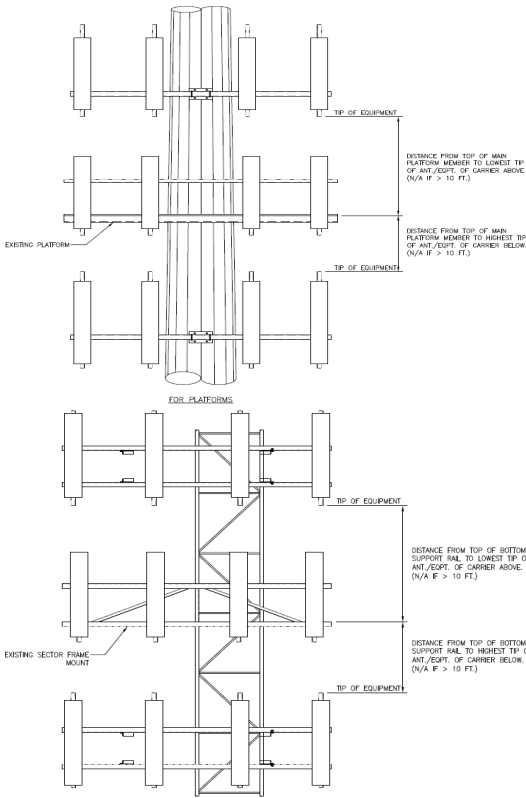
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



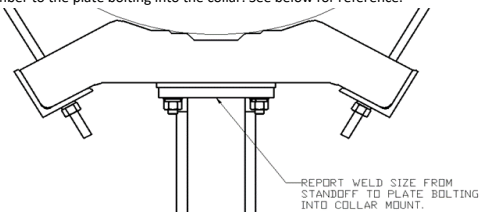


Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B									
Sector A:	300.00	Deg	Leg A:		Deg	Ant <sub>1a</sub>									
Sector B:	60.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>	LPA-80063/6CF E-DIN				131.25	23.00	14.50	60.00	197
Sector C:	180.00	Deg	Leg C:		Deg	Ant <sub>1c</sub>									
Sector D:		Deg	Leg D:		Deg	Ant <sub>2a</sub>									
<b>Climbing Facility Information</b>						Ant <sub>2b</sub>	BXA-70063-6CF-EDIN-2				131.115	34.00	10.50	60.00	1
Location:	200.00	Deg	Other			Ant <sub>2c</sub>		6.00	1.75	7.00		34.00	-2.50	60.00	204
Climbing Facility	Corrosion Type:		N/A			Ant <sub>3a</sub>									
	Access:		N/A			Ant <sub>3b</sub>	BXA-171063-8CF-EDIN-2				131.146	25.00	7.50	60.00	41
	Condition:		N/A			Ant <sub>3c</sub>		6.00	1.75	7.00		34.00	-2.50	60.00	213

Please insert a photo of the mount centerline measurement here.



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



Sector C					
Ant <sub>1a</sub>					
Ant <sub>1b</sub>	LPA-80063/6CF E-DIN				131.25
Ant <sub>1c</sub>					23.00
Ant <sub>2a</sub>					14.50
Ant <sub>2b</sub>	BXA-70063-6CF-EDIN-2				180.00
Ant <sub>2c</sub>		6.00	1.75	7.00	1
Ant <sub>3a</sub>					180.00
Ant <sub>3b</sub>	BXA-171063-8CF-EDIN-2				131.115
Ant <sub>3c</sub>		6.00	1.75	7.00	34.00
Ant <sub>4a</sub>					-2.50
Ant <sub>4b</sub>	LPA-80063/6CF E-DIN				180.00
Ant <sub>4c</sub>					41
Ant <sub>5a</sub>					131.146
Ant <sub>5b</sub>					25.00
Ant <sub>5c</sub>					7.50
Ant on Standoff					180.00
Ant on Standoff					213
Ant on Tower					
Ant on Tower					

Sector D					
Ant <sub>1a</sub>					
Ant <sub>1b</sub>					
Ant <sub>1c</sub>					
Ant <sub>2a</sub>					
Ant <sub>2b</sub>					
Ant <sub>2c</sub>					
Ant <sub>3a</sub>					
Ant <sub>3b</sub>					
Ant <sub>3c</sub>					
Ant <sub>4a</sub>					
Ant <sub>4b</sub>					
Ant <sub>4c</sub>					
Ant <sub>5a</sub>					
Ant <sub>5b</sub>					
Ant <sub>5c</sub>					
Ant on Standoff					
Ant on Standoff					
Ant on Tower					
Ant on Tower					

**Observed Safety and Structural Issues During the Mount Mapping**

Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

**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.



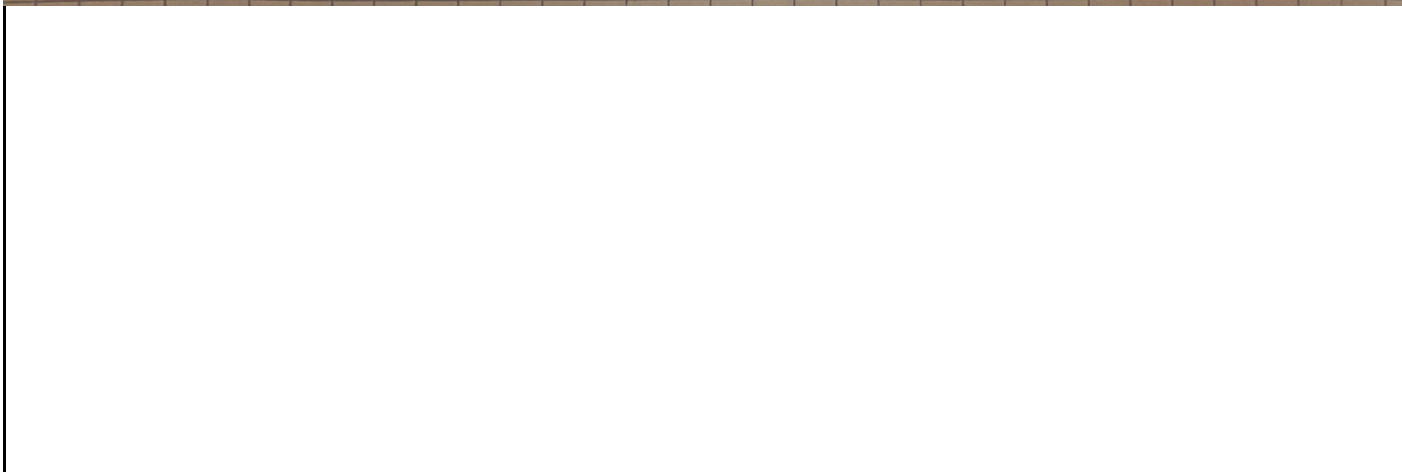
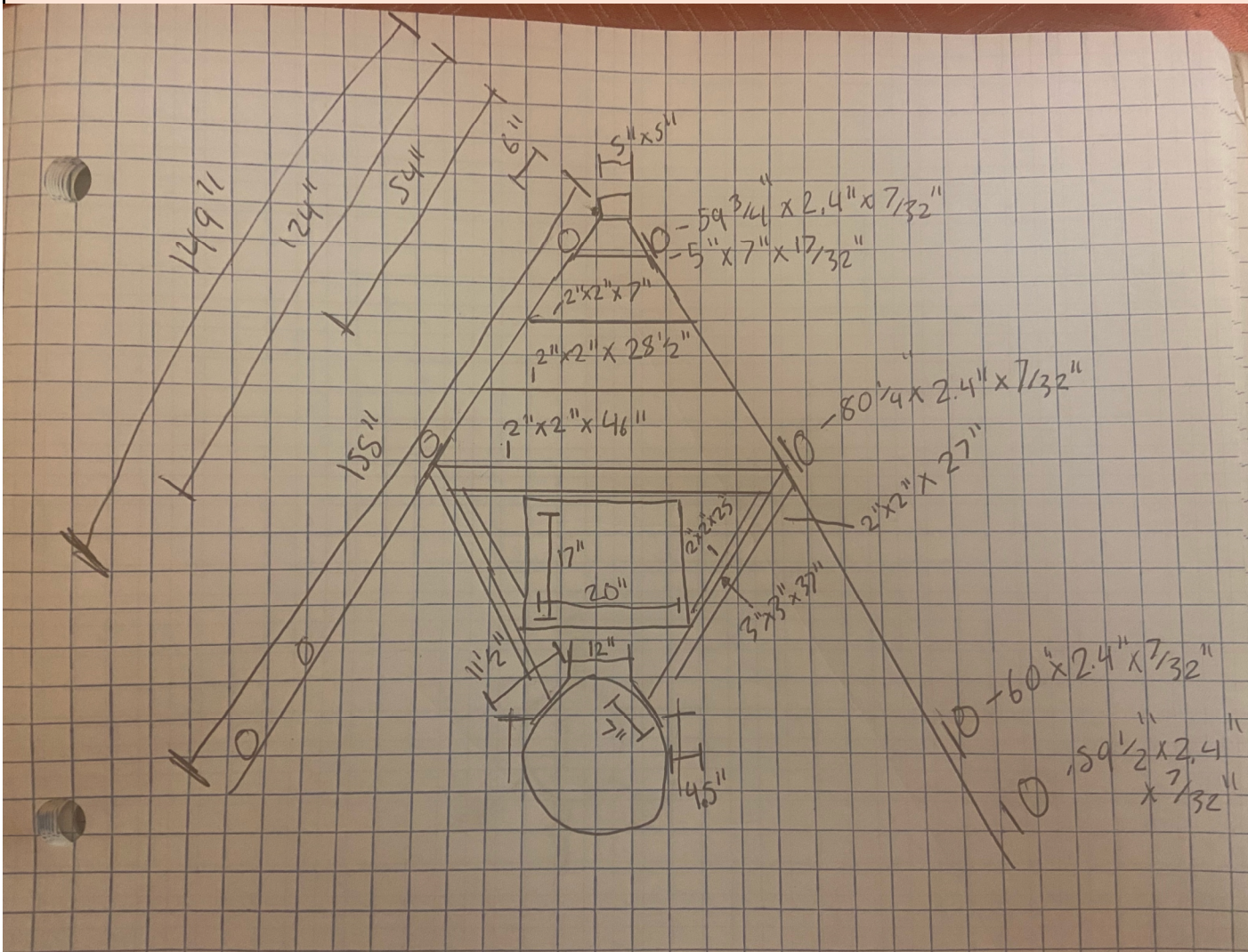
### Antenna Mount Mapping Form (PATENT PENDING)

FCC #

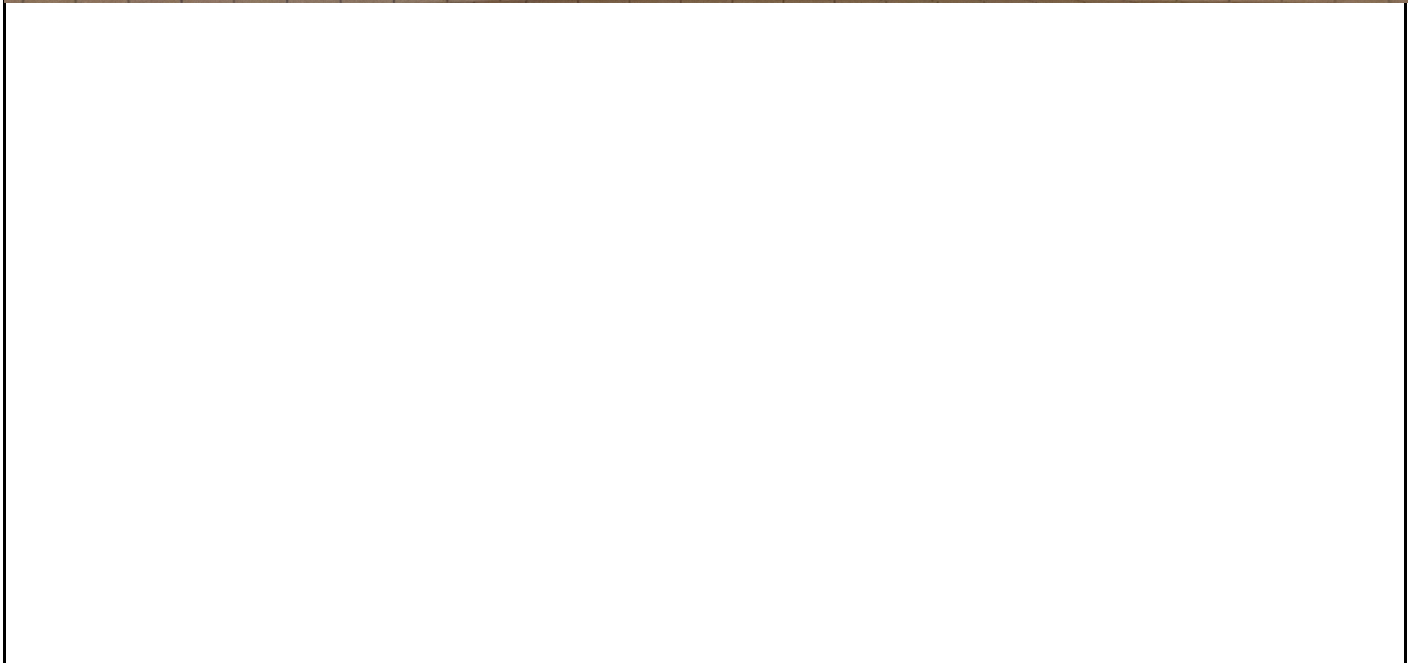
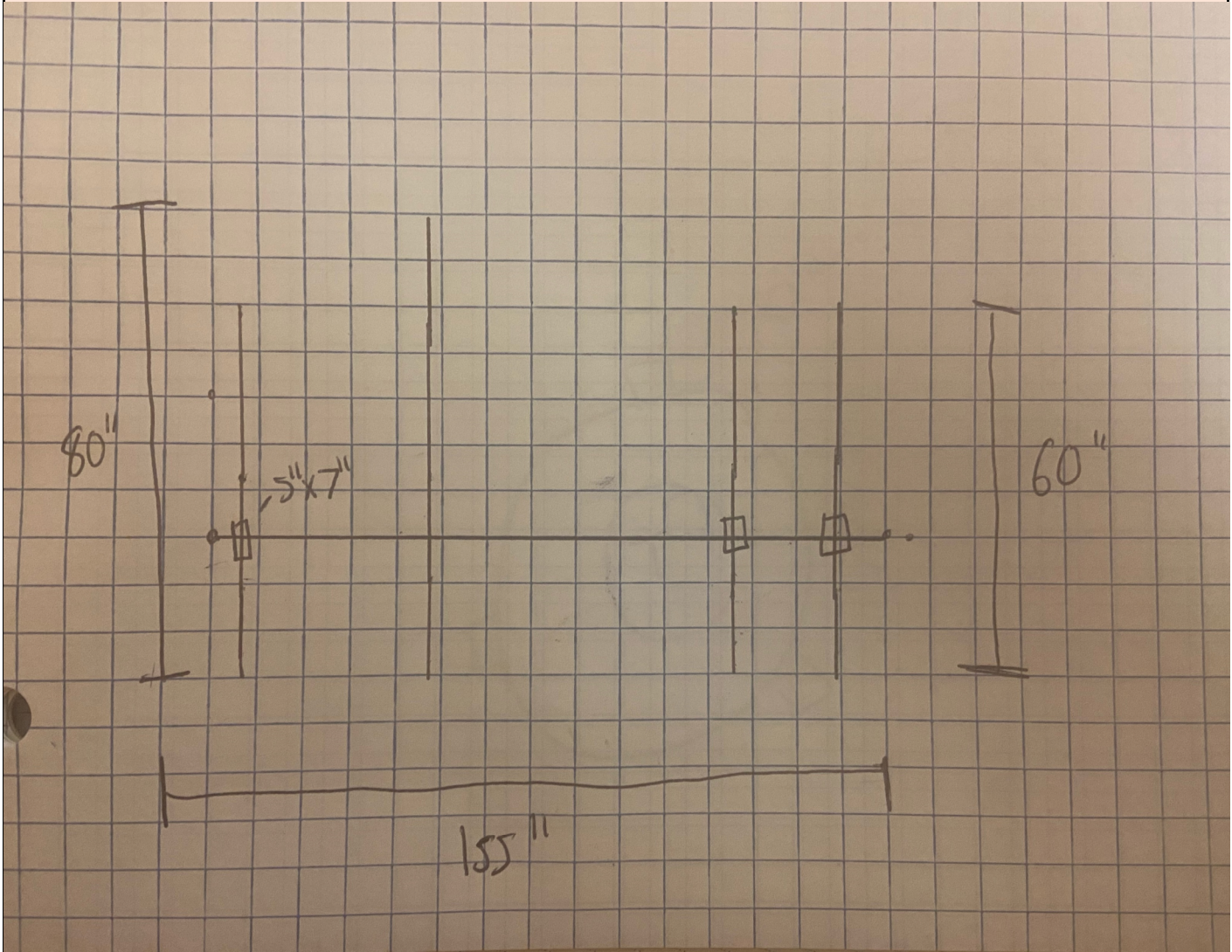
Tower Owner:	SBA	Mapping Date:	10/2/2021
Site Name:	Southford CT	Tower Type:	Monopole
Site Number or ID:	467915	Tower Height (Ft.):	
Mapping Contractor:	Colliers	Mount Elevation (Ft.):	130

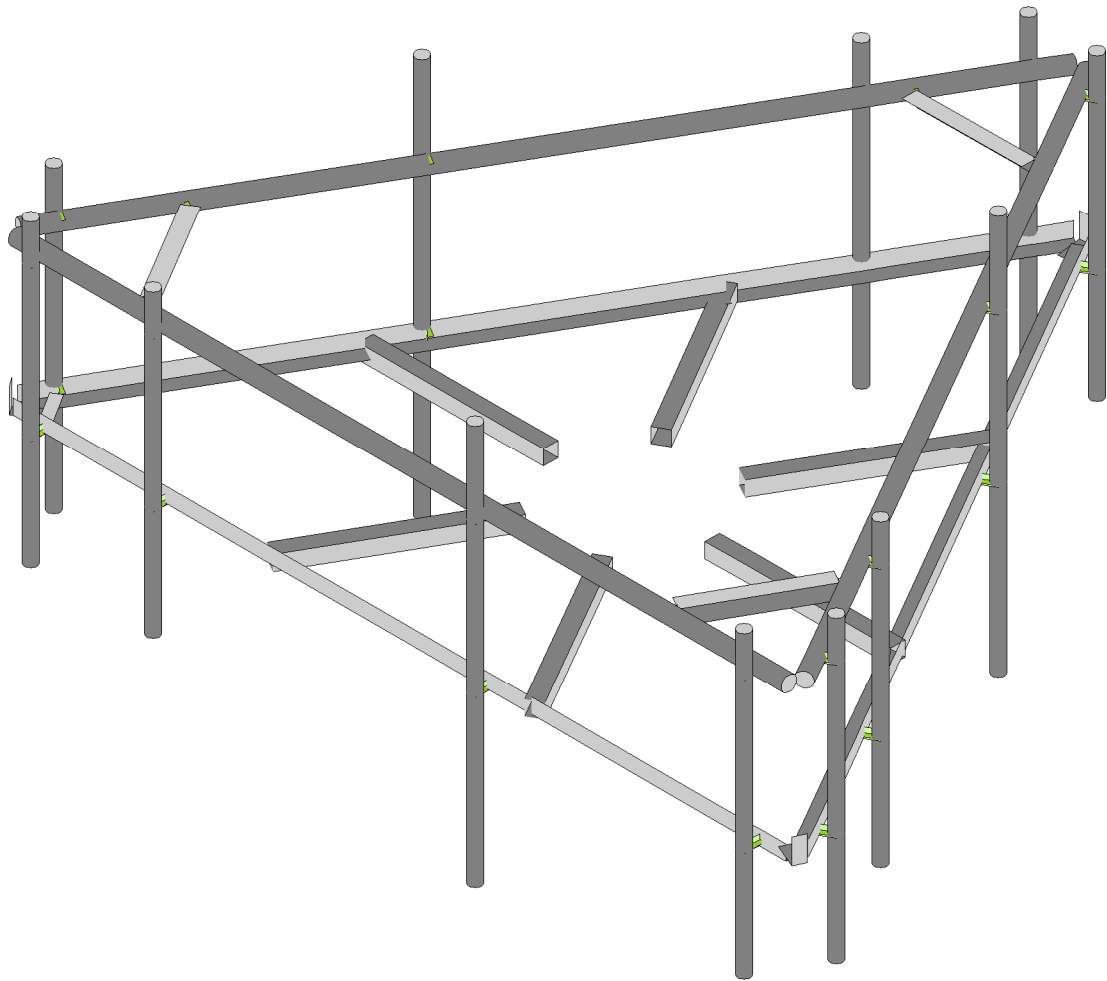
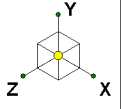
This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited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

Please Insert Sketches of the Antenna Mount









Envelope Only Solution

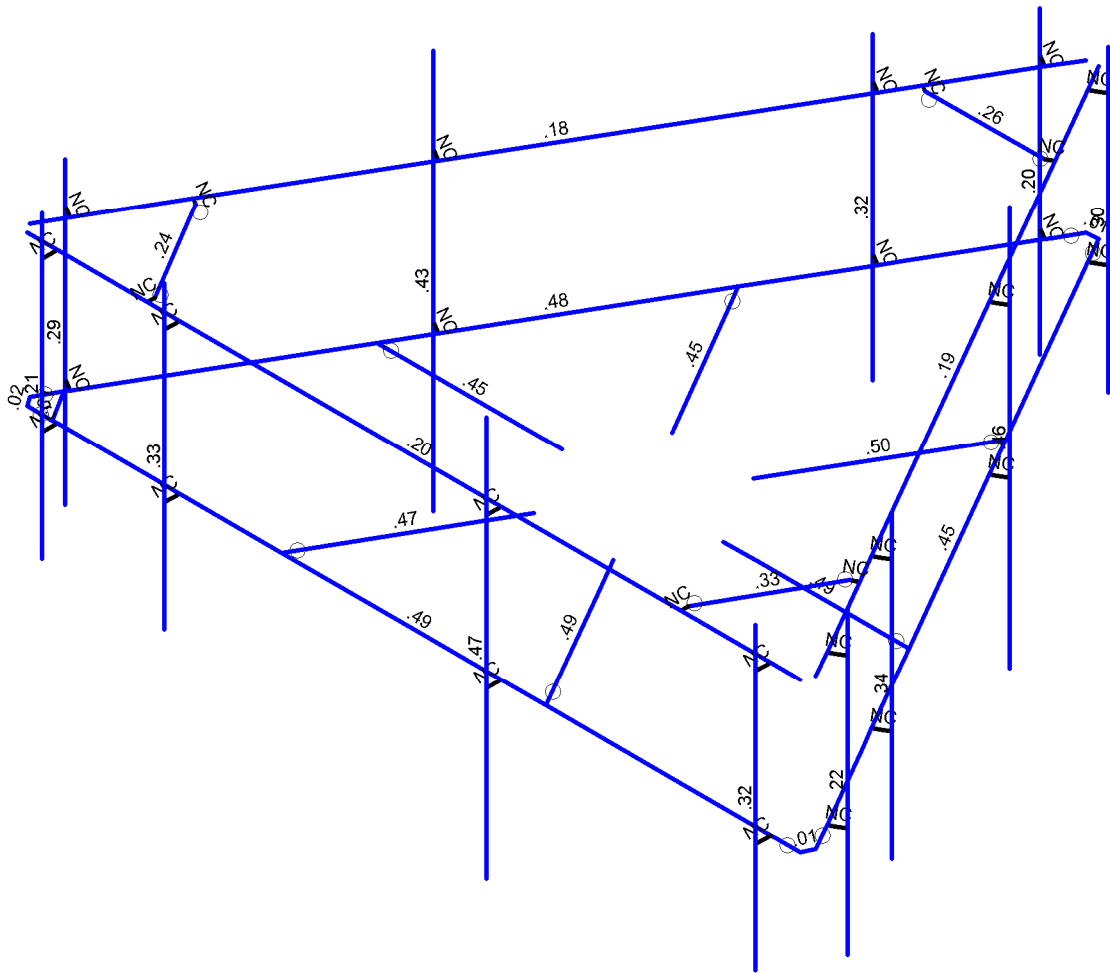
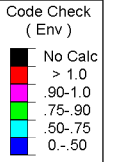
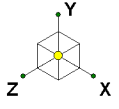
Maser Consulting

467915-VZW\_MT\_LO\_H

SK - 1

Oct 20, 2021 at 3:35 PM

467915-VZW\_MT\_LO\_H.r3d

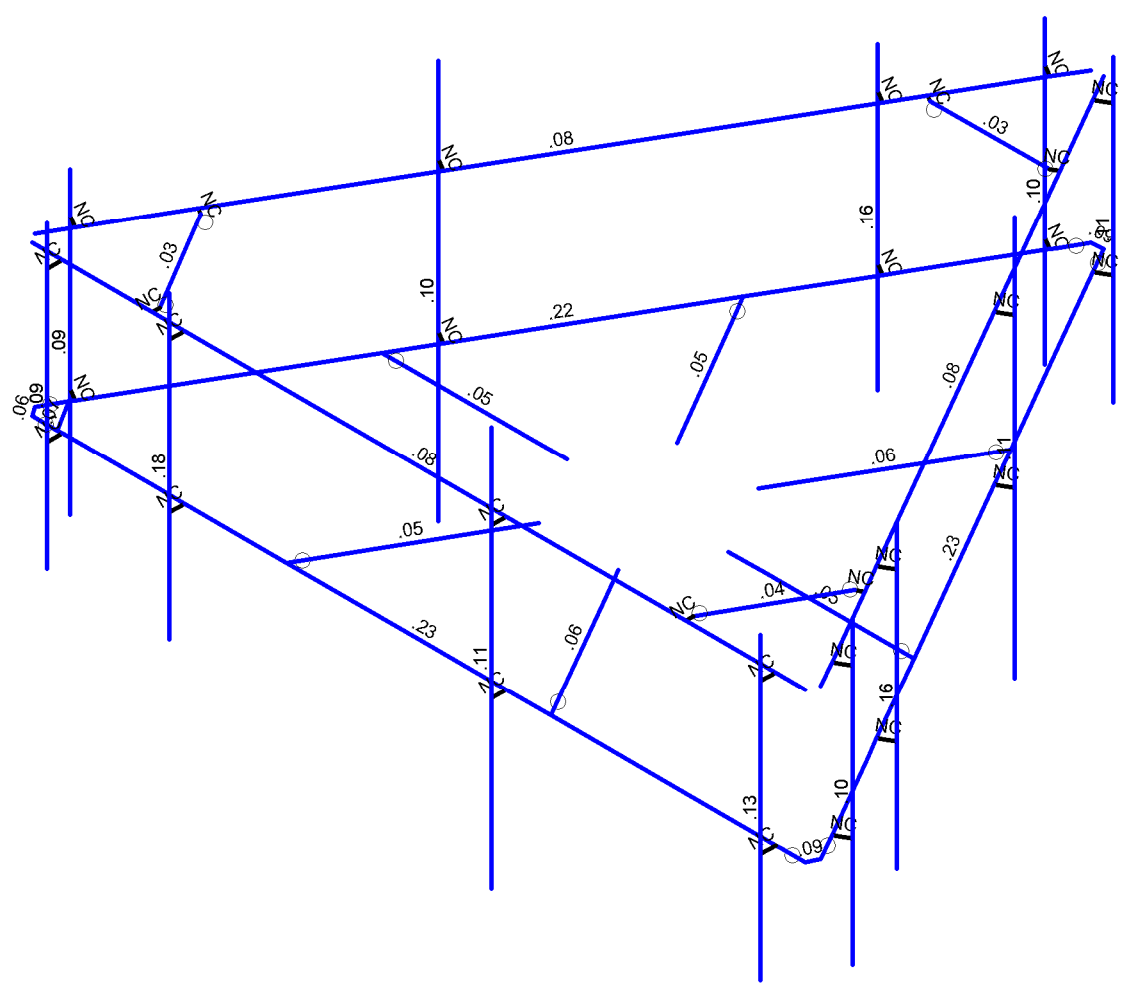
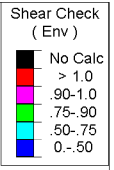
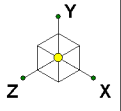


Member Code Checks Displayed (Enveloped)  
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467915-VZW_MT_LO_H

SK - 2
Oct 20, 2021 at 3:36 PM
467915-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)  
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467915-VZW_MT_LO_H
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SK - 3
Oct 20, 2021 at 3:36 PM
467915-VZW_MT_LO_H.r3d



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
 3:36 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					93		
2 Antenna Di	None					93		
3 Antenna Wo (0 Deg)	None					93		
4 Antenna Wo (30 Deg)	None					93		
5 Antenna Wo (60 Deg)	None					93		
6 Antenna Wo (90 Deg)	None					93		
7 Antenna Wo (120 Deg)	None					93		
8 Antenna Wo (150 Deg)	None					93		
9 Antenna Wo (180 Deg)	None					93		
10 Antenna Wo (210 Deg)	None					93		
11 Antenna Wo (240 Deg)	None					93		
12 Antenna Wo (270 Deg)	None					93		
13 Antenna Wo (300 Deg)	None					93		
14 Antenna Wo (330 Deg)	None					93		
15 Antenna Wi (0 Deg)	None					93		
16 Antenna Wi (30 Deg)	None					93		
17 Antenna Wi (60 Deg)	None					93		
18 Antenna Wi (90 Deg)	None					93		
19 Antenna Wi (120 Deg)	None					93		
20 Antenna Wi (150 Deg)	None					93		
21 Antenna Wi (180 Deg)	None					93		
22 Antenna Wi (210 Deg)	None					93		
23 Antenna Wi (240 Deg)	None					93		
24 Antenna Wi (270 Deg)	None					93		
25 Antenna Wi (300 Deg)	None					93		
26 Antenna Wi (330 Deg)	None					93		
27 Antenna Wm (0 Deg)	None					93		
28 Antenna Wm (30 Deg)	None					93		
29 Antenna Wm (60 Deg)	None					93		
30 Antenna Wm (90 Deg)	None					93		
31 Antenna Wm (120 Deg)	None					93		
32 Antenna Wm (150 Deg)	None					93		
33 Antenna Wm (180 Deg)	None					93		
34 Antenna Wm (210 Deg)	None					93		
35 Antenna Wm (240 Deg)	None					93		
36 Antenna Wm (270 Deg)	None					93		
37 Antenna Wm (300 Deg)	None					93		
38 Antenna Wm (330 Deg)	None					93		
39 Structure D	None		-1				9	
40 Structure Di	None						31	9
41 Structure Wo (0 Deg)	None						62	
42 Structure Wo (30 Deg)	None						62	
43 Structure Wo (60 Deg)	None						62	
44 Structure Wo (90 Deg)	None						62	
45 Structure Wo (120 D...	None						62	
46 Structure Wo (150 D...	None						62	
47 Structure Wo (180 D...	None						62	
48 Structure Wo (210 D...	None						62	
49 Structure Wo (240 D...	None						62	
50 Structure Wo (270 D...	None						62	
51 Structure Wo (300 D...	None						62	
52 Structure Wo (330 D...	None						62	
53 Structure Wi (0 Deg)	None						62	



**Basic Load Cases (Continued)**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
54 Structure Wi (30 Deg)	None						62	
55 Structure Wi (60 Deg)	None						62	
56 Structure Wi (90 Deg)	None						62	
57 Structure Wi (120 De..	None						62	
58 Structure Wi (150 De..	None						62	
59 Structure Wi (180 De..	None						62	
60 Structure Wi (210 De..	None						62	
61 Structure Wi (240 De..	None						62	
62 Structure Wi (270 De..	None						62	
63 Structure Wi (300 De..	None						62	
64 Structure Wi (330 De..	None						62	
65 Structure Wm (0 Deg)	None						62	
66 Structure Wm (30 De..	None						62	
67 Structure Wm (60 De..	None						62	
68 Structure Wm (90 De..	None						62	
69 Structure Wm (120 D..	None						62	
70 Structure Wm (150 D..	None						62	
71 Structure Wm (180 D..	None						62	
72 Structure Wm (210 D..	None						62	
73 Structure Wm (240 D..	None						62	
74 Structure Wm (270 D..	None						62	
75 Structure Wm (300 D..	None						62	
76 Structure Wm (330 D..	None						62	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 BLC 39 Transient Are..	None						49	
82 BLC 40 Transient Are..	None						49	

**Load Combinations**

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



**Load Combinations (Continued)**

Description	SolveP...	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...	
24	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1
25	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1		
26	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1		
27	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1		
28	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1		
29	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1		
30	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1		
31	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1		
32	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1		
33	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1		
34	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1		
35	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1		
36	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1		
37	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1		
38	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1		
39	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1		
40	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1		
41	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1		
42	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1		
43	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1		
44	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1		
45	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1		
46	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1		
47	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1		
48	1.2D + 1.5Lm2 + ...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1		
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5						
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5						
51	1.4D	Yes	Y	1	1.4	39	1.4								
52	Seismic Mass		Y	1	1	39	1								
53	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX		SY	1	SZ	-1		
54	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866		
55	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5		
56	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	1	SY	1	SZ			
57	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5		
58	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866		
59	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX		SY	1	SZ	1		
60	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866		
61	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5		
62	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	-1	SY	1	SZ			
63	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5		
64	1.2D + 1.0Ev + 1...	Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866		

**Joint Coordinates and Temperatures**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	CP	-0.013947	0	-3.840949	0	
3	N3	6.458333	0	0	0	
4	N4	-6.458333	0	0	0	
5	N6	0.076273	0	-11.366583	0	
6	N7	6.534606	0	-0.180422	0	
7	N9	-6.576447	0	-0.156265	0	
8	N10	-0.118114	0	-11.342427	0	
9	N9A	-2.208333	0	0	0	
10	N10A	2.208333	0	0	0	
11	N12	4.409606	0	-3.86103	0	



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
12	N13	2.201273	0	-7.685975	0	
13	N15	-2.243114	0	-7.661819	0	
14	N16	-4.451447	0	-3.836873	0	
15	N15A	-0.678804	0	-2.677216	0	
16	N16A	0.664214	0	-2.668828	0	
17	N17	-1.368115	0	-3.839706	0	
18	N18	-0.689342	0	-4.998599	0	
19	N19	0.66206	0	-5.014315	0	
20	N20	1.326304	0	-3.847033	0	
21	N21	-6.041667	0	0	0	
22	N22	6.041667	0	0	0	
23	N24	6.326273	0	-0.541266	0	
24	N25	0.284606	0	-11.00574	0	
25	N27	-0.326447	0	-10.981583	0	
26	N28	-6.368114	0	-0.517109	0	
27	N27A	-4.291667	0	0	0	
28	N28A	4.291667	0	0	0	
29	N30	5.451273	0	-2.05681	0	
30	N31	1.159606	0	-9.490195	0	
31	N33	-1.201447	0	-9.466038	0	
32	N34	-5.493114	0	-2.032653	0	
33	N39	3.967281	0	-3.859022	0	
34	N40	1.986496	0	-0.38342	0	
35	N39A	3.389655	0	-2.845486	0	
36	N40A	2.564414	0	-1.397469	0	
37	N41	1.874111	0	-3.720486	0	
38	N42	1.040791	0	-2.277133	0	
39	N43	1.948804	0	-3.849859	0	
40	N44	0.965894	0	-2.147409	0	
41	N45	-0.981489	0	-2.147409	0	
42	N47	0.961725	0	-5.534454	0	
43	N48	-0.991804	0	-5.517031	0	
44	N49	-1.983031	0	-3.839141	0	
45	N45A	-1.98928	0	-0.38342	0	
46	N47A	1.977982	0	-7.298404	0	
47	N48A	-2.010204	0	-7.262603	0	
48	N49A	-4.007854	0	-3.837281	0	
49	N49B	5.958333	0	0	0	
50	N50	5.958333	0	.25	0	
51	N51	5.958333	3.166667	.25	0	
52	N52	5.958333	-1.833333	.25	0	
53	N53	-3.916667	0	0	0	
54	N54	-3.916667	0	.25	0	
55	N55	-3.916667	3.166667	.25	0	
56	N56	-3.916667	-1.833333	.25	0	
57	N57	-5.958333	0	0	0	
58	N58	-5.958333	0	.25	0	
59	N59	-5.958333	3.166667	.25	0	
60	N60	-5.958333	-1.833333	.25	0	
61	N61	1.458333	0	0	0	
62	N62	1.458333	0	.25	0	
63	N63	1.458333	3.916667	.25	0	
64	N64	1.458333	-2.75	.25	0	
65	N66	0.326273	0	-10.933571	0	
66	N67	0.542779	0	-11.058571	0	
67	N68	0.542779	3.166667	-11.058571	0	
68	N69	0.542779	-1.833333	-11.058571	0	





**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
69	N70	5.263773	0	-2.38157	0	
70	N71	5.480279	0	-2.50657	0	
71	N72	5.480279	3.166667	-2.50657	0	
72	N73	5.480279	-1.833333	-2.50657	0	
73	N74	6.284606	0	-0.613435	0	
74	N75	6.501112	0	-0.738435	0	
75	N76	6.501112	3.166667	-0.738435	0	
76	N77	6.501112	-1.833333	-0.738435	0	
77	N78	2.576273	0	-7.036456	0	
78	N79	2.792779	0	-7.161456	0	
79	N80	2.792779	3.916667	-7.161456	0	
80	N81	2.792779	-2.75	-7.161456	0	
81	N83	-6.326447	0	-0.589278	0	
82	N84	-6.542953	0	-0.714278	0	
83	N85	-6.542953	3.166667	-0.714278	0	
84	N86	-6.542953	-1.833333	-0.714278	0	
85	N87	-1.388947	0	-9.141279	0	
86	N88	-1.605453	0	-9.266279	0	
87	N89	-1.605453	3.166667	-9.266279	0	
88	N90	-1.605453	-1.833333	-9.266279	0	
89	N91	-0.368114	0	-10.909414	0	
90	N92	-0.58462	0	-11.034414	0	
91	N93	-0.58462	3.166667	-11.034414	0	
92	N94	-0.58462	-1.833333	-11.034414	0	
93	N95	-4.076447	0	-4.486392	0	
94	N96	-4.292953	0	-4.611392	0	
95	N97	-4.292953	3.916667	-4.611392	0	
96	N98	-4.292953	-2.75	-4.611392	0	
97	N97A	6.458333	2.5	0	0	
98	N98A	-6.458333	2.5	0	0	
99	N99	0.076273	2.5	-11.366583	0	
100	N100	6.534606	2.5	-0.180422	0	
101	N101	-6.576447	2.5	-0.156265	0	
102	N102	-0.118114	2.5	-11.342427	0	
103	N103	5.958333	2.5	0	0	
104	N104	5.958333	2.5	.25	0	
105	N105	-3.916667	2.5	0	0	
106	N106	-3.916667	2.5	.25	0	
107	N107	-5.958333	2.5	0	0	
108	N108	-5.958333	2.5	.25	0	
109	N109	1.458333	2.5	0	0	
110	N110	1.458333	2.5	.25	0	
111	N111	0.326273	2.5	-10.933571	0	
112	N112	0.542779	2.5	-11.058571	0	
113	N113	5.263773	2.5	-2.38157	0	
114	N114	5.480279	2.5	-2.50657	0	
115	N115	6.284606	2.5	-0.613435	0	
116	N116	6.501112	2.5	-0.738435	0	
117	N117	2.576273	2.5	-7.036456	0	
118	N118	2.792779	2.5	-7.161456	0	
119	N119	-6.326447	2.5	-0.589278	0	
120	N120	-6.542953	2.5	-0.714278	0	
121	N121	-1.388947	2.5	-9.141279	0	
122	N122	-1.605453	2.5	-9.266279	0	
123	N123	-0.368114	2.5	-10.909414	0	
124	N124	-0.58462	2.5	-11.034414	0	
125	N125	-4.076447	2.5	-4.486392	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
126	N126	-4.292953	2.5	-4.611392	0	
127	N127	-4.458333	2.5	0	0	
128	N128	4.458333	2.5	0	0	
129	N129	-4.458333	2.5	-.125	0	
130	N130	4.458333	2.5	-.125	0	
131	N132	5.534606	2.5	-1.912473	0	
132	N133	1.076273	2.5	-9.634533	0	
133	N134	5.426353	2.5	-1.849973	0	
134	N135	0.968019	2.5	-9.572033	0	
135	N137	-1.118114	2.5	-9.610376	0	
136	N138	-5.576447	2.5	-1.888316	0	
137	N139	-1.00986	2.5	-9.547876	0	
138	N140	-5.468194	2.5	-1.825816	0	

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Standoff	HSS3X3X4	Beam	Tube	A500 Gr. B 46	Typical	2.44	3.02	3.02	5.08
2	Platform Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
3	Face Horizontal	L3X3X6	Beam	Single Angle	A36 Gr.36	Typical	2.11	1.75	1.75	.101
4	Corner Angle	L5X5X5	Beam	Single Angle	A36 Gr.36	Typical	3.07	7.44	7.44	.108
5	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
6	TES Face Horiz...	L7x5x8	Column	Pipe	A53 Gr. B	Typical	5.75	12.43	28.805	.453
7	MOD Support Rai	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
8	MOD Corner An...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031

**Hot Rolled Steel Properties**

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

**Member Primary Data**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N4			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
2	M2	N6	N7			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
3	M3	N9	N10			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
4	M4	N4	N9			Corner Angle	Beam	Single Angle	A36 Gr.36	Typical
5	M5	N7	N3			Corner Angle	Beam	Single Angle	A36 Gr.36	Typical
6	M6	N10	N6			Corner Angle	Beam	Single Angle	A36 Gr.36	Typical
7	M7	N9A	N15A			Standoff	Beam	Tube	A500 Gr. ...	Typical
8	M8	N10A	N16A			Standoff	Beam	Tube	A500 Gr. ...	Typical
9	M9	N16	N17			Standoff	Beam	Tube	A500 Gr. ...	Typical
10	M10	N15	N18			Standoff	Beam	Tube	A500 Gr. ...	Typical
11	M11	N13	N19			Standoff	Beam	Tube	A500 Gr. ...	Typical
12	M12	N12	N20			Standoff	Beam	Tube	A500 Gr. ...	Typical
13	M16	N21	N28		90	Platform Supp...	Beam	Single Angle	A36 Gr.36	Typical
14	M36	N49B	N50			RIGID	None	None	RIGID	Typical
15	MP1A	N51	N52			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
16	M38	N53	N54			RIGID	None	None	RIGID	Typical



**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
17	MP3A	N55	N56			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
18	M40	N57	N58			RIGID	None	None	RIGID	Typical
19	MP4A	N59	N60			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
20	M42	N61	N62			RIGID	None	None	RIGID	Typical
21	MP2A	N63	N64			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
22	M44	N66	N67			RIGID	None	None	RIGID	Typical
23	MP1C	N68	N69			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
24	M46	N70	N71			RIGID	None	None	RIGID	Typical
25	MP3C	N72	N73			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
26	M48	N74	N75			RIGID	None	None	RIGID	Typical
27	MP4C	N76	N77			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
28	M50	N78	N79			RIGID	None	None	RIGID	Typical
29	MP2C	N80	N81			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
30	M52	N83	N84			RIGID	None	None	RIGID	Typical
31	MP1B	N85	N86			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
32	M54	N87	N88			RIGID	None	None	RIGID	Typical
33	MP3B	N89	N90			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
34	M56	N91	N92			RIGID	None	None	RIGID	Typical
35	MP4B	N93	N94			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
36	M58	N95	N96			RIGID	None	None	RIGID	Typical
37	MP2B	N97	N98			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
38	M60	N97A	N98A			MOD Support ...	Beam	Pipe	A53 Gr. B	Typical
39	M61	N99	N100			MOD Support ...	Beam	Pipe	A53 Gr. B	Typical
40	M62	N101	N102			MOD Support ...	Beam	Pipe	A53 Gr. B	Typical
41	M63	N103	N104			RIGID	None	None	RIGID	Typical
42	M64	N105	N106			RIGID	None	None	RIGID	Typical
43	M65	N107	N108			RIGID	None	None	RIGID	Typical
44	M66	N109	N110			RIGID	None	None	RIGID	Typical
45	M67	N111	N112			RIGID	None	None	RIGID	Typical
46	M68	N113	N114			RIGID	None	None	RIGID	Typical
47	M69	N115	N116			RIGID	None	None	RIGID	Typical
48	M70	N117	N118			RIGID	None	None	RIGID	Typical
49	M71	N119	N120			RIGID	None	None	RIGID	Typical
50	M72	N121	N122			RIGID	None	None	RIGID	Typical
51	M73	N123	N124			RIGID	None	None	RIGID	Typical
52	M74	N125	N126			RIGID	None	None	RIGID	Typical
53	M75	N129	N127			RIGID	None	None	RIGID	Typical
54	M76	N130	N128			RIGID	None	None	RIGID	Typical
55	M77	N134	N132			RIGID	None	None	RIGID	Typical
56	M78	N135	N133			RIGID	None	None	RIGID	Typical
57	M79	N139	N137			RIGID	None	None	RIGID	Typical
58	M80	N140	N138			RIGID	None	None	RIGID	Typical
59	M81	N129	N140		90	MOD Corner A...	Beam	Single Angle	A36 Gr.36	Typical
60	M82	N134	N130		90	MOD Corner A...	Beam	Single Angle	A36 Gr.36	Typical
61	M83	N139	N135		90	MOD Corner A...	Beam	Single Angle	A36 Gr.36	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1	OOOOOX	OOOOOX				Yes				None
2	M2	OOOOOX	OOOOOX				Yes				None
3	M3	OOOOOX	OOOOOX				Yes				None
4	M4						Yes				None
5	M5						Yes				None
6	M6						Yes				None
7	M7	BenPIN					Yes				None



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
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 Checked By: \_\_\_\_\_

**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
8	M8	BenPIN					Yes				None
9	M9	BenPIN					Yes				None
10	M10	BenPIN					Yes				None
11	M11	BenPIN					Yes				None
12	M12	BenPIN					Yes				None
13	M16						Yes				None
14	M36						Yes	** NA **			None
15	MP1A						Yes	** NA **			None
16	M38						Yes	** NA **			None
17	MP3A						Yes	** NA **			None
18	M40						Yes	** NA **			None
19	MP4A						Yes	** NA **			None
20	M42						Yes	** NA **			None
21	MP2A						Yes	** NA **			None
22	M44						Yes	** NA **			None
23	MP1C						Yes	** NA **			None
24	M46						Yes	** NA **			None
25	MP3C						Yes	** NA **			None
26	M48						Yes	** NA **			None
27	MP4C						Yes	** NA **			None
28	M50						Yes	** NA **			None
29	MP2C						Yes	** NA **			None
30	M52						Yes	** NA **			None
31	MP1B						Yes	** NA **			None
32	M54						Yes	** NA **			None
33	MP3B						Yes	** NA **			None
34	M56						Yes	** NA **			None
35	MP4B						Yes	** NA **			None
36	M58						Yes	** NA **			None
37	MP2B						Yes	** NA **			None
38	M60						Yes	** NA **			None
39	M61						Yes				None
40	M62						Yes				None
41	M63						Yes	** NA **			None
42	M64						Yes	** NA **			None
43	M65						Yes	** NA **			None
44	M66						Yes	** NA **			None
45	M67						Yes	** NA **			None
46	M68						Yes	** NA **			None
47	M69						Yes	** NA **			None
48	M70						Yes	** NA **			None
49	M71						Yes	** NA **			None
50	M72						Yes	** NA **			None
51	M73						Yes	** NA **			None
52	M74						Yes	** NA **			None
53	M75		000000				Yes	** NA **			None
54	M76		000000				Yes	** NA **			None
55	M77		000000				Yes	** NA **			None
56	M78		000000				Yes	** NA **			None
57	M79		000000				Yes	** NA **			None
58	M80		000000				Yes	** NA **			None
59	M81						Yes				None
60	M82						Yes				None
61	M83						Yes				None



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	1.25
2	MP2A	My	-.011	1.25
3	MP2A	Mz	.013	1.25
4	MP2A	Y	-21.85	4.75
5	MP2A	My	-.011	4.75
6	MP2A	Mz	.013	4.75
7	MP2B	Y	-21.85	1.25
8	MP2B	My	-.006	1.25
9	MP2B	Mz	-.016	1.25
10	MP2B	Y	-21.85	4.75
11	MP2B	My	-.006	4.75
12	MP2B	Mz	-.016	4.75
13	MP2C	Y	-21.85	1.25
14	MP2C	My	.017	1.25
15	MP2C	Mz	.003	1.25
16	MP2C	Y	-21.85	4.75
17	MP2C	My	.017	4.75
18	MP2C	Mz	.003	4.75
19	MP2A	Y	-21.85	1.25
20	MP2A	My	-.011	1.25
21	MP2A	Mz	-.013	1.25
22	MP2A	Y	-21.85	4.75
23	MP2A	My	-.011	4.75
24	MP2A	Mz	-.013	4.75
25	MP2B	Y	-21.85	1.25
26	MP2B	My	.017	1.25
27	MP2B	Mz	-.003	1.25
28	MP2B	Y	-21.85	4.75
29	MP2B	My	.017	4.75
30	MP2B	Mz	-.003	4.75
31	MP2C	Y	-21.85	1.25
32	MP2C	My	-.006	1.25
33	MP2C	Mz	.016	1.25
34	MP2C	Y	-21.85	4.75
35	MP2C	My	-.006	4.75
36	MP2C	Mz	.016	4.75
37	MP4A	Y	-43.55	1.25
38	MP4A	My	-.022	1.25
39	MP4A	Mz	0	1.25
40	MP4A	Y	-43.55	2.75
41	MP4A	My	-.022	2.75
42	MP4A	Mz	0	2.75
43	MP4B	Y	-43.55	1.25
44	MP4B	My	.011	1.25
45	MP4B	Mz	-.019	1.25
46	MP4B	Y	-43.55	2.75
47	MP4B	My	.011	2.75
48	MP4B	Mz	-.019	2.75
49	MP4C	Y	-43.55	1.25
50	MP4C	My	.011	1.25
51	MP4C	Mz	.019	1.25
52	MP4C	Y	-43.55	2.75
53	MP4C	My	.011	2.75
54	MP4C	Mz	.019	2.75
55	MP1A	Y	-32	1.5
56	MP1A	My	.016	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
57	MP1A	Mz	0	1.5
58	MP3A	Y	-70.3	1.5
59	MP3A	My	.035	1.5
60	MP3A	Mz	0	1.5
61	MP3B	Y	-70.3	1.5
62	MP3B	My	-.018	1.5
63	MP3B	Mz	.03	1.5
64	MP3C	Y	-70.3	1.5
65	MP3C	My	-.018	1.5
66	MP3C	Mz	-.03	1.5
67	MP1A	Y	-8.5	.25
68	MP1A	My	-.004	.25
69	MP1A	Mz	0	.25
70	MP1A	Y	-8.5	3.75
71	MP1A	My	-.004	3.75
72	MP1A	Mz	0	3.75
73	MP1B	Y	-8.5	.25
74	MP1B	My	.002	.25
75	MP1B	Mz	-.004	.25
76	MP1B	Y	-8.5	3.75
77	MP1B	My	.002	3.75
78	MP1B	Mz	-.004	3.75
79	MP1C	Y	-8.5	.25
80	MP1C	My	.002	.25
81	MP1C	Mz	.004	.25
82	MP1C	Y	-8.5	3.75
83	MP1C	My	.002	3.75
84	MP1C	Mz	.004	3.75
85	MP2A	Y	-74.7	2.5
86	MP2A	My	.037	2.5
87	MP2A	Mz	0	2.5
88	MP2B	Y	-74.7	2.5
89	MP2B	My	-.019	2.5
90	MP2B	Mz	.032	2.5
91	MP2C	Y	-74.7	2.5
92	MP2C	My	-.019	2.5
93	MP2C	Mz	-.032	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Y	-60.461	1.25
2	MP2A	My	-.03	1.25
3	MP2A	Mz	.035	1.25
4	MP2A	Y	-60.461	4.75
5	MP2A	My	-.03	4.75
6	MP2A	Mz	.035	4.75
7	MP2B	Y	-60.461	1.25
8	MP2B	My	-.015	1.25
9	MP2B	Mz	-.044	1.25
10	MP2B	Y	-60.461	4.75
11	MP2B	My	-.015	4.75
12	MP2B	Mz	-.044	4.75
13	MP2C	Y	-60.461	1.25
14	MP2C	My	.046	1.25
15	MP2C	Mz	.009	1.25
16	MP2C	Y	-60.461	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
17	MP2C	My	.046	4.75
18	MP2C	Mz	.009	4.75
19	MP2A	Y	-60.461	1.25
20	MP2A	My	-.03	1.25
21	MP2A	Mz	-.035	1.25
22	MP2A	Y	-60.461	4.75
23	MP2A	My	-.03	4.75
24	MP2A	Mz	-.035	4.75
25	MP2B	Y	-60.461	1.25
26	MP2B	My	.046	1.25
27	MP2B	Mz	-.009	1.25
28	MP2B	Y	-60.461	4.75
29	MP2B	My	.046	4.75
30	MP2B	Mz	-.009	4.75
31	MP2C	Y	-60.461	1.25
32	MP2C	My	-.015	1.25
33	MP2C	Mz	.044	1.25
34	MP2C	Y	-60.461	4.75
35	MP2C	My	-.015	4.75
36	MP2C	Mz	.044	4.75
37	MP4A	Y	-35.535	1.25
38	MP4A	My	-.018	1.25
39	MP4A	Mz	0	1.25
40	MP4A	Y	-35.535	2.75
41	MP4A	My	-.018	2.75
42	MP4A	Mz	0	2.75
43	MP4B	Y	-35.535	1.25
44	MP4B	My	.009	1.25
45	MP4B	Mz	-.015	1.25
46	MP4B	Y	-35.535	2.75
47	MP4B	My	.009	2.75
48	MP4B	Mz	-.015	2.75
49	MP4C	Y	-35.535	1.25
50	MP4C	My	.009	1.25
51	MP4C	Mz	.015	1.25
52	MP4C	Y	-35.535	2.75
53	MP4C	My	.009	2.75
54	MP4C	Mz	.015	2.75
55	MP1A	Y	-87.722	1.5
56	MP1A	My	.044	1.5
57	MP1A	Mz	0	1.5
58	MP3A	Y	-42.662	1.5
59	MP3A	My	.021	1.5
60	MP3A	Mz	0	1.5
61	MP3B	Y	-42.662	1.5
62	MP3B	My	-.011	1.5
63	MP3B	Mz	.018	1.5
64	MP3C	Y	-42.662	1.5
65	MP3C	My	-.011	1.5
66	MP3C	Mz	-.018	1.5
67	MP1A	Y	-51.639	.25
68	MP1A	My	-.026	.25
69	MP1A	Mz	0	.25
70	MP1A	Y	-51.639	3.75
71	MP1A	My	-.026	3.75
72	MP1A	Mz	0	3.75
73	MP1B	Y	-51.639	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
74	MP1B	My	.013	.25
75	MP1B	Mz	-.022	.25
76	MP1B	Y	-51.639	3.75
77	MP1B	My	.013	3.75
78	MP1B	Mz	-.022	3.75
79	MP1C	Y	-51.639	.25
80	MP1C	My	.013	.25
81	MP1C	Mz	.022	.25
82	MP1C	Y	-51.639	3.75
83	MP1C	My	.013	3.75
84	MP1C	Mz	.022	3.75
85	MP2A	Y	-44.799	2.5
86	MP2A	My	.022	2.5
87	MP2A	Mz	0	2.5
88	MP2B	Y	-44.799	2.5
89	MP2B	My	-.011	2.5
90	MP2B	Mz	.019	2.5
91	MP2C	Y	-44.799	2.5
92	MP2C	My	-.011	2.5
93	MP2C	Mz	-.019	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	1.25
2	MP2A	Z	-160.379	1.25
3	MP2A	Mx	-.094	1.25
4	MP2A	X	0	4.75
5	MP2A	Z	-160.379	4.75
6	MP2A	Mx	-.094	4.75
7	MP2B	X	0	1.25
8	MP2B	Z	-119.614	1.25
9	MP2B	Mx	.087	1.25
10	MP2B	X	0	4.75
11	MP2B	Z	-119.614	4.75
12	MP2B	Mx	.087	4.75
13	MP2C	X	0	1.25
14	MP2C	Z	-119.614	1.25
15	MP2C	Mx	-.017	1.25
16	MP2C	X	0	4.75
17	MP2C	Z	-119.614	4.75
18	MP2C	Mx	-.017	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	-160.379	1.25
21	MP2A	Mx	.094	1.25
22	MP2A	X	0	4.75
23	MP2A	Z	-160.379	4.75
24	MP2A	Mx	.094	4.75
25	MP2B	X	0	1.25
26	MP2B	Z	-119.614	1.25
27	MP2B	Mx	.017	1.25
28	MP2B	X	0	4.75
29	MP2B	Z	-119.614	4.75
30	MP2B	Mx	.017	4.75
31	MP2C	X	0	1.25
32	MP2C	Z	-119.614	1.25
33	MP2C	Mx	-.087	1.25





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2C	X	0	4.75
35	MP2C	Z	-119.614	4.75
36	MP2C	Mx	-.087	4.75
37	MP4A	X	0	1.25
38	MP4A	Z	-93.29	1.25
39	MP4A	Mx	0	1.25
40	MP4A	X	0	2.75
41	MP4A	Z	-93.29	2.75
42	MP4A	Mx	0	2.75
43	MP4B	X	0	1.25
44	MP4B	Z	-50.714	1.25
45	MP4B	Mx	.022	1.25
46	MP4B	X	0	2.75
47	MP4B	Z	-50.714	2.75
48	MP4B	Mx	.022	2.75
49	MP4C	X	0	1.25
50	MP4C	Z	-50.714	1.25
51	MP4C	Mx	-.022	1.25
52	MP4C	X	0	2.75
53	MP4C	Z	-50.714	2.75
54	MP4C	Mx	-.022	2.75
55	MP1A	X	0	1.5
56	MP1A	Z	-161.173	1.5
57	MP1A	Mx	0	1.5
58	MP3A	X	0	1.5
59	MP3A	Z	-74.235	1.5
60	MP3A	Mx	0	1.5
61	MP3B	X	0	1.5
62	MP3B	Z	-52.426	1.5
63	MP3B	Mx	-.023	1.5
64	MP3C	X	0	1.5
65	MP3C	Z	-52.426	1.5
66	MP3C	Mx	.023	1.5
67	MP1A	X	0	.25
68	MP1A	Z	-150.256	.25
69	MP1A	Mx	0	.25
70	MP1A	X	0	3.75
71	MP1A	Z	-150.256	3.75
72	MP1A	Mx	0	3.75
73	MP1B	X	0	.25
74	MP1B	Z	-99.464	.25
75	MP1B	Mx	.043	.25
76	MP1B	X	0	3.75
77	MP1B	Z	-99.464	3.75
78	MP1B	Mx	.043	3.75
79	MP1C	X	0	.25
80	MP1C	Z	-99.464	.25
81	MP1C	Mx	-.043	.25
82	MP1C	X	0	3.75
83	MP1C	Z	-99.464	3.75
84	MP1C	Mx	-.043	3.75
85	MP2A	X	0	2.5
86	MP2A	Z	-74.235	2.5
87	MP2A	Mx	0	2.5
88	MP2B	X	0	2.5
89	MP2B	Z	-55.775	2.5
90	MP2B	Mx	-.024	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2C	X	0	2.5
92	MP2C	Z	-55.775	2.5
93	MP2C	Mx	.024	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	73.395	1.25
2	MP2A	Z	-127.124	1.25
3	MP2A	Mx	-.111	1.25
4	MP2A	X	73.395	4.75
5	MP2A	Z	-127.124	4.75
6	MP2A	Mx	-.111	4.75
7	MP2B	X	53.013	1.25
8	MP2B	Z	-91.821	1.25
9	MP2B	Mx	.053	1.25
10	MP2B	X	53.013	4.75
11	MP2B	Z	-91.821	4.75
12	MP2B	Mx	.053	4.75
13	MP2C	X	73.395	1.25
14	MP2C	Z	-127.124	1.25
15	MP2C	Mx	.037	1.25
16	MP2C	X	73.395	4.75
17	MP2C	Z	-127.124	4.75
18	MP2C	Mx	.037	4.75
19	MP2A	X	73.395	1.25
20	MP2A	Z	-127.124	1.25
21	MP2A	Mx	.037	1.25
22	MP2A	X	73.395	4.75
23	MP2A	Z	-127.124	4.75
24	MP2A	Mx	.037	4.75
25	MP2B	X	53.013	1.25
26	MP2B	Z	-91.821	1.25
27	MP2B	Mx	.053	1.25
28	MP2B	X	53.013	4.75
29	MP2B	Z	-91.821	4.75
30	MP2B	Mx	.053	4.75
31	MP2C	X	73.395	1.25
32	MP2C	Z	-127.124	1.25
33	MP2C	Mx	-.111	1.25
34	MP2C	X	73.395	4.75
35	MP2C	Z	-127.124	4.75
36	MP2C	Mx	-.111	4.75
37	MP4A	X	39.549	1.25
38	MP4A	Z	-68.501	1.25
39	MP4A	Mx	-.02	1.25
40	MP4A	X	39.549	2.75
41	MP4A	Z	-68.501	2.75
42	MP4A	Mx	-.02	2.75
43	MP4B	X	18.261	1.25
44	MP4B	Z	-31.63	1.25
45	MP4B	Mx	.018	1.25
46	MP4B	X	18.261	2.75
47	MP4B	Z	-31.63	2.75
48	MP4B	Mx	.018	2.75
49	MP4C	X	39.549	1.25
50	MP4C	Z	-68.501	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP4C	Mx	-.02	1.25
52	MP4C	X	39.549	2.75
53	MP4C	Z	-68.501	2.75
54	MP4C	Mx	-.02	2.75
55	MP1A	X	75.81	1.5
56	MP1A	Z	-131.307	1.5
57	MP1A	Mx	.038	1.5
58	MP3A	X	33.483	1.5
59	MP3A	Z	-57.993	1.5
60	MP3A	Mx	.017	1.5
61	MP3B	X	22.578	1.5
62	MP3B	Z	-39.106	1.5
63	MP3B	Mx	-.023	1.5
64	MP3C	X	33.483	1.5
65	MP3C	Z	-57.993	1.5
66	MP3C	Mx	.017	1.5
67	MP1A	X	66.663	.25
68	MP1A	Z	-115.463	.25
69	MP1A	Mx	-.033	.25
70	MP1A	X	66.663	3.75
71	MP1A	Z	-115.463	3.75
72	MP1A	Mx	-.033	3.75
73	MP1B	X	41.267	.25
74	MP1B	Z	-71.476	.25
75	MP1B	Mx	.041	.25
76	MP1B	X	41.267	3.75
77	MP1B	Z	-71.476	3.75
78	MP1B	Mx	.041	3.75
79	MP1C	X	66.663	.25
80	MP1C	Z	-115.463	.25
81	MP1C	Mx	-.033	.25
82	MP1C	X	66.663	3.75
83	MP1C	Z	-115.463	3.75
84	MP1C	Mx	-.033	3.75
85	MP2A	X	34.041	2.5
86	MP2A	Z	-58.96	2.5
87	MP2A	Mx	.017	2.5
88	MP2B	X	24.811	2.5
89	MP2B	Z	-42.974	2.5
90	MP2B	Mx	-.025	2.5
91	MP2C	X	34.041	2.5
92	MP2C	Z	-58.96	2.5
93	MP2C	Mx	.017	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	103.589	1.25
2	MP2A	Z	-59.807	1.25
3	MP2A	Mx	-.087	1.25
4	MP2A	X	103.589	4.75
5	MP2A	Z	-59.807	4.75
6	MP2A	Mx	-.087	4.75
7	MP2B	X	103.589	1.25
8	MP2B	Z	-59.807	1.25
9	MP2B	Mx	.017	1.25
10	MP2B	X	103.589	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP2B	Z	-59.807	4.75
12	MP2B	Mx	.017	4.75
13	MP2C	X	138.892	1.25
14	MP2C	Z	-80.189	1.25
15	MP2C	Mx	.094	1.25
16	MP2C	X	138.892	4.75
17	MP2C	Z	-80.189	4.75
18	MP2C	Mx	.094	4.75
19	MP2A	X	103.589	1.25
20	MP2A	Z	-59.807	1.25
21	MP2A	Mx	-.017	1.25
22	MP2A	X	103.589	4.75
23	MP2A	Z	-59.807	4.75
24	MP2A	Mx	-.017	4.75
25	MP2B	X	103.589	1.25
26	MP2B	Z	-59.807	1.25
27	MP2B	Mx	.087	1.25
28	MP2B	X	103.589	4.75
29	MP2B	Z	-59.807	4.75
30	MP2B	Mx	.087	4.75
31	MP2C	X	138.892	1.25
32	MP2C	Z	-80.189	1.25
33	MP2C	Mx	-.094	1.25
34	MP2C	X	138.892	4.75
35	MP2C	Z	-80.189	4.75
36	MP2C	Mx	-.094	4.75
37	MP4A	X	43.92	1.25
38	MP4A	Z	-25.357	1.25
39	MP4A	Mx	-.022	1.25
40	MP4A	X	43.92	2.75
41	MP4A	Z	-25.357	2.75
42	MP4A	Mx	-.022	2.75
43	MP4B	X	43.92	1.25
44	MP4B	Z	-25.357	1.25
45	MP4B	Mx	.022	1.25
46	MP4B	X	43.92	2.75
47	MP4B	Z	-25.357	2.75
48	MP4B	Mx	.022	2.75
49	MP4C	X	80.791	1.25
50	MP4C	Z	-46.645	1.25
51	MP4C	Mx	0	1.25
52	MP4C	X	80.791	2.75
53	MP4C	Z	-46.645	2.75
54	MP4C	Mx	0	2.75
55	MP1A	X	114.762	1.5
56	MP1A	Z	-66.258	1.5
57	MP1A	Mx	.057	1.5
58	MP3A	X	45.402	1.5
59	MP3A	Z	-26.213	1.5
60	MP3A	Mx	.023	1.5
61	MP3B	X	45.402	1.5
62	MP3B	Z	-26.213	1.5
63	MP3B	Mx	-.023	1.5
64	MP3C	X	64.289	1.5
65	MP3C	Z	-37.117	1.5
66	MP3C	Mx	0	1.5
67	MP1A	X	86.138	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP1A	Z	-49.732	.25
69	MP1A	Mx	-.043	.25
70	MP1A	X	86.138	3.75
71	MP1A	Z	-49.732	3.75
72	MP1A	Mx	-.043	3.75
73	MP1B	X	86.138	.25
74	MP1B	Z	-49.732	.25
75	MP1B	Mx	.043	.25
76	MP1B	X	86.138	3.75
77	MP1B	Z	-49.732	3.75
78	MP1B	Mx	.043	3.75
79	MP1C	X	130.125	.25
80	MP1C	Z	-75.128	.25
81	MP1C	Mx	0	.25
82	MP1C	X	130.125	3.75
83	MP1C	Z	-75.128	3.75
84	MP1C	Mx	0	3.75
85	MP2A	X	48.303	2.5
86	MP2A	Z	-27.888	2.5
87	MP2A	Mx	.024	2.5
88	MP2B	X	48.303	2.5
89	MP2B	Z	-27.888	2.5
90	MP2B	Mx	-.024	2.5
91	MP2C	X	64.289	2.5
92	MP2C	Z	-37.117	2.5
93	MP2C	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	106.026	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	-.053	1.25
4	MP2A	X	106.026	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	-.053	4.75
7	MP2B	X	146.79	1.25
8	MP2B	Z	0	1.25
9	MP2B	Mx	-.037	1.25
10	MP2B	X	146.79	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	-.037	4.75
13	MP2C	X	146.79	1.25
14	MP2C	Z	0	1.25
15	MP2C	Mx	.111	1.25
16	MP2C	X	146.79	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	.111	4.75
19	MP2A	X	106.026	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	-.053	1.25
22	MP2A	X	106.026	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	-.053	4.75
25	MP2B	X	146.79	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	.111	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
28	MP2B	X	146.79	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	.111	4.75
31	MP2C	X	146.79	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	-.037	1.25
34	MP2C	X	146.79	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	-.037	4.75
37	MP4A	X	36.523	1.25
38	MP4A	Z	0	1.25
39	MP4A	Mx	-.018	1.25
40	MP4A	X	36.523	2.75
41	MP4A	Z	0	2.75
42	MP4A	Mx	-.018	2.75
43	MP4B	X	79.098	1.25
44	MP4B	Z	0	1.25
45	MP4B	Mx	.02	1.25
46	MP4B	X	79.098	2.75
47	MP4B	Z	0	2.75
48	MP4B	Mx	.02	2.75
49	MP4C	X	79.098	1.25
50	MP4C	Z	0	1.25
51	MP4C	Mx	.02	1.25
52	MP4C	X	79.098	2.75
53	MP4C	Z	0	2.75
54	MP4C	Mx	.02	2.75
55	MP1A	X	122.964	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	.061	1.5
58	MP3A	X	45.156	1.5
59	MP3A	Z	0	1.5
60	MP3A	Mx	.023	1.5
61	MP3B	X	66.965	1.5
62	MP3B	Z	0	1.5
63	MP3B	Mx	-.017	1.5
64	MP3C	X	66.965	1.5
65	MP3C	Z	0	1.5
66	MP3C	Mx	-.017	1.5
67	MP1A	X	82.534	.25
68	MP1A	Z	0	.25
69	MP1A	Mx	-.041	.25
70	MP1A	X	82.534	3.75
71	MP1A	Z	0	3.75
72	MP1A	Mx	-.041	3.75
73	MP1B	X	133.325	.25
74	MP1B	Z	0	.25
75	MP1B	Mx	.033	.25
76	MP1B	X	133.325	3.75
77	MP1B	Z	0	3.75
78	MP1B	Mx	.033	3.75
79	MP1C	X	133.325	.25
80	MP1C	Z	0	.25
81	MP1C	Mx	.033	.25
82	MP1C	X	133.325	3.75
83	MP1C	Z	0	3.75
84	MP1C	Mx	.033	3.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
85	MP2A	X	49.622	2.5
86	MP2A	Z	0	2.5
87	MP2A	Mx	.025	2.5
88	MP2B	X	68.082	2.5
89	MP2B	Z	0	2.5
90	MP2B	Mx	-.017	2.5
91	MP2C	X	68.082	2.5
92	MP2C	Z	0	2.5
93	MP2C	Mx	-.017	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	103.589	1.25
2	MP2A	Z	59.807	1.25
3	MP2A	Mx	-.017	1.25
4	MP2A	X	103.589	4.75
5	MP2A	Z	59.807	4.75
6	MP2A	Mx	-.017	4.75
7	MP2B	X	138.892	1.25
8	MP2B	Z	80.189	1.25
9	MP2B	Mx	-.094	1.25
10	MP2B	X	138.892	4.75
11	MP2B	Z	80.189	4.75
12	MP2B	Mx	-.094	4.75
13	MP2C	X	103.589	1.25
14	MP2C	Z	59.807	1.25
15	MP2C	Mx	.087	1.25
16	MP2C	X	103.589	4.75
17	MP2C	Z	59.807	4.75
18	MP2C	Mx	.087	4.75
19	MP2A	X	103.589	1.25
20	MP2A	Z	59.807	1.25
21	MP2A	Mx	-.087	1.25
22	MP2A	X	103.589	4.75
23	MP2A	Z	59.807	4.75
24	MP2A	Mx	-.087	4.75
25	MP2B	X	138.892	1.25
26	MP2B	Z	80.189	1.25
27	MP2B	Mx	.094	1.25
28	MP2B	X	138.892	4.75
29	MP2B	Z	80.189	4.75
30	MP2B	Mx	.094	4.75
31	MP2C	X	103.589	1.25
32	MP2C	Z	59.807	1.25
33	MP2C	Mx	.017	1.25
34	MP2C	X	103.589	4.75
35	MP2C	Z	59.807	4.75
36	MP2C	Mx	.017	4.75
37	MP4A	X	43.92	1.25
38	MP4A	Z	25.357	1.25
39	MP4A	Mx	-.022	1.25
40	MP4A	X	43.92	2.75
41	MP4A	Z	25.357	2.75
42	MP4A	Mx	-.022	2.75
43	MP4B	X	80.791	1.25
44	MP4B	Z	46.645	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP4B	Mx	0	1.25
46	MP4B	X	80.791	2.75
47	MP4B	Z	46.645	2.75
48	MP4B	Mx	0	2.75
49	MP4C	X	43.92	1.25
50	MP4C	Z	25.357	1.25
51	MP4C	Mx	.022	1.25
52	MP4C	X	43.92	2.75
53	MP4C	Z	25.357	2.75
54	MP4C	Mx	.022	2.75
55	MP1A	X	114.762	1.5
56	MP1A	Z	66.258	1.5
57	MP1A	Mx	.057	1.5
58	MP3A	X	45.402	1.5
59	MP3A	Z	26.213	1.5
60	MP3A	Mx	.023	1.5
61	MP3B	X	64.289	1.5
62	MP3B	Z	37.117	1.5
63	MP3B	Mx	0	1.5
64	MP3C	X	45.402	1.5
65	MP3C	Z	26.213	1.5
66	MP3C	Mx	-.023	1.5
67	MP1A	X	86.138	.25
68	MP1A	Z	49.732	.25
69	MP1A	Mx	-.043	.25
70	MP1A	X	86.138	3.75
71	MP1A	Z	49.732	3.75
72	MP1A	Mx	-.043	3.75
73	MP1B	X	130.125	.25
74	MP1B	Z	75.128	.25
75	MP1B	Mx	0	.25
76	MP1B	X	130.125	3.75
77	MP1B	Z	75.128	3.75
78	MP1B	Mx	0	3.75
79	MP1C	X	86.138	.25
80	MP1C	Z	49.732	.25
81	MP1C	Mx	.043	.25
82	MP1C	X	86.138	3.75
83	MP1C	Z	49.732	3.75
84	MP1C	Mx	.043	3.75
85	MP2A	X	48.303	2.5
86	MP2A	Z	27.888	2.5
87	MP2A	Mx	.024	2.5
88	MP2B	X	64.289	2.5
89	MP2B	Z	37.117	2.5
90	MP2B	Mx	0	2.5
91	MP2C	X	48.303	2.5
92	MP2C	Z	27.888	2.5
93	MP2C	Mx	-.024	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	73.395	1.25
2	MP2A	Z	127.124	1.25
3	MP2A	Mx	.037	1.25
4	MP2A	X	73.395	4.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
5	MP2A	Z	127.124	4.75
6	MP2A	Mx	.037	4.75
7	MP2B	X	73.395	1.25
8	MP2B	Z	127.124	1.25
9	MP2B	Mx	-.111	1.25
10	MP2B	X	73.395	4.75
11	MP2B	Z	127.124	4.75
12	MP2B	Mx	-.111	4.75
13	MP2C	X	53.013	1.25
14	MP2C	Z	91.821	1.25
15	MP2C	Mx	.053	1.25
16	MP2C	X	53.013	4.75
17	MP2C	Z	91.821	4.75
18	MP2C	Mx	.053	4.75
19	MP2A	X	73.395	1.25
20	MP2A	Z	127.124	1.25
21	MP2A	Mx	-.111	1.25
22	MP2A	X	73.395	4.75
23	MP2A	Z	127.124	4.75
24	MP2A	Mx	-.111	4.75
25	MP2B	X	73.395	1.25
26	MP2B	Z	127.124	1.25
27	MP2B	Mx	.037	1.25
28	MP2B	X	73.395	4.75
29	MP2B	Z	127.124	4.75
30	MP2B	Mx	.037	4.75
31	MP2C	X	53.013	1.25
32	MP2C	Z	91.821	1.25
33	MP2C	Mx	.053	1.25
34	MP2C	X	53.013	4.75
35	MP2C	Z	91.821	4.75
36	MP2C	Mx	.053	4.75
37	MP4A	X	39.549	1.25
38	MP4A	Z	68.501	1.25
39	MP4A	Mx	-.02	1.25
40	MP4A	X	39.549	2.75
41	MP4A	Z	68.501	2.75
42	MP4A	Mx	-.02	2.75
43	MP4B	X	39.549	1.25
44	MP4B	Z	68.501	1.25
45	MP4B	Mx	-.02	1.25
46	MP4B	X	39.549	2.75
47	MP4B	Z	68.501	2.75
48	MP4B	Mx	-.02	2.75
49	MP4C	X	18.261	1.25
50	MP4C	Z	31.63	1.25
51	MP4C	Mx	.018	1.25
52	MP4C	X	18.261	2.75
53	MP4C	Z	31.63	2.75
54	MP4C	Mx	.018	2.75
55	MP1A	X	75.81	1.5
56	MP1A	Z	131.307	1.5
57	MP1A	Mx	.038	1.5
58	MP3A	X	33.483	1.5
59	MP3A	Z	57.993	1.5
60	MP3A	Mx	.017	1.5
61	MP3B	X	33.483	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
62	MP3B	Z	57.993	1.5
63	MP3B	Mx	.017	1.5
64	MP3C	X	22.578	1.5
65	MP3C	Z	39.106	1.5
66	MP3C	Mx	-.023	1.5
67	MP1A	X	66.663	.25
68	MP1A	Z	115.463	.25
69	MP1A	Mx	-.033	.25
70	MP1A	X	66.663	3.75
71	MP1A	Z	115.463	3.75
72	MP1A	Mx	-.033	3.75
73	MP1B	X	66.663	.25
74	MP1B	Z	115.463	.25
75	MP1B	Mx	-.033	.25
76	MP1B	X	66.663	3.75
77	MP1B	Z	115.463	3.75
78	MP1B	Mx	-.033	3.75
79	MP1C	X	41.267	.25
80	MP1C	Z	71.476	.25
81	MP1C	Mx	.041	.25
82	MP1C	X	41.267	3.75
83	MP1C	Z	71.476	3.75
84	MP1C	Mx	.041	3.75
85	MP2A	X	34.041	2.5
86	MP2A	Z	58.96	2.5
87	MP2A	Mx	.017	2.5
88	MP2B	X	34.041	2.5
89	MP2B	Z	58.96	2.5
90	MP2B	Mx	.017	2.5
91	MP2C	X	24.811	2.5
92	MP2C	Z	42.974	2.5
93	MP2C	Mx	-.025	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	1.25
2	MP2A	Z	160.379	1.25
3	MP2A	Mx	.094	1.25
4	MP2A	X	0	4.75
5	MP2A	Z	160.379	4.75
6	MP2A	Mx	.094	4.75
7	MP2B	X	0	1.25
8	MP2B	Z	119.614	1.25
9	MP2B	Mx	-.087	1.25
10	MP2B	X	0	4.75
11	MP2B	Z	119.614	4.75
12	MP2B	Mx	-.087	4.75
13	MP2C	X	0	1.25
14	MP2C	Z	119.614	1.25
15	MP2C	Mx	.017	1.25
16	MP2C	X	0	4.75
17	MP2C	Z	119.614	4.75
18	MP2C	Mx	.017	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	160.379	1.25
21	MP2A	Mx	-.094	1.25



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 Designer :  
 Job Number :  
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**Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
22	MP2A	X	0	4.75
23	MP2A	Z	160.379	4.75
24	MP2A	Mx	-.094	4.75
25	MP2B	X	0	1.25
26	MP2B	Z	119.614	1.25
27	MP2B	Mx	-.017	1.25
28	MP2B	X	0	4.75
29	MP2B	Z	119.614	4.75
30	MP2B	Mx	-.017	4.75
31	MP2C	X	0	1.25
32	MP2C	Z	119.614	1.25
33	MP2C	Mx	.087	1.25
34	MP2C	X	0	4.75
35	MP2C	Z	119.614	4.75
36	MP2C	Mx	.087	4.75
37	MP4A	X	0	1.25
38	MP4A	Z	93.29	1.25
39	MP4A	Mx	0	1.25
40	MP4A	X	0	2.75
41	MP4A	Z	93.29	2.75
42	MP4A	Mx	0	2.75
43	MP4B	X	0	1.25
44	MP4B	Z	50.714	1.25
45	MP4B	Mx	-.022	1.25
46	MP4B	X	0	2.75
47	MP4B	Z	50.714	2.75
48	MP4B	Mx	-.022	2.75
49	MP4C	X	0	1.25
50	MP4C	Z	50.714	1.25
51	MP4C	Mx	.022	1.25
52	MP4C	X	0	2.75
53	MP4C	Z	50.714	2.75
54	MP4C	Mx	.022	2.75
55	MP1A	X	0	1.5
56	MP1A	Z	161.173	1.5
57	MP1A	Mx	0	1.5
58	MP3A	X	0	1.5
59	MP3A	Z	74.235	1.5
60	MP3A	Mx	0	1.5
61	MP3B	X	0	1.5
62	MP3B	Z	52.426	1.5
63	MP3B	Mx	.023	1.5
64	MP3C	X	0	1.5
65	MP3C	Z	52.426	1.5
66	MP3C	Mx	-.023	1.5
67	MP1A	X	0	.25
68	MP1A	Z	150.256	.25
69	MP1A	Mx	0	.25
70	MP1A	X	0	3.75
71	MP1A	Z	150.256	3.75
72	MP1A	Mx	0	3.75
73	MP1B	X	0	.25
74	MP1B	Z	99.464	.25
75	MP1B	Mx	-.043	.25
76	MP1B	X	0	3.75
77	MP1B	Z	99.464	3.75
78	MP1B	Mx	-.043	3.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
79	MP1C	X	0	.25
80	MP1C	Z	99.464	.25
81	MP1C	Mx	.043	.25
82	MP1C	X	0	3.75
83	MP1C	Z	99.464	3.75
84	MP1C	Mx	.043	3.75
85	MP2A	X	0	2.5
86	MP2A	Z	74.235	2.5
87	MP2A	Mx	0	2.5
88	MP2B	X	0	2.5
89	MP2B	Z	55.775	2.5
90	MP2B	Mx	.024	2.5
91	MP2C	X	0	2.5
92	MP2C	Z	55.775	2.5
93	MP2C	Mx	-.024	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-73.395	1.25
2	MP2A	Z	127.124	1.25
3	MP2A	Mx	.111	1.25
4	MP2A	X	-73.395	4.75
5	MP2A	Z	127.124	4.75
6	MP2A	Mx	.111	4.75
7	MP2B	X	-53.013	1.25
8	MP2B	Z	91.821	1.25
9	MP2B	Mx	-.053	1.25
10	MP2B	X	-53.013	4.75
11	MP2B	Z	91.821	4.75
12	MP2B	Mx	-.053	4.75
13	MP2C	X	-73.395	1.25
14	MP2C	Z	127.124	1.25
15	MP2C	Mx	-.037	1.25
16	MP2C	X	-73.395	4.75
17	MP2C	Z	127.124	4.75
18	MP2C	Mx	-.037	4.75
19	MP2A	X	-73.395	1.25
20	MP2A	Z	127.124	1.25
21	MP2A	Mx	-.037	1.25
22	MP2A	X	-73.395	4.75
23	MP2A	Z	127.124	4.75
24	MP2A	Mx	-.037	4.75
25	MP2B	X	-53.013	1.25
26	MP2B	Z	91.821	1.25
27	MP2B	Mx	-.053	1.25
28	MP2B	X	-53.013	4.75
29	MP2B	Z	91.821	4.75
30	MP2B	Mx	-.053	4.75
31	MP2C	X	-73.395	1.25
32	MP2C	Z	127.124	1.25
33	MP2C	Mx	.111	1.25
34	MP2C	X	-73.395	4.75
35	MP2C	Z	127.124	4.75
36	MP2C	Mx	.111	4.75
37	MP4A	X	-39.549	1.25
38	MP4A	Z	68.501	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
39	MP4A	Mx	.02	1.25
40	MP4A	X	-39.549	2.75
41	MP4A	Z	68.501	2.75
42	MP4A	Mx	.02	2.75
43	MP4B	X	-18.261	1.25
44	MP4B	Z	31.63	1.25
45	MP4B	Mx	-.018	1.25
46	MP4B	X	-18.261	2.75
47	MP4B	Z	31.63	2.75
48	MP4B	Mx	-.018	2.75
49	MP4C	X	-39.549	1.25
50	MP4C	Z	68.501	1.25
51	MP4C	Mx	.02	1.25
52	MP4C	X	-39.549	2.75
53	MP4C	Z	68.501	2.75
54	MP4C	Mx	.02	2.75
55	MP1A	X	-75.81	1.5
56	MP1A	Z	131.307	1.5
57	MP1A	Mx	-.038	1.5
58	MP3A	X	-33.483	1.5
59	MP3A	Z	57.993	1.5
60	MP3A	Mx	-.017	1.5
61	MP3B	X	-22.578	1.5
62	MP3B	Z	39.106	1.5
63	MP3B	Mx	.023	1.5
64	MP3C	X	-33.483	1.5
65	MP3C	Z	57.993	1.5
66	MP3C	Mx	-.017	1.5
67	MP1A	X	-66.663	.25
68	MP1A	Z	115.463	.25
69	MP1A	Mx	.033	.25
70	MP1A	X	-66.663	3.75
71	MP1A	Z	115.463	3.75
72	MP1A	Mx	.033	3.75
73	MP1B	X	-41.267	.25
74	MP1B	Z	71.476	.25
75	MP1B	Mx	-.041	.25
76	MP1B	X	-41.267	3.75
77	MP1B	Z	71.476	3.75
78	MP1B	Mx	-.041	3.75
79	MP1C	X	-66.663	.25
80	MP1C	Z	115.463	.25
81	MP1C	Mx	.033	.25
82	MP1C	X	-66.663	3.75
83	MP1C	Z	115.463	3.75
84	MP1C	Mx	.033	3.75
85	MP2A	X	-34.041	2.5
86	MP2A	Z	58.96	2.5
87	MP2A	Mx	-.017	2.5
88	MP2B	X	-24.811	2.5
89	MP2B	Z	42.974	2.5
90	MP2B	Mx	.025	2.5
91	MP2C	X	-34.041	2.5
92	MP2C	Z	58.96	2.5
93	MP2C	Mx	-.017	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-103.589	1.25
2	MP2A	Z	59.807	1.25
3	MP2A	Mx	.087	1.25
4	MP2A	X	-103.589	4.75
5	MP2A	Z	59.807	4.75
6	MP2A	Mx	.087	4.75
7	MP2B	X	-103.589	1.25
8	MP2B	Z	59.807	1.25
9	MP2B	Mx	-.017	1.25
10	MP2B	X	-103.589	4.75
11	MP2B	Z	59.807	4.75
12	MP2B	Mx	-.017	4.75
13	MP2C	X	-138.892	1.25
14	MP2C	Z	80.189	1.25
15	MP2C	Mx	-.094	1.25
16	MP2C	X	-138.892	4.75
17	MP2C	Z	80.189	4.75
18	MP2C	Mx	-.094	4.75
19	MP2A	X	-103.589	1.25
20	MP2A	Z	59.807	1.25
21	MP2A	Mx	.017	1.25
22	MP2A	X	-103.589	4.75
23	MP2A	Z	59.807	4.75
24	MP2A	Mx	.017	4.75
25	MP2B	X	-103.589	1.25
26	MP2B	Z	59.807	1.25
27	MP2B	Mx	-.087	1.25
28	MP2B	X	-103.589	4.75
29	MP2B	Z	59.807	4.75
30	MP2B	Mx	-.087	4.75
31	MP2C	X	-138.892	1.25
32	MP2C	Z	80.189	1.25
33	MP2C	Mx	.094	1.25
34	MP2C	X	-138.892	4.75
35	MP2C	Z	80.189	4.75
36	MP2C	Mx	.094	4.75
37	MP4A	X	-43.92	1.25
38	MP4A	Z	25.357	1.25
39	MP4A	Mx	.022	1.25
40	MP4A	X	-43.92	2.75
41	MP4A	Z	25.357	2.75
42	MP4A	Mx	.022	2.75
43	MP4B	X	-43.92	1.25
44	MP4B	Z	25.357	1.25
45	MP4B	Mx	-.022	1.25
46	MP4B	X	-43.92	2.75
47	MP4B	Z	25.357	2.75
48	MP4B	Mx	-.022	2.75
49	MP4C	X	-80.791	1.25
50	MP4C	Z	46.645	1.25
51	MP4C	Mx	0	1.25
52	MP4C	X	-80.791	2.75
53	MP4C	Z	46.645	2.75
54	MP4C	Mx	0	2.75
55	MP1A	X	-114.762	1.5
56	MP1A	Z	66.258	1.5
57	MP1A	Mx	-.057	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP3A	X	-45.402	1.5
59	MP3A	Z	26.213	1.5
60	MP3A	Mx	-.023	1.5
61	MP3B	X	-45.402	1.5
62	MP3B	Z	26.213	1.5
63	MP3B	Mx	.023	1.5
64	MP3C	X	-64.289	1.5
65	MP3C	Z	37.117	1.5
66	MP3C	Mx	0	1.5
67	MP1A	X	-86.138	.25
68	MP1A	Z	49.732	.25
69	MP1A	Mx	.043	.25
70	MP1A	X	-86.138	3.75
71	MP1A	Z	49.732	3.75
72	MP1A	Mx	.043	3.75
73	MP1B	X	-86.138	.25
74	MP1B	Z	49.732	.25
75	MP1B	Mx	-.043	.25
76	MP1B	X	-86.138	3.75
77	MP1B	Z	49.732	3.75
78	MP1B	Mx	-.043	3.75
79	MP1C	X	-130.125	.25
80	MP1C	Z	75.128	.25
81	MP1C	Mx	0	.25
82	MP1C	X	-130.125	3.75
83	MP1C	Z	75.128	3.75
84	MP1C	Mx	0	3.75
85	MP2A	X	-48.303	2.5
86	MP2A	Z	27.888	2.5
87	MP2A	Mx	-.024	2.5
88	MP2B	X	-48.303	2.5
89	MP2B	Z	27.888	2.5
90	MP2B	Mx	.024	2.5
91	MP2C	X	-64.289	2.5
92	MP2C	Z	37.117	2.5
93	MP2C	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-106.026	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	.053	1.25
4	MP2A	X	-106.026	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	.053	4.75
7	MP2B	X	-146.79	1.25
8	MP2B	Z	0	1.25
9	MP2B	Mx	.037	1.25
10	MP2B	X	-146.79	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	.037	4.75
13	MP2C	X	-146.79	1.25
14	MP2C	Z	0	1.25
15	MP2C	Mx	-.111	1.25
16	MP2C	X	-146.79	4.75
17	MP2C	Z	0	4.75



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	MP2C	Mx	-.111	4.75
19	MP2A	X	-106.026	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	.053	1.25
22	MP2A	X	-106.026	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	.053	4.75
25	MP2B	X	-146.79	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	-.111	1.25
28	MP2B	X	-146.79	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	-.111	4.75
31	MP2C	X	-146.79	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	.037	1.25
34	MP2C	X	-146.79	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	.037	4.75
37	MP4A	X	-36.523	1.25
38	MP4A	Z	0	1.25
39	MP4A	Mx	.018	1.25
40	MP4A	X	-36.523	2.75
41	MP4A	Z	0	2.75
42	MP4A	Mx	.018	2.75
43	MP4B	X	-79.098	1.25
44	MP4B	Z	0	1.25
45	MP4B	Mx	-.02	1.25
46	MP4B	X	-79.098	2.75
47	MP4B	Z	0	2.75
48	MP4B	Mx	-.02	2.75
49	MP4C	X	-79.098	1.25
50	MP4C	Z	0	1.25
51	MP4C	Mx	-.02	1.25
52	MP4C	X	-79.098	2.75
53	MP4C	Z	0	2.75
54	MP4C	Mx	-.02	2.75
55	MP1A	X	-122.964	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	-.061	1.5
58	MP3A	X	-45.156	1.5
59	MP3A	Z	0	1.5
60	MP3A	Mx	-.023	1.5
61	MP3B	X	-66.965	1.5
62	MP3B	Z	0	1.5
63	MP3B	Mx	.017	1.5
64	MP3C	X	-66.965	1.5
65	MP3C	Z	0	1.5
66	MP3C	Mx	.017	1.5
67	MP1A	X	-82.534	.25
68	MP1A	Z	0	.25
69	MP1A	Mx	.041	.25
70	MP1A	X	-82.534	3.75
71	MP1A	Z	0	3.75
72	MP1A	Mx	.041	3.75
73	MP1B	X	-133.325	.25
74	MP1B	Z	0	.25





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	MP1B	Mx	-.033	.25
76	MP1B	X	-133.325	3.75
77	MP1B	Z	0	3.75
78	MP1B	Mx	-.033	3.75
79	MP1C	X	-133.325	.25
80	MP1C	Z	0	.25
81	MP1C	Mx	-.033	.25
82	MP1C	X	-133.325	3.75
83	MP1C	Z	0	3.75
84	MP1C	Mx	-.033	3.75
85	MP2A	X	-49.622	2.5
86	MP2A	Z	0	2.5
87	MP2A	Mx	-.025	2.5
88	MP2B	X	-68.082	2.5
89	MP2B	Z	0	2.5
90	MP2B	Mx	.017	2.5
91	MP2C	X	-68.082	2.5
92	MP2C	Z	0	2.5
93	MP2C	Mx	.017	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-103.589	1.25
2	MP2A	Z	-59.807	1.25
3	MP2A	Mx	.017	1.25
4	MP2A	X	-103.589	4.75
5	MP2A	Z	-59.807	4.75
6	MP2A	Mx	.017	4.75
7	MP2B	X	-138.892	1.25
8	MP2B	Z	-80.189	1.25
9	MP2B	Mx	.094	1.25
10	MP2B	X	-138.892	4.75
11	MP2B	Z	-80.189	4.75
12	MP2B	Mx	.094	4.75
13	MP2C	X	-103.589	1.25
14	MP2C	Z	-59.807	1.25
15	MP2C	Mx	-.087	1.25
16	MP2C	X	-103.589	4.75
17	MP2C	Z	-59.807	4.75
18	MP2C	Mx	-.087	4.75
19	MP2A	X	-103.589	1.25
20	MP2A	Z	-59.807	1.25
21	MP2A	Mx	.087	1.25
22	MP2A	X	-103.589	4.75
23	MP2A	Z	-59.807	4.75
24	MP2A	Mx	.087	4.75
25	MP2B	X	-138.892	1.25
26	MP2B	Z	-80.189	1.25
27	MP2B	Mx	-.094	1.25
28	MP2B	X	-138.892	4.75
29	MP2B	Z	-80.189	4.75
30	MP2B	Mx	-.094	4.75
31	MP2C	X	-103.589	1.25
32	MP2C	Z	-59.807	1.25
33	MP2C	Mx	-.017	1.25
34	MP2C	X	-103.589	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
35	MP2C	Z	-59.807	4.75
36	MP2C	Mx	-.017	4.75
37	MP4A	X	-43.92	1.25
38	MP4A	Z	-25.357	1.25
39	MP4A	Mx	.022	1.25
40	MP4A	X	-43.92	2.75
41	MP4A	Z	-25.357	2.75
42	MP4A	Mx	.022	2.75
43	MP4B	X	-80.791	1.25
44	MP4B	Z	-46.645	1.25
45	MP4B	Mx	0	1.25
46	MP4B	X	-80.791	2.75
47	MP4B	Z	-46.645	2.75
48	MP4B	Mx	0	2.75
49	MP4C	X	-43.92	1.25
50	MP4C	Z	-25.357	1.25
51	MP4C	Mx	-.022	1.25
52	MP4C	X	-43.92	2.75
53	MP4C	Z	-25.357	2.75
54	MP4C	Mx	-.022	2.75
55	MP1A	X	-114.762	1.5
56	MP1A	Z	-66.258	1.5
57	MP1A	Mx	-.057	1.5
58	MP3A	X	-45.402	1.5
59	MP3A	Z	-26.213	1.5
60	MP3A	Mx	-.023	1.5
61	MP3B	X	-64.289	1.5
62	MP3B	Z	-37.117	1.5
63	MP3B	Mx	0	1.5
64	MP3C	X	-45.402	1.5
65	MP3C	Z	-26.213	1.5
66	MP3C	Mx	.023	1.5
67	MP1A	X	-86.138	.25
68	MP1A	Z	-49.732	.25
69	MP1A	Mx	.043	.25
70	MP1A	X	-86.138	3.75
71	MP1A	Z	-49.732	3.75
72	MP1A	Mx	.043	3.75
73	MP1B	X	-130.125	.25
74	MP1B	Z	-75.128	.25
75	MP1B	Mx	0	.25
76	MP1B	X	-130.125	3.75
77	MP1B	Z	-75.128	3.75
78	MP1B	Mx	0	3.75
79	MP1C	X	-86.138	.25
80	MP1C	Z	-49.732	.25
81	MP1C	Mx	-.043	.25
82	MP1C	X	-86.138	3.75
83	MP1C	Z	-49.732	3.75
84	MP1C	Mx	-.043	3.75
85	MP2A	X	-48.303	2.5
86	MP2A	Z	-27.888	2.5
87	MP2A	Mx	-.024	2.5
88	MP2B	X	-64.289	2.5
89	MP2B	Z	-37.117	2.5
90	MP2B	Mx	0	2.5
91	MP2C	X	-48.303	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
92	MP2C	Z	-27.888	2.5
93	MP2C	Mx	.024	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-73.395	1.25
2	MP2A	Z	-127.124	1.25
3	MP2A	Mx	-.037	1.25
4	MP2A	X	-73.395	4.75
5	MP2A	Z	-127.124	4.75
6	MP2A	Mx	-.037	4.75
7	MP2B	X	-73.395	1.25
8	MP2B	Z	-127.124	1.25
9	MP2B	Mx	.111	1.25
10	MP2B	X	-73.395	4.75
11	MP2B	Z	-127.124	4.75
12	MP2B	Mx	.111	4.75
13	MP2C	X	-53.013	1.25
14	MP2C	Z	-91.821	1.25
15	MP2C	Mx	-.053	1.25
16	MP2C	X	-53.013	4.75
17	MP2C	Z	-91.821	4.75
18	MP2C	Mx	-.053	4.75
19	MP2A	X	-73.395	1.25
20	MP2A	Z	-127.124	1.25
21	MP2A	Mx	.111	1.25
22	MP2A	X	-73.395	4.75
23	MP2A	Z	-127.124	4.75
24	MP2A	Mx	.111	4.75
25	MP2B	X	-73.395	1.25
26	MP2B	Z	-127.124	1.25
27	MP2B	Mx	-.037	1.25
28	MP2B	X	-73.395	4.75
29	MP2B	Z	-127.124	4.75
30	MP2B	Mx	-.037	4.75
31	MP2C	X	-53.013	1.25
32	MP2C	Z	-91.821	1.25
33	MP2C	Mx	-.053	1.25
34	MP2C	X	-53.013	4.75
35	MP2C	Z	-91.821	4.75
36	MP2C	Mx	-.053	4.75
37	MP4A	X	-39.549	1.25
38	MP4A	Z	-68.501	1.25
39	MP4A	Mx	.02	1.25
40	MP4A	X	-39.549	2.75
41	MP4A	Z	-68.501	2.75
42	MP4A	Mx	.02	2.75
43	MP4B	X	-39.549	1.25
44	MP4B	Z	-68.501	1.25
45	MP4B	Mx	.02	1.25
46	MP4B	X	-39.549	2.75
47	MP4B	Z	-68.501	2.75
48	MP4B	Mx	.02	2.75
49	MP4C	X	-18.261	1.25
50	MP4C	Z	-31.63	1.25
51	MP4C	Mx	-.018	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
52	MP4C	X	-18.261	2.75
53	MP4C	Z	-31.63	2.75
54	MP4C	Mx	-.018	2.75
55	MP1A	X	-75.81	1.5
56	MP1A	Z	-131.307	1.5
57	MP1A	Mx	-.038	1.5
58	MP3A	X	-33.483	1.5
59	MP3A	Z	-57.993	1.5
60	MP3A	Mx	-.017	1.5
61	MP3B	X	-33.483	1.5
62	MP3B	Z	-57.993	1.5
63	MP3B	Mx	-.017	1.5
64	MP3C	X	-22.578	1.5
65	MP3C	Z	-39.106	1.5
66	MP3C	Mx	.023	1.5
67	MP1A	X	-66.663	.25
68	MP1A	Z	-115.463	.25
69	MP1A	Mx	.033	.25
70	MP1A	X	-66.663	3.75
71	MP1A	Z	-115.463	3.75
72	MP1A	Mx	.033	3.75
73	MP1B	X	-66.663	.25
74	MP1B	Z	-115.463	.25
75	MP1B	Mx	.033	.25
76	MP1B	X	-66.663	3.75
77	MP1B	Z	-115.463	3.75
78	MP1B	Mx	.033	3.75
79	MP1C	X	-41.267	.25
80	MP1C	Z	-71.476	.25
81	MP1C	Mx	-.041	.25
82	MP1C	X	-41.267	3.75
83	MP1C	Z	-71.476	3.75
84	MP1C	Mx	-.041	3.75
85	MP2A	X	-34.041	2.5
86	MP2A	Z	-58.96	2.5
87	MP2A	Mx	-.017	2.5
88	MP2B	X	-34.041	2.5
89	MP2B	Z	-58.96	2.5
90	MP2B	Mx	-.017	2.5
91	MP2C	X	-24.811	2.5
92	MP2C	Z	-42.974	2.5
93	MP2C	Mx	.025	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	1.25
2	MP2A	Z	-32.303	1.25
3	MP2A	Mx	-.019	1.25
4	MP2A	X	0	4.75
5	MP2A	Z	-32.303	4.75
6	MP2A	Mx	-.019	4.75
7	MP2B	X	0	1.25
8	MP2B	Z	-24.781	1.25
9	MP2B	Mx	.018	1.25
10	MP2B	X	0	4.75
11	MP2B	Z	-24.781	4.75



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
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**Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP2B	Mx	.018	4.75
13	MP2C	X	0	1.25
14	MP2C	Z	-24.781	1.25
15	MP2C	Mx	-.004	1.25
16	MP2C	X	0	4.75
17	MP2C	Z	-24.781	4.75
18	MP2C	Mx	-.004	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	-32.303	1.25
21	MP2A	Mx	.019	1.25
22	MP2A	X	0	4.75
23	MP2A	Z	-32.303	4.75
24	MP2A	Mx	.019	4.75
25	MP2B	X	0	1.25
26	MP2B	Z	-24.781	1.25
27	MP2B	Mx	.004	1.25
28	MP2B	X	0	4.75
29	MP2B	Z	-24.781	4.75
30	MP2B	Mx	.004	4.75
31	MP2C	X	0	1.25
32	MP2C	Z	-24.781	1.25
33	MP2C	Mx	-.018	1.25
34	MP2C	X	0	4.75
35	MP2C	Z	-24.781	4.75
36	MP2C	Mx	-.018	4.75
37	MP4A	X	0	1.25
38	MP4A	Z	-19.243	1.25
39	MP4A	Mx	0	1.25
40	MP4A	X	0	2.75
41	MP4A	Z	-19.243	2.75
42	MP4A	Mx	0	2.75
43	MP4B	X	0	1.25
44	MP4B	Z	-10.957	1.25
45	MP4B	Mx	.005	1.25
46	MP4B	X	0	2.75
47	MP4B	Z	-10.957	2.75
48	MP4B	Mx	.005	2.75
49	MP4C	X	0	1.25
50	MP4C	Z	-10.957	1.25
51	MP4C	Mx	-.005	1.25
52	MP4C	X	0	2.75
53	MP4C	Z	-10.957	2.75
54	MP4C	Mx	-.005	2.75
55	MP1A	X	0	1.5
56	MP1A	Z	-33.329	1.5
57	MP1A	Mx	0	1.5
58	MP3A	X	0	1.5
59	MP3A	Z	-16.216	1.5
60	MP3A	Mx	0	1.5
61	MP3B	X	0	1.5
62	MP3B	Z	-11.847	1.5
63	MP3B	Mx	-.005	1.5
64	MP3C	X	0	1.5
65	MP3C	Z	-11.847	1.5
66	MP3C	Mx	.005	1.5
67	MP1A	X	0	.25
68	MP1A	Z	-30.376	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
69	MP1A	Mx	0	.25
70	MP1A	X	0	3.75
71	MP1A	Z	-30.376	3.75
72	MP1A	Mx	0	3.75
73	MP1B	X	0	.25
74	MP1B	Z	-20.937	.25
75	MP1B	Mx	.009	.25
76	MP1B	X	0	3.75
77	MP1B	Z	-20.937	3.75
78	MP1B	Mx	.009	3.75
79	MP1C	X	0	.25
80	MP1C	Z	-20.937	.25
81	MP1C	Mx	-.009	.25
82	MP1C	X	0	3.75
83	MP1C	Z	-20.937	3.75
84	MP1C	Mx	-.009	3.75
85	MP2A	X	0	2.5
86	MP2A	Z	-16.216	2.5
87	MP2A	Mx	0	2.5
88	MP2B	X	0	2.5
89	MP2B	Z	-12.513	2.5
90	MP2B	Mx	-.005	2.5
91	MP2C	X	0	2.5
92	MP2C	Z	-12.513	2.5
93	MP2C	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	14.898	1.25
2	MP2A	Z	-25.804	1.25
3	MP2A	Mx	-.023	1.25
4	MP2A	X	14.898	4.75
5	MP2A	Z	-25.804	4.75
6	MP2A	Mx	-.023	4.75
7	MP2B	X	11.137	1.25
8	MP2B	Z	-19.289	1.25
9	MP2B	Mx	.011	1.25
10	MP2B	X	11.137	4.75
11	MP2B	Z	-19.289	4.75
12	MP2B	Mx	.011	4.75
13	MP2C	X	14.898	1.25
14	MP2C	Z	-25.804	1.25
15	MP2C	Mx	.008	1.25
16	MP2C	X	14.898	4.75
17	MP2C	Z	-25.804	4.75
18	MP2C	Mx	.008	4.75
19	MP2A	X	14.898	1.25
20	MP2A	Z	-25.804	1.25
21	MP2A	Mx	.008	1.25
22	MP2A	X	14.898	4.75
23	MP2A	Z	-25.804	4.75
24	MP2A	Mx	.008	4.75
25	MP2B	X	11.137	1.25
26	MP2B	Z	-19.289	1.25
27	MP2B	Mx	.011	1.25
28	MP2B	X	11.137	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP2B	Z	-19.289	4.75
30	MP2B	Mx	.011	4.75
31	MP2C	X	14.898	1.25
32	MP2C	Z	-25.804	1.25
33	MP2C	Mx	-.023	1.25
34	MP2C	X	14.898	4.75
35	MP2C	Z	-25.804	4.75
36	MP2C	Mx	-.023	4.75
37	MP4A	X	8.24	1.25
38	MP4A	Z	-14.273	1.25
39	MP4A	Mx	-.004	1.25
40	MP4A	X	8.24	2.75
41	MP4A	Z	-14.273	2.75
42	MP4A	Mx	-.004	2.75
43	MP4B	X	4.098	1.25
44	MP4B	Z	-7.097	1.25
45	MP4B	Mx	.004	1.25
46	MP4B	X	4.098	2.75
47	MP4B	Z	-7.097	2.75
48	MP4B	Mx	.004	2.75
49	MP4C	X	8.24	1.25
50	MP4C	Z	-14.273	1.25
51	MP4C	Mx	-.004	1.25
52	MP4C	X	8.24	2.75
53	MP4C	Z	-14.273	2.75
54	MP4C	Mx	-.004	2.75
55	MP1A	X	15.756	1.5
56	MP1A	Z	-27.29	1.5
57	MP1A	Mx	.008	1.5
58	MP3A	X	7.38	1.5
59	MP3A	Z	-12.782	1.5
60	MP3A	Mx	.004	1.5
61	MP3B	X	5.195	1.5
62	MP3B	Z	-8.998	1.5
63	MP3B	Mx	-.005	1.5
64	MP3C	X	7.38	1.5
65	MP3C	Z	-12.782	1.5
66	MP3C	Mx	.004	1.5
67	MP1A	X	13.615	.25
68	MP1A	Z	-23.582	.25
69	MP1A	Mx	-.007	.25
70	MP1A	X	13.615	3.75
71	MP1A	Z	-23.582	3.75
72	MP1A	Mx	-.007	3.75
73	MP1B	X	8.896	.25
74	MP1B	Z	-15.408	.25
75	MP1B	Mx	.009	.25
76	MP1B	X	8.896	3.75
77	MP1B	Z	-15.408	3.75
78	MP1B	Mx	.009	3.75
79	MP1C	X	13.615	.25
80	MP1C	Z	-23.582	.25
81	MP1C	Mx	-.007	.25
82	MP1C	X	13.615	3.75
83	MP1C	Z	-23.582	3.75
84	MP1C	Mx	-.007	3.75
85	MP2A	X	7.491	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP2A	Z	-12.975	2.5
87	MP2A	Mx	.004	2.5
88	MP2B	X	5.639	2.5
89	MP2B	Z	-9.768	2.5
90	MP2B	Mx	-.006	2.5
91	MP2C	X	7.491	2.5
92	MP2C	Z	-12.975	2.5
93	MP2C	Mx	.004	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	21.461	1.25
2	MP2A	Z	-12.39	1.25
3	MP2A	Mx	-.018	1.25
4	MP2A	X	21.461	4.75
5	MP2A	Z	-12.39	4.75
6	MP2A	Mx	-.018	4.75
7	MP2B	X	21.461	1.25
8	MP2B	Z	-12.39	1.25
9	MP2B	Mx	.004	1.25
10	MP2B	X	21.461	4.75
11	MP2B	Z	-12.39	4.75
12	MP2B	Mx	.004	4.75
13	MP2C	X	27.975	1.25
14	MP2C	Z	-16.151	1.25
15	MP2C	Mx	.019	1.25
16	MP2C	X	27.975	4.75
17	MP2C	Z	-16.151	4.75
18	MP2C	Mx	.019	4.75
19	MP2A	X	21.461	1.25
20	MP2A	Z	-12.39	1.25
21	MP2A	Mx	-.004	1.25
22	MP2A	X	21.461	4.75
23	MP2A	Z	-12.39	4.75
24	MP2A	Mx	-.004	4.75
25	MP2B	X	21.461	1.25
26	MP2B	Z	-12.39	1.25
27	MP2B	Mx	.018	1.25
28	MP2B	X	21.461	4.75
29	MP2B	Z	-12.39	4.75
30	MP2B	Mx	.018	4.75
31	MP2C	X	27.975	1.25
32	MP2C	Z	-16.151	1.25
33	MP2C	Mx	-.019	1.25
34	MP2C	X	27.975	4.75
35	MP2C	Z	-16.151	4.75
36	MP2C	Mx	-.019	4.75
37	MP4A	X	9.489	1.25
38	MP4A	Z	-5.478	1.25
39	MP4A	Mx	-.005	1.25
40	MP4A	X	9.489	2.75
41	MP4A	Z	-5.478	2.75
42	MP4A	Mx	-.005	2.75
43	MP4B	X	9.489	1.25
44	MP4B	Z	-5.478	1.25
45	MP4B	Mx	.005	1.25





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
46	MP4B	X	9.489	2.75
47	MP4B	Z	-5.478	2.75
48	MP4B	Mx	.005	2.75
49	MP4C	X	16.665	1.25
50	MP4C	Z	-9.621	1.25
51	MP4C	Mx	0	1.25
52	MP4C	X	16.665	2.75
53	MP4C	Z	-9.621	2.75
54	MP4C	Mx	0	2.75
55	MP1A	X	24.143	1.5
56	MP1A	Z	-13.939	1.5
57	MP1A	Mx	.012	1.5
58	MP3A	X	10.259	1.5
59	MP3A	Z	-5.923	1.5
60	MP3A	Mx	.005	1.5
61	MP3B	X	10.259	1.5
62	MP3B	Z	-5.923	1.5
63	MP3B	Mx	-.005	1.5
64	MP3C	X	14.043	1.5
65	MP3C	Z	-8.108	1.5
66	MP3C	Mx	0	1.5
67	MP1A	X	18.132	.25
68	MP1A	Z	-10.469	.25
69	MP1A	Mx	-.009	.25
70	MP1A	X	18.132	3.75
71	MP1A	Z	-10.469	3.75
72	MP1A	Mx	-.009	3.75
73	MP1B	X	18.132	.25
74	MP1B	Z	-10.469	.25
75	MP1B	Mx	.009	.25
76	MP1B	X	18.132	3.75
77	MP1B	Z	-10.469	3.75
78	MP1B	Mx	.009	3.75
79	MP1C	X	26.306	.25
80	MP1C	Z	-15.188	.25
81	MP1C	Mx	0	.25
82	MP1C	X	26.306	3.75
83	MP1C	Z	-15.188	3.75
84	MP1C	Mx	0	3.75
85	MP2A	X	10.837	2.5
86	MP2A	Z	-6.257	2.5
87	MP2A	Mx	.005	2.5
88	MP2B	X	10.837	2.5
89	MP2B	Z	-6.257	2.5
90	MP2B	Mx	-.005	2.5
91	MP2C	X	14.043	2.5
92	MP2C	Z	-8.108	2.5
93	MP2C	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	22.274	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	-.011	1.25
4	MP2A	X	22.274	4.75
5	MP2A	Z	0	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP2A	Mx	-.011	4.75
7	MP2B	X	29.796	1.25
8	MP2B	Z	0	1.25
9	MP2B	Mx	-.008	1.25
10	MP2B	X	29.796	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	-.008	4.75
13	MP2C	X	29.796	1.25
14	MP2C	Z	0	1.25
15	MP2C	Mx	.023	1.25
16	MP2C	X	29.796	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	.023	4.75
19	MP2A	X	22.274	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	-.011	1.25
22	MP2A	X	22.274	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	-.011	4.75
25	MP2B	X	29.796	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	.023	1.25
28	MP2B	X	29.796	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	.023	4.75
31	MP2C	X	29.796	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	-.008	1.25
34	MP2C	X	29.796	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	-.008	4.75
37	MP4A	X	8.195	1.25
38	MP4A	Z	0	1.25
39	MP4A	Mx	-.004	1.25
40	MP4A	X	8.195	2.75
41	MP4A	Z	0	2.75
42	MP4A	Mx	-.004	2.75
43	MP4B	X	16.481	1.25
44	MP4B	Z	0	1.25
45	MP4B	Mx	.004	1.25
46	MP4B	X	16.481	2.75
47	MP4B	Z	0	2.75
48	MP4B	Mx	.004	2.75
49	MP4C	X	16.481	1.25
50	MP4C	Z	0	1.25
51	MP4C	Mx	.004	1.25
52	MP4C	X	16.481	2.75
53	MP4C	Z	0	2.75
54	MP4C	Mx	.004	2.75
55	MP1A	X	26.061	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	.013	1.5
58	MP3A	X	10.39	1.5
59	MP3A	Z	0	1.5
60	MP3A	Mx	.005	1.5
61	MP3B	X	14.76	1.5
62	MP3B	Z	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP3B	Mx	-.004	1.5
64	MP3C	X	14.76	1.5
65	MP3C	Z	0	1.5
66	MP3C	Mx	-.004	1.5
67	MP1A	X	17.791	.25
68	MP1A	Z	0	.25
69	MP1A	Mx	-.009	.25
70	MP1A	X	17.791	3.75
71	MP1A	Z	0	3.75
72	MP1A	Mx	-.009	3.75
73	MP1B	X	27.23	.25
74	MP1B	Z	0	.25
75	MP1B	Mx	.007	.25
76	MP1B	X	27.23	3.75
77	MP1B	Z	0	3.75
78	MP1B	Mx	.007	3.75
79	MP1C	X	27.23	.25
80	MP1C	Z	0	.25
81	MP1C	Mx	.007	.25
82	MP1C	X	27.23	3.75
83	MP1C	Z	0	3.75
84	MP1C	Mx	.007	3.75
85	MP2A	X	11.279	2.5
86	MP2A	Z	0	2.5
87	MP2A	Mx	.006	2.5
88	MP2B	X	14.982	2.5
89	MP2B	Z	0	2.5
90	MP2B	Mx	-.004	2.5
91	MP2C	X	14.982	2.5
92	MP2C	Z	0	2.5
93	MP2C	Mx	-.004	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	21.461	1.25
2	MP2A	Z	12.39	1.25
3	MP2A	Mx	-.004	1.25
4	MP2A	X	21.461	4.75
5	MP2A	Z	12.39	4.75
6	MP2A	Mx	-.004	4.75
7	MP2B	X	27.975	1.25
8	MP2B	Z	16.151	1.25
9	MP2B	Mx	-.019	1.25
10	MP2B	X	27.975	4.75
11	MP2B	Z	16.151	4.75
12	MP2B	Mx	-.019	4.75
13	MP2C	X	21.461	1.25
14	MP2C	Z	12.39	1.25
15	MP2C	Mx	.018	1.25
16	MP2C	X	21.461	4.75
17	MP2C	Z	12.39	4.75
18	MP2C	Mx	.018	4.75
19	MP2A	X	21.461	1.25
20	MP2A	Z	12.39	1.25
21	MP2A	Mx	-.018	1.25
22	MP2A	X	21.461	4.75



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP2A	Z	12.39	4.75
24	MP2A	Mx	-.018	4.75
25	MP2B	X	27.975	1.25
26	MP2B	Z	16.151	1.25
27	MP2B	Mx	.019	1.25
28	MP2B	X	27.975	4.75
29	MP2B	Z	16.151	4.75
30	MP2B	Mx	.019	4.75
31	MP2C	X	21.461	1.25
32	MP2C	Z	12.39	1.25
33	MP2C	Mx	.004	1.25
34	MP2C	X	21.461	4.75
35	MP2C	Z	12.39	4.75
36	MP2C	Mx	.004	4.75
37	MP4A	X	9.489	1.25
38	MP4A	Z	5.478	1.25
39	MP4A	Mx	-.005	1.25
40	MP4A	X	9.489	2.75
41	MP4A	Z	5.478	2.75
42	MP4A	Mx	-.005	2.75
43	MP4B	X	16.665	1.25
44	MP4B	Z	9.621	1.25
45	MP4B	Mx	0	1.25
46	MP4B	X	16.665	2.75
47	MP4B	Z	9.621	2.75
48	MP4B	Mx	0	2.75
49	MP4C	X	9.489	1.25
50	MP4C	Z	5.478	1.25
51	MP4C	Mx	.005	1.25
52	MP4C	X	9.489	2.75
53	MP4C	Z	5.478	2.75
54	MP4C	Mx	.005	2.75
55	MP1A	X	24.143	1.5
56	MP1A	Z	13.939	1.5
57	MP1A	Mx	.012	1.5
58	MP3A	X	10.259	1.5
59	MP3A	Z	5.923	1.5
60	MP3A	Mx	.005	1.5
61	MP3B	X	14.043	1.5
62	MP3B	Z	8.108	1.5
63	MP3B	Mx	0	1.5
64	MP3C	X	10.259	1.5
65	MP3C	Z	5.923	1.5
66	MP3C	Mx	-.005	1.5
67	MP1A	X	18.132	.25
68	MP1A	Z	10.469	.25
69	MP1A	Mx	-.009	.25
70	MP1A	X	18.132	3.75
71	MP1A	Z	10.469	3.75
72	MP1A	Mx	-.009	3.75
73	MP1B	X	26.306	.25
74	MP1B	Z	15.188	.25
75	MP1B	Mx	0	.25
76	MP1B	X	26.306	3.75
77	MP1B	Z	15.188	3.75
78	MP1B	Mx	0	3.75
79	MP1C	X	18.132	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
80	MP1C	Z	10.469	.25
81	MP1C	Mx	.009	.25
82	MP1C	X	18.132	3.75
83	MP1C	Z	10.469	3.75
84	MP1C	Mx	.009	3.75
85	MP2A	X	10.837	2.5
86	MP2A	Z	6.257	2.5
87	MP2A	Mx	.005	2.5
88	MP2B	X	14.043	2.5
89	MP2B	Z	8.108	2.5
90	MP2B	Mx	0	2.5
91	MP2C	X	10.837	2.5
92	MP2C	Z	6.257	2.5
93	MP2C	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	14.898	1.25
2	MP2A	Z	25.804	1.25
3	MP2A	Mx	.008	1.25
4	MP2A	X	14.898	4.75
5	MP2A	Z	25.804	4.75
6	MP2A	Mx	.008	4.75
7	MP2B	X	14.898	1.25
8	MP2B	Z	25.804	1.25
9	MP2B	Mx	-.023	1.25
10	MP2B	X	14.898	4.75
11	MP2B	Z	25.804	4.75
12	MP2B	Mx	-.023	4.75
13	MP2C	X	11.137	1.25
14	MP2C	Z	19.289	1.25
15	MP2C	Mx	.011	1.25
16	MP2C	X	11.137	4.75
17	MP2C	Z	19.289	4.75
18	MP2C	Mx	.011	4.75
19	MP2A	X	14.898	1.25
20	MP2A	Z	25.804	1.25
21	MP2A	Mx	-.023	1.25
22	MP2A	X	14.898	4.75
23	MP2A	Z	25.804	4.75
24	MP2A	Mx	-.023	4.75
25	MP2B	X	14.898	1.25
26	MP2B	Z	25.804	1.25
27	MP2B	Mx	.008	1.25
28	MP2B	X	14.898	4.75
29	MP2B	Z	25.804	4.75
30	MP2B	Mx	.008	4.75
31	MP2C	X	11.137	1.25
32	MP2C	Z	19.289	1.25
33	MP2C	Mx	.011	1.25
34	MP2C	X	11.137	4.75
35	MP2C	Z	19.289	4.75
36	MP2C	Mx	.011	4.75
37	MP4A	X	8.24	1.25
38	MP4A	Z	14.273	1.25
39	MP4A	Mx	-.004	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
40	MP4A	X	8.24	2.75
41	MP4A	Z	14.273	2.75
42	MP4A	Mx	-.004	2.75
43	MP4B	X	8.24	1.25
44	MP4B	Z	14.273	1.25
45	MP4B	Mx	-.004	1.25
46	MP4B	X	8.24	2.75
47	MP4B	Z	14.273	2.75
48	MP4B	Mx	-.004	2.75
49	MP4C	X	4.098	1.25
50	MP4C	Z	7.097	1.25
51	MP4C	Mx	.004	1.25
52	MP4C	X	4.098	2.75
53	MP4C	Z	7.097	2.75
54	MP4C	Mx	.004	2.75
55	MP1A	X	15.756	1.5
56	MP1A	Z	27.29	1.5
57	MP1A	Mx	.008	1.5
58	MP3A	X	7.38	1.5
59	MP3A	Z	12.782	1.5
60	MP3A	Mx	.004	1.5
61	MP3B	X	7.38	1.5
62	MP3B	Z	12.782	1.5
63	MP3B	Mx	.004	1.5
64	MP3C	X	5.195	1.5
65	MP3C	Z	8.998	1.5
66	MP3C	Mx	-.005	1.5
67	MP1A	X	13.615	.25
68	MP1A	Z	23.582	.25
69	MP1A	Mx	-.007	.25
70	MP1A	X	13.615	3.75
71	MP1A	Z	23.582	3.75
72	MP1A	Mx	-.007	3.75
73	MP1B	X	13.615	.25
74	MP1B	Z	23.582	.25
75	MP1B	Mx	-.007	.25
76	MP1B	X	13.615	3.75
77	MP1B	Z	23.582	3.75
78	MP1B	Mx	-.007	3.75
79	MP1C	X	8.896	.25
80	MP1C	Z	15.408	.25
81	MP1C	Mx	.009	.25
82	MP1C	X	8.896	3.75
83	MP1C	Z	15.408	3.75
84	MP1C	Mx	.009	3.75
85	MP2A	X	7.491	2.5
86	MP2A	Z	12.975	2.5
87	MP2A	Mx	.004	2.5
88	MP2B	X	7.491	2.5
89	MP2B	Z	12.975	2.5
90	MP2B	Mx	.004	2.5
91	MP2C	X	5.639	2.5
92	MP2C	Z	9.768	2.5
93	MP2C	Mx	-.006	2.5

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	1.25
2	MP2A	Z	32.303	1.25
3	MP2A	Mx	.019	1.25
4	MP2A	X	0	4.75
5	MP2A	Z	32.303	4.75
6	MP2A	Mx	.019	4.75
7	MP2B	X	0	1.25
8	MP2B	Z	24.781	1.25
9	MP2B	Mx	-.018	1.25
10	MP2B	X	0	4.75
11	MP2B	Z	24.781	4.75
12	MP2B	Mx	-.018	4.75
13	MP2C	X	0	1.25
14	MP2C	Z	24.781	1.25
15	MP2C	Mx	.004	1.25
16	MP2C	X	0	4.75
17	MP2C	Z	24.781	4.75
18	MP2C	Mx	.004	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	32.303	1.25
21	MP2A	Mx	-.019	1.25
22	MP2A	X	0	4.75
23	MP2A	Z	32.303	4.75
24	MP2A	Mx	-.019	4.75
25	MP2B	X	0	1.25
26	MP2B	Z	24.781	1.25
27	MP2B	Mx	-.004	1.25
28	MP2B	X	0	4.75
29	MP2B	Z	24.781	4.75
30	MP2B	Mx	-.004	4.75
31	MP2C	X	0	1.25
32	MP2C	Z	24.781	1.25
33	MP2C	Mx	.018	1.25
34	MP2C	X	0	4.75
35	MP2C	Z	24.781	4.75
36	MP2C	Mx	.018	4.75
37	MP4A	X	0	1.25
38	MP4A	Z	19.243	1.25
39	MP4A	Mx	0	1.25
40	MP4A	X	0	2.75
41	MP4A	Z	19.243	2.75
42	MP4A	Mx	0	2.75
43	MP4B	X	0	1.25
44	MP4B	Z	10.957	1.25
45	MP4B	Mx	-.005	1.25
46	MP4B	X	0	2.75
47	MP4B	Z	10.957	2.75
48	MP4B	Mx	-.005	2.75
49	MP4C	X	0	1.25
50	MP4C	Z	10.957	1.25
51	MP4C	Mx	.005	1.25
52	MP4C	X	0	2.75
53	MP4C	Z	10.957	2.75
54	MP4C	Mx	.005	2.75
55	MP1A	X	0	1.5
56	MP1A	Z	33.329	1.5
57	MP1A	Mx	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP3A	X	0	1.5
59	MP3A	Z	16.216	1.5
60	MP3A	Mx	0	1.5
61	MP3B	X	0	1.5
62	MP3B	Z	11.847	1.5
63	MP3B	Mx	.005	1.5
64	MP3C	X	0	1.5
65	MP3C	Z	11.847	1.5
66	MP3C	Mx	-.005	1.5
67	MP1A	X	0	.25
68	MP1A	Z	30.376	.25
69	MP1A	Mx	0	.25
70	MP1A	X	0	3.75
71	MP1A	Z	30.376	3.75
72	MP1A	Mx	0	3.75
73	MP1B	X	0	.25
74	MP1B	Z	20.937	.25
75	MP1B	Mx	-.009	.25
76	MP1B	X	0	3.75
77	MP1B	Z	20.937	3.75
78	MP1B	Mx	-.009	3.75
79	MP1C	X	0	.25
80	MP1C	Z	20.937	.25
81	MP1C	Mx	.009	.25
82	MP1C	X	0	3.75
83	MP1C	Z	20.937	3.75
84	MP1C	Mx	.009	3.75
85	MP2A	X	0	2.5
86	MP2A	Z	16.216	2.5
87	MP2A	Mx	0	2.5
88	MP2B	X	0	2.5
89	MP2B	Z	12.513	2.5
90	MP2B	Mx	.005	2.5
91	MP2C	X	0	2.5
92	MP2C	Z	12.513	2.5
93	MP2C	Mx	-.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-14.898	1.25
2	MP2A	Z	25.804	1.25
3	MP2A	Mx	.023	1.25
4	MP2A	X	-14.898	4.75
5	MP2A	Z	25.804	4.75
6	MP2A	Mx	.023	4.75
7	MP2B	X	-11.137	1.25
8	MP2B	Z	19.289	1.25
9	MP2B	Mx	-.011	1.25
10	MP2B	X	-11.137	4.75
11	MP2B	Z	19.289	4.75
12	MP2B	Mx	-.011	4.75
13	MP2C	X	-14.898	1.25
14	MP2C	Z	25.804	1.25
15	MP2C	Mx	-.008	1.25
16	MP2C	X	-14.898	4.75
17	MP2C	Z	25.804	4.75





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
18	MP2C	Mx	-0.008	4.75
19	MP2A	X	-14.898	1.25
20	MP2A	Z	25.804	1.25
21	MP2A	Mx	-0.008	1.25
22	MP2A	X	-14.898	4.75
23	MP2A	Z	25.804	4.75
24	MP2A	Mx	-0.008	4.75
25	MP2B	X	-11.137	1.25
26	MP2B	Z	19.289	1.25
27	MP2B	Mx	-0.011	1.25
28	MP2B	X	-11.137	4.75
29	MP2B	Z	19.289	4.75
30	MP2B	Mx	-0.011	4.75
31	MP2C	X	-14.898	1.25
32	MP2C	Z	25.804	1.25
33	MP2C	Mx	.023	1.25
34	MP2C	X	-14.898	4.75
35	MP2C	Z	25.804	4.75
36	MP2C	Mx	.023	4.75
37	MP4A	X	-8.24	1.25
38	MP4A	Z	14.273	1.25
39	MP4A	Mx	.004	1.25
40	MP4A	X	-8.24	2.75
41	MP4A	Z	14.273	2.75
42	MP4A	Mx	.004	2.75
43	MP4B	X	-4.098	1.25
44	MP4B	Z	7.097	1.25
45	MP4B	Mx	-0.004	1.25
46	MP4B	X	-4.098	2.75
47	MP4B	Z	7.097	2.75
48	MP4B	Mx	-0.004	2.75
49	MP4C	X	-8.24	1.25
50	MP4C	Z	14.273	1.25
51	MP4C	Mx	.004	1.25
52	MP4C	X	-8.24	2.75
53	MP4C	Z	14.273	2.75
54	MP4C	Mx	.004	2.75
55	MP1A	X	-15.756	1.5
56	MP1A	Z	27.29	1.5
57	MP1A	Mx	-0.008	1.5
58	MP3A	X	-7.38	1.5
59	MP3A	Z	12.782	1.5
60	MP3A	Mx	-0.004	1.5
61	MP3B	X	-5.195	1.5
62	MP3B	Z	8.998	1.5
63	MP3B	Mx	.005	1.5
64	MP3C	X	-7.38	1.5
65	MP3C	Z	12.782	1.5
66	MP3C	Mx	-0.004	1.5
67	MP1A	X	-13.615	.25
68	MP1A	Z	23.582	.25
69	MP1A	Mx	.007	.25
70	MP1A	X	-13.615	3.75
71	MP1A	Z	23.582	3.75
72	MP1A	Mx	.007	3.75
73	MP1B	X	-8.896	.25
74	MP1B	Z	15.408	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	MP1B	Mx	-.009	.25
76	MP1B	X	-8.896	3.75
77	MP1B	Z	15.408	3.75
78	MP1B	Mx	-.009	3.75
79	MP1C	X	-13.615	.25
80	MP1C	Z	23.582	.25
81	MP1C	Mx	.007	.25
82	MP1C	X	-13.615	3.75
83	MP1C	Z	23.582	3.75
84	MP1C	Mx	.007	3.75
85	MP2A	X	-7.491	2.5
86	MP2A	Z	12.975	2.5
87	MP2A	Mx	-.004	2.5
88	MP2B	X	-5.639	2.5
89	MP2B	Z	9.768	2.5
90	MP2B	Mx	.006	2.5
91	MP2C	X	-7.491	2.5
92	MP2C	Z	12.975	2.5
93	MP2C	Mx	-.004	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-21.461	1.25
2	MP2A	Z	12.39	1.25
3	MP2A	Mx	.018	1.25
4	MP2A	X	-21.461	4.75
5	MP2A	Z	12.39	4.75
6	MP2A	Mx	.018	4.75
7	MP2B	X	-21.461	1.25
8	MP2B	Z	12.39	1.25
9	MP2B	Mx	-.004	1.25
10	MP2B	X	-21.461	4.75
11	MP2B	Z	12.39	4.75
12	MP2B	Mx	-.004	4.75
13	MP2C	X	-27.975	1.25
14	MP2C	Z	16.151	1.25
15	MP2C	Mx	-.019	1.25
16	MP2C	X	-27.975	4.75
17	MP2C	Z	16.151	4.75
18	MP2C	Mx	-.019	4.75
19	MP2A	X	-21.461	1.25
20	MP2A	Z	12.39	1.25
21	MP2A	Mx	.004	1.25
22	MP2A	X	-21.461	4.75
23	MP2A	Z	12.39	4.75
24	MP2A	Mx	.004	4.75
25	MP2B	X	-21.461	1.25
26	MP2B	Z	12.39	1.25
27	MP2B	Mx	-.018	1.25
28	MP2B	X	-21.461	4.75
29	MP2B	Z	12.39	4.75
30	MP2B	Mx	-.018	4.75
31	MP2C	X	-27.975	1.25
32	MP2C	Z	16.151	1.25
33	MP2C	Mx	.019	1.25
34	MP2C	X	-27.975	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
35	MP2C	Z	16.151	4.75
36	MP2C	Mx	.019	4.75
37	MP4A	X	-9.489	1.25
38	MP4A	Z	5.478	1.25
39	MP4A	Mx	.005	1.25
40	MP4A	X	-9.489	2.75
41	MP4A	Z	5.478	2.75
42	MP4A	Mx	.005	2.75
43	MP4B	X	-9.489	1.25
44	MP4B	Z	5.478	1.25
45	MP4B	Mx	-.005	1.25
46	MP4B	X	-9.489	2.75
47	MP4B	Z	5.478	2.75
48	MP4B	Mx	-.005	2.75
49	MP4C	X	-16.665	1.25
50	MP4C	Z	9.621	1.25
51	MP4C	Mx	0	1.25
52	MP4C	X	-16.665	2.75
53	MP4C	Z	9.621	2.75
54	MP4C	Mx	0	2.75
55	MP1A	X	-24.143	1.5
56	MP1A	Z	13.939	1.5
57	MP1A	Mx	-.012	1.5
58	MP3A	X	-10.259	1.5
59	MP3A	Z	5.923	1.5
60	MP3A	Mx	-.005	1.5
61	MP3B	X	-10.259	1.5
62	MP3B	Z	5.923	1.5
63	MP3B	Mx	.005	1.5
64	MP3C	X	-14.043	1.5
65	MP3C	Z	8.108	1.5
66	MP3C	Mx	0	1.5
67	MP1A	X	-18.132	.25
68	MP1A	Z	10.469	.25
69	MP1A	Mx	.009	.25
70	MP1A	X	-18.132	3.75
71	MP1A	Z	10.469	3.75
72	MP1A	Mx	.009	3.75
73	MP1B	X	-18.132	.25
74	MP1B	Z	10.469	.25
75	MP1B	Mx	-.009	.25
76	MP1B	X	-18.132	3.75
77	MP1B	Z	10.469	3.75
78	MP1B	Mx	-.009	3.75
79	MP1C	X	-26.306	.25
80	MP1C	Z	15.188	.25
81	MP1C	Mx	0	.25
82	MP1C	X	-26.306	3.75
83	MP1C	Z	15.188	3.75
84	MP1C	Mx	0	3.75
85	MP2A	X	-10.837	2.5
86	MP2A	Z	6.257	2.5
87	MP2A	Mx	-.005	2.5
88	MP2B	X	-10.837	2.5
89	MP2B	Z	6.257	2.5
90	MP2B	Mx	.005	2.5
91	MP2C	X	-14.043	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
92	MP2C	Z	8.108	2.5
93	MP2C	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-22.274	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	.011	1.25
4	MP2A	X	-22.274	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	.011	4.75
7	MP2B	X	-29.796	1.25
8	MP2B	Z	0	1.25
9	MP2B	Mx	.008	1.25
10	MP2B	X	-29.796	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	.008	4.75
13	MP2C	X	-29.796	1.25
14	MP2C	Z	0	1.25
15	MP2C	Mx	-.023	1.25
16	MP2C	X	-29.796	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	-.023	4.75
19	MP2A	X	-22.274	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	.011	1.25
22	MP2A	X	-22.274	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	.011	4.75
25	MP2B	X	-29.796	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	-.023	1.25
28	MP2B	X	-29.796	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	-.023	4.75
31	MP2C	X	-29.796	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	.008	1.25
34	MP2C	X	-29.796	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	.008	4.75
37	MP4A	X	-8.195	1.25
38	MP4A	Z	0	1.25
39	MP4A	Mx	.004	1.25
40	MP4A	X	-8.195	2.75
41	MP4A	Z	0	2.75
42	MP4A	Mx	.004	2.75
43	MP4B	X	-16.481	1.25
44	MP4B	Z	0	1.25
45	MP4B	Mx	-.004	1.25
46	MP4B	X	-16.481	2.75
47	MP4B	Z	0	2.75
48	MP4B	Mx	-.004	2.75
49	MP4C	X	-16.481	1.25
50	MP4C	Z	0	1.25
51	MP4C	Mx	-.004	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
52	MP4C	X	-16.481	2.75
53	MP4C	Z	0	2.75
54	MP4C	Mx	-.004	2.75
55	MP1A	X	-26.061	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	-.013	1.5
58	MP3A	X	-10.39	1.5
59	MP3A	Z	0	1.5
60	MP3A	Mx	-.005	1.5
61	MP3B	X	-14.76	1.5
62	MP3B	Z	0	1.5
63	MP3B	Mx	.004	1.5
64	MP3C	X	-14.76	1.5
65	MP3C	Z	0	1.5
66	MP3C	Mx	.004	1.5
67	MP1A	X	-17.791	.25
68	MP1A	Z	0	.25
69	MP1A	Mx	.009	.25
70	MP1A	X	-17.791	3.75
71	MP1A	Z	0	3.75
72	MP1A	Mx	.009	3.75
73	MP1B	X	-27.23	.25
74	MP1B	Z	0	.25
75	MP1B	Mx	-.007	.25
76	MP1B	X	-27.23	3.75
77	MP1B	Z	0	3.75
78	MP1B	Mx	-.007	3.75
79	MP1C	X	-27.23	.25
80	MP1C	Z	0	.25
81	MP1C	Mx	-.007	.25
82	MP1C	X	-27.23	3.75
83	MP1C	Z	0	3.75
84	MP1C	Mx	-.007	3.75
85	MP2A	X	-11.279	2.5
86	MP2A	Z	0	2.5
87	MP2A	Mx	-.006	2.5
88	MP2B	X	-14.982	2.5
89	MP2B	Z	0	2.5
90	MP2B	Mx	.004	2.5
91	MP2C	X	-14.982	2.5
92	MP2C	Z	0	2.5
93	MP2C	Mx	.004	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-21.461	1.25
2	MP2A	Z	-12.39	1.25
3	MP2A	Mx	.004	1.25
4	MP2A	X	-21.461	4.75
5	MP2A	Z	-12.39	4.75
6	MP2A	Mx	.004	4.75
7	MP2B	X	-27.975	1.25
8	MP2B	Z	-16.151	1.25
9	MP2B	Mx	.019	1.25
10	MP2B	X	-27.975	4.75
11	MP2B	Z	-16.151	4.75



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP2B	Mx	.019	4.75
13	MP2C	X	-21.461	1.25
14	MP2C	Z	-12.39	1.25
15	MP2C	Mx	-.018	1.25
16	MP2C	X	-21.461	4.75
17	MP2C	Z	-12.39	4.75
18	MP2C	Mx	-.018	4.75
19	MP2A	X	-21.461	1.25
20	MP2A	Z	-12.39	1.25
21	MP2A	Mx	.018	1.25
22	MP2A	X	-21.461	4.75
23	MP2A	Z	-12.39	4.75
24	MP2A	Mx	.018	4.75
25	MP2B	X	-27.975	1.25
26	MP2B	Z	-16.151	1.25
27	MP2B	Mx	-.019	1.25
28	MP2B	X	-27.975	4.75
29	MP2B	Z	-16.151	4.75
30	MP2B	Mx	-.019	4.75
31	MP2C	X	-21.461	1.25
32	MP2C	Z	-12.39	1.25
33	MP2C	Mx	-.004	1.25
34	MP2C	X	-21.461	4.75
35	MP2C	Z	-12.39	4.75
36	MP2C	Mx	-.004	4.75
37	MP4A	X	-9.489	1.25
38	MP4A	Z	-5.478	1.25
39	MP4A	Mx	.005	1.25
40	MP4A	X	-9.489	2.75
41	MP4A	Z	-5.478	2.75
42	MP4A	Mx	.005	2.75
43	MP4B	X	-16.665	1.25
44	MP4B	Z	-9.621	1.25
45	MP4B	Mx	0	1.25
46	MP4B	X	-16.665	2.75
47	MP4B	Z	-9.621	2.75
48	MP4B	Mx	0	2.75
49	MP4C	X	-9.489	1.25
50	MP4C	Z	-5.478	1.25
51	MP4C	Mx	-.005	1.25
52	MP4C	X	-9.489	2.75
53	MP4C	Z	-5.478	2.75
54	MP4C	Mx	-.005	2.75
55	MP1A	X	-24.143	1.5
56	MP1A	Z	-13.939	1.5
57	MP1A	Mx	-.012	1.5
58	MP3A	X	-10.259	1.5
59	MP3A	Z	-5.923	1.5
60	MP3A	Mx	-.005	1.5
61	MP3B	X	-14.043	1.5
62	MP3B	Z	-8.108	1.5
63	MP3B	Mx	0	1.5
64	MP3C	X	-10.259	1.5
65	MP3C	Z	-5.923	1.5
66	MP3C	Mx	.005	1.5
67	MP1A	X	-18.132	.25
68	MP1A	Z	-10.469	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
69	MP1A	Mx	.009	.25
70	MP1A	X	-18.132	3.75
71	MP1A	Z	-10.469	3.75
72	MP1A	Mx	.009	3.75
73	MP1B	X	-26.306	.25
74	MP1B	Z	-15.188	.25
75	MP1B	Mx	0	.25
76	MP1B	X	-26.306	3.75
77	MP1B	Z	-15.188	3.75
78	MP1B	Mx	0	3.75
79	MP1C	X	-18.132	.25
80	MP1C	Z	-10.469	.25
81	MP1C	Mx	-.009	.25
82	MP1C	X	-18.132	3.75
83	MP1C	Z	-10.469	3.75
84	MP1C	Mx	-.009	3.75
85	MP2A	X	-10.837	2.5
86	MP2A	Z	-6.257	2.5
87	MP2A	Mx	-.005	2.5
88	MP2B	X	-14.043	2.5
89	MP2B	Z	-8.108	2.5
90	MP2B	Mx	0	2.5
91	MP2C	X	-10.837	2.5
92	MP2C	Z	-6.257	2.5
93	MP2C	Mx	.005	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-14.898	1.25
2	MP2A	Z	-25.804	1.25
3	MP2A	Mx	-.008	1.25
4	MP2A	X	-14.898	4.75
5	MP2A	Z	-25.804	4.75
6	MP2A	Mx	-.008	4.75
7	MP2B	X	-14.898	1.25
8	MP2B	Z	-25.804	1.25
9	MP2B	Mx	.023	1.25
10	MP2B	X	-14.898	4.75
11	MP2B	Z	-25.804	4.75
12	MP2B	Mx	.023	4.75
13	MP2C	X	-11.137	1.25
14	MP2C	Z	-19.289	1.25
15	MP2C	Mx	-.011	1.25
16	MP2C	X	-11.137	4.75
17	MP2C	Z	-19.289	4.75
18	MP2C	Mx	-.011	4.75
19	MP2A	X	-14.898	1.25
20	MP2A	Z	-25.804	1.25
21	MP2A	Mx	.023	1.25
22	MP2A	X	-14.898	4.75
23	MP2A	Z	-25.804	4.75
24	MP2A	Mx	.023	4.75
25	MP2B	X	-14.898	1.25
26	MP2B	Z	-25.804	1.25
27	MP2B	Mx	-.008	1.25
28	MP2B	X	-14.898	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP2B	Z	-25.804	4.75
30	MP2B	Mx	-.008	4.75
31	MP2C	X	-11.137	1.25
32	MP2C	Z	-19.289	1.25
33	MP2C	Mx	-.011	1.25
34	MP2C	X	-11.137	4.75
35	MP2C	Z	-19.289	4.75
36	MP2C	Mx	-.011	4.75
37	MP4A	X	-8.24	1.25
38	MP4A	Z	-14.273	1.25
39	MP4A	Mx	.004	1.25
40	MP4A	X	-8.24	2.75
41	MP4A	Z	-14.273	2.75
42	MP4A	Mx	.004	2.75
43	MP4B	X	-8.24	1.25
44	MP4B	Z	-14.273	1.25
45	MP4B	Mx	.004	1.25
46	MP4B	X	-8.24	2.75
47	MP4B	Z	-14.273	2.75
48	MP4B	Mx	.004	2.75
49	MP4C	X	-4.098	1.25
50	MP4C	Z	-7.097	1.25
51	MP4C	Mx	-.004	1.25
52	MP4C	X	-4.098	2.75
53	MP4C	Z	-7.097	2.75
54	MP4C	Mx	-.004	2.75
55	MP1A	X	-15.756	1.5
56	MP1A	Z	-27.29	1.5
57	MP1A	Mx	-.008	1.5
58	MP3A	X	-7.38	1.5
59	MP3A	Z	-12.782	1.5
60	MP3A	Mx	-.004	1.5
61	MP3B	X	-7.38	1.5
62	MP3B	Z	-12.782	1.5
63	MP3B	Mx	-.004	1.5
64	MP3C	X	-5.195	1.5
65	MP3C	Z	-8.998	1.5
66	MP3C	Mx	.005	1.5
67	MP1A	X	-13.615	.25
68	MP1A	Z	-23.582	.25
69	MP1A	Mx	.007	.25
70	MP1A	X	-13.615	3.75
71	MP1A	Z	-23.582	3.75
72	MP1A	Mx	.007	3.75
73	MP1B	X	-13.615	.25
74	MP1B	Z	-23.582	.25
75	MP1B	Mx	.007	.25
76	MP1B	X	-13.615	3.75
77	MP1B	Z	-23.582	3.75
78	MP1B	Mx	.007	3.75
79	MP1C	X	-8.896	.25
80	MP1C	Z	-15.408	.25
81	MP1C	Mx	-.009	.25
82	MP1C	X	-8.896	3.75
83	MP1C	Z	-15.408	3.75
84	MP1C	Mx	-.009	3.75
85	MP2A	X	-7.491	2.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP2A	Z	-12.975	2.5
87	MP2A	Mx	-.004	2.5
88	MP2B	X	-7.491	2.5
89	MP2B	Z	-12.975	2.5
90	MP2B	Mx	-.004	2.5
91	MP2C	X	-5.639	2.5
92	MP2C	Z	-9.768	2.5
93	MP2C	Mx	.006	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	1.25
2	MP2A	Z	-10.544	1.25
3	MP2A	Mx	-.006	1.25
4	MP2A	X	0	4.75
5	MP2A	Z	-10.544	4.75
6	MP2A	Mx	-.006	4.75
7	MP2B	X	0	1.25
8	MP2B	Z	-7.864	1.25
9	MP2B	Mx	.006	1.25
10	MP2B	X	0	4.75
11	MP2B	Z	-7.864	4.75
12	MP2B	Mx	.006	4.75
13	MP2C	X	0	1.25
14	MP2C	Z	-7.864	1.25
15	MP2C	Mx	-.001	1.25
16	MP2C	X	0	4.75
17	MP2C	Z	-7.864	4.75
18	MP2C	Mx	-.001	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	-10.544	1.25
21	MP2A	Mx	.006	1.25
22	MP2A	X	0	4.75
23	MP2A	Z	-10.544	4.75
24	MP2A	Mx	.006	4.75
25	MP2B	X	0	1.25
26	MP2B	Z	-7.864	1.25
27	MP2B	Mx	.001	1.25
28	MP2B	X	0	4.75
29	MP2B	Z	-7.864	4.75
30	MP2B	Mx	.001	4.75
31	MP2C	X	0	1.25
32	MP2C	Z	-7.864	1.25
33	MP2C	Mx	-.006	1.25
34	MP2C	X	0	4.75
35	MP2C	Z	-7.864	4.75
36	MP2C	Mx	-.006	4.75
37	MP4A	X	0	1.25
38	MP4A	Z	-6.133	1.25
39	MP4A	Mx	0	1.25
40	MP4A	X	0	2.75
41	MP4A	Z	-6.133	2.75
42	MP4A	Mx	0	2.75
43	MP4B	X	0	1.25
44	MP4B	Z	-3.334	1.25
45	MP4B	Mx	.001	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
46	MP4B	X	0	2.75
47	MP4B	Z	-3.334	2.75
48	MP4B	Mx	.001	2.75
49	MP4C	X	0	1.25
50	MP4C	Z	-3.334	1.25
51	MP4C	Mx	-.001	1.25
52	MP4C	X	0	2.75
53	MP4C	Z	-3.334	2.75
54	MP4C	Mx	-.001	2.75
55	MP1A	X	0	1.5
56	MP1A	Z	-10.596	1.5
57	MP1A	Mx	0	1.5
58	MP3A	X	0	1.5
59	MP3A	Z	-4.881	1.5
60	MP3A	Mx	0	1.5
61	MP3B	X	0	1.5
62	MP3B	Z	-3.447	1.5
63	MP3B	Mx	-.001	1.5
64	MP3C	X	0	1.5
65	MP3C	Z	-3.447	1.5
66	MP3C	Mx	.001	1.5
67	MP1A	X	0	.25
68	MP1A	Z	-9.879	.25
69	MP1A	Mx	0	.25
70	MP1A	X	0	3.75
71	MP1A	Z	-9.879	3.75
72	MP1A	Mx	0	3.75
73	MP1B	X	0	.25
74	MP1B	Z	-6.539	.25
75	MP1B	Mx	.003	.25
76	MP1B	X	0	3.75
77	MP1B	Z	-6.539	3.75
78	MP1B	Mx	.003	3.75
79	MP1C	X	0	.25
80	MP1C	Z	-6.539	.25
81	MP1C	Mx	-.003	.25
82	MP1C	X	0	3.75
83	MP1C	Z	-6.539	3.75
84	MP1C	Mx	-.003	3.75
85	MP2A	X	0	2.5
86	MP2A	Z	-4.881	2.5
87	MP2A	Mx	0	2.5
88	MP2B	X	0	2.5
89	MP2B	Z	-3.667	2.5
90	MP2B	Mx	-.002	2.5
91	MP2C	X	0	2.5
92	MP2C	Z	-3.667	2.5
93	MP2C	Mx	.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	4.825	1.25
2	MP2A	Z	-8.358	1.25
3	MP2A	Mx	-.007	1.25
4	MP2A	X	4.825	4.75
5	MP2A	Z	-8.358	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP2A	Mx	-0.007	4.75
7	MP2B	X	3.485	1.25
8	MP2B	Z	-6.037	1.25
9	MP2B	Mx	.003	1.25
10	MP2B	X	3.485	4.75
11	MP2B	Z	-6.037	4.75
12	MP2B	Mx	.003	4.75
13	MP2C	X	4.825	1.25
14	MP2C	Z	-8.358	1.25
15	MP2C	Mx	.002	1.25
16	MP2C	X	4.825	4.75
17	MP2C	Z	-8.358	4.75
18	MP2C	Mx	.002	4.75
19	MP2A	X	4.825	1.25
20	MP2A	Z	-8.358	1.25
21	MP2A	Mx	.002	1.25
22	MP2A	X	4.825	4.75
23	MP2A	Z	-8.358	4.75
24	MP2A	Mx	.002	4.75
25	MP2B	X	3.485	1.25
26	MP2B	Z	-6.037	1.25
27	MP2B	Mx	.003	1.25
28	MP2B	X	3.485	4.75
29	MP2B	Z	-6.037	4.75
30	MP2B	Mx	.003	4.75
31	MP2C	X	4.825	1.25
32	MP2C	Z	-8.358	1.25
33	MP2C	Mx	-0.007	1.25
34	MP2C	X	4.825	4.75
35	MP2C	Z	-8.358	4.75
36	MP2C	Mx	-0.007	4.75
37	MP4A	X	2.6	1.25
38	MP4A	Z	-4.504	1.25
39	MP4A	Mx	-0.001	1.25
40	MP4A	X	2.6	2.75
41	MP4A	Z	-4.504	2.75
42	MP4A	Mx	-0.001	2.75
43	MP4B	X	1.201	1.25
44	MP4B	Z	-2.08	1.25
45	MP4B	Mx	.001	1.25
46	MP4B	X	1.201	2.75
47	MP4B	Z	-2.08	2.75
48	MP4B	Mx	.001	2.75
49	MP4C	X	2.6	1.25
50	MP4C	Z	-4.504	1.25
51	MP4C	Mx	-0.001	1.25
52	MP4C	X	2.6	2.75
53	MP4C	Z	-4.504	2.75
54	MP4C	Mx	-0.001	2.75
55	MP1A	X	4.984	1.5
56	MP1A	Z	-8.633	1.5
57	MP1A	Mx	.002	1.5
58	MP3A	X	2.201	1.5
59	MP3A	Z	-3.813	1.5
60	MP3A	Mx	.001	1.5
61	MP3B	X	1.484	1.5
62	MP3B	Z	-2.571	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP3B	Mx	-0.001	1.5
64	MP3C	X	2.201	1.5
65	MP3C	Z	-3.813	1.5
66	MP3C	Mx	.001	1.5
67	MP1A	X	4.383	.25
68	MP1A	Z	-7.591	.25
69	MP1A	Mx	-0.002	.25
70	MP1A	X	4.383	3.75
71	MP1A	Z	-7.591	3.75
72	MP1A	Mx	-0.002	3.75
73	MP1B	X	2.713	.25
74	MP1B	Z	-4.699	.25
75	MP1B	Mx	.003	.25
76	MP1B	X	2.713	3.75
77	MP1B	Z	-4.699	3.75
78	MP1B	Mx	.003	3.75
79	MP1C	X	4.383	.25
80	MP1C	Z	-7.591	.25
81	MP1C	Mx	-0.002	.25
82	MP1C	X	4.383	3.75
83	MP1C	Z	-7.591	3.75
84	MP1C	Mx	-0.002	3.75
85	MP2A	X	2.238	2.5
86	MP2A	Z	-3.876	2.5
87	MP2A	Mx	.001	2.5
88	MP2B	X	1.631	2.5
89	MP2B	Z	-2.825	2.5
90	MP2B	Mx	-0.002	2.5
91	MP2C	X	2.238	2.5
92	MP2C	Z	-3.876	2.5
93	MP2C	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	6.811	1.25
2	MP2A	Z	-3.932	1.25
3	MP2A	Mx	-0.006	1.25
4	MP2A	X	6.811	4.75
5	MP2A	Z	-3.932	4.75
6	MP2A	Mx	-0.006	4.75
7	MP2B	X	6.811	1.25
8	MP2B	Z	-3.932	1.25
9	MP2B	Mx	.001	1.25
10	MP2B	X	6.811	4.75
11	MP2B	Z	-3.932	4.75
12	MP2B	Mx	.001	4.75
13	MP2C	X	9.132	1.25
14	MP2C	Z	-5.272	1.25
15	MP2C	Mx	.006	1.25
16	MP2C	X	9.132	4.75
17	MP2C	Z	-5.272	4.75
18	MP2C	Mx	.006	4.75
19	MP2A	X	6.811	1.25
20	MP2A	Z	-3.932	1.25
21	MP2A	Mx	-0.001	1.25
22	MP2A	X	6.811	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP2A	Z	-3.932	4.75
24	MP2A	Mx	-.001	4.75
25	MP2B	X	6.811	1.25
26	MP2B	Z	-3.932	1.25
27	MP2B	Mx	.006	1.25
28	MP2B	X	6.811	4.75
29	MP2B	Z	-3.932	4.75
30	MP2B	Mx	.006	4.75
31	MP2C	X	9.132	1.25
32	MP2C	Z	-5.272	1.25
33	MP2C	Mx	-.006	1.25
34	MP2C	X	9.132	4.75
35	MP2C	Z	-5.272	4.75
36	MP2C	Mx	-.006	4.75
37	MP4A	X	2.888	1.25
38	MP4A	Z	-1.667	1.25
39	MP4A	Mx	-.001	1.25
40	MP4A	X	2.888	2.75
41	MP4A	Z	-1.667	2.75
42	MP4A	Mx	-.001	2.75
43	MP4B	X	2.888	1.25
44	MP4B	Z	-1.667	1.25
45	MP4B	Mx	.001	1.25
46	MP4B	X	2.888	2.75
47	MP4B	Z	-1.667	2.75
48	MP4B	Mx	.001	2.75
49	MP4C	X	5.312	1.25
50	MP4C	Z	-3.067	1.25
51	MP4C	Mx	0	1.25
52	MP4C	X	5.312	2.75
53	MP4C	Z	-3.067	2.75
54	MP4C	Mx	0	2.75
55	MP1A	X	7.545	1.5
56	MP1A	Z	-4.356	1.5
57	MP1A	Mx	.004	1.5
58	MP3A	X	2.985	1.5
59	MP3A	Z	-1.723	1.5
60	MP3A	Mx	.001	1.5
61	MP3B	X	2.985	1.5
62	MP3B	Z	-1.723	1.5
63	MP3B	Mx	-.001	1.5
64	MP3C	X	4.227	1.5
65	MP3C	Z	-2.44	1.5
66	MP3C	Mx	0	1.5
67	MP1A	X	5.663	.25
68	MP1A	Z	-3.27	.25
69	MP1A	Mx	-.003	.25
70	MP1A	X	5.663	3.75
71	MP1A	Z	-3.27	3.75
72	MP1A	Mx	-.003	3.75
73	MP1B	X	5.663	.25
74	MP1B	Z	-3.27	.25
75	MP1B	Mx	.003	.25
76	MP1B	X	5.663	3.75
77	MP1B	Z	-3.27	3.75
78	MP1B	Mx	.003	3.75
79	MP1C	X	8.555	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP1C	Z	-4.939	.25
81	MP1C	Mx	0	.25
82	MP1C	X	8.555	3.75
83	MP1C	Z	-4.939	3.75
84	MP1C	Mx	0	3.75
85	MP2A	X	3.176	2.5
86	MP2A	Z	-1.834	2.5
87	MP2A	Mx	.002	2.5
88	MP2B	X	3.176	2.5
89	MP2B	Z	-1.834	2.5
90	MP2B	Mx	-.002	2.5
91	MP2C	X	4.227	2.5
92	MP2C	Z	-2.44	2.5
93	MP2C	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	6.971	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	-.003	1.25
4	MP2A	X	6.971	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	-.003	4.75
7	MP2B	X	9.651	1.25
8	MP2B	Z	0	1.25
9	MP2B	Mx	-.002	1.25
10	MP2B	X	9.651	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	-.002	4.75
13	MP2C	X	9.651	1.25
14	MP2C	Z	0	1.25
15	MP2C	Mx	.007	1.25
16	MP2C	X	9.651	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	.007	4.75
19	MP2A	X	6.971	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	-.003	1.25
22	MP2A	X	6.971	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	-.003	4.75
25	MP2B	X	9.651	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	.007	1.25
28	MP2B	X	9.651	4.75
29	MP2B	Z	0	4.75
30	MP2B	Mx	.007	4.75
31	MP2C	X	9.651	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	-.002	1.25
34	MP2C	X	9.651	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	-.002	4.75
37	MP4A	X	2.401	1.25
38	MP4A	Z	0	1.25
39	MP4A	Mx	-.001	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
40	MP4A	X	2.401	2.75
41	MP4A	Z	0	2.75
42	MP4A	Mx	-.001	2.75
43	MP4B	X	5.2	1.25
44	MP4B	Z	0	1.25
45	MP4B	Mx	.001	1.25
46	MP4B	X	5.2	2.75
47	MP4B	Z	0	2.75
48	MP4B	Mx	.001	2.75
49	MP4C	X	5.2	1.25
50	MP4C	Z	0	1.25
51	MP4C	Mx	.001	1.25
52	MP4C	X	5.2	2.75
53	MP4C	Z	0	2.75
54	MP4C	Mx	.001	2.75
55	MP1A	X	8.084	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	.004	1.5
58	MP3A	X	2.969	1.5
59	MP3A	Z	0	1.5
60	MP3A	Mx	.001	1.5
61	MP3B	X	4.403	1.5
62	MP3B	Z	0	1.5
63	MP3B	Mx	-.001	1.5
64	MP3C	X	4.403	1.5
65	MP3C	Z	0	1.5
66	MP3C	Mx	-.001	1.5
67	MP1A	X	5.426	.25
68	MP1A	Z	0	.25
69	MP1A	Mx	-.003	.25
70	MP1A	X	5.426	3.75
71	MP1A	Z	0	3.75
72	MP1A	Mx	-.003	3.75
73	MP1B	X	8.766	.25
74	MP1B	Z	0	.25
75	MP1B	Mx	.002	.25
76	MP1B	X	8.766	3.75
77	MP1B	Z	0	3.75
78	MP1B	Mx	.002	3.75
79	MP1C	X	8.766	.25
80	MP1C	Z	0	.25
81	MP1C	Mx	.002	.25
82	MP1C	X	8.766	3.75
83	MP1C	Z	0	3.75
84	MP1C	Mx	.002	3.75
85	MP2A	X	3.262	2.5
86	MP2A	Z	0	2.5
87	MP2A	Mx	.002	2.5
88	MP2B	X	4.476	2.5
89	MP2B	Z	0	2.5
90	MP2B	Mx	-.001	2.5
91	MP2C	X	4.476	2.5
92	MP2C	Z	0	2.5
93	MP2C	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
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 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	6.811	1.25
2	MP2A	Z	3.932	1.25
3	MP2A	Mx	-.001	1.25
4	MP2A	X	6.811	4.75
5	MP2A	Z	3.932	4.75
6	MP2A	Mx	-.001	4.75
7	MP2B	X	9.132	1.25
8	MP2B	Z	5.272	1.25
9	MP2B	Mx	-.006	1.25
10	MP2B	X	9.132	4.75
11	MP2B	Z	5.272	4.75
12	MP2B	Mx	-.006	4.75
13	MP2C	X	6.811	1.25
14	MP2C	Z	3.932	1.25
15	MP2C	Mx	.006	1.25
16	MP2C	X	6.811	4.75
17	MP2C	Z	3.932	4.75
18	MP2C	Mx	.006	4.75
19	MP2A	X	6.811	1.25
20	MP2A	Z	3.932	1.25
21	MP2A	Mx	-.006	1.25
22	MP2A	X	6.811	4.75
23	MP2A	Z	3.932	4.75
24	MP2A	Mx	-.006	4.75
25	MP2B	X	9.132	1.25
26	MP2B	Z	5.272	1.25
27	MP2B	Mx	.006	1.25
28	MP2B	X	9.132	4.75
29	MP2B	Z	5.272	4.75
30	MP2B	Mx	.006	4.75
31	MP2C	X	6.811	1.25
32	MP2C	Z	3.932	1.25
33	MP2C	Mx	.001	1.25
34	MP2C	X	6.811	4.75
35	MP2C	Z	3.932	4.75
36	MP2C	Mx	.001	4.75
37	MP4A	X	2.888	1.25
38	MP4A	Z	1.667	1.25
39	MP4A	Mx	-.001	1.25
40	MP4A	X	2.888	2.75
41	MP4A	Z	1.667	2.75
42	MP4A	Mx	-.001	2.75
43	MP4B	X	5.312	1.25
44	MP4B	Z	3.067	1.25
45	MP4B	Mx	0	1.25
46	MP4B	X	5.312	2.75
47	MP4B	Z	3.067	2.75
48	MP4B	Mx	0	2.75
49	MP4C	X	2.888	1.25
50	MP4C	Z	1.667	1.25
51	MP4C	Mx	.001	1.25
52	MP4C	X	2.888	2.75
53	MP4C	Z	1.667	2.75
54	MP4C	Mx	.001	2.75
55	MP1A	X	7.545	1.5
56	MP1A	Z	4.356	1.5
57	MP1A	Mx	.004	1.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP3A	X	2.985	1.5
59	MP3A	Z	1.723	1.5
60	MP3A	Mx	.001	1.5
61	MP3B	X	4.227	1.5
62	MP3B	Z	2.44	1.5
63	MP3B	Mx	0	1.5
64	MP3C	X	2.985	1.5
65	MP3C	Z	1.723	1.5
66	MP3C	Mx	-.001	1.5
67	MP1A	X	5.663	.25
68	MP1A	Z	3.27	.25
69	MP1A	Mx	-.003	.25
70	MP1A	X	5.663	3.75
71	MP1A	Z	3.27	3.75
72	MP1A	Mx	-.003	3.75
73	MP1B	X	8.555	.25
74	MP1B	Z	4.939	.25
75	MP1B	Mx	0	.25
76	MP1B	X	8.555	3.75
77	MP1B	Z	4.939	3.75
78	MP1B	Mx	0	3.75
79	MP1C	X	5.663	.25
80	MP1C	Z	3.27	.25
81	MP1C	Mx	.003	.25
82	MP1C	X	5.663	3.75
83	MP1C	Z	3.27	3.75
84	MP1C	Mx	.003	3.75
85	MP2A	X	3.176	2.5
86	MP2A	Z	1.834	2.5
87	MP2A	Mx	.002	2.5
88	MP2B	X	4.227	2.5
89	MP2B	Z	2.44	2.5
90	MP2B	Mx	0	2.5
91	MP2C	X	3.176	2.5
92	MP2C	Z	1.834	2.5
93	MP2C	Mx	-.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	4.825	1.25
2	MP2A	Z	8.358	1.25
3	MP2A	Mx	.002	1.25
4	MP2A	X	4.825	4.75
5	MP2A	Z	8.358	4.75
6	MP2A	Mx	.002	4.75
7	MP2B	X	4.825	1.25
8	MP2B	Z	8.358	1.25
9	MP2B	Mx	-.007	1.25
10	MP2B	X	4.825	4.75
11	MP2B	Z	8.358	4.75
12	MP2B	Mx	-.007	4.75
13	MP2C	X	3.485	1.25
14	MP2C	Z	6.037	1.25
15	MP2C	Mx	.003	1.25
16	MP2C	X	3.485	4.75
17	MP2C	Z	6.037	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
18	MP2C	Mx	.003	4.75
19	MP2A	X	4.825	1.25
20	MP2A	Z	8.358	1.25
21	MP2A	Mx	-.007	1.25
22	MP2A	X	4.825	4.75
23	MP2A	Z	8.358	4.75
24	MP2A	Mx	-.007	4.75
25	MP2B	X	4.825	1.25
26	MP2B	Z	8.358	1.25
27	MP2B	Mx	.002	1.25
28	MP2B	X	4.825	4.75
29	MP2B	Z	8.358	4.75
30	MP2B	Mx	.002	4.75
31	MP2C	X	3.485	1.25
32	MP2C	Z	6.037	1.25
33	MP2C	Mx	.003	1.25
34	MP2C	X	3.485	4.75
35	MP2C	Z	6.037	4.75
36	MP2C	Mx	.003	4.75
37	MP4A	X	2.6	1.25
38	MP4A	Z	4.504	1.25
39	MP4A	Mx	-.001	1.25
40	MP4A	X	2.6	2.75
41	MP4A	Z	4.504	2.75
42	MP4A	Mx	-.001	2.75
43	MP4B	X	2.6	1.25
44	MP4B	Z	4.504	1.25
45	MP4B	Mx	-.001	1.25
46	MP4B	X	2.6	2.75
47	MP4B	Z	4.504	2.75
48	MP4B	Mx	-.001	2.75
49	MP4C	X	1.201	1.25
50	MP4C	Z	2.08	1.25
51	MP4C	Mx	.001	1.25
52	MP4C	X	1.201	2.75
53	MP4C	Z	2.08	2.75
54	MP4C	Mx	.001	2.75
55	MP1A	X	4.984	1.5
56	MP1A	Z	8.633	1.5
57	MP1A	Mx	.002	1.5
58	MP3A	X	2.201	1.5
59	MP3A	Z	3.813	1.5
60	MP3A	Mx	.001	1.5
61	MP3B	X	2.201	1.5
62	MP3B	Z	3.813	1.5
63	MP3B	Mx	.001	1.5
64	MP3C	X	1.484	1.5
65	MP3C	Z	2.571	1.5
66	MP3C	Mx	-.001	1.5
67	MP1A	X	4.383	.25
68	MP1A	Z	7.591	.25
69	MP1A	Mx	-.002	.25
70	MP1A	X	4.383	3.75
71	MP1A	Z	7.591	3.75
72	MP1A	Mx	-.002	3.75
73	MP1B	X	4.383	.25
74	MP1B	Z	7.591	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP1B	Mx	-.002	.25
76	MP1B	X	4.383	3.75
77	MP1B	Z	7.591	3.75
78	MP1B	Mx	-.002	3.75
79	MP1C	X	2.713	.25
80	MP1C	Z	4.699	.25
81	MP1C	Mx	.003	.25
82	MP1C	X	2.713	3.75
83	MP1C	Z	4.699	3.75
84	MP1C	Mx	.003	3.75
85	MP2A	X	2.238	2.5
86	MP2A	Z	3.876	2.5
87	MP2A	Mx	.001	2.5
88	MP2B	X	2.238	2.5
89	MP2B	Z	3.876	2.5
90	MP2B	Mx	.001	2.5
91	MP2C	X	1.631	2.5
92	MP2C	Z	2.825	2.5
93	MP2C	Mx	-.002	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.25
2	MP2A	Z	10.544	1.25
3	MP2A	Mx	.006	1.25
4	MP2A	X	0	4.75
5	MP2A	Z	10.544	4.75
6	MP2A	Mx	.006	4.75
7	MP2B	X	0	1.25
8	MP2B	Z	7.864	1.25
9	MP2B	Mx	-.006	1.25
10	MP2B	X	0	4.75
11	MP2B	Z	7.864	4.75
12	MP2B	Mx	-.006	4.75
13	MP2C	X	0	1.25
14	MP2C	Z	7.864	1.25
15	MP2C	Mx	.001	1.25
16	MP2C	X	0	4.75
17	MP2C	Z	7.864	4.75
18	MP2C	Mx	.001	4.75
19	MP2A	X	0	1.25
20	MP2A	Z	10.544	1.25
21	MP2A	Mx	-.006	1.25
22	MP2A	X	0	4.75
23	MP2A	Z	10.544	4.75
24	MP2A	Mx	-.006	4.75
25	MP2B	X	0	1.25
26	MP2B	Z	7.864	1.25
27	MP2B	Mx	-.001	1.25
28	MP2B	X	0	4.75
29	MP2B	Z	7.864	4.75
30	MP2B	Mx	-.001	4.75
31	MP2C	X	0	1.25
32	MP2C	Z	7.864	1.25
33	MP2C	Mx	.006	1.25
34	MP2C	X	0	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
35	MP2C	Z	7.864	4.75
36	MP2C	Mx	.006	4.75
37	MP4A	X	0	1.25
38	MP4A	Z	6.133	1.25
39	MP4A	Mx	0	1.25
40	MP4A	X	0	2.75
41	MP4A	Z	6.133	2.75
42	MP4A	Mx	0	2.75
43	MP4B	X	0	1.25
44	MP4B	Z	3.334	1.25
45	MP4B	Mx	-.001	1.25
46	MP4B	X	0	2.75
47	MP4B	Z	3.334	2.75
48	MP4B	Mx	-.001	2.75
49	MP4C	X	0	1.25
50	MP4C	Z	3.334	1.25
51	MP4C	Mx	.001	1.25
52	MP4C	X	0	2.75
53	MP4C	Z	3.334	2.75
54	MP4C	Mx	.001	2.75
55	MP1A	X	0	1.5
56	MP1A	Z	10.596	1.5
57	MP1A	Mx	0	1.5
58	MP3A	X	0	1.5
59	MP3A	Z	4.881	1.5
60	MP3A	Mx	0	1.5
61	MP3B	X	0	1.5
62	MP3B	Z	3.447	1.5
63	MP3B	Mx	.001	1.5
64	MP3C	X	0	1.5
65	MP3C	Z	3.447	1.5
66	MP3C	Mx	-.001	1.5
67	MP1A	X	0	.25
68	MP1A	Z	9.879	.25
69	MP1A	Mx	0	.25
70	MP1A	X	0	3.75
71	MP1A	Z	9.879	3.75
72	MP1A	Mx	0	3.75
73	MP1B	X	0	.25
74	MP1B	Z	6.539	.25
75	MP1B	Mx	-.003	.25
76	MP1B	X	0	3.75
77	MP1B	Z	6.539	3.75
78	MP1B	Mx	-.003	3.75
79	MP1C	X	0	.25
80	MP1C	Z	6.539	.25
81	MP1C	Mx	.003	.25
82	MP1C	X	0	3.75
83	MP1C	Z	6.539	3.75
84	MP1C	Mx	.003	3.75
85	MP2A	X	0	2.5
86	MP2A	Z	4.881	2.5
87	MP2A	Mx	0	2.5
88	MP2B	X	0	2.5
89	MP2B	Z	3.667	2.5
90	MP2B	Mx	.002	2.5
91	MP2C	X	0	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
92	MP2C	Z	3.667	2.5
93	MP2C	Mx	-0.02	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-4.825	1.25
2	MP2A	Z	8.358	1.25
3	MP2A	Mx	.007	1.25
4	MP2A	X	-4.825	4.75
5	MP2A	Z	8.358	4.75
6	MP2A	Mx	.007	4.75
7	MP2B	X	-3.485	1.25
8	MP2B	Z	6.037	1.25
9	MP2B	Mx	-.003	1.25
10	MP2B	X	-3.485	4.75
11	MP2B	Z	6.037	4.75
12	MP2B	Mx	-.003	4.75
13	MP2C	X	-4.825	1.25
14	MP2C	Z	8.358	1.25
15	MP2C	Mx	-.002	1.25
16	MP2C	X	-4.825	4.75
17	MP2C	Z	8.358	4.75
18	MP2C	Mx	-.002	4.75
19	MP2A	X	-4.825	1.25
20	MP2A	Z	8.358	1.25
21	MP2A	Mx	-.002	1.25
22	MP2A	X	-4.825	4.75
23	MP2A	Z	8.358	4.75
24	MP2A	Mx	-.002	4.75
25	MP2B	X	-3.485	1.25
26	MP2B	Z	6.037	1.25
27	MP2B	Mx	-.003	1.25
28	MP2B	X	-3.485	4.75
29	MP2B	Z	6.037	4.75
30	MP2B	Mx	-.003	4.75
31	MP2C	X	-4.825	1.25
32	MP2C	Z	8.358	1.25
33	MP2C	Mx	.007	1.25
34	MP2C	X	-4.825	4.75
35	MP2C	Z	8.358	4.75
36	MP2C	Mx	.007	4.75
37	MP4A	X	-2.6	1.25
38	MP4A	Z	4.504	1.25
39	MP4A	Mx	.001	1.25
40	MP4A	X	-2.6	2.75
41	MP4A	Z	4.504	2.75
42	MP4A	Mx	.001	2.75
43	MP4B	X	-1.201	1.25
44	MP4B	Z	2.08	1.25
45	MP4B	Mx	-.001	1.25
46	MP4B	X	-1.201	2.75
47	MP4B	Z	2.08	2.75
48	MP4B	Mx	-.001	2.75
49	MP4C	X	-2.6	1.25
50	MP4C	Z	4.504	1.25
51	MP4C	Mx	.001	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
52	MP4C	X	-2.6	2.75
53	MP4C	Z	4.504	2.75
54	MP4C	Mx	.001	2.75
55	MP1A	X	-4.984	1.5
56	MP1A	Z	8.633	1.5
57	MP1A	Mx	-.002	1.5
58	MP3A	X	-2.201	1.5
59	MP3A	Z	3.813	1.5
60	MP3A	Mx	-.001	1.5
61	MP3B	X	-1.484	1.5
62	MP3B	Z	2.571	1.5
63	MP3B	Mx	.001	1.5
64	MP3C	X	-2.201	1.5
65	MP3C	Z	3.813	1.5
66	MP3C	Mx	-.001	1.5
67	MP1A	X	-4.383	.25
68	MP1A	Z	7.591	.25
69	MP1A	Mx	.002	.25
70	MP1A	X	-4.383	3.75
71	MP1A	Z	7.591	3.75
72	MP1A	Mx	.002	3.75
73	MP1B	X	-2.713	.25
74	MP1B	Z	4.699	.25
75	MP1B	Mx	-.003	.25
76	MP1B	X	-2.713	3.75
77	MP1B	Z	4.699	3.75
78	MP1B	Mx	-.003	3.75
79	MP1C	X	-4.383	.25
80	MP1C	Z	7.591	.25
81	MP1C	Mx	.002	.25
82	MP1C	X	-4.383	3.75
83	MP1C	Z	7.591	3.75
84	MP1C	Mx	.002	3.75
85	MP2A	X	-2.238	2.5
86	MP2A	Z	3.876	2.5
87	MP2A	Mx	-.001	2.5
88	MP2B	X	-1.631	2.5
89	MP2B	Z	2.825	2.5
90	MP2B	Mx	.002	2.5
91	MP2C	X	-2.238	2.5
92	MP2C	Z	3.876	2.5
93	MP2C	Mx	-.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-6.811	1.25
2	MP2A	Z	3.932	1.25
3	MP2A	Mx	.006	1.25
4	MP2A	X	-6.811	4.75
5	MP2A	Z	3.932	4.75
6	MP2A	Mx	.006	4.75
7	MP2B	X	-6.811	1.25
8	MP2B	Z	3.932	1.25
9	MP2B	Mx	-.001	1.25
10	MP2B	X	-6.811	4.75
11	MP2B	Z	3.932	4.75



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
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**Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP2B	Mx	-0.001	4.75
13	MP2C	X	-9.132	1.25
14	MP2C	Z	5.272	1.25
15	MP2C	Mx	-0.006	1.25
16	MP2C	X	-9.132	4.75
17	MP2C	Z	5.272	4.75
18	MP2C	Mx	-0.006	4.75
19	MP2A	X	-6.811	1.25
20	MP2A	Z	3.932	1.25
21	MP2A	Mx	.001	1.25
22	MP2A	X	-6.811	4.75
23	MP2A	Z	3.932	4.75
24	MP2A	Mx	.001	4.75
25	MP2B	X	-6.811	1.25
26	MP2B	Z	3.932	1.25
27	MP2B	Mx	-0.006	1.25
28	MP2B	X	-6.811	4.75
29	MP2B	Z	3.932	4.75
30	MP2B	Mx	-0.006	4.75
31	MP2C	X	-9.132	1.25
32	MP2C	Z	5.272	1.25
33	MP2C	Mx	.006	1.25
34	MP2C	X	-9.132	4.75
35	MP2C	Z	5.272	4.75
36	MP2C	Mx	.006	4.75
37	MP4A	X	-2.888	1.25
38	MP4A	Z	1.667	1.25
39	MP4A	Mx	.001	1.25
40	MP4A	X	-2.888	2.75
41	MP4A	Z	1.667	2.75
42	MP4A	Mx	.001	2.75
43	MP4B	X	-2.888	1.25
44	MP4B	Z	1.667	1.25
45	MP4B	Mx	-0.001	1.25
46	MP4B	X	-2.888	2.75
47	MP4B	Z	1.667	2.75
48	MP4B	Mx	-0.001	2.75
49	MP4C	X	-5.312	1.25
50	MP4C	Z	3.067	1.25
51	MP4C	Mx	0	1.25
52	MP4C	X	-5.312	2.75
53	MP4C	Z	3.067	2.75
54	MP4C	Mx	0	2.75
55	MP1A	X	-7.545	1.5
56	MP1A	Z	4.356	1.5
57	MP1A	Mx	-0.004	1.5
58	MP3A	X	-2.985	1.5
59	MP3A	Z	1.723	1.5
60	MP3A	Mx	-0.001	1.5
61	MP3B	X	-2.985	1.5
62	MP3B	Z	1.723	1.5
63	MP3B	Mx	.001	1.5
64	MP3C	X	-4.227	1.5
65	MP3C	Z	2.44	1.5
66	MP3C	Mx	0	1.5
67	MP1A	X	-5.663	.25
68	MP1A	Z	3.27	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
69	MP1A	Mx	.003	.25
70	MP1A	X	-5.663	3.75
71	MP1A	Z	3.27	3.75
72	MP1A	Mx	.003	3.75
73	MP1B	X	-5.663	.25
74	MP1B	Z	3.27	.25
75	MP1B	Mx	-.003	.25
76	MP1B	X	-5.663	3.75
77	MP1B	Z	3.27	3.75
78	MP1B	Mx	-.003	3.75
79	MP1C	X	-8.555	.25
80	MP1C	Z	4.939	.25
81	MP1C	Mx	0	.25
82	MP1C	X	-8.555	3.75
83	MP1C	Z	4.939	3.75
84	MP1C	Mx	0	3.75
85	MP2A	X	-3.176	2.5
86	MP2A	Z	1.834	2.5
87	MP2A	Mx	-.002	2.5
88	MP2B	X	-3.176	2.5
89	MP2B	Z	1.834	2.5
90	MP2B	Mx	.002	2.5
91	MP2C	X	-4.227	2.5
92	MP2C	Z	2.44	2.5
93	MP2C	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-6.971	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	.003	1.25
4	MP2A	X	-6.971	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	.003	4.75
7	MP2B	X	-9.651	1.25
8	MP2B	Z	0	1.25
9	MP2B	Mx	.002	1.25
10	MP2B	X	-9.651	4.75
11	MP2B	Z	0	4.75
12	MP2B	Mx	.002	4.75
13	MP2C	X	-9.651	1.25
14	MP2C	Z	0	1.25
15	MP2C	Mx	-.007	1.25
16	MP2C	X	-9.651	4.75
17	MP2C	Z	0	4.75
18	MP2C	Mx	-.007	4.75
19	MP2A	X	-6.971	1.25
20	MP2A	Z	0	1.25
21	MP2A	Mx	.003	1.25
22	MP2A	X	-6.971	4.75
23	MP2A	Z	0	4.75
24	MP2A	Mx	.003	4.75
25	MP2B	X	-9.651	1.25
26	MP2B	Z	0	1.25
27	MP2B	Mx	-.007	1.25
28	MP2B	X	-9.651	4.75





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP2B	Z	0	4.75
30	MP2B	Mx	-0.007	4.75
31	MP2C	X	-9.651	1.25
32	MP2C	Z	0	1.25
33	MP2C	Mx	.002	1.25
34	MP2C	X	-9.651	4.75
35	MP2C	Z	0	4.75
36	MP2C	Mx	.002	4.75
37	MP4A	X	-2.401	1.25
38	MP4A	Z	0	1.25
39	MP4A	Mx	.001	1.25
40	MP4A	X	-2.401	2.75
41	MP4A	Z	0	2.75
42	MP4A	Mx	.001	2.75
43	MP4B	X	-5.2	1.25
44	MP4B	Z	0	1.25
45	MP4B	Mx	-0.001	1.25
46	MP4B	X	-5.2	2.75
47	MP4B	Z	0	2.75
48	MP4B	Mx	-0.001	2.75
49	MP4C	X	-5.2	1.25
50	MP4C	Z	0	1.25
51	MP4C	Mx	-0.001	1.25
52	MP4C	X	-5.2	2.75
53	MP4C	Z	0	2.75
54	MP4C	Mx	-0.001	2.75
55	MP1A	X	-8.084	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	-0.004	1.5
58	MP3A	X	-2.969	1.5
59	MP3A	Z	0	1.5
60	MP3A	Mx	-0.001	1.5
61	MP3B	X	-4.403	1.5
62	MP3B	Z	0	1.5
63	MP3B	Mx	.001	1.5
64	MP3C	X	-4.403	1.5
65	MP3C	Z	0	1.5
66	MP3C	Mx	.001	1.5
67	MP1A	X	-5.426	.25
68	MP1A	Z	0	.25
69	MP1A	Mx	.003	.25
70	MP1A	X	-5.426	3.75
71	MP1A	Z	0	3.75
72	MP1A	Mx	.003	3.75
73	MP1B	X	-8.766	.25
74	MP1B	Z	0	.25
75	MP1B	Mx	-0.002	.25
76	MP1B	X	-8.766	3.75
77	MP1B	Z	0	3.75
78	MP1B	Mx	-0.002	3.75
79	MP1C	X	-8.766	.25
80	MP1C	Z	0	.25
81	MP1C	Mx	-0.002	.25
82	MP1C	X	-8.766	3.75
83	MP1C	Z	0	3.75
84	MP1C	Mx	-0.002	3.75
85	MP2A	X	-3.262	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP2A	Z	0	2.5
87	MP2A	Mx	-0.002	2.5
88	MP2B	X	-4.476	2.5
89	MP2B	Z	0	2.5
90	MP2B	Mx	.001	2.5
91	MP2C	X	-4.476	2.5
92	MP2C	Z	0	2.5
93	MP2C	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-6.811	1.25
2	MP2A	Z	-3.932	1.25
3	MP2A	Mx	.001	1.25
4	MP2A	X	-6.811	4.75
5	MP2A	Z	-3.932	4.75
6	MP2A	Mx	.001	4.75
7	MP2B	X	-9.132	1.25
8	MP2B	Z	-5.272	1.25
9	MP2B	Mx	.006	1.25
10	MP2B	X	-9.132	4.75
11	MP2B	Z	-5.272	4.75
12	MP2B	Mx	.006	4.75
13	MP2C	X	-6.811	1.25
14	MP2C	Z	-3.932	1.25
15	MP2C	Mx	-.006	1.25
16	MP2C	X	-6.811	4.75
17	MP2C	Z	-3.932	4.75
18	MP2C	Mx	-.006	4.75
19	MP2A	X	-6.811	1.25
20	MP2A	Z	-3.932	1.25
21	MP2A	Mx	.006	1.25
22	MP2A	X	-6.811	4.75
23	MP2A	Z	-3.932	4.75
24	MP2A	Mx	.006	4.75
25	MP2B	X	-9.132	1.25
26	MP2B	Z	-5.272	1.25
27	MP2B	Mx	-.006	1.25
28	MP2B	X	-9.132	4.75
29	MP2B	Z	-5.272	4.75
30	MP2B	Mx	-.006	4.75
31	MP2C	X	-6.811	1.25
32	MP2C	Z	-3.932	1.25
33	MP2C	Mx	-.001	1.25
34	MP2C	X	-6.811	4.75
35	MP2C	Z	-3.932	4.75
36	MP2C	Mx	-.001	4.75
37	MP4A	X	-2.888	1.25
38	MP4A	Z	-1.667	1.25
39	MP4A	Mx	.001	1.25
40	MP4A	X	-2.888	2.75
41	MP4A	Z	-1.667	2.75
42	MP4A	Mx	.001	2.75
43	MP4B	X	-5.312	1.25
44	MP4B	Z	-3.067	1.25
45	MP4B	Mx	0	1.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
46	MP4B	X	-5.312	2.75
47	MP4B	Z	-3.067	2.75
48	MP4B	Mx	0	2.75
49	MP4C	X	-2.888	1.25
50	MP4C	Z	-1.667	1.25
51	MP4C	Mx	-.001	1.25
52	MP4C	X	-2.888	2.75
53	MP4C	Z	-1.667	2.75
54	MP4C	Mx	-.001	2.75
55	MP1A	X	-7.545	1.5
56	MP1A	Z	-4.356	1.5
57	MP1A	Mx	-.004	1.5
58	MP3A	X	-2.985	1.5
59	MP3A	Z	-1.723	1.5
60	MP3A	Mx	-.001	1.5
61	MP3B	X	-4.227	1.5
62	MP3B	Z	-2.44	1.5
63	MP3B	Mx	0	1.5
64	MP3C	X	-2.985	1.5
65	MP3C	Z	-1.723	1.5
66	MP3C	Mx	.001	1.5
67	MP1A	X	-5.663	.25
68	MP1A	Z	-3.27	.25
69	MP1A	Mx	.003	.25
70	MP1A	X	-5.663	3.75
71	MP1A	Z	-3.27	3.75
72	MP1A	Mx	.003	3.75
73	MP1B	X	-8.555	.25
74	MP1B	Z	-4.939	.25
75	MP1B	Mx	0	.25
76	MP1B	X	-8.555	3.75
77	MP1B	Z	-4.939	3.75
78	MP1B	Mx	0	3.75
79	MP1C	X	-5.663	.25
80	MP1C	Z	-3.27	.25
81	MP1C	Mx	-.003	.25
82	MP1C	X	-5.663	3.75
83	MP1C	Z	-3.27	3.75
84	MP1C	Mx	-.003	3.75
85	MP2A	X	-3.176	2.5
86	MP2A	Z	-1.834	2.5
87	MP2A	Mx	-.002	2.5
88	MP2B	X	-4.227	2.5
89	MP2B	Z	-2.44	2.5
90	MP2B	Mx	0	2.5
91	MP2C	X	-3.176	2.5
92	MP2C	Z	-1.834	2.5
93	MP2C	Mx	.002	2.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-4.825	1.25
2	MP2A	Z	-8.358	1.25
3	MP2A	Mx	-.002	1.25
4	MP2A	X	-4.825	4.75
5	MP2A	Z	-8.358	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP2A	Mx	-0.002	4.75
7	MP2B	X	-4.825	1.25
8	MP2B	Z	-8.358	1.25
9	MP2B	Mx	.007	1.25
10	MP2B	X	-4.825	4.75
11	MP2B	Z	-8.358	4.75
12	MP2B	Mx	.007	4.75
13	MP2C	X	-3.485	1.25
14	MP2C	Z	-6.037	1.25
15	MP2C	Mx	-.003	1.25
16	MP2C	X	-3.485	4.75
17	MP2C	Z	-6.037	4.75
18	MP2C	Mx	-.003	4.75
19	MP2A	X	-4.825	1.25
20	MP2A	Z	-8.358	1.25
21	MP2A	Mx	.007	1.25
22	MP2A	X	-4.825	4.75
23	MP2A	Z	-8.358	4.75
24	MP2A	Mx	.007	4.75
25	MP2B	X	-4.825	1.25
26	MP2B	Z	-8.358	1.25
27	MP2B	Mx	-.002	1.25
28	MP2B	X	-4.825	4.75
29	MP2B	Z	-8.358	4.75
30	MP2B	Mx	-.002	4.75
31	MP2C	X	-3.485	1.25
32	MP2C	Z	-6.037	1.25
33	MP2C	Mx	-.003	1.25
34	MP2C	X	-3.485	4.75
35	MP2C	Z	-6.037	4.75
36	MP2C	Mx	-.003	4.75
37	MP4A	X	-2.6	1.25
38	MP4A	Z	-4.504	1.25
39	MP4A	Mx	.001	1.25
40	MP4A	X	-2.6	2.75
41	MP4A	Z	-4.504	2.75
42	MP4A	Mx	.001	2.75
43	MP4B	X	-2.6	1.25
44	MP4B	Z	-4.504	1.25
45	MP4B	Mx	.001	1.25
46	MP4B	X	-2.6	2.75
47	MP4B	Z	-4.504	2.75
48	MP4B	Mx	.001	2.75
49	MP4C	X	-1.201	1.25
50	MP4C	Z	-2.08	1.25
51	MP4C	Mx	-.001	1.25
52	MP4C	X	-1.201	2.75
53	MP4C	Z	-2.08	2.75
54	MP4C	Mx	-.001	2.75
55	MP1A	X	-4.984	1.5
56	MP1A	Z	-8.633	1.5
57	MP1A	Mx	-.002	1.5
58	MP3A	X	-2.201	1.5
59	MP3A	Z	-3.813	1.5
60	MP3A	Mx	-.001	1.5
61	MP3B	X	-2.201	1.5
62	MP3B	Z	-3.813	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
63	MP3B	Mx	-0.001	1.5
64	MP3C	X	-1.484	1.5
65	MP3C	Z	-2.571	1.5
66	MP3C	Mx	.001	1.5
67	MP1A	X	-4.383	.25
68	MP1A	Z	-7.591	.25
69	MP1A	Mx	.002	.25
70	MP1A	X	-4.383	3.75
71	MP1A	Z	-7.591	3.75
72	MP1A	Mx	.002	3.75
73	MP1B	X	-4.383	.25
74	MP1B	Z	-7.591	.25
75	MP1B	Mx	.002	.25
76	MP1B	X	-4.383	3.75
77	MP1B	Z	-7.591	3.75
78	MP1B	Mx	.002	3.75
79	MP1C	X	-2.713	.25
80	MP1C	Z	-4.699	.25
81	MP1C	Mx	-0.003	.25
82	MP1C	X	-2.713	3.75
83	MP1C	Z	-4.699	3.75
84	MP1C	Mx	-0.003	3.75
85	MP2A	X	-2.238	2.5
86	MP2A	Z	-3.876	2.5
87	MP2A	Mx	-0.001	2.5
88	MP2B	X	-2.238	2.5
89	MP2B	Z	-3.876	2.5
90	MP2B	Mx	-0.001	2.5
91	MP2C	X	-1.631	2.5
92	MP2C	Z	-2.825	2.5
93	MP2C	Mx	.002	2.5

**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M1	Y	-500	%96

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M1	Y	-500	%39

**Member Point Loads (BLC 79 : Lv1)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M1	Y	-250	%100

**Member Point Loads (BLC 80 : Lv2)**

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

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft. %]	End Location[ft. %]
1	M1	Y	-11.57	-11.57	0	%100
2	M2	Y	-11.57	-11.57	0	%100
3	M3	Y	-11.57	-11.57	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
4	M4	Y	-11.57	-11.57	0 %100
5	M5	Y	-11.57	-11.57	0 %100
6	M6	Y	-11.57	-11.57	0 %100
7	M7	Y	-7.59	-7.59	0 %100
8	M8	Y	-7.59	-7.59	0 %100
9	M9	Y	-7.59	-7.59	0 %100
10	M10	Y	-7.59	-7.59	0 %100
11	M11	Y	-7.59	-7.59	0 %100
12	M12	Y	-7.59	-7.59	0 %100
13	M16	Y	-5.6	-5.6	0 %100
14	MP1A	Y	-4.962	-4.962	0 %100
15	MP3A	Y	-4.962	-4.962	0 %100
16	MP4A	Y	-4.962	-4.962	0 %100
17	MP2A	Y	-4.962	-4.962	0 %100
18	MP1C	Y	-4.962	-4.962	0 %100
19	MP3C	Y	-4.962	-4.962	0 %100
20	MP4C	Y	-4.962	-4.962	0 %100
21	MP2C	Y	-4.962	-4.962	0 %100
22	MP1B	Y	-4.962	-4.962	0 %100
23	MP3B	Y	-4.962	-4.962	0 %100
24	MP4B	Y	-4.962	-4.962	0 %100
25	MP2B	Y	-4.962	-4.962	0 %100
26	M60	Y	-5.666	-5.666	0 %100
27	M61	Y	-5.666	-5.666	0 %100
28	M62	Y	-5.666	-5.666	0 %100
29	M81	Y	-7.59	-7.59	0 %100
30	M82	Y	-7.59	-7.59	0 %100
31	M83	Y	-7.59	-7.59	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0 %100
2	M1	Z	-33.081	-33.081	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	-8.27	-8.27	0 %100
5	M3	X	0	0	0 %100
6	M3	Z	-8.27	-8.27	0 %100
7	M4	X	0	0	0 %100
8	M4	Z	-7.217	-7.217	0 %100
9	M5	X	0	0	0 %100
10	M5	Z	-3.009	-3.009	0 %100
11	M6	X	0	0	0 %100
12	M6	Z	-19.547	-19.547	0 %100
13	M7	X	0	0	0 %100
14	M7	Z	-2.451	-2.451	0 %100
15	M8	X	0	0	0 %100
16	M8	Z	-2.498	-2.498	0 %100
17	M9	X	0	0	0 %100
18	M9	Z	-9.961	-9.961	0 %100
19	M10	X	0	0	0 %100
20	M10	Z	-2.53	-2.53	0 %100
21	M11	X	0	0	0 %100
22	M11	Z	-2.482	-2.482	0 %100
23	M12	X	0	0	0 %100
24	M12	Z	-9.961	-9.961	0 %100
25	M16	X	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
26	M16	Z	-2.36	-2.36	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	-9.428	-9.428	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	-9.428	-9.428	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-9.428	-9.428	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-9.428	-9.428	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	-9.428	-9.428	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-9.428	-9.428	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-9.428	-9.428	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-9.428	-9.428	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-9.428	-9.428	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	-9.428	-9.428	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-9.428	-9.428	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	-9.428	-9.428	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	-11.413	-11.413	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	-2.853	-2.853	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	-2.853	-2.853	0	%100
57	M81	X	0	0	0	%100
58	M81	Z	-3.7	-3.7	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	-3.4	-3.4	0	%100
61	M83	X	0	0	0	%100
62	M83	Z	-14.194	-14.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	12.406	12.406	0	%100
2	M1	Z	-21.487	-21.487	0	%100
3	M2	X	12.406	12.406	0	%100
4	M2	Z	-21.487	-21.487	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	8.42	8.42	0	%100
8	M4	Z	-14.583	-14.583	0	%100
9	M5	X	.151	.151	0	%100
10	M5	Z	-.261	-.261	0	%100
11	M6	X	6.316	6.316	0	%100
12	M6	Z	-10.94	-10.94	0	%100
13	M7	X	.000103	.000103	0	%100
14	M7	Z	-.000178	-.000178	0	%100
15	M8	X	3.739	3.739	0	%100
16	M8	Z	-6.477	-6.477	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
17	M9	X	3.731	3.731	0	%100
18	M9	Z	-6.463	-6.463	0	%100
19	M10	X	3.755	3.755	0	%100
20	M10	Z	-6.504	-6.504	0	%100
21	M11	X	4e-6	4e-6	0	%100
22	M11	Z	-7e-6	-7e-6	0	%100
23	M12	X	3.716	3.716	0	%100
24	M12	Z	-6.436	-6.436	0	%100
25	M16	X	3.245	3.245	0	%100
26	M16	Z	-5.62	-5.62	0	%100
27	MP1A	X	4.714	4.714	0	%100
28	MP1A	Z	-8.165	-8.165	0	%100
29	MP3A	X	4.714	4.714	0	%100
30	MP3A	Z	-8.165	-8.165	0	%100
31	MP4A	X	4.714	4.714	0	%100
32	MP4A	Z	-8.165	-8.165	0	%100
33	MP2A	X	4.714	4.714	0	%100
34	MP2A	Z	-8.165	-8.165	0	%100
35	MP1C	X	4.714	4.714	0	%100
36	MP1C	Z	-8.165	-8.165	0	%100
37	MP3C	X	4.714	4.714	0	%100
38	MP3C	Z	-8.165	-8.165	0	%100
39	MP4C	X	4.714	4.714	0	%100
40	MP4C	Z	-8.165	-8.165	0	%100
41	MP2C	X	4.714	4.714	0	%100
42	MP2C	Z	-8.165	-8.165	0	%100
43	MP1B	X	4.714	4.714	0	%100
44	MP1B	Z	-8.165	-8.165	0	%100
45	MP3B	X	4.714	4.714	0	%100
46	MP3B	Z	-8.165	-8.165	0	%100
47	MP4B	X	4.714	4.714	0	%100
48	MP4B	Z	-8.165	-8.165	0	%100
49	MP2B	X	4.714	4.714	0	%100
50	MP2B	Z	-8.165	-8.165	0	%100
51	M60	X	4.28	4.28	0	%100
52	M60	Z	-7.413	-7.413	0	%100
53	M61	X	4.28	4.28	0	%100
54	M61	Z	-7.413	-7.413	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	5.398	5.398	0	%100
58	M81	Z	-9.35	-9.35	0	%100
59	M82	X	.001	.001	0	%100
60	M82	Z	-.002	-.002	0	%100
61	M83	X	5.248	5.248	0	%100
62	M83	Z	-9.09	-9.09	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	7.162	7.162	0	%100
2	M1	Z	-4.135	-4.135	0	%100
3	M2	X	28.649	28.649	0	%100
4	M2	Z	-16.541	-16.541	0	%100
5	M3	X	7.162	7.162	0	%100
6	M3	Z	-4.135	-4.135	0	%100
7	M4	X	16.928	16.928	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
8	M4	Z	-9.773	-9.773	0	%100
9	M5	X	6.25	6.25	0	%100
10	M5	Z	-3.608	-3.608	0	%100
11	M6	X	2.606	2.606	0	%100
12	M6	Z	-1.505	-1.505	0	%100
13	M7	X	2.191	2.191	0	%100
14	M7	Z	-1.265	-1.265	0	%100
15	M8	X	8.627	8.627	0	%100
16	M8	Z	-4.981	-4.981	0	%100
17	M9	X	2.15	2.15	0	%100
18	M9	Z	-1.241	-1.241	0	%100
19	M10	X	8.626	8.626	0	%100
20	M10	Z	-4.98	-4.98	0	%100
21	M11	X	2.164	2.164	0	%100
22	M11	Z	-1.249	-1.249	0	%100
23	M12	X	2.123	2.123	0	%100
24	M12	Z	-1.226	-1.226	0	%100
25	M16	X	7.162	7.162	0	%100
26	M16	Z	-4.135	-4.135	0	%100
27	MP1A	X	8.165	8.165	0	%100
28	MP1A	Z	-4.714	-4.714	0	%100
29	MP3A	X	8.165	8.165	0	%100
30	MP3A	Z	-4.714	-4.714	0	%100
31	MP4A	X	8.165	8.165	0	%100
32	MP4A	Z	-4.714	-4.714	0	%100
33	MP2A	X	8.165	8.165	0	%100
34	MP2A	Z	-4.714	-4.714	0	%100
35	MP1C	X	8.165	8.165	0	%100
36	MP1C	Z	-4.714	-4.714	0	%100
37	MP3C	X	8.165	8.165	0	%100
38	MP3C	Z	-4.714	-4.714	0	%100
39	MP4C	X	8.165	8.165	0	%100
40	MP4C	Z	-4.714	-4.714	0	%100
41	MP2C	X	8.165	8.165	0	%100
42	MP2C	Z	-4.714	-4.714	0	%100
43	MP1B	X	8.165	8.165	0	%100
44	MP1B	Z	-4.714	-4.714	0	%100
45	MP3B	X	8.165	8.165	0	%100
46	MP3B	Z	-4.714	-4.714	0	%100
47	MP4B	X	8.165	8.165	0	%100
48	MP4B	Z	-4.714	-4.714	0	%100
49	MP2B	X	8.165	8.165	0	%100
50	MP2B	Z	-4.714	-4.714	0	%100
51	M60	X	2.471	2.471	0	%100
52	M60	Z	-1.427	-1.427	0	%100
53	M61	X	9.884	9.884	0	%100
54	M61	Z	-5.707	-5.707	0	%100
55	M62	X	2.471	2.471	0	%100
56	M62	Z	-1.427	-1.427	0	%100
57	M81	X	12.292	12.292	0	%100
58	M81	Z	-7.097	-7.097	0	%100
59	M82	X	3.204	3.204	0	%100
60	M82	Z	-1.85	-1.85	0	%100
61	M83	X	2.944	2.944	0	%100
62	M83	Z	-1.7	-1.7	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
 3:36 PM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	24.811	24.811	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	24.811	24.811	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	12.632	12.632	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	16.839	16.839	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.302	.302	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	7.51	7.51	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	7.463	7.463	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	8e-6	8e-6	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	7.432	7.432	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	7.479	7.479	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	.000205	.000205	0	%100
24	M12	Z	0	0	0	%100
25	M16	X	5.923	5.923	0	%100
26	M16	Z	0	0	0	%100
27	MP1A	X	9.428	9.428	0	%100
28	MP1A	Z	0	0	0	%100
29	MP3A	X	9.428	9.428	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	9.428	9.428	0	%100
32	MP4A	Z	0	0	0	%100
33	MP2A	X	9.428	9.428	0	%100
34	MP2A	Z	0	0	0	%100
35	MP1C	X	9.428	9.428	0	%100
36	MP1C	Z	0	0	0	%100
37	MP3C	X	9.428	9.428	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	9.428	9.428	0	%100
40	MP4C	Z	0	0	0	%100
41	MP2C	X	9.428	9.428	0	%100
42	MP2C	Z	0	0	0	%100
43	MP1B	X	9.428	9.428	0	%100
44	MP1B	Z	0	0	0	%100
45	MP3B	X	9.428	9.428	0	%100
46	MP3B	Z	0	0	0	%100
47	MP4B	X	9.428	9.428	0	%100
48	MP4B	Z	0	0	0	%100
49	MP2B	X	9.428	9.428	0	%100
50	MP2B	Z	0	0	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	0	0	0	%100
53	M61	X	8.56	8.56	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	8.56	8.56	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	10.496	10.496	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
58	M81	Z	0	0	0	%100
59	M82	X	10.796	10.796	0	%100
60	M82	Z	0	0	0	%100
61	M83	X	.002	.002	0	%100
62	M83	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	7.162	7.162	0	%100
2	M1	Z	4.135	4.135	0	%100
3	M2	X	7.162	7.162	0	%100
4	M2	Z	4.135	4.135	0	%100
5	M3	X	28.649	28.649	0	%100
6	M3	Z	16.541	16.541	0	%100
7	M4	X	2.606	2.606	0	%100
8	M4	Z	1.505	1.505	0	%100
9	M5	X	16.928	16.928	0	%100
10	M5	Z	9.773	9.773	0	%100
11	M6	X	6.25	6.25	0	%100
12	M6	Z	3.608	3.608	0	%100
13	M7	X	8.626	8.626	0	%100
14	M7	Z	4.98	4.98	0	%100
15	M8	X	2.15	2.15	0	%100
16	M8	Z	1.241	1.241	0	%100
17	M9	X	2.164	2.164	0	%100
18	M9	Z	1.249	1.249	0	%100
19	M10	X	2.123	2.123	0	%100
20	M10	Z	1.226	1.226	0	%100
21	M11	X	8.627	8.627	0	%100
22	M11	Z	4.981	4.981	0	%100
23	M12	X	2.191	2.191	0	%100
24	M12	Z	1.265	1.265	0	%100
25	M16	X	1.554	1.554	0	%100
26	M16	Z	.897	.897	0	%100
27	MP1A	X	8.165	8.165	0	%100
28	MP1A	Z	4.714	4.714	0	%100
29	MP3A	X	8.165	8.165	0	%100
30	MP3A	Z	4.714	4.714	0	%100
31	MP4A	X	8.165	8.165	0	%100
32	MP4A	Z	4.714	4.714	0	%100
33	MP2A	X	8.165	8.165	0	%100
34	MP2A	Z	4.714	4.714	0	%100
35	MP1C	X	8.165	8.165	0	%100
36	MP1C	Z	4.714	4.714	0	%100
37	MP3C	X	8.165	8.165	0	%100
38	MP3C	Z	4.714	4.714	0	%100
39	MP4C	X	8.165	8.165	0	%100
40	MP4C	Z	4.714	4.714	0	%100
41	MP2C	X	8.165	8.165	0	%100
42	MP2C	Z	4.714	4.714	0	%100
43	MP1B	X	8.165	8.165	0	%100
44	MP1B	Z	4.714	4.714	0	%100
45	MP3B	X	8.165	8.165	0	%100
46	MP3B	Z	4.714	4.714	0	%100
47	MP4B	X	8.165	8.165	0	%100
48	MP4B	Z	4.714	4.714	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
49	MP2B	X	8.165	8.165	0	%100
50	MP2B	Z	4.714	4.714	0	%100
51	M60	X	2.471	2.471	0	%100
52	M60	Z	1.427	1.427	0	%100
53	M61	X	2.471	2.471	0	%100
54	M61	Z	1.427	1.427	0	%100
55	M62	X	9.884	9.884	0	%100
56	M62	Z	5.707	5.707	0	%100
57	M81	X	2.944	2.944	0	%100
58	M81	Z	1.7	1.7	0	%100
59	M82	X	12.292	12.292	0	%100
60	M82	Z	7.097	7.097	0	%100
61	M83	X	3.204	3.204	0	%100
62	M83	Z	1.85	1.85	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	12.406	12.406	0	%100
2	M1	Z	21.487	21.487	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	12.406	12.406	0	%100
6	M3	Z	21.487	21.487	0	%100
7	M4	X	.151	.151	0	%100
8	M4	Z	.261	.261	0	%100
9	M5	X	6.316	6.316	0	%100
10	M5	Z	10.94	10.94	0	%100
11	M6	X	8.42	8.42	0	%100
12	M6	Z	14.583	14.583	0	%100
13	M7	X	3.716	3.716	0	%100
14	M7	Z	6.436	6.436	0	%100
15	M8	X	4e-6	4e-6	0	%100
16	M8	Z	7e-6	7e-6	0	%100
17	M9	X	3.739	3.739	0	%100
18	M9	Z	6.477	6.477	0	%100
19	M10	X	.000103	.000103	0	%100
20	M10	Z	.000178	.000178	0	%100
21	M11	X	3.731	3.731	0	%100
22	M11	Z	6.463	6.463	0	%100
23	M12	X	3.755	3.755	0	%100
24	M12	Z	6.504	6.504	0	%100
25	M16	X	.006	.006	0	%100
26	M16	Z	.011	.011	0	%100
27	MP1A	X	4.714	4.714	0	%100
28	MP1A	Z	8.165	8.165	0	%100
29	MP3A	X	4.714	4.714	0	%100
30	MP3A	Z	8.165	8.165	0	%100
31	MP4A	X	4.714	4.714	0	%100
32	MP4A	Z	8.165	8.165	0	%100
33	MP2A	X	4.714	4.714	0	%100
34	MP2A	Z	8.165	8.165	0	%100
35	MP1C	X	4.714	4.714	0	%100
36	MP1C	Z	8.165	8.165	0	%100
37	MP3C	X	4.714	4.714	0	%100
38	MP3C	Z	8.165	8.165	0	%100
39	MP4C	X	4.714	4.714	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
40	MP4C	Z	8.165	8.165	0	%100
41	MP2C	X	4.714	4.714	0	%100
42	MP2C	Z	8.165	8.165	0	%100
43	MP1B	X	4.714	4.714	0	%100
44	MP1B	Z	8.165	8.165	0	%100
45	MP3B	X	4.714	4.714	0	%100
46	MP3B	Z	8.165	8.165	0	%100
47	MP4B	X	4.714	4.714	0	%100
48	MP4B	Z	8.165	8.165	0	%100
49	MP2B	X	4.714	4.714	0	%100
50	MP2B	Z	8.165	8.165	0	%100
51	M60	X	4.28	4.28	0	%100
52	M60	Z	7.413	7.413	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	4.28	4.28	0	%100
56	M62	Z	7.413	7.413	0	%100
57	M81	X	.001	.001	0	%100
58	M81	Z	.002	.002	0	%100
59	M82	X	5.248	5.248	0	%100
60	M82	Z	9.09	9.09	0	%100
61	M83	X	5.398	5.398	0	%100
62	M83	Z	9.35	9.35	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	33.081	33.081	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	8.27	8.27	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	8.27	8.27	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	7.217	7.217	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	3.009	3.009	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	19.547	19.547	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	2.451	2.451	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	2.498	2.498	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	9.961	9.961	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	2.53	2.53	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	2.482	2.482	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	9.961	9.961	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	2.36	2.36	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	9.428	9.428	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	9.428	9.428	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
31	MP4A	X	0	0	0	%100
32	MP4A	Z	9.428	9.428	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	9.428	9.428	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	9.428	9.428	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	9.428	9.428	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	9.428	9.428	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	9.428	9.428	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	9.428	9.428	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	9.428	9.428	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	9.428	9.428	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	9.428	9.428	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	11.413	11.413	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	2.853	2.853	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	2.853	2.853	0	%100
57	M81	X	0	0	0	%100
58	M81	Z	3.7	3.7	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	3.4	3.4	0	%100
61	M83	X	0	0	0	%100
62	M83	Z	14.194	14.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-12.406	-12.406	0	%100
2	M1	Z	21.487	21.487	0	%100
3	M2	X	-12.406	-12.406	0	%100
4	M2	Z	21.487	21.487	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-8.42	-8.42	0	%100
8	M4	Z	14.583	14.583	0	%100
9	M5	X	-.151	-.151	0	%100
10	M5	Z	.261	.261	0	%100
11	M6	X	-6.316	-6.316	0	%100
12	M6	Z	10.94	10.94	0	%100
13	M7	X	-.000103	-.000103	0	%100
14	M7	Z	.000178	.000178	0	%100
15	M8	X	-3.739	-3.739	0	%100
16	M8	Z	6.477	6.477	0	%100
17	M9	X	-3.731	-3.731	0	%100
18	M9	Z	6.463	6.463	0	%100
19	M10	X	-3.755	-3.755	0	%100
20	M10	Z	6.504	6.504	0	%100
21	M11	X	-4e-6	-4e-6	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
22	M11	Z	7e-6	7e-6	0	%100
23	M12	X	-3.716	-3.716	0	%100
24	M12	Z	6.436	6.436	0	%100
25	M16	X	-3.245	-3.245	0	%100
26	M16	Z	5.62	5.62	0	%100
27	MP1A	X	-4.714	-4.714	0	%100
28	MP1A	Z	8.165	8.165	0	%100
29	MP3A	X	-4.714	-4.714	0	%100
30	MP3A	Z	8.165	8.165	0	%100
31	MP4A	X	-4.714	-4.714	0	%100
32	MP4A	Z	8.165	8.165	0	%100
33	MP2A	X	-4.714	-4.714	0	%100
34	MP2A	Z	8.165	8.165	0	%100
35	MP1C	X	-4.714	-4.714	0	%100
36	MP1C	Z	8.165	8.165	0	%100
37	MP3C	X	-4.714	-4.714	0	%100
38	MP3C	Z	8.165	8.165	0	%100
39	MP4C	X	-4.714	-4.714	0	%100
40	MP4C	Z	8.165	8.165	0	%100
41	MP2C	X	-4.714	-4.714	0	%100
42	MP2C	Z	8.165	8.165	0	%100
43	MP1B	X	-4.714	-4.714	0	%100
44	MP1B	Z	8.165	8.165	0	%100
45	MP3B	X	-4.714	-4.714	0	%100
46	MP3B	Z	8.165	8.165	0	%100
47	MP4B	X	-4.714	-4.714	0	%100
48	MP4B	Z	8.165	8.165	0	%100
49	MP2B	X	-4.714	-4.714	0	%100
50	MP2B	Z	8.165	8.165	0	%100
51	M60	X	-4.28	-4.28	0	%100
52	M60	Z	7.413	7.413	0	%100
53	M61	X	-4.28	-4.28	0	%100
54	M61	Z	7.413	7.413	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	-5.398	-5.398	0	%100
58	M81	Z	9.35	9.35	0	%100
59	M82	X	-.001	-.001	0	%100
60	M82	Z	.002	.002	0	%100
61	M83	X	-5.248	-5.248	0	%100
62	M83	Z	9.09	9.09	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-7.162	-7.162	0	%100
2	M1	Z	4.135	4.135	0	%100
3	M2	X	-28.649	-28.649	0	%100
4	M2	Z	16.541	16.541	0	%100
5	M3	X	-7.162	-7.162	0	%100
6	M3	Z	4.135	4.135	0	%100
7	M4	X	-16.928	-16.928	0	%100
8	M4	Z	9.773	9.773	0	%100
9	M5	X	-6.25	-6.25	0	%100
10	M5	Z	3.608	3.608	0	%100
11	M6	X	-2.606	-2.606	0	%100
12	M6	Z	1.505	1.505	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M7	X	-2.191	-2.191	0	%100
14	M7	Z	1.265	1.265	0	%100
15	M8	X	-8.627	-8.627	0	%100
16	M8	Z	4.981	4.981	0	%100
17	M9	X	-2.15	-2.15	0	%100
18	M9	Z	1.241	1.241	0	%100
19	M10	X	-8.626	-8.626	0	%100
20	M10	Z	4.98	4.98	0	%100
21	M11	X	-2.164	-2.164	0	%100
22	M11	Z	1.249	1.249	0	%100
23	M12	X	-2.123	-2.123	0	%100
24	M12	Z	1.226	1.226	0	%100
25	M16	X	-7.162	-7.162	0	%100
26	M16	Z	4.135	4.135	0	%100
27	MP1A	X	-8.165	-8.165	0	%100
28	MP1A	Z	4.714	4.714	0	%100
29	MP3A	X	-8.165	-8.165	0	%100
30	MP3A	Z	4.714	4.714	0	%100
31	MP4A	X	-8.165	-8.165	0	%100
32	MP4A	Z	4.714	4.714	0	%100
33	MP2A	X	-8.165	-8.165	0	%100
34	MP2A	Z	4.714	4.714	0	%100
35	MP1C	X	-8.165	-8.165	0	%100
36	MP1C	Z	4.714	4.714	0	%100
37	MP3C	X	-8.165	-8.165	0	%100
38	MP3C	Z	4.714	4.714	0	%100
39	MP4C	X	-8.165	-8.165	0	%100
40	MP4C	Z	4.714	4.714	0	%100
41	MP2C	X	-8.165	-8.165	0	%100
42	MP2C	Z	4.714	4.714	0	%100
43	MP1B	X	-8.165	-8.165	0	%100
44	MP1B	Z	4.714	4.714	0	%100
45	MP3B	X	-8.165	-8.165	0	%100
46	MP3B	Z	4.714	4.714	0	%100
47	MP4B	X	-8.165	-8.165	0	%100
48	MP4B	Z	4.714	4.714	0	%100
49	MP2B	X	-8.165	-8.165	0	%100
50	MP2B	Z	4.714	4.714	0	%100
51	M60	X	-2.471	-2.471	0	%100
52	M60	Z	1.427	1.427	0	%100
53	M61	X	-9.884	-9.884	0	%100
54	M61	Z	5.707	5.707	0	%100
55	M62	X	-2.471	-2.471	0	%100
56	M62	Z	1.427	1.427	0	%100
57	M81	X	-12.292	-12.292	0	%100
58	M81	Z	7.097	7.097	0	%100
59	M82	X	-3.204	-3.204	0	%100
60	M82	Z	1.85	1.85	0	%100
61	M83	X	-2.944	-2.944	0	%100
62	M83	Z	1.7	1.7	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-24.811	-24.811	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
4	M2	Z	0	0	0 %100
5	M3	X	-24.811	-24.811	0 %100
6	M3	Z	0	0	0 %100
7	M4	X	-12.632	-12.632	0 %100
8	M4	Z	0	0	0 %100
9	M5	X	-16.839	-16.839	0 %100
10	M5	Z	0	0	0 %100
11	M6	X	-.302	-.302	0 %100
12	M6	Z	0	0	0 %100
13	M7	X	-7.51	-7.51	0 %100
14	M7	Z	0	0	0 %100
15	M8	X	-7.463	-7.463	0 %100
16	M8	Z	0	0	0 %100
17	M9	X	-8e-6	-8e-6	0 %100
18	M9	Z	0	0	0 %100
19	M10	X	-7.432	-7.432	0 %100
20	M10	Z	0	0	0 %100
21	M11	X	-7.479	-7.479	0 %100
22	M11	Z	0	0	0 %100
23	M12	X	-.000205	-.000205	0 %100
24	M12	Z	0	0	0 %100
25	M16	X	-5.923	-5.923	0 %100
26	M16	Z	0	0	0 %100
27	MP1A	X	-9.428	-9.428	0 %100
28	MP1A	Z	0	0	0 %100
29	MP3A	X	-9.428	-9.428	0 %100
30	MP3A	Z	0	0	0 %100
31	MP4A	X	-9.428	-9.428	0 %100
32	MP4A	Z	0	0	0 %100
33	MP2A	X	-9.428	-9.428	0 %100
34	MP2A	Z	0	0	0 %100
35	MP1C	X	-9.428	-9.428	0 %100
36	MP1C	Z	0	0	0 %100
37	MP3C	X	-9.428	-9.428	0 %100
38	MP3C	Z	0	0	0 %100
39	MP4C	X	-9.428	-9.428	0 %100
40	MP4C	Z	0	0	0 %100
41	MP2C	X	-9.428	-9.428	0 %100
42	MP2C	Z	0	0	0 %100
43	MP1B	X	-9.428	-9.428	0 %100
44	MP1B	Z	0	0	0 %100
45	MP3B	X	-9.428	-9.428	0 %100
46	MP3B	Z	0	0	0 %100
47	MP4B	X	-9.428	-9.428	0 %100
48	MP4B	Z	0	0	0 %100
49	MP2B	X	-9.428	-9.428	0 %100
50	MP2B	Z	0	0	0 %100
51	M60	X	0	0	0 %100
52	M60	Z	0	0	0 %100
53	M61	X	-8.56	-8.56	0 %100
54	M61	Z	0	0	0 %100
55	M62	X	-8.56	-8.56	0 %100
56	M62	Z	0	0	0 %100
57	M81	X	-10.496	-10.496	0 %100
58	M81	Z	0	0	0 %100
59	M82	X	-10.796	-10.796	0 %100
60	M82	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
61	M83	X	-0.002	-0.002	0	%100
62	M83	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-7.162	-7.162	0	%100
2	M1	Z	-4.135	-4.135	0	%100
3	M2	X	-7.162	-7.162	0	%100
4	M2	Z	-4.135	-4.135	0	%100
5	M3	X	-28.649	-28.649	0	%100
6	M3	Z	-16.541	-16.541	0	%100
7	M4	X	-2.606	-2.606	0	%100
8	M4	Z	-1.505	-1.505	0	%100
9	M5	X	-16.928	-16.928	0	%100
10	M5	Z	-9.773	-9.773	0	%100
11	M6	X	-6.25	-6.25	0	%100
12	M6	Z	-3.608	-3.608	0	%100
13	M7	X	-8.626	-8.626	0	%100
14	M7	Z	-4.98	-4.98	0	%100
15	M8	X	-2.15	-2.15	0	%100
16	M8	Z	-1.241	-1.241	0	%100
17	M9	X	-2.164	-2.164	0	%100
18	M9	Z	-1.249	-1.249	0	%100
19	M10	X	-2.123	-2.123	0	%100
20	M10	Z	-1.226	-1.226	0	%100
21	M11	X	-8.627	-8.627	0	%100
22	M11	Z	-4.981	-4.981	0	%100
23	M12	X	-2.191	-2.191	0	%100
24	M12	Z	-1.265	-1.265	0	%100
25	M16	X	-1.554	-1.554	0	%100
26	M16	Z	-.897	-.897	0	%100
27	MP1A	X	-8.165	-8.165	0	%100
28	MP1A	Z	-4.714	-4.714	0	%100
29	MP3A	X	-8.165	-8.165	0	%100
30	MP3A	Z	-4.714	-4.714	0	%100
31	MP4A	X	-8.165	-8.165	0	%100
32	MP4A	Z	-4.714	-4.714	0	%100
33	MP2A	X	-8.165	-8.165	0	%100
34	MP2A	Z	-4.714	-4.714	0	%100
35	MP1C	X	-8.165	-8.165	0	%100
36	MP1C	Z	-4.714	-4.714	0	%100
37	MP3C	X	-8.165	-8.165	0	%100
38	MP3C	Z	-4.714	-4.714	0	%100
39	MP4C	X	-8.165	-8.165	0	%100
40	MP4C	Z	-4.714	-4.714	0	%100
41	MP2C	X	-8.165	-8.165	0	%100
42	MP2C	Z	-4.714	-4.714	0	%100
43	MP1B	X	-8.165	-8.165	0	%100
44	MP1B	Z	-4.714	-4.714	0	%100
45	MP3B	X	-8.165	-8.165	0	%100
46	MP3B	Z	-4.714	-4.714	0	%100
47	MP4B	X	-8.165	-8.165	0	%100
48	MP4B	Z	-4.714	-4.714	0	%100
49	MP2B	X	-8.165	-8.165	0	%100
50	MP2B	Z	-4.714	-4.714	0	%100
51	M60	X	-2.471	-2.471	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
52	M60	Z	-1.427	-1.427	0	%100
53	M61	X	-2.471	-2.471	0	%100
54	M61	Z	-1.427	-1.427	0	%100
55	M62	X	-9.884	-9.884	0	%100
56	M62	Z	-5.707	-5.707	0	%100
57	M81	X	-2.944	-2.944	0	%100
58	M81	Z	-1.7	-1.7	0	%100
59	M82	X	-12.292	-12.292	0	%100
60	M82	Z	-7.097	-7.097	0	%100
61	M83	X	-3.204	-3.204	0	%100
62	M83	Z	-1.85	-1.85	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-12.406	-12.406	0	%100
2	M1	Z	-21.487	-21.487	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-12.406	-12.406	0	%100
6	M3	Z	-21.487	-21.487	0	%100
7	M4	X	-.151	-.151	0	%100
8	M4	Z	-.261	-.261	0	%100
9	M5	X	-6.316	-6.316	0	%100
10	M5	Z	-10.94	-10.94	0	%100
11	M6	X	-8.42	-8.42	0	%100
12	M6	Z	-14.583	-14.583	0	%100
13	M7	X	-3.716	-3.716	0	%100
14	M7	Z	-6.436	-6.436	0	%100
15	M8	X	-4e-6	-4e-6	0	%100
16	M8	Z	-7e-6	-7e-6	0	%100
17	M9	X	-3.739	-3.739	0	%100
18	M9	Z	-6.477	-6.477	0	%100
19	M10	X	-.000103	-.000103	0	%100
20	M10	Z	-.000178	-.000178	0	%100
21	M11	X	-3.731	-3.731	0	%100
22	M11	Z	-6.463	-6.463	0	%100
23	M12	X	-3.755	-3.755	0	%100
24	M12	Z	-6.504	-6.504	0	%100
25	M16	X	-.006	-.006	0	%100
26	M16	Z	-.011	-.011	0	%100
27	MP1A	X	-4.714	-4.714	0	%100
28	MP1A	Z	-8.165	-8.165	0	%100
29	MP3A	X	-4.714	-4.714	0	%100
30	MP3A	Z	-8.165	-8.165	0	%100
31	MP4A	X	-4.714	-4.714	0	%100
32	MP4A	Z	-8.165	-8.165	0	%100
33	MP2A	X	-4.714	-4.714	0	%100
34	MP2A	Z	-8.165	-8.165	0	%100
35	MP1C	X	-4.714	-4.714	0	%100
36	MP1C	Z	-8.165	-8.165	0	%100
37	MP3C	X	-4.714	-4.714	0	%100
38	MP3C	Z	-8.165	-8.165	0	%100
39	MP4C	X	-4.714	-4.714	0	%100
40	MP4C	Z	-8.165	-8.165	0	%100
41	MP2C	X	-4.714	-4.714	0	%100
42	MP2C	Z	-8.165	-8.165	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
43	MP1B	X	-4.714	-4.714	0	%100
44	MP1B	Z	-8.165	-8.165	0	%100
45	MP3B	X	-4.714	-4.714	0	%100
46	MP3B	Z	-8.165	-8.165	0	%100
47	MP4B	X	-4.714	-4.714	0	%100
48	MP4B	Z	-8.165	-8.165	0	%100
49	MP2B	X	-4.714	-4.714	0	%100
50	MP2B	Z	-8.165	-8.165	0	%100
51	M60	X	-4.28	-4.28	0	%100
52	M60	Z	-7.413	-7.413	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	-4.28	-4.28	0	%100
56	M62	Z	-7.413	-7.413	0	%100
57	M81	X	-.001	-.001	0	%100
58	M81	Z	-.002	-.002	0	%100
59	M82	X	-5.248	-5.248	0	%100
60	M82	Z	-9.09	-9.09	0	%100
61	M83	X	-5.398	-5.398	0	%100
62	M83	Z	-9.35	-9.35	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	-7.712	-7.712	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.928	-1.928	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-1.928	-1.928	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-1.672	-1.672	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-.697	-.697	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-4.529	-4.529	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-.791	-.791	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-.806	-.806	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-3.213	-3.213	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-.816	-.816	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-.801	-.801	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	-3.213	-3.213	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	-.715	-.715	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	-3.392	-3.392	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	-3.392	-3.392	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-3.392	-3.392	0	%100
33	MP2A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
34	MP2A	Z	-3.392	-3.392	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	-3.392	-3.392	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-3.392	-3.392	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-3.392	-3.392	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-3.392	-3.392	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-3.392	-3.392	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	-3.392	-3.392	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-3.392	-3.392	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	-3.392	-3.392	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	-3.754	-3.754	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	-.939	-.939	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	-.939	-.939	0	%100
57	M81	X	0	0	0	%100
58	M81	Z	-.993	-.993	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	-.912	-.912	0	%100
61	M83	X	0	0	0	%100
62	M83	Z	-3.808	-3.808	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.892	2.892	0	%100
2	M1	Z	-5.009	-5.009	0	%100
3	M2	X	2.892	2.892	0	%100
4	M2	Z	-5.009	-5.009	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	1.951	1.951	0	%100
8	M4	Z	-3.379	-3.379	0	%100
9	M5	X	.035	.035	0	%100
10	M5	Z	-.061	-.061	0	%100
11	M6	X	1.463	1.463	0	%100
12	M6	Z	-2.535	-2.535	0	%100
13	M7	X	3.3e-5	3.3e-5	0	%100
14	M7	Z	-5.7e-5	-5.7e-5	0	%100
15	M8	X	1.206	1.206	0	%100
16	M8	Z	-2.089	-2.089	0	%100
17	M9	X	1.204	1.204	0	%100
18	M9	Z	-2.085	-2.085	0	%100
19	M10	X	1.211	1.211	0	%100
20	M10	Z	-2.098	-2.098	0	%100
21	M11	X	1e-6	1e-6	0	%100
22	M11	Z	-2e-6	-2e-6	0	%100
23	M12	X	1.198	1.198	0	%100
24	M12	Z	-2.076	-2.076	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M16	X	.982	.982	0	%100
26	M16	Z	-1.702	-1.702	0	%100
27	MP1A	X	1.696	1.696	0	%100
28	MP1A	Z	-2.937	-2.937	0	%100
29	MP3A	X	1.696	1.696	0	%100
30	MP3A	Z	-2.937	-2.937	0	%100
31	MP4A	X	1.696	1.696	0	%100
32	MP4A	Z	-2.937	-2.937	0	%100
33	MP2A	X	1.696	1.696	0	%100
34	MP2A	Z	-2.937	-2.937	0	%100
35	MP1C	X	1.696	1.696	0	%100
36	MP1C	Z	-2.937	-2.937	0	%100
37	MP3C	X	1.696	1.696	0	%100
38	MP3C	Z	-2.937	-2.937	0	%100
39	MP4C	X	1.696	1.696	0	%100
40	MP4C	Z	-2.937	-2.937	0	%100
41	MP2C	X	1.696	1.696	0	%100
42	MP2C	Z	-2.937	-2.937	0	%100
43	MP1B	X	1.696	1.696	0	%100
44	MP1B	Z	-2.937	-2.937	0	%100
45	MP3B	X	1.696	1.696	0	%100
46	MP3B	Z	-2.937	-2.937	0	%100
47	MP4B	X	1.696	1.696	0	%100
48	MP4B	Z	-2.937	-2.937	0	%100
49	MP2B	X	1.696	1.696	0	%100
50	MP2B	Z	-2.937	-2.937	0	%100
51	M60	X	1.408	1.408	0	%100
52	M60	Z	-2.438	-2.438	0	%100
53	M61	X	1.408	1.408	0	%100
54	M61	Z	-2.438	-2.438	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	1.448	1.448	0	%100
58	M81	Z	-2.508	-2.508	0	%100
59	M82	X	.000284	.000284	0	%100
60	M82	Z	-.000492	-.000492	0	%100
61	M83	X	1.408	1.408	0	%100
62	M83	Z	-2.438	-2.438	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.67	1.67	0	%100
2	M1	Z	-.964	-.964	0	%100
3	M2	X	6.678	6.678	0	%100
4	M2	Z	-3.856	-3.856	0	%100
5	M3	X	1.67	1.67	0	%100
6	M3	Z	-.964	-.964	0	%100
7	M4	X	3.922	3.922	0	%100
8	M4	Z	-2.265	-2.265	0	%100
9	M5	X	1.448	1.448	0	%100
10	M5	Z	-.836	-.836	0	%100
11	M6	X	.604	.604	0	%100
12	M6	Z	-.349	-.349	0	%100
13	M7	X	.707	.707	0	%100
14	M7	Z	-.408	-.408	0	%100
15	M8	X	2.782	2.782	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
16	M8	Z	-1.606	-1.606	0	%100
17	M9	X	.693	.693	0	%100
18	M9	Z	-.4	-.4	0	%100
19	M10	X	2.782	2.782	0	%100
20	M10	Z	-1.606	-1.606	0	%100
21	M11	X	.698	.698	0	%100
22	M11	Z	-.403	-.403	0	%100
23	M12	X	.685	.685	0	%100
24	M12	Z	-.395	-.395	0	%100
25	M16	X	2.169	2.169	0	%100
26	M16	Z	-1.252	-1.252	0	%100
27	MP1A	X	2.937	2.937	0	%100
28	MP1A	Z	-1.696	-1.696	0	%100
29	MP3A	X	2.937	2.937	0	%100
30	MP3A	Z	-1.696	-1.696	0	%100
31	MP4A	X	2.937	2.937	0	%100
32	MP4A	Z	-1.696	-1.696	0	%100
33	MP2A	X	2.937	2.937	0	%100
34	MP2A	Z	-1.696	-1.696	0	%100
35	MP1C	X	2.937	2.937	0	%100
36	MP1C	Z	-1.696	-1.696	0	%100
37	MP3C	X	2.937	2.937	0	%100
38	MP3C	Z	-1.696	-1.696	0	%100
39	MP4C	X	2.937	2.937	0	%100
40	MP4C	Z	-1.696	-1.696	0	%100
41	MP2C	X	2.937	2.937	0	%100
42	MP2C	Z	-1.696	-1.696	0	%100
43	MP1B	X	2.937	2.937	0	%100
44	MP1B	Z	-1.696	-1.696	0	%100
45	MP3B	X	2.937	2.937	0	%100
46	MP3B	Z	-1.696	-1.696	0	%100
47	MP4B	X	2.937	2.937	0	%100
48	MP4B	Z	-1.696	-1.696	0	%100
49	MP2B	X	2.937	2.937	0	%100
50	MP2B	Z	-1.696	-1.696	0	%100
51	M60	X	.813	.813	0	%100
52	M60	Z	-.469	-.469	0	%100
53	M61	X	3.251	3.251	0	%100
54	M61	Z	-1.877	-1.877	0	%100
55	M62	X	.813	.813	0	%100
56	M62	Z	-.469	-.469	0	%100
57	M81	X	3.297	3.297	0	%100
58	M81	Z	-1.904	-1.904	0	%100
59	M82	X	.86	.86	0	%100
60	M82	Z	-.496	-.496	0	%100
61	M83	X	.79	.79	0	%100
62	M83	Z	-.456	-.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	5.784	5.784	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	5.784	5.784	0	%100
6	M3	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
7	M4	X	2.927	2.927	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	3.902	3.902	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.07	.07	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	2.422	2.422	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	2.407	2.407	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	3e-6	3e-6	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	2.397	2.397	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	2.412	2.412	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	6.6e-5	6.6e-5	0	%100
24	M12	Z	0	0	0	%100
25	M16	X	1.793	1.793	0	%100
26	M16	Z	0	0	0	%100
27	MP1A	X	3.392	3.392	0	%100
28	MP1A	Z	0	0	0	%100
29	MP3A	X	3.392	3.392	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	3.392	3.392	0	%100
32	MP4A	Z	0	0	0	%100
33	MP2A	X	3.392	3.392	0	%100
34	MP2A	Z	0	0	0	%100
35	MP1C	X	3.392	3.392	0	%100
36	MP1C	Z	0	0	0	%100
37	MP3C	X	3.392	3.392	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	3.392	3.392	0	%100
40	MP4C	Z	0	0	0	%100
41	MP2C	X	3.392	3.392	0	%100
42	MP2C	Z	0	0	0	%100
43	MP1B	X	3.392	3.392	0	%100
44	MP1B	Z	0	0	0	%100
45	MP3B	X	3.392	3.392	0	%100
46	MP3B	Z	0	0	0	%100
47	MP4B	X	3.392	3.392	0	%100
48	MP4B	Z	0	0	0	%100
49	MP2B	X	3.392	3.392	0	%100
50	MP2B	Z	0	0	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	0	0	0	%100
53	M61	X	2.816	2.816	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	2.816	2.816	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	2.816	2.816	0	%100
58	M81	Z	0	0	0	%100
59	M82	X	2.896	2.896	0	%100
60	M82	Z	0	0	0	%100
61	M83	X	.000568	.000568	0	%100
62	M83	Z	0	0	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.67	1.67	0	%100
2	M1	Z	.964	.964	0	%100
3	M2	X	1.67	1.67	0	%100
4	M2	Z	.964	.964	0	%100
5	M3	X	6.678	6.678	0	%100
6	M3	Z	3.856	3.856	0	%100
7	M4	X	.604	.604	0	%100
8	M4	Z	.349	.349	0	%100
9	M5	X	3.922	3.922	0	%100
10	M5	Z	2.265	2.265	0	%100
11	M6	X	1.448	1.448	0	%100
12	M6	Z	.836	.836	0	%100
13	M7	X	2.782	2.782	0	%100
14	M7	Z	1.606	1.606	0	%100
15	M8	X	.693	.693	0	%100
16	M8	Z	.4	.4	0	%100
17	M9	X	.698	.698	0	%100
18	M9	Z	.403	.403	0	%100
19	M10	X	.685	.685	0	%100
20	M10	Z	.395	.395	0	%100
21	M11	X	2.782	2.782	0	%100
22	M11	Z	1.606	1.606	0	%100
23	M12	X	.707	.707	0	%100
24	M12	Z	.408	.408	0	%100
25	M16	X	.47	.47	0	%100
26	M16	Z	.272	.272	0	%100
27	MP1A	X	2.937	2.937	0	%100
28	MP1A	Z	1.696	1.696	0	%100
29	MP3A	X	2.937	2.937	0	%100
30	MP3A	Z	1.696	1.696	0	%100
31	MP4A	X	2.937	2.937	0	%100
32	MP4A	Z	1.696	1.696	0	%100
33	MP2A	X	2.937	2.937	0	%100
34	MP2A	Z	1.696	1.696	0	%100
35	MP1C	X	2.937	2.937	0	%100
36	MP1C	Z	1.696	1.696	0	%100
37	MP3C	X	2.937	2.937	0	%100
38	MP3C	Z	1.696	1.696	0	%100
39	MP4C	X	2.937	2.937	0	%100
40	MP4C	Z	1.696	1.696	0	%100
41	MP2C	X	2.937	2.937	0	%100
42	MP2C	Z	1.696	1.696	0	%100
43	MP1B	X	2.937	2.937	0	%100
44	MP1B	Z	1.696	1.696	0	%100
45	MP3B	X	2.937	2.937	0	%100
46	MP3B	Z	1.696	1.696	0	%100
47	MP4B	X	2.937	2.937	0	%100
48	MP4B	Z	1.696	1.696	0	%100
49	MP2B	X	2.937	2.937	0	%100
50	MP2B	Z	1.696	1.696	0	%100
51	M60	X	.813	.813	0	%100
52	M60	Z	.469	.469	0	%100
53	M61	X	.813	.813	0	%100
54	M61	Z	.469	.469	0	%100
55	M62	X	3.251	3.251	0	%100
56	M62	Z	1.877	1.877	0	%100
57	M81	X	.79	.79	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
58	M81	Z	.456	.456	0	%100
59	M82	X	3.297	3.297	0	%100
60	M82	Z	1.904	1.904	0	%100
61	M83	X	.86	.86	0	%100
62	M83	Z	.496	.496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.892	2.892	0	%100
2	M1	Z	5.009	5.009	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	2.892	2.892	0	%100
6	M3	Z	5.009	5.009	0	%100
7	M4	X	.035	.035	0	%100
8	M4	Z	.061	.061	0	%100
9	M5	X	1.463	1.463	0	%100
10	M5	Z	2.535	2.535	0	%100
11	M6	X	1.951	1.951	0	%100
12	M6	Z	3.379	3.379	0	%100
13	M7	X	1.198	1.198	0	%100
14	M7	Z	2.076	2.076	0	%100
15	M8	X	1e-6	1e-6	0	%100
16	M8	Z	2e-6	2e-6	0	%100
17	M9	X	1.206	1.206	0	%100
18	M9	Z	2.089	2.089	0	%100
19	M10	X	3.3e-5	3.3e-5	0	%100
20	M10	Z	5.7e-5	5.7e-5	0	%100
21	M11	X	1.204	1.204	0	%100
22	M11	Z	2.085	2.085	0	%100
23	M12	X	1.211	1.211	0	%100
24	M12	Z	2.098	2.098	0	%100
25	M16	X	.002	.002	0	%100
26	M16	Z	.003	.003	0	%100
27	MP1A	X	1.696	1.696	0	%100
28	MP1A	Z	2.937	2.937	0	%100
29	MP3A	X	1.696	1.696	0	%100
30	MP3A	Z	2.937	2.937	0	%100
31	MP4A	X	1.696	1.696	0	%100
32	MP4A	Z	2.937	2.937	0	%100
33	MP2A	X	1.696	1.696	0	%100
34	MP2A	Z	2.937	2.937	0	%100
35	MP1C	X	1.696	1.696	0	%100
36	MP1C	Z	2.937	2.937	0	%100
37	MP3C	X	1.696	1.696	0	%100
38	MP3C	Z	2.937	2.937	0	%100
39	MP4C	X	1.696	1.696	0	%100
40	MP4C	Z	2.937	2.937	0	%100
41	MP2C	X	1.696	1.696	0	%100
42	MP2C	Z	2.937	2.937	0	%100
43	MP1B	X	1.696	1.696	0	%100
44	MP1B	Z	2.937	2.937	0	%100
45	MP3B	X	1.696	1.696	0	%100
46	MP3B	Z	2.937	2.937	0	%100
47	MP4B	X	1.696	1.696	0	%100
48	MP4B	Z	2.937	2.937	0	%100



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 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
49	MP2B	X	1.696	1.696	0	%100
50	MP2B	Z	2.937	2.937	0	%100
51	M60	X	1.408	1.408	0	%100
52	M60	Z	2.438	2.438	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	1.408	1.408	0	%100
56	M62	Z	2.438	2.438	0	%100
57	M81	X	.000284	.000284	0	%100
58	M81	Z	.000492	.000492	0	%100
59	M82	X	1.408	1.408	0	%100
60	M82	Z	2.438	2.438	0	%100
61	M83	X	1.448	1.448	0	%100
62	M83	Z	2.508	2.508	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	7.712	7.712	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.928	1.928	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	1.928	1.928	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	1.672	1.672	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	.697	.697	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	4.529	4.529	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	.791	.791	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	.806	.806	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	3.213	3.213	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	.816	.816	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	.801	.801	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	3.213	3.213	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	.715	.715	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	3.392	3.392	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	3.392	3.392	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	3.392	3.392	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	3.392	3.392	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	3.392	3.392	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	3.392	3.392	0	%100
39	MP4C	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
40	MP4C	Z	3.392	3.392	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	3.392	3.392	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	3.392	3.392	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	3.392	3.392	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	3.392	3.392	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	3.392	3.392	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	3.754	3.754	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	.939	.939	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	.939	.939	0	%100
57	M81	X	0	0	0	%100
58	M81	Z	.993	.993	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	.912	.912	0	%100
61	M83	X	0	0	0	%100
62	M83	Z	3.808	3.808	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-2.892	-2.892	0	%100
2	M1	Z	5.009	5.009	0	%100
3	M2	X	-2.892	-2.892	0	%100
4	M2	Z	5.009	5.009	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-1.951	-1.951	0	%100
8	M4	Z	3.379	3.379	0	%100
9	M5	X	-.035	-.035	0	%100
10	M5	Z	.061	.061	0	%100
11	M6	X	-1.463	-1.463	0	%100
12	M6	Z	2.535	2.535	0	%100
13	M7	X	-3.3e-5	-3.3e-5	0	%100
14	M7	Z	5.7e-5	5.7e-5	0	%100
15	M8	X	-1.206	-1.206	0	%100
16	M8	Z	2.089	2.089	0	%100
17	M9	X	-1.204	-1.204	0	%100
18	M9	Z	2.085	2.085	0	%100
19	M10	X	-1.211	-1.211	0	%100
20	M10	Z	2.098	2.098	0	%100
21	M11	X	-1e-6	-1e-6	0	%100
22	M11	Z	2e-6	2e-6	0	%100
23	M12	X	-1.198	-1.198	0	%100
24	M12	Z	2.076	2.076	0	%100
25	M16	X	-.982	-.982	0	%100
26	M16	Z	1.702	1.702	0	%100
27	MP1A	X	-1.696	-1.696	0	%100
28	MP1A	Z	2.937	2.937	0	%100
29	MP3A	X	-1.696	-1.696	0	%100
30	MP3A	Z	2.937	2.937	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
31	MP4A	X	-1.696	-1.696	0	%100
32	MP4A	Z	2.937	2.937	0	%100
33	MP2A	X	-1.696	-1.696	0	%100
34	MP2A	Z	2.937	2.937	0	%100
35	MP1C	X	-1.696	-1.696	0	%100
36	MP1C	Z	2.937	2.937	0	%100
37	MP3C	X	-1.696	-1.696	0	%100
38	MP3C	Z	2.937	2.937	0	%100
39	MP4C	X	-1.696	-1.696	0	%100
40	MP4C	Z	2.937	2.937	0	%100
41	MP2C	X	-1.696	-1.696	0	%100
42	MP2C	Z	2.937	2.937	0	%100
43	MP1B	X	-1.696	-1.696	0	%100
44	MP1B	Z	2.937	2.937	0	%100
45	MP3B	X	-1.696	-1.696	0	%100
46	MP3B	Z	2.937	2.937	0	%100
47	MP4B	X	-1.696	-1.696	0	%100
48	MP4B	Z	2.937	2.937	0	%100
49	MP2B	X	-1.696	-1.696	0	%100
50	MP2B	Z	2.937	2.937	0	%100
51	M60	X	-1.408	-1.408	0	%100
52	M60	Z	2.438	2.438	0	%100
53	M61	X	-1.408	-1.408	0	%100
54	M61	Z	2.438	2.438	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	-1.448	-1.448	0	%100
58	M81	Z	2.508	2.508	0	%100
59	M82	X	-.000284	-.000284	0	%100
60	M82	Z	.000492	.000492	0	%100
61	M83	X	-1.408	-1.408	0	%100
62	M83	Z	2.438	2.438	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-1.67	-1.67	0	%100
2	M1	Z	.964	.964	0	%100
3	M2	X	-6.678	-6.678	0	%100
4	M2	Z	3.856	3.856	0	%100
5	M3	X	-1.67	-1.67	0	%100
6	M3	Z	.964	.964	0	%100
7	M4	X	-3.922	-3.922	0	%100
8	M4	Z	2.265	2.265	0	%100
9	M5	X	-1.448	-1.448	0	%100
10	M5	Z	.836	.836	0	%100
11	M6	X	-.604	-.604	0	%100
12	M6	Z	.349	.349	0	%100
13	M7	X	-.707	-.707	0	%100
14	M7	Z	.408	.408	0	%100
15	M8	X	-2.782	-2.782	0	%100
16	M8	Z	1.606	1.606	0	%100
17	M9	X	-.693	-.693	0	%100
18	M9	Z	.4	.4	0	%100
19	M10	X	-2.782	-2.782	0	%100
20	M10	Z	1.606	1.606	0	%100
21	M11	X	-.698	-.698	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
22	M11	Z	.403	.403	0	%100
23	M12	X	-.685	-.685	0	%100
24	M12	Z	.395	.395	0	%100
25	M16	X	-2.169	-2.169	0	%100
26	M16	Z	1.252	1.252	0	%100
27	MP1A	X	-2.937	-2.937	0	%100
28	MP1A	Z	1.696	1.696	0	%100
29	MP3A	X	-2.937	-2.937	0	%100
30	MP3A	Z	1.696	1.696	0	%100
31	MP4A	X	-2.937	-2.937	0	%100
32	MP4A	Z	1.696	1.696	0	%100
33	MP2A	X	-2.937	-2.937	0	%100
34	MP2A	Z	1.696	1.696	0	%100
35	MP1C	X	-2.937	-2.937	0	%100
36	MP1C	Z	1.696	1.696	0	%100
37	MP3C	X	-2.937	-2.937	0	%100
38	MP3C	Z	1.696	1.696	0	%100
39	MP4C	X	-2.937	-2.937	0	%100
40	MP4C	Z	1.696	1.696	0	%100
41	MP2C	X	-2.937	-2.937	0	%100
42	MP2C	Z	1.696	1.696	0	%100
43	MP1B	X	-2.937	-2.937	0	%100
44	MP1B	Z	1.696	1.696	0	%100
45	MP3B	X	-2.937	-2.937	0	%100
46	MP3B	Z	1.696	1.696	0	%100
47	MP4B	X	-2.937	-2.937	0	%100
48	MP4B	Z	1.696	1.696	0	%100
49	MP2B	X	-2.937	-2.937	0	%100
50	MP2B	Z	1.696	1.696	0	%100
51	M60	X	-.813	-.813	0	%100
52	M60	Z	.469	.469	0	%100
53	M61	X	-3.251	-3.251	0	%100
54	M61	Z	1.877	1.877	0	%100
55	M62	X	-.813	-.813	0	%100
56	M62	Z	.469	.469	0	%100
57	M81	X	-3.297	-3.297	0	%100
58	M81	Z	1.904	1.904	0	%100
59	M82	X	-.86	-.86	0	%100
60	M82	Z	.496	.496	0	%100
61	M83	X	-.79	-.79	0	%100
62	M83	Z	.456	.456	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-5.784	-5.784	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-5.784	-5.784	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-2.927	-2.927	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-3.902	-3.902	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.07	-.07	0	%100
12	M6	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M7	X	-2.422	-2.422	0 %100
14	M7	Z	0	0	0 %100
15	M8	X	-2.407	-2.407	0 %100
16	M8	Z	0	0	0 %100
17	M9	X	-3e-6	-3e-6	0 %100
18	M9	Z	0	0	0 %100
19	M10	X	-2.397	-2.397	0 %100
20	M10	Z	0	0	0 %100
21	M11	X	-2.412	-2.412	0 %100
22	M11	Z	0	0	0 %100
23	M12	X	-6.6e-5	-6.6e-5	0 %100
24	M12	Z	0	0	0 %100
25	M16	X	-1.793	-1.793	0 %100
26	M16	Z	0	0	0 %100
27	MP1A	X	-3.392	-3.392	0 %100
28	MP1A	Z	0	0	0 %100
29	MP3A	X	-3.392	-3.392	0 %100
30	MP3A	Z	0	0	0 %100
31	MP4A	X	-3.392	-3.392	0 %100
32	MP4A	Z	0	0	0 %100
33	MP2A	X	-3.392	-3.392	0 %100
34	MP2A	Z	0	0	0 %100
35	MP1C	X	-3.392	-3.392	0 %100
36	MP1C	Z	0	0	0 %100
37	MP3C	X	-3.392	-3.392	0 %100
38	MP3C	Z	0	0	0 %100
39	MP4C	X	-3.392	-3.392	0 %100
40	MP4C	Z	0	0	0 %100
41	MP2C	X	-3.392	-3.392	0 %100
42	MP2C	Z	0	0	0 %100
43	MP1B	X	-3.392	-3.392	0 %100
44	MP1B	Z	0	0	0 %100
45	MP3B	X	-3.392	-3.392	0 %100
46	MP3B	Z	0	0	0 %100
47	MP4B	X	-3.392	-3.392	0 %100
48	MP4B	Z	0	0	0 %100
49	MP2B	X	-3.392	-3.392	0 %100
50	MP2B	Z	0	0	0 %100
51	M60	X	0	0	0 %100
52	M60	Z	0	0	0 %100
53	M61	X	-2.816	-2.816	0 %100
54	M61	Z	0	0	0 %100
55	M62	X	-2.816	-2.816	0 %100
56	M62	Z	0	0	0 %100
57	M81	X	-2.816	-2.816	0 %100
58	M81	Z	0	0	0 %100
59	M82	X	-2.896	-2.896	0 %100
60	M82	Z	0	0	0 %100
61	M83	X	-0.00568	-0.00568	0 %100
62	M83	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.67	-1.67	0 %100
2	M1	Z	-0.964	-0.964	0 %100
3	M2	X	-1.67	-1.67	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
4	M2	Z	-0.964	-0.964	0 %100
5	M3	X	-6.678	-6.678	0 %100
6	M3	Z	-3.856	-3.856	0 %100
7	M4	X	-0.604	-0.604	0 %100
8	M4	Z	-0.349	-0.349	0 %100
9	M5	X	-3.922	-3.922	0 %100
10	M5	Z	-2.265	-2.265	0 %100
11	M6	X	-1.448	-1.448	0 %100
12	M6	Z	-0.836	-0.836	0 %100
13	M7	X	-2.782	-2.782	0 %100
14	M7	Z	-1.606	-1.606	0 %100
15	M8	X	-0.693	-0.693	0 %100
16	M8	Z	-0.4	-0.4	0 %100
17	M9	X	-0.698	-0.698	0 %100
18	M9	Z	-0.403	-0.403	0 %100
19	M10	X	-0.685	-0.685	0 %100
20	M10	Z	-0.395	-0.395	0 %100
21	M11	X	-2.782	-2.782	0 %100
22	M11	Z	-1.606	-1.606	0 %100
23	M12	X	-0.707	-0.707	0 %100
24	M12	Z	-0.408	-0.408	0 %100
25	M16	X	-0.47	-0.47	0 %100
26	M16	Z	-0.272	-0.272	0 %100
27	MP1A	X	-2.937	-2.937	0 %100
28	MP1A	Z	-1.696	-1.696	0 %100
29	MP3A	X	-2.937	-2.937	0 %100
30	MP3A	Z	-1.696	-1.696	0 %100
31	MP4A	X	-2.937	-2.937	0 %100
32	MP4A	Z	-1.696	-1.696	0 %100
33	MP2A	X	-2.937	-2.937	0 %100
34	MP2A	Z	-1.696	-1.696	0 %100
35	MP1C	X	-2.937	-2.937	0 %100
36	MP1C	Z	-1.696	-1.696	0 %100
37	MP3C	X	-2.937	-2.937	0 %100
38	MP3C	Z	-1.696	-1.696	0 %100
39	MP4C	X	-2.937	-2.937	0 %100
40	MP4C	Z	-1.696	-1.696	0 %100
41	MP2C	X	-2.937	-2.937	0 %100
42	MP2C	Z	-1.696	-1.696	0 %100
43	MP1B	X	-2.937	-2.937	0 %100
44	MP1B	Z	-1.696	-1.696	0 %100
45	MP3B	X	-2.937	-2.937	0 %100
46	MP3B	Z	-1.696	-1.696	0 %100
47	MP4B	X	-2.937	-2.937	0 %100
48	MP4B	Z	-1.696	-1.696	0 %100
49	MP2B	X	-2.937	-2.937	0 %100
50	MP2B	Z	-1.696	-1.696	0 %100
51	M60	X	-0.813	-0.813	0 %100
52	M60	Z	-0.469	-0.469	0 %100
53	M61	X	-0.813	-0.813	0 %100
54	M61	Z	-0.469	-0.469	0 %100
55	M62	X	-3.251	-3.251	0 %100
56	M62	Z	-1.877	-1.877	0 %100
57	M81	X	-0.79	-0.79	0 %100
58	M81	Z	-0.456	-0.456	0 %100
59	M82	X	-3.297	-3.297	0 %100
60	M82	Z	-1.904	-1.904	0 %100





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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
61	M83	X	- .86	- .86	0	%100
62	M83	Z	- .496	- .496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-2.892	-2.892	0	%100
2	M1	Z	-5.009	-5.009	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-2.892	-2.892	0	%100
6	M3	Z	-5.009	-5.009	0	%100
7	M4	X	- .035	- .035	0	%100
8	M4	Z	- .061	- .061	0	%100
9	M5	X	-1.463	-1.463	0	%100
10	M5	Z	-2.535	-2.535	0	%100
11	M6	X	-1.951	-1.951	0	%100
12	M6	Z	-3.379	-3.379	0	%100
13	M7	X	-1.198	-1.198	0	%100
14	M7	Z	-2.076	-2.076	0	%100
15	M8	X	-1e-6	-1e-6	0	%100
16	M8	Z	-2e-6	-2e-6	0	%100
17	M9	X	-1.206	-1.206	0	%100
18	M9	Z	-2.089	-2.089	0	%100
19	M10	X	-3.3e-5	-3.3e-5	0	%100
20	M10	Z	-5.7e-5	-5.7e-5	0	%100
21	M11	X	-1.204	-1.204	0	%100
22	M11	Z	-2.085	-2.085	0	%100
23	M12	X	-1.211	-1.211	0	%100
24	M12	Z	-2.098	-2.098	0	%100
25	M16	X	- .002	- .002	0	%100
26	M16	Z	- .003	- .003	0	%100
27	MP1A	X	-1.696	-1.696	0	%100
28	MP1A	Z	-2.937	-2.937	0	%100
29	MP3A	X	-1.696	-1.696	0	%100
30	MP3A	Z	-2.937	-2.937	0	%100
31	MP4A	X	-1.696	-1.696	0	%100
32	MP4A	Z	-2.937	-2.937	0	%100
33	MP2A	X	-1.696	-1.696	0	%100
34	MP2A	Z	-2.937	-2.937	0	%100
35	MP1C	X	-1.696	-1.696	0	%100
36	MP1C	Z	-2.937	-2.937	0	%100
37	MP3C	X	-1.696	-1.696	0	%100
38	MP3C	Z	-2.937	-2.937	0	%100
39	MP4C	X	-1.696	-1.696	0	%100
40	MP4C	Z	-2.937	-2.937	0	%100
41	MP2C	X	-1.696	-1.696	0	%100
42	MP2C	Z	-2.937	-2.937	0	%100
43	MP1B	X	-1.696	-1.696	0	%100
44	MP1B	Z	-2.937	-2.937	0	%100
45	MP3B	X	-1.696	-1.696	0	%100
46	MP3B	Z	-2.937	-2.937	0	%100
47	MP4B	X	-1.696	-1.696	0	%100
48	MP4B	Z	-2.937	-2.937	0	%100
49	MP2B	X	-1.696	-1.696	0	%100
50	MP2B	Z	-2.937	-2.937	0	%100
51	M60	X	-1.408	-1.408	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
52	M60	Z	-2.438	-2.438	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	-1.408	-1.408	0	%100
56	M62	Z	-2.438	-2.438	0	%100
57	M81	X	-.000284	-.000284	0	%100
58	M81	Z	-.000492	-.000492	0	%100
59	M82	X	-1.408	-1.408	0	%100
60	M82	Z	-2.438	-2.438	0	%100
61	M83	X	-1.448	-1.448	0	%100
62	M83	Z	-2.508	-2.508	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-2.175	-2.175	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.544	-.544	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.544	-.544	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-.474	-.474	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-.198	-.198	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-1.285	-1.285	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-.161	-.161	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-.164	-.164	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-.655	-.655	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-.166	-.166	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-.163	-.163	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	-.655	-.655	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	-.155	-.155	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	-.62	-.62	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	-.62	-.62	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	-.62	-.62	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-.62	-.62	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	-.62	-.62	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	-.62	-.62	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-.62	-.62	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	-.62	-.62	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-62	-62	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	-62	-62	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-62	-62	0	%100
49	MP2B	X	0	0	0	%100
50	MP2B	Z	-62	-62	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	-75	-75	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	-188	-188	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	-188	-188	0	%100
57	M81	X	0	0	0	%100
58	M81	Z	-243	-243	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	-224	-224	0	%100
61	M83	X	0	0	0	%100
62	M83	Z	-933	-933	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	.816	.816	0	%100
2	M1	Z	-1.413	-1.413	0	%100
3	M2	X	.816	.816	0	%100
4	M2	Z	-1.413	-1.413	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.554	.554	0	%100
8	M4	Z	-.959	-.959	0	%100
9	M5	X	.01	.01	0	%100
10	M5	Z	-.017	-.017	0	%100
11	M6	X	.415	.415	0	%100
12	M6	Z	-.719	-.719	0	%100
13	M7	X	7e-6	7e-6	0	%100
14	M7	Z	-1.2e-5	-1.2e-5	0	%100
15	M8	X	.246	.246	0	%100
16	M8	Z	-.426	-.426	0	%100
17	M9	X	.245	.245	0	%100
18	M9	Z	-.425	-.425	0	%100
19	M10	X	.247	.247	0	%100
20	M10	Z	-.428	-.428	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	.244	.244	0	%100
24	M12	Z	-.423	-.423	0	%100
25	M16	X	.213	.213	0	%100
26	M16	Z	-.369	-.369	0	%100
27	MP1A	X	.31	.31	0	%100
28	MP1A	Z	-.537	-.537	0	%100
29	MP3A	X	.31	.31	0	%100
30	MP3A	Z	-.537	-.537	0	%100
31	MP4A	X	.31	.31	0	%100
32	MP4A	Z	-.537	-.537	0	%100
33	MP2A	X	.31	.31	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
34	MP2A	Z	-.537	-.537	0	%100
35	MP1C	X	.31	.31	0	%100
36	MP1C	Z	-.537	-.537	0	%100
37	MP3C	X	.31	.31	0	%100
38	MP3C	Z	-.537	-.537	0	%100
39	MP4C	X	.31	.31	0	%100
40	MP4C	Z	-.537	-.537	0	%100
41	MP2C	X	.31	.31	0	%100
42	MP2C	Z	-.537	-.537	0	%100
43	MP1B	X	.31	.31	0	%100
44	MP1B	Z	-.537	-.537	0	%100
45	MP3B	X	.31	.31	0	%100
46	MP3B	Z	-.537	-.537	0	%100
47	MP4B	X	.31	.31	0	%100
48	MP4B	Z	-.537	-.537	0	%100
49	MP2B	X	.31	.31	0	%100
50	MP2B	Z	-.537	-.537	0	%100
51	M60	X	.281	.281	0	%100
52	M60	Z	-.487	-.487	0	%100
53	M61	X	.281	.281	0	%100
54	M61	Z	-.487	-.487	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	.355	.355	0	%100
58	M81	Z	-.615	-.615	0	%100
59	M82	X	7e-5	7e-5	0	%100
60	M82	Z	-.000121	-.000121	0	%100
61	M83	X	.345	.345	0	%100
62	M83	Z	-.598	-.598	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.471	.471	0	%100
2	M1	Z	-.272	-.272	0	%100
3	M2	X	1.884	1.884	0	%100
4	M2	Z	-1.087	-1.087	0	%100
5	M3	X	.471	.471	0	%100
6	M3	Z	-.272	-.272	0	%100
7	M4	X	1.113	1.113	0	%100
8	M4	Z	-.643	-.643	0	%100
9	M5	X	.411	.411	0	%100
10	M5	Z	-.237	-.237	0	%100
11	M6	X	.171	.171	0	%100
12	M6	Z	-.099	-.099	0	%100
13	M7	X	.144	.144	0	%100
14	M7	Z	-.083	-.083	0	%100
15	M8	X	.567	.567	0	%100
16	M8	Z	-.327	-.327	0	%100
17	M9	X	.141	.141	0	%100
18	M9	Z	-.082	-.082	0	%100
19	M10	X	.567	.567	0	%100
20	M10	Z	-.327	-.327	0	%100
21	M11	X	.142	.142	0	%100
22	M11	Z	-.082	-.082	0	%100
23	M12	X	.14	.14	0	%100
24	M12	Z	-.081	-.081	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
25	M16	X	.471	.471	0	%100
26	M16	Z	-.272	-.272	0	%100
27	MP1A	X	.537	.537	0	%100
28	MP1A	Z	-.31	-.31	0	%100
29	MP3A	X	.537	.537	0	%100
30	MP3A	Z	-.31	-.31	0	%100
31	MP4A	X	.537	.537	0	%100
32	MP4A	Z	-.31	-.31	0	%100
33	MP2A	X	.537	.537	0	%100
34	MP2A	Z	-.31	-.31	0	%100
35	MP1C	X	.537	.537	0	%100
36	MP1C	Z	-.31	-.31	0	%100
37	MP3C	X	.537	.537	0	%100
38	MP3C	Z	-.31	-.31	0	%100
39	MP4C	X	.537	.537	0	%100
40	MP4C	Z	-.31	-.31	0	%100
41	MP2C	X	.537	.537	0	%100
42	MP2C	Z	-.31	-.31	0	%100
43	MP1B	X	.537	.537	0	%100
44	MP1B	Z	-.31	-.31	0	%100
45	MP3B	X	.537	.537	0	%100
46	MP3B	Z	-.31	-.31	0	%100
47	MP4B	X	.537	.537	0	%100
48	MP4B	Z	-.31	-.31	0	%100
49	MP2B	X	.537	.537	0	%100
50	MP2B	Z	-.31	-.31	0	%100
51	M60	X	.162	.162	0	%100
52	M60	Z	-.094	-.094	0	%100
53	M61	X	.65	.65	0	%100
54	M61	Z	-.375	-.375	0	%100
55	M62	X	.162	.162	0	%100
56	M62	Z	-.094	-.094	0	%100
57	M81	X	.808	.808	0	%100
58	M81	Z	-.467	-.467	0	%100
59	M82	X	.211	.211	0	%100
60	M82	Z	-.122	-.122	0	%100
61	M83	X	.194	.194	0	%100
62	M83	Z	-.112	-.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	1.631	1.631	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	1.631	1.631	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.831	.831	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	1.107	1.107	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.02	.02	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	.494	.494	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	.491	.491	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
16	M8	Z	0	0	0	%100
17	M9	X	1e-6	1e-6	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	.489	.489	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	.492	.492	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	1.3e-5	1.3e-5	0	%100
24	M12	Z	0	0	0	%100
25	M16	X	.389	.389	0	%100
26	M16	Z	0	0	0	%100
27	MP1A	X	.62	.62	0	%100
28	MP1A	Z	0	0	0	%100
29	MP3A	X	.62	.62	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	.62	.62	0	%100
32	MP4A	Z	0	0	0	%100
33	MP2A	X	.62	.62	0	%100
34	MP2A	Z	0	0	0	%100
35	MP1C	X	.62	.62	0	%100
36	MP1C	Z	0	0	0	%100
37	MP3C	X	.62	.62	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	.62	.62	0	%100
40	MP4C	Z	0	0	0	%100
41	MP2C	X	.62	.62	0	%100
42	MP2C	Z	0	0	0	%100
43	MP1B	X	.62	.62	0	%100
44	MP1B	Z	0	0	0	%100
45	MP3B	X	.62	.62	0	%100
46	MP3B	Z	0	0	0	%100
47	MP4B	X	.62	.62	0	%100
48	MP4B	Z	0	0	0	%100
49	MP2B	X	.62	.62	0	%100
50	MP2B	Z	0	0	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	0	0	0	%100
53	M61	X	.563	.563	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	.563	.563	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	.69	.69	0	%100
58	M81	Z	0	0	0	%100
59	M82	X	.71	.71	0	%100
60	M82	Z	0	0	0	%100
61	M83	X	.000139	.000139	0	%100
62	M83	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.471	.471	0	%100
2	M1	Z	.272	.272	0	%100
3	M2	X	.471	.471	0	%100
4	M2	Z	.272	.272	0	%100
5	M3	X	1.884	1.884	0	%100
6	M3	Z	1.087	1.087	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
7	M4	X	.171	.171	0	%100
8	M4	Z	.099	.099	0	%100
9	M5	X	1.113	1.113	0	%100
10	M5	Z	.643	.643	0	%100
11	M6	X	.411	.411	0	%100
12	M6	Z	.237	.237	0	%100
13	M7	X	.567	.567	0	%100
14	M7	Z	.327	.327	0	%100
15	M8	X	.141	.141	0	%100
16	M8	Z	.082	.082	0	%100
17	M9	X	.142	.142	0	%100
18	M9	Z	.082	.082	0	%100
19	M10	X	.14	.14	0	%100
20	M10	Z	.081	.081	0	%100
21	M11	X	.567	.567	0	%100
22	M11	Z	.327	.327	0	%100
23	M12	X	.144	.144	0	%100
24	M12	Z	.083	.083	0	%100
25	M16	X	.102	.102	0	%100
26	M16	Z	.059	.059	0	%100
27	MP1A	X	.537	.537	0	%100
28	MP1A	Z	.31	.31	0	%100
29	MP3A	X	.537	.537	0	%100
30	MP3A	Z	.31	.31	0	%100
31	MP4A	X	.537	.537	0	%100
32	MP4A	Z	.31	.31	0	%100
33	MP2A	X	.537	.537	0	%100
34	MP2A	Z	.31	.31	0	%100
35	MP1C	X	.537	.537	0	%100
36	MP1C	Z	.31	.31	0	%100
37	MP3C	X	.537	.537	0	%100
38	MP3C	Z	.31	.31	0	%100
39	MP4C	X	.537	.537	0	%100
40	MP4C	Z	.31	.31	0	%100
41	MP2C	X	.537	.537	0	%100
42	MP2C	Z	.31	.31	0	%100
43	MP1B	X	.537	.537	0	%100
44	MP1B	Z	.31	.31	0	%100
45	MP3B	X	.537	.537	0	%100
46	MP3B	Z	.31	.31	0	%100
47	MP4B	X	.537	.537	0	%100
48	MP4B	Z	.31	.31	0	%100
49	MP2B	X	.537	.537	0	%100
50	MP2B	Z	.31	.31	0	%100
51	M60	X	.162	.162	0	%100
52	M60	Z	.094	.094	0	%100
53	M61	X	.162	.162	0	%100
54	M61	Z	.094	.094	0	%100
55	M62	X	.65	.65	0	%100
56	M62	Z	.375	.375	0	%100
57	M81	X	.194	.194	0	%100
58	M81	Z	.112	.112	0	%100
59	M82	X	.808	.808	0	%100
60	M82	Z	.467	.467	0	%100
61	M83	X	.211	.211	0	%100
62	M83	Z	.122	.122	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
 3:36 PM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.816	.816	0	%100
2	M1	Z	1.413	1.413	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.816	.816	0	%100
6	M3	Z	1.413	1.413	0	%100
7	M4	X	.01	.01	0	%100
8	M4	Z	.017	.017	0	%100
9	M5	X	.415	.415	0	%100
10	M5	Z	.719	.719	0	%100
11	M6	X	.554	.554	0	%100
12	M6	Z	.959	.959	0	%100
13	M7	X	.244	.244	0	%100
14	M7	Z	.423	.423	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	.246	.246	0	%100
18	M9	Z	.426	.426	0	%100
19	M10	X	7e-6	7e-6	0	%100
20	M10	Z	1.2e-5	1.2e-5	0	%100
21	M11	X	.245	.245	0	%100
22	M11	Z	.425	.425	0	%100
23	M12	X	.247	.247	0	%100
24	M12	Z	.428	.428	0	%100
25	M16	X	.000425	.000425	0	%100
26	M16	Z	.000736	.000736	0	%100
27	MP1A	X	.31	.31	0	%100
28	MP1A	Z	.537	.537	0	%100
29	MP3A	X	.31	.31	0	%100
30	MP3A	Z	.537	.537	0	%100
31	MP4A	X	.31	.31	0	%100
32	MP4A	Z	.537	.537	0	%100
33	MP2A	X	.31	.31	0	%100
34	MP2A	Z	.537	.537	0	%100
35	MP1C	X	.31	.31	0	%100
36	MP1C	Z	.537	.537	0	%100
37	MP3C	X	.31	.31	0	%100
38	MP3C	Z	.537	.537	0	%100
39	MP4C	X	.31	.31	0	%100
40	MP4C	Z	.537	.537	0	%100
41	MP2C	X	.31	.31	0	%100
42	MP2C	Z	.537	.537	0	%100
43	MP1B	X	.31	.31	0	%100
44	MP1B	Z	.537	.537	0	%100
45	MP3B	X	.31	.31	0	%100
46	MP3B	Z	.537	.537	0	%100
47	MP4B	X	.31	.31	0	%100
48	MP4B	Z	.537	.537	0	%100
49	MP2B	X	.31	.31	0	%100
50	MP2B	Z	.537	.537	0	%100
51	M60	X	.281	.281	0	%100
52	M60	Z	.487	.487	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	.281	.281	0	%100
56	M62	Z	.487	.487	0	%100
57	M81	X	7e-5	7e-5	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
58	M81	Z	.000121	.000121	0	%100
59	M82	X	.345	.345	0	%100
60	M82	Z	.598	.598	0	%100
61	M83	X	.355	.355	0	%100
62	M83	Z	.615	.615	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	2.175	2.175	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.544	.544	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	.544	.544	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	.474	.474	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	.198	.198	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	1.285	1.285	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	.161	.161	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	.164	.164	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	.655	.655	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	.166	.166	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	.163	.163	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	.655	.655	0	%100
25	M16	X	0	0	0	%100
26	M16	Z	.155	.155	0	%100
27	MP1A	X	0	0	0	%100
28	MP1A	Z	.62	.62	0	%100
29	MP3A	X	0	0	0	%100
30	MP3A	Z	.62	.62	0	%100
31	MP4A	X	0	0	0	%100
32	MP4A	Z	.62	.62	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	.62	.62	0	%100
35	MP1C	X	0	0	0	%100
36	MP1C	Z	.62	.62	0	%100
37	MP3C	X	0	0	0	%100
38	MP3C	Z	.62	.62	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	.62	.62	0	%100
41	MP2C	X	0	0	0	%100
42	MP2C	Z	.62	.62	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	.62	.62	0	%100
45	MP3B	X	0	0	0	%100
46	MP3B	Z	.62	.62	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	.62	.62	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
49	MP2B	X	0	0	0	%100
50	MP2B	Z	.62	.62	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	.75	.75	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	.188	.188	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	.188	.188	0	%100
57	M81	X	0	0	0	%100
58	M81	Z	.243	.243	0	%100
59	M82	X	0	0	0	%100
60	M82	Z	.224	.224	0	%100
61	M83	X	0	0	0	%100
62	M83	Z	.933	.933	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-.816	-.816	0	%100
2	M1	Z	1.413	1.413	0	%100
3	M2	X	-.816	-.816	0	%100
4	M2	Z	1.413	1.413	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-.554	-.554	0	%100
8	M4	Z	.959	.959	0	%100
9	M5	X	-.01	-.01	0	%100
10	M5	Z	.017	.017	0	%100
11	M6	X	-.415	-.415	0	%100
12	M6	Z	.719	.719	0	%100
13	M7	X	-7e-6	-7e-6	0	%100
14	M7	Z	1.2e-5	1.2e-5	0	%100
15	M8	X	-.246	-.246	0	%100
16	M8	Z	.426	.426	0	%100
17	M9	X	-.245	-.245	0	%100
18	M9	Z	.425	.425	0	%100
19	M10	X	-.247	-.247	0	%100
20	M10	Z	.428	.428	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-.244	-.244	0	%100
24	M12	Z	.423	.423	0	%100
25	M16	X	-.213	-.213	0	%100
26	M16	Z	.369	.369	0	%100
27	MP1A	X	-.31	-.31	0	%100
28	MP1A	Z	.537	.537	0	%100
29	MP3A	X	-.31	-.31	0	%100
30	MP3A	Z	.537	.537	0	%100
31	MP4A	X	-.31	-.31	0	%100
32	MP4A	Z	.537	.537	0	%100
33	MP2A	X	-.31	-.31	0	%100
34	MP2A	Z	.537	.537	0	%100
35	MP1C	X	-.31	-.31	0	%100
36	MP1C	Z	.537	.537	0	%100
37	MP3C	X	-.31	-.31	0	%100
38	MP3C	Z	.537	.537	0	%100
39	MP4C	X	-.31	-.31	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
40	MP4C	Z	.537	.537	0	%100
41	MP2C	X	-.31	-.31	0	%100
42	MP2C	Z	.537	.537	0	%100
43	MP1B	X	-.31	-.31	0	%100
44	MP1B	Z	.537	.537	0	%100
45	MP3B	X	-.31	-.31	0	%100
46	MP3B	Z	.537	.537	0	%100
47	MP4B	X	-.31	-.31	0	%100
48	MP4B	Z	.537	.537	0	%100
49	MP2B	X	-.31	-.31	0	%100
50	MP2B	Z	.537	.537	0	%100
51	M60	X	-.281	-.281	0	%100
52	M60	Z	.487	.487	0	%100
53	M61	X	-.281	-.281	0	%100
54	M61	Z	.487	.487	0	%100
55	M62	X	0	0	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	-.355	-.355	0	%100
58	M81	Z	.615	.615	0	%100
59	M82	X	-7e-5	-7e-5	0	%100
60	M82	Z	.000121	.000121	0	%100
61	M83	X	-.345	-.345	0	%100
62	M83	Z	.598	.598	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-.471	-.471	0	%100
2	M1	Z	.272	.272	0	%100
3	M2	X	-1.884	-1.884	0	%100
4	M2	Z	1.087	1.087	0	%100
5	M3	X	-.471	-.471	0	%100
6	M3	Z	.272	.272	0	%100
7	M4	X	-1.113	-1.113	0	%100
8	M4	Z	.643	.643	0	%100
9	M5	X	-.411	-.411	0	%100
10	M5	Z	.237	.237	0	%100
11	M6	X	-.171	-.171	0	%100
12	M6	Z	.099	.099	0	%100
13	M7	X	-.144	-.144	0	%100
14	M7	Z	.083	.083	0	%100
15	M8	X	-.567	-.567	0	%100
16	M8	Z	.327	.327	0	%100
17	M9	X	-.141	-.141	0	%100
18	M9	Z	.082	.082	0	%100
19	M10	X	-.567	-.567	0	%100
20	M10	Z	.327	.327	0	%100
21	M11	X	-.142	-.142	0	%100
22	M11	Z	.082	.082	0	%100
23	M12	X	-.14	-.14	0	%100
24	M12	Z	.081	.081	0	%100
25	M16	X	-.471	-.471	0	%100
26	M16	Z	.272	.272	0	%100
27	MP1A	X	-.537	-.537	0	%100
28	MP1A	Z	.31	.31	0	%100
29	MP3A	X	-.537	-.537	0	%100
30	MP3A	Z	.31	.31	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
31	MP4A	X	-.537	-.537	0	%100
32	MP4A	Z	.31	.31	0	%100
33	MP2A	X	-.537	-.537	0	%100
34	MP2A	Z	.31	.31	0	%100
35	MP1C	X	-.537	-.537	0	%100
36	MP1C	Z	.31	.31	0	%100
37	MP3C	X	-.537	-.537	0	%100
38	MP3C	Z	.31	.31	0	%100
39	MP4C	X	-.537	-.537	0	%100
40	MP4C	Z	.31	.31	0	%100
41	MP2C	X	-.537	-.537	0	%100
42	MP2C	Z	.31	.31	0	%100
43	MP1B	X	-.537	-.537	0	%100
44	MP1B	Z	.31	.31	0	%100
45	MP3B	X	-.537	-.537	0	%100
46	MP3B	Z	.31	.31	0	%100
47	MP4B	X	-.537	-.537	0	%100
48	MP4B	Z	.31	.31	0	%100
49	MP2B	X	-.537	-.537	0	%100
50	MP2B	Z	.31	.31	0	%100
51	M60	X	-.162	-.162	0	%100
52	M60	Z	.094	.094	0	%100
53	M61	X	-.65	-.65	0	%100
54	M61	Z	.375	.375	0	%100
55	M62	X	-.162	-.162	0	%100
56	M62	Z	.094	.094	0	%100
57	M81	X	-.808	-.808	0	%100
58	M81	Z	.467	.467	0	%100
59	M82	X	-.211	-.211	0	%100
60	M82	Z	.122	.122	0	%100
61	M83	X	-.194	-.194	0	%100
62	M83	Z	.112	.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-1.631	-1.631	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-1.631	-1.631	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-.831	-.831	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-1.107	-1.107	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.02	-.02	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-.494	-.494	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-.491	-.491	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-1e-6	-1e-6	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-.489	-.489	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-.492	-.492	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
22	M11	Z	0	0	0	%100
23	M12	X	-1.3e-5	-1.3e-5	0	%100
24	M12	Z	0	0	0	%100
25	M16	X	-0.389	-0.389	0	%100
26	M16	Z	0	0	0	%100
27	MP1A	X	-0.62	-0.62	0	%100
28	MP1A	Z	0	0	0	%100
29	MP3A	X	-0.62	-0.62	0	%100
30	MP3A	Z	0	0	0	%100
31	MP4A	X	-0.62	-0.62	0	%100
32	MP4A	Z	0	0	0	%100
33	MP2A	X	-0.62	-0.62	0	%100
34	MP2A	Z	0	0	0	%100
35	MP1C	X	-0.62	-0.62	0	%100
36	MP1C	Z	0	0	0	%100
37	MP3C	X	-0.62	-0.62	0	%100
38	MP3C	Z	0	0	0	%100
39	MP4C	X	-0.62	-0.62	0	%100
40	MP4C	Z	0	0	0	%100
41	MP2C	X	-0.62	-0.62	0	%100
42	MP2C	Z	0	0	0	%100
43	MP1B	X	-0.62	-0.62	0	%100
44	MP1B	Z	0	0	0	%100
45	MP3B	X	-0.62	-0.62	0	%100
46	MP3B	Z	0	0	0	%100
47	MP4B	X	-0.62	-0.62	0	%100
48	MP4B	Z	0	0	0	%100
49	MP2B	X	-0.62	-0.62	0	%100
50	MP2B	Z	0	0	0	%100
51	M60	X	0	0	0	%100
52	M60	Z	0	0	0	%100
53	M61	X	-0.563	-0.563	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	-0.563	-0.563	0	%100
56	M62	Z	0	0	0	%100
57	M81	X	-0.69	-0.69	0	%100
58	M81	Z	0	0	0	%100
59	M82	X	-0.71	-0.71	0	%100
60	M82	Z	0	0	0	%100
61	M83	X	-0.00139	-0.00139	0	%100
62	M83	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-0.471	-0.471	0	%100
2	M1	Z	-0.272	-0.272	0	%100
3	M2	X	-0.471	-0.471	0	%100
4	M2	Z	-0.272	-0.272	0	%100
5	M3	X	-1.884	-1.884	0	%100
6	M3	Z	-1.087	-1.087	0	%100
7	M4	X	-0.171	-0.171	0	%100
8	M4	Z	-0.099	-0.099	0	%100
9	M5	X	-1.113	-1.113	0	%100
10	M5	Z	-0.643	-0.643	0	%100
11	M6	X	-0.411	-0.411	0	%100
12	M6	Z	-0.237	-0.237	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
13	M7	X	-567	-567	0 %100
14	M7	Z	-327	-327	0 %100
15	M8	X	-141	-141	0 %100
16	M8	Z	-082	-082	0 %100
17	M9	X	-142	-142	0 %100
18	M9	Z	-082	-082	0 %100
19	M10	X	-14	-14	0 %100
20	M10	Z	-081	-081	0 %100
21	M11	X	-567	-567	0 %100
22	M11	Z	-327	-327	0 %100
23	M12	X	-144	-144	0 %100
24	M12	Z	-083	-083	0 %100
25	M16	X	-102	-102	0 %100
26	M16	Z	-059	-059	0 %100
27	MP1A	X	-537	-537	0 %100
28	MP1A	Z	-31	-31	0 %100
29	MP3A	X	-537	-537	0 %100
30	MP3A	Z	-31	-31	0 %100
31	MP4A	X	-537	-537	0 %100
32	MP4A	Z	-31	-31	0 %100
33	MP2A	X	-537	-537	0 %100
34	MP2A	Z	-31	-31	0 %100
35	MP1C	X	-537	-537	0 %100
36	MP1C	Z	-31	-31	0 %100
37	MP3C	X	-537	-537	0 %100
38	MP3C	Z	-31	-31	0 %100
39	MP4C	X	-537	-537	0 %100
40	MP4C	Z	-31	-31	0 %100
41	MP2C	X	-537	-537	0 %100
42	MP2C	Z	-31	-31	0 %100
43	MP1B	X	-537	-537	0 %100
44	MP1B	Z	-31	-31	0 %100
45	MP3B	X	-537	-537	0 %100
46	MP3B	Z	-31	-31	0 %100
47	MP4B	X	-537	-537	0 %100
48	MP4B	Z	-31	-31	0 %100
49	MP2B	X	-537	-537	0 %100
50	MP2B	Z	-31	-31	0 %100
51	M60	X	-162	-162	0 %100
52	M60	Z	-094	-094	0 %100
53	M61	X	-162	-162	0 %100
54	M61	Z	-094	-094	0 %100
55	M62	X	-65	-65	0 %100
56	M62	Z	-375	-375	0 %100
57	M81	X	-194	-194	0 %100
58	M81	Z	-112	-112	0 %100
59	M82	X	-808	-808	0 %100
60	M82	Z	-467	-467	0 %100
61	M83	X	-211	-211	0 %100
62	M83	Z	-122	-122	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-816	-816	0 %100
2	M1	Z	-1.413	-1.413	0 %100
3	M2	X	0	0	0 %100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
 3:36 PM  
 Checked By: \_\_\_\_\_

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]	
4	M2	Z	0	0	0	%100
5	M3	X	-0.816	-0.816	0	%100
6	M3	Z	-1.413	-1.413	0	%100
7	M4	X	-0.01	-0.01	0	%100
8	M4	Z	-0.017	-0.017	0	%100
9	M5	X	-0.415	-0.415	0	%100
10	M5	Z	-0.719	-0.719	0	%100
11	M6	X	-0.554	-0.554	0	%100
12	M6	Z	-0.959	-0.959	0	%100
13	M7	X	-0.244	-0.244	0	%100
14	M7	Z	-0.423	-0.423	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-0.246	-0.246	0	%100
18	M9	Z	-0.426	-0.426	0	%100
19	M10	X	-7e-6	-7e-6	0	%100
20	M10	Z	-1.2e-5	-1.2e-5	0	%100
21	M11	X	-0.245	-0.245	0	%100
22	M11	Z	-0.425	-0.425	0	%100
23	M12	X	-0.247	-0.247	0	%100
24	M12	Z	-0.428	-0.428	0	%100
25	M16	X	-0.000425	-0.000425	0	%100
26	M16	Z	-0.000736	-0.000736	0	%100
27	MP1A	X	-0.31	-0.31	0	%100
28	MP1A	Z	-0.537	-0.537	0	%100
29	MP3A	X	-0.31	-0.31	0	%100
30	MP3A	Z	-0.537	-0.537	0	%100
31	MP4A	X	-0.31	-0.31	0	%100
32	MP4A	Z	-0.537	-0.537	0	%100
33	MP2A	X	-0.31	-0.31	0	%100
34	MP2A	Z	-0.537	-0.537	0	%100
35	MP1C	X	-0.31	-0.31	0	%100
36	MP1C	Z	-0.537	-0.537	0	%100
37	MP3C	X	-0.31	-0.31	0	%100
38	MP3C	Z	-0.537	-0.537	0	%100
39	MP4C	X	-0.31	-0.31	0	%100
40	MP4C	Z	-0.537	-0.537	0	%100
41	MP2C	X	-0.31	-0.31	0	%100
42	MP2C	Z	-0.537	-0.537	0	%100
43	MP1B	X	-0.31	-0.31	0	%100
44	MP1B	Z	-0.537	-0.537	0	%100
45	MP3B	X	-0.31	-0.31	0	%100
46	MP3B	Z	-0.537	-0.537	0	%100
47	MP4B	X	-0.31	-0.31	0	%100
48	MP4B	Z	-0.537	-0.537	0	%100
49	MP2B	X	-0.31	-0.31	0	%100
50	MP2B	Z	-0.537	-0.537	0	%100
51	M60	X	-0.281	-0.281	0	%100
52	M60	Z	-0.487	-0.487	0	%100
53	M61	X	0	0	0	%100
54	M61	Z	0	0	0	%100
55	M62	X	-0.281	-0.281	0	%100
56	M62	Z	-0.487	-0.487	0	%100
57	M81	X	-7e-5	-7e-5	0	%100
58	M81	Z	-0.000121	-0.000121	0	%100
59	M82	X	-0.345	-0.345	0	%100
60	M82	Z	-0.598	-0.598	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
61	M83	X	-.355	-.355	0	%100
62	M83	Z	-.615	-.615	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	Y	-.098	-1.997	7.75	8.783
2	M1	Y	-1.997	-6.307	8.783	9.817
3	M1	Y	-6.307	-7.348	9.817	10.85
4	M1	Y	-7.348	-3.529	10.85	11.883
5	M1	Y	-3.529	-.098	11.883	12.917
6	M3	Y	-.571	-4.202	0	1.033
7	M3	Y	-4.202	-7.472	1.033	2.067
8	M3	Y	-7.472	-6.474	2.067	3.1
9	M3	Y	-6.474	-2.102	3.1	4.133
10	M3	Y	-2.102	-.182	4.133	5.167
11	M16	Y	-1.18	-1.18	0	.612
12	M7	Y	-12.1	-1.18	.308	2.775
13	M9	Y	-3.952	-5.798	0	1.542
14	M9	Y	-5.798	-7.644	1.542	3.083
15	M3	Y	-4.557	-4.557	5.35	7.258
16	M9	Y	-4.693	-4.557	0	3.083
17	M10	Y	-4.577	-4.577	.268	2.714
18	M10	Y	-8.731	-4.577	.308	2.775
19	M11	Y	-3.985	-5.821	0	1.542
20	M11	Y	-5.821	-7.657	1.542	3.083
21	M2	Y	-.571	-4.202	0	1.033
22	M2	Y	-4.202	-7.472	1.033	2.067
23	M2	Y	-7.472	-6.474	2.067	3.1
24	M2	Y	-6.474	-2.102	3.1	4.133
25	M2	Y	-2.102	-.182	4.133	5.167
26	M3	Y	-.168	-2.066	7.75	8.783
27	M3	Y	-2.066	-6.377	8.783	9.817
28	M3	Y	-6.377	-7.418	9.817	10.85
29	M3	Y	-7.418	-3.948	10.85	11.883
30	M3	Y	-3.948	-.168	11.883	12.917
31	M2	Y	-4.554	-4.554	5.662	7.57
32	M11	Y	-4.563	-4.563	.27	2.718
33	M12	Y	-4.689	-4.563	0	3.083
34	M8	Y	-8.715	-4.563	.308	2.775
35	M12	Y	-3.952	-5.799	0	1.542
36	M12	Y	-5.799	-7.646	1.542	3.083
37	M1	Y	-.571	-4.202	0	1.033
38	M1	Y	-4.202	-7.472	1.033	2.067
39	M1	Y	-7.472	-6.474	2.067	3.1
40	M1	Y	-6.474	-2.102	3.1	4.133
41	M1	Y	-2.102	-.182	4.133	5.167
42	M2	Y	-.168	-2.066	7.75	8.783
43	M2	Y	-2.066	-6.377	8.783	9.817
44	M2	Y	-6.377	-7.418	9.817	10.85
45	M2	Y	-7.418	-3.948	10.85	11.883
46	M2	Y	-3.948	-.168	11.883	12.917
47	M1	Y	-4.563	-4.563	5.351	7.26
48	M7	Y	-4.567	-4.567	.267	2.708
49	M8	Y	-4.713	-4.567	0	3.083





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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	Y	-.311	-6.309	7.75	8.783
2	M1	Y	-6.309	-19.931	8.783	9.817
3	M1	Y	-19.931	-23.219	9.817	10.85
4	M1	Y	-23.219	-11.151	10.85	11.883
5	M1	Y	-11.151	-.311	11.883	12.917
6	M3	Y	-1.804	-13.279	0	1.033
7	M3	Y	-13.279	-23.611	1.033	2.067
8	M3	Y	-23.611	-20.458	2.067	3.1
9	M3	Y	-20.458	-6.643	3.1	4.133
10	M3	Y	-6.643	-.574	4.133	5.167
11	M16	Y	-3.728	-3.728	0	.612
12	M7	Y	-38.235	-3.728	.308	2.775
13	M9	Y	-12.489	-18.322	0	1.542
14	M9	Y	-18.322	-24.155	1.542	3.083
15	M3	Y	-14.4	-14.4	5.35	7.258
16	M9	Y	-14.83	-14.4	0	3.083
17	M10	Y	-14.463	-14.463	.268	2.714
18	M10	Y	-27.585	-14.463	.308	2.775
19	M11	Y	-12.59	-18.395	0	1.542
20	M11	Y	-18.395	-24.2	1.542	3.083
21	M2	Y	-1.808	-13.283	0	1.033
22	M2	Y	-13.283	-23.62	1.033	2.067
23	M2	Y	-23.62	-20.459	2.067	3.1
24	M2	Y	-20.459	-6.636	3.1	4.133
25	M2	Y	-6.636	-.574	4.133	5.167
26	M3	Y	-.53	-6.529	7.75	8.783
27	M3	Y	-6.529	-20.152	8.783	9.817
28	M3	Y	-20.152	-23.441	9.817	10.85
29	M3	Y	-23.441	-12.468	10.85	11.883
30	M3	Y	-12.468	-.53	11.883	12.917
31	M2	Y	-14.394	-14.394	5.662	7.569
32	M11	Y	-14.42	-14.42	.27	2.719
33	M12	Y	-14.813	-14.42	0	3.083
34	M1	Y	-1.804	-13.279	0	1.033
35	M1	Y	-13.279	-23.611	1.033	2.067
36	M1	Y	-23.611	-20.458	2.067	3.1
37	M1	Y	-20.458	-6.643	3.1	4.133
38	M1	Y	-6.643	-.574	4.133	5.167
39	M2	Y	-.531	-6.53	7.75	8.783
40	M2	Y	-6.53	-20.152	8.783	9.817
41	M2	Y	-20.152	-23.44	9.817	10.85
42	M2	Y	-23.44	-12.475	10.85	11.883
43	M2	Y	-12.475	-.531	11.883	12.917
44	M8	Y	-35.433	-6.53	.308	2.775
45	M12	Y	-12.49	-18.323	0	1.542
46	M12	Y	-18.323	-24.155	1.542	3.083
47	M1	Y	-14.42	-14.42	5.351	7.26
48	M7	Y	-14.432	-14.432	.267	2.708
49	M8	Y	-14.893	-14.432	0	3.083

**Member Area Loads (BLC 39 : Structure D)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N21	N28	N16	N9A	Y	Two Way	-.005
2	N9A	N45	N49	N16	Y	Two Way	-.005
3	N16	N15	N48	N49	Y	Two Way	-.005



**Member Area Loads (BLC 39 : Structure D) (Continued)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
4	N48	N47	N13	N15	Y	Two Way	-.005
5	N15	N27	N25	N13	Y	Two Way	-.005
6	N13	N12	N43	N47	Y	Two Way	-.005
7	N43	N44	N10A	N12	Y	Two Way	-.005
8	N12	N24	N22	N10A	Y	Two Way	-.005
9	N10A	N44	N45	N9A	Y	Two Way	-.005

**Member Area Loads (BLC 40 : Structure Di)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N21	N28	N16	N9A	Y	Two Way	-.016
2	N9A	N45	N49	N16	Y	Two Way	-.016
3	N16	N15	N48	N49	Y	Two Way	-.016
4	N48	N15	N13	N47	Y	Two Way	-.016
5	N13	N25	N27	N15	Y	Two Way	-.016
6	N47	N43	N12	N13	Y	Two Way	-.016
7	N12	N24	N22	N10A	Y	Two Way	-.016
8	N10A	N44	N43	N12	Y	Two Way	-.016
9	N44	N45	N9A	N10A	Y	Two Way	-.016

**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	N15A	max	980.001	9	1112.791	20	710.697	2	-.266	2	1.846	11	-.189	3
2		min	-1026.579	3	138.518	2	-594.226	8	-2.768	20	-1.813	5	-1.589	21
3	N17	max	1228.349	10	1172.079	22	578.066	1	.2	12	1.739	1	-.272	4
4		min	-1324.191	4	123.164	4	-594.857	7	-.19	6	-1.781	7	-3.299	22
5	N18	max	352.038	10	1078.191	24	933.799	12	2.657	13	1.714	1	-.088	6
6		min	-391.231	4	131.571	6	-1033.188	6	.299	7	-1.755	7	-1.534	24
7	N19	max	588.7	10	1175.913	14	1224.291	2	2.853	14	2.04	7	1.725	14
8		min	-561.27	4	133.253	8	-1287.999	8	.335	8	-2.021	1	.037	8
9	N20	max	909.528	10	1207.413	16	670.066	1	.121	2	2.052	7	3.41	16
10		min	-798.838	4	174.003	10	-680.876	7	-.14	8	-2.032	1	.429	10
11	N16A	max	1024.717	11	1270.489	18	848.787	1	-.252	12	1.864	9	1.793	17
12		min	-982.062	5	154.653	12	-780.388	7	-3.177	18	-1.84	3	.276	11
13	Totals:	max	4792.779	10	6566.261	20	4828.699	1						
14		min	-4792.782	4	2734.897	2	-4828.703	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 [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M1	L3X3X6	.487	8.611	8	.231	4.306	z	7	6697.476	68364	2.307	5.213	3...	H2-1	
2	M2	L3X3X6	.454	8.611	4	.229	4.306	z	3	6697.476	68364	2.307	5.042	2...	H2-1	
3	M3	L3X3X6	.476	4.306	10	.220	4.306	z	11	6697.476	68364	2.307	4.714	1...	H2-1	
4	M4	L5X5X5	.022	.196	2	.060	.196	z	12	80797.353	99468	6.383	13.253	2...	H2-1	
5	M5	L5X5X5	.007	.196	4	.091	.196	y	8	80797.353	99468	6.383	13.253	1...	H2-1	
6	M6	L5X5X5	.009	0	2	.086	.196	y	4	80797.353	99468	6.383	13.253	2...	H2-1	
7	M7	HSS3X3X4	.470	3.083	9	.047	3.083	y	34	93772.843	101016	8.556	8.556	1...	H1-1b	
8	M8	HSS3X3X4	.485	3.083	5	.057	3.083	y	7	93772.843	101016	8.556	8.556	1...	H1-1b	
9	M9	HSS3X3X4	.448	3.083	9	.054	3.083	y	11	93772.843	101016	8.556	8.556	1...	H1-1b	
10	M10	HSS3X3X4	.454	3.083	1	.046	3.083	y	15	93772.843	101016	8.556	8.556	1...	H1-1b	
11	M11	HSS3X3X4	.499	3.083	1	.055	3.083	y	3	93772.843	101016	8.556	8.556	1...	H1-1b	
12	M12	HSS3X3X4	.494	3.083	5	.051	3.083	y	19	93772.843	101016	8.556	8.556	1...	H1-1b	
13	M16	L2x2x3	.309	0	12	.072	.612	z	12	22958.618	23392.8	.558	1.239	2...	H2-1	
14	MP1A	PIPE 2.0	.324	3.125	8	.125	.677		6	23808.54	32130	1.872	1.872	2...	H1-1b	
15	MP3A	PIPE 2.0	.329	3.125	6	.175	3.125		7	23808.54	32130	1.872	1.872	2...	H1-1b	



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 467915-VZW\_MT\_LO\_H

Oct 20, 2021  
 3:36 PM  
 Checked By: \_\_\_\_\_

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

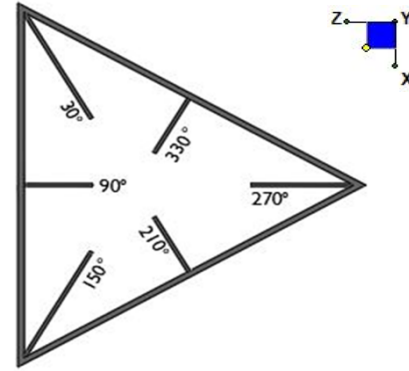
Member	Shape	Code Check	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC	phi*Pnc [	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Egn	
16	MP4A	PIPE 2.0	.206	3.125	5	.092	1.198	6	23808.54	32130	1.872	1.872	2...	H1-1b
17	MP2A	PIPE 2.0	.467	3.889	9	.107	3.889	9	18857.462	32130	1.872	1.872	1...	H1-1b
18	MP1C	PIPE 2.0	.305	.677	4	.110	.677	2	23808.54	32130	1.872	1.872	2...	H1-1b
19	MP3C	PIPE 2.0	.337	3.125	2	.161	3.125	3	23808.54	32130	1.872	1.872	2...	H1-1b
20	MP4C	PIPE 2.0	.219	.677	2	.103	.677	3	23808.54	32130	1.872	1.872	2...	H1-1b
21	MP2C	PIPE 2.0	.458	3.889	6	.108	3.889	5	18857.462	32130	1.872	1.872	1...	H1-1b
22	MP1B	PIPE 2.0	.286	.677	12	.090	3.125	12	23808.54	32130	1.872	1.872	2...	H1-1b
23	MP3B	PIPE 2.0	.316	3.125	10	.160	3.125	11	23808.54	32130	1.872	1.872	2...	H1-1b
24	MP4B	PIPE 2.0	.205	.677	10	.103	.677	11	23808.54	32130	1.872	1.872	2...	H1-1b
25	MP2B	PIPE 2.0	.435	3.889	1	.099	3.889	1	18857.462	32130	1.872	1.872	1...	H1-1b
26	M60	PIPE 2.5	.196	4.978	8	.080	1.884	7	13634.664	50715	3.596	3.596	2...	H1-1b
27	M61	PIPE 2.5	.192	10.36	12	.078	1.884	8	13634.664	50715	3.596	3.596	1...	H1-1b
28	M62	PIPE 2.5	.184	5.113	9	.082	1.884	4	13634.664	50715	3.596	3.596	1...	H1-1b
29	M81	L3X3X4	.244	1.978	6	.032	1.978	y 6	42782.61	46656	1.688	3.756	2...	H2-1
30	M82	L3X3X4	.329	1.978	2	.040	1.978	y 2	42782.61	46656	1.688	3.756	2...	H2-1
31	M83	L3X3X4	.263	1.978	10	.035	1.978	y 10	42782.61	46656	1.688	3.756	2...	H2-1



### I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N15A	60
N17	0
N18	300
N19	240
N20	180
N16A	120



TYPICAL PLATFORM

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

W1 (in):

W2 (in):

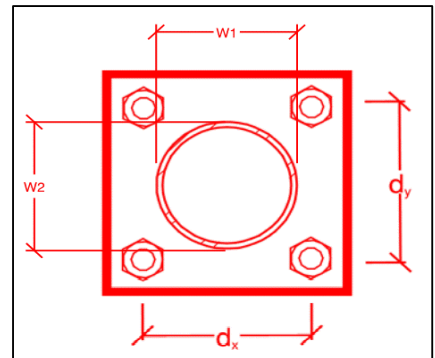
Weld Size (1/16 in):

Phi\*Rn (kip/in):

Required Weld Strength (kip/in):

Weld Capacity:

Rect
3
3
4
5.57
3.67
<b>65.9%</b>



# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – Mount Modification

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

For additional questions and support, please reach out to [pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

---

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

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

### **Base Requirements:**

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

### **Photo Requirements:**

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

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

**Material Certification:**

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

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

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

OR

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

**Antenna & equipment placement and Geometry Confirmation:**

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

OR

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

**Comments:**

**Certifying Individual:**

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

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

Yes       No

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

**Issue:**

**Response:**

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

Yes       No

**Contractor certifies no new damage/obstructions created during the current installation:**

Yes       No

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

Safety climb in good condition with no obstructions       Safety Climb Damaged  
 Safety Climb Obstructed

**Comments:**



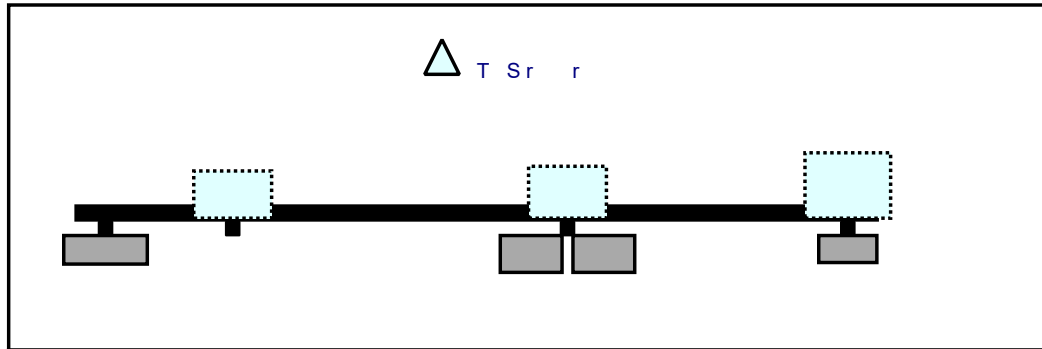
S r A  
 Sr r T M  
 M E 1 .

1 2 2 21

1 1 1

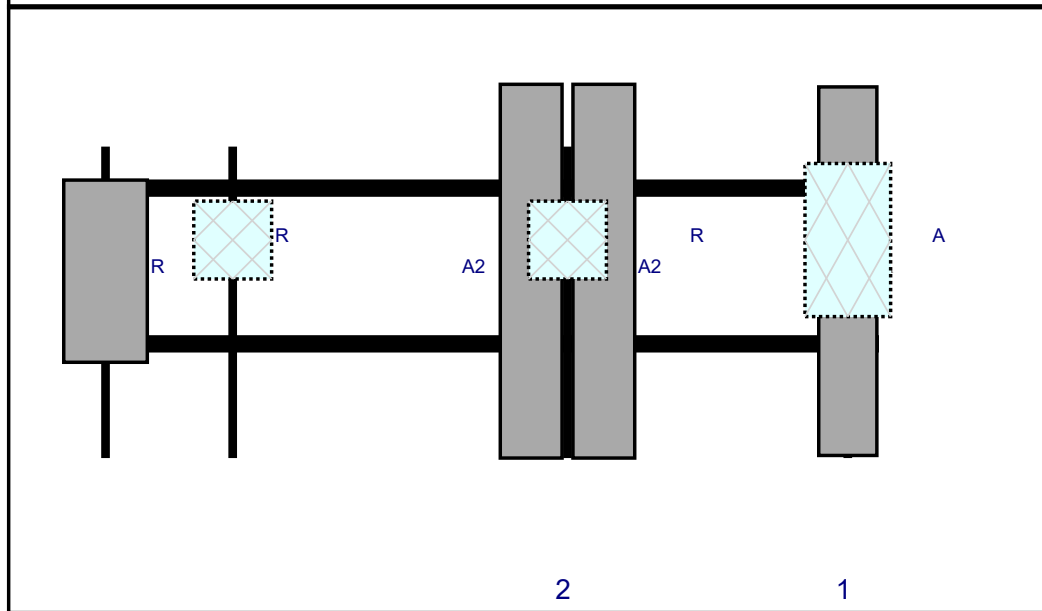
P 1

Plan View



Front View

L Sr r



R	M d	d	D	P	P	A	.A	A	S	d
		r L.			P	P	r T.	O		
A	B A	1	11.2	1	1	r	2		R	d 1 22 21
A	R D 2 P	2 .	1 .	1	1	B	d 1			Add d
A2	B R2B	2	11.		2	r	2			Add d
A2	B R2B	2	11.		2	r	2			Add d
R	R d 2 A	1	1		2	B	d 1			Add d
R	R d 1 A	1	1			B	d 1			Add d
R	MT A	.1	1.1			r	2			Add d

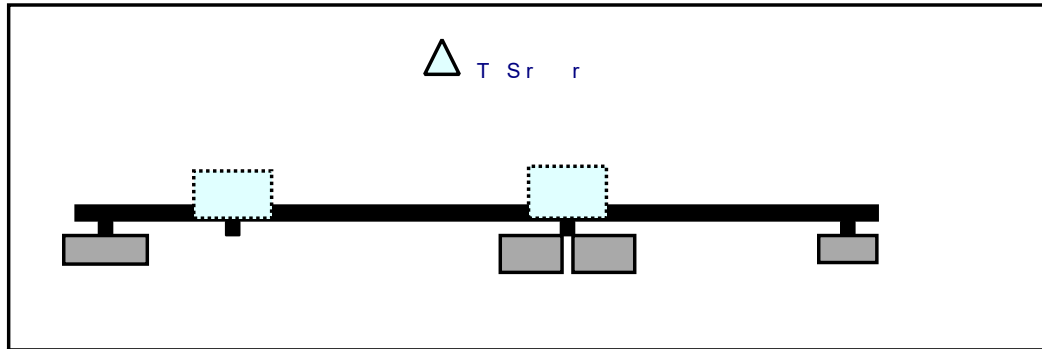
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1 2 2 21

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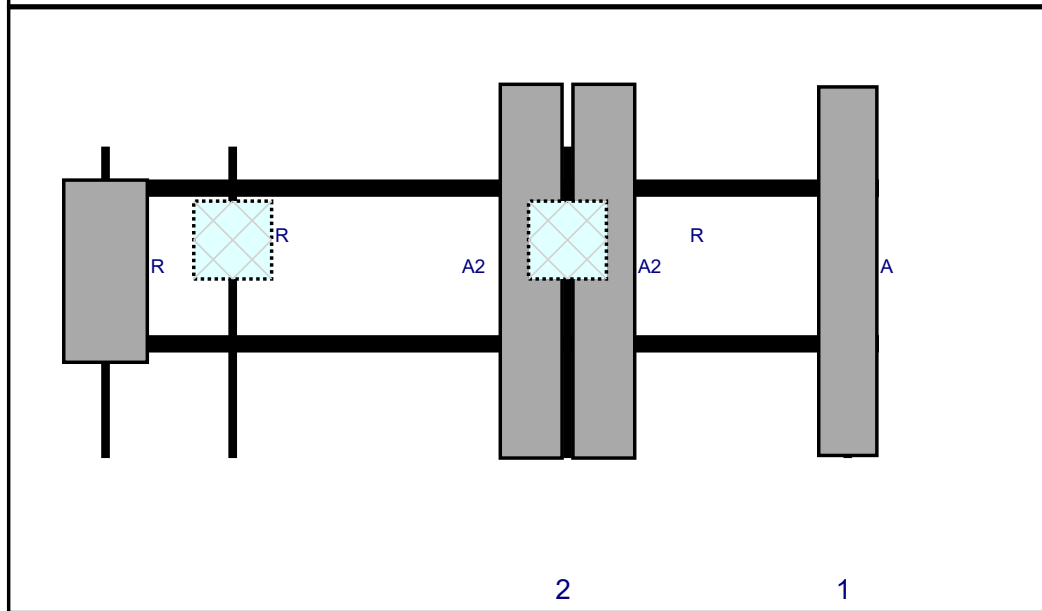
P 2

Plan View



Front View

L Sr r



R	M d		d	D	P	P	A	.A	A			
			r L.		P	P	P	r T.	O	S		d
A	B A	1	11.2	1	1		r	2		R	d	1 22 21
A2	B R2B	2	11.		2		r	2			Add d	
A2	B R2B	2	11.		2		r	2			Add d	
R	R d 2 A	1	1		2		B	d	1		Add d	
R	R d 1 A	1	1				B	d	1		Add d	
R	MT A		.1	1.1			r	2			Add d	

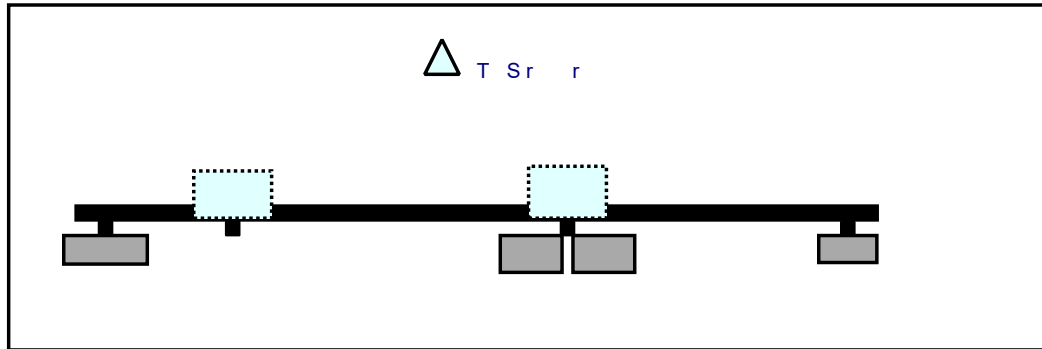
S r C  
 Sr r T M  
 M E 1 .

1 2 2 21

1 1 1

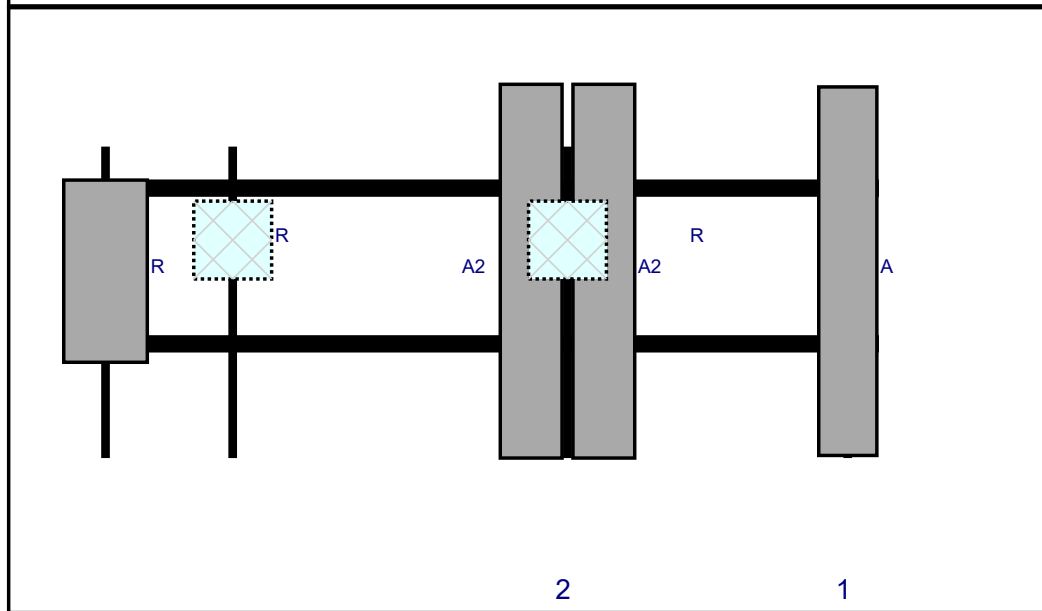
P

Plan View



Front View

L Sr r



R	M d		d	D	P	P	A	.A	A			
			r	L.		P	P	r	T.	O	S	d
A	B A	1	11.2	1	1		r	2			R	d 1 22 21
A2	B R2B	2	11.		2		r	2				Add d
A2	B R2B	2	11.		2		r	2				Add d
R	R d 2 A	1	1		2		B	d 1				Add d
R	R d 1 A	1	1				B	d 1				Add d
R	MT A	.1	1.1				r	2				Add d

# Maser Consulting Connecticut

**Subject**

TIA-222-H Usage

**Site Information**

Site ID:	467915-VZW / SOUTHFORD CT
Site Name:	SOUTHFORD CT
Carrier Name:	Verizon Wireless
Address:	106 Willenbrock Rd. Oxford, Connecticut 06478 New Haven County
Latitude:	41.465110°
Longitude:	-73.146111°

**Structure Information**

Tower Type:	Monopole
Mount Type:	12.92-Ft Platform

To Whom It May Concern,

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

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. 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,



Dejian Xu, PE  
Technical Manager



MOUNT MODIFICATION DRAWINGS  
EXISTING 12.92' PLATFORM

TOWER OWNER: SBA TOWERS  
TOWER OWNER SITE NUMBER: CT03109

CARRIER SITE NAME: SOUTHFORD CT  
CARRIER SITE NUMBER: 467915  
FUZE ID: 16486640

106 WILLENBROCK RD.  
OXFORD, CT 06478  
NEW HAVEN COUNTY

LATITUDE: 41.465110° N  
LONGITUDE: 73.146111° W



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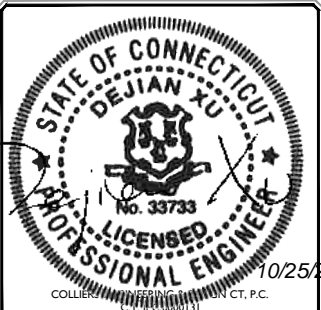
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SCALE: AS SHOWN JOB NUMBER: 21781060A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	10/25/2021	ISSUED FOR CONSTRUCTION	AH	DK



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SITE NAME:  
SOUTHFORD CT  
467915  
106 WILLENBROCK RD.  
OXFORD, CT 6478  
NEW HAVEN COUNTY

MT. LAUREL  
2000 Midland Drive,  
Suite 100  
Mt. Laurel, NJ 08054  
Phone: 856.797.0412  
COLLIERS ENGINEERING & DESIGN, INC.  
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:  
TITLE SHEET

SHEET NUMBER:  
ST-1

DESIGN CRITERIA
<b>WIND LOADS</b> BASIC WIND SPEED (3 SECOND GUST), V = 117 MPH EXPOSURE CATEGORY C TOPOGRAPHIC CATEGORY I MEAN BASE ELEVATION (AMSL) = 551'
<b>ICE LOADS</b> ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.00 IN
<b>SEISMIC LOADS</b> SEISMIC DESIGN CATEGORY B SHORT TERM MCER GROUND MOTION, S <sub>s</sub> = .198 LONG TERM MCER GROUND MOTION, S <sub>l</sub> = .054

PROJECT INFORMATION
<b>APPLICANT/LESSEE</b> COMPANY: VERIZON WIRELESS <b>CLIENT REPRESENTATIVE</b> COMPANY: VERIZON WIRELESS <b>PROJECT MANAGER</b> COMPANY: COLLIERS ENGINEERING & DESIGN CONTACT: PETER ALBANO PHONE: 856-797-0412 E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS
PMI LOCATION: HTTPS://PMI.VZWSMART.COM SMART TOOL PROJECT #: 10109013 VZW LOCATION CODE (PSLC): 467915 ANALYSIS DATE: 10/25/2021 PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

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

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**BILL OF MATERIALS**

**SECTION 1 - VZWSMART KITS**

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)	
3	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET		30	90	
12		VZWSMART-MSK1	CROSSOVER PLATE		14	168	
		-					
		-					
		-					
		-					
		-					
		-					

**SECTION 2 - OTHER REQUIRED PARTS**

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	-	-	155" LONG, P2 1/2 STD PIPE	GALVANIZED.	75	225
3	-	-	30" LONG, L3x3x1/4 ANGLE	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	13	39
<b>TOTAL:</b>						522

NOTES:

- THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
- ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

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



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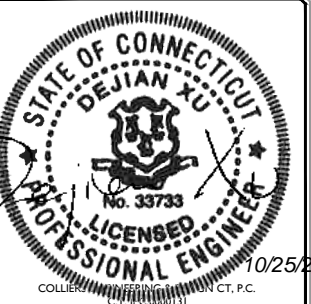
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SCALE: AS SHOWN JOB NUMBER: 21781060A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	10/25/2021	ISSUED FOR CONSTRUCTION	AH	DX

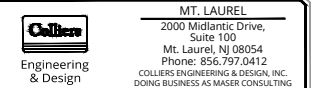


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**SITE NAME:**

**SOUTHFORD CT  
467915**

106 WILLENBROCK RD.  
OXFORD, CT 6478  
NEW HAVEN COUNTY



**BILL OF MATERIALS**

**SHEET NUMBER: SBOM-1**

**PROJECT NOTES**

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

CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.

- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

**STRUCTURAL STEEL**

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

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

- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
  - SUBMIT SHOP DRAWINGS TO  
PETER.ALBANO@COLLIERSENGINEERING.COM
  - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.

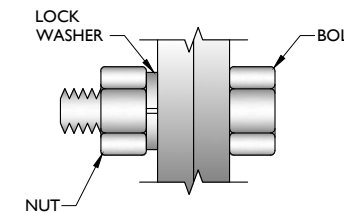
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

**WELDING NOTES**

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

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

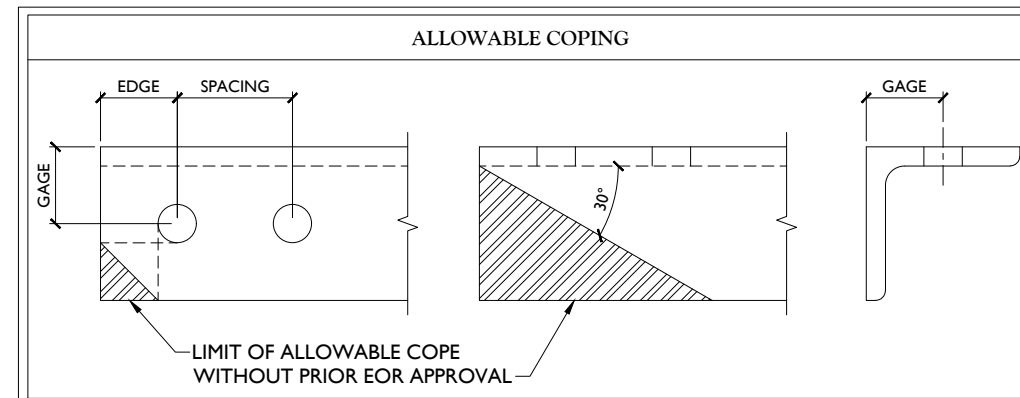
WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



**TYP. BOLT ASSEMBLY**

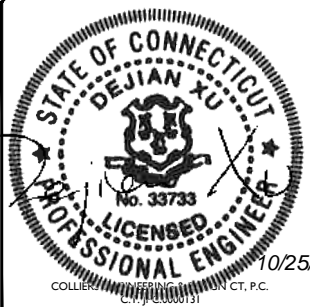
**NOTES:**

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



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SCALE:	AS SHOWN	JOB NUMBER:	21781060A
REV	DATE	DESCRIPTION	DRAWN BY / CHECKED BY
0	10/25/2021	ISSUED FOR CONSTRUCTION	AH / DK



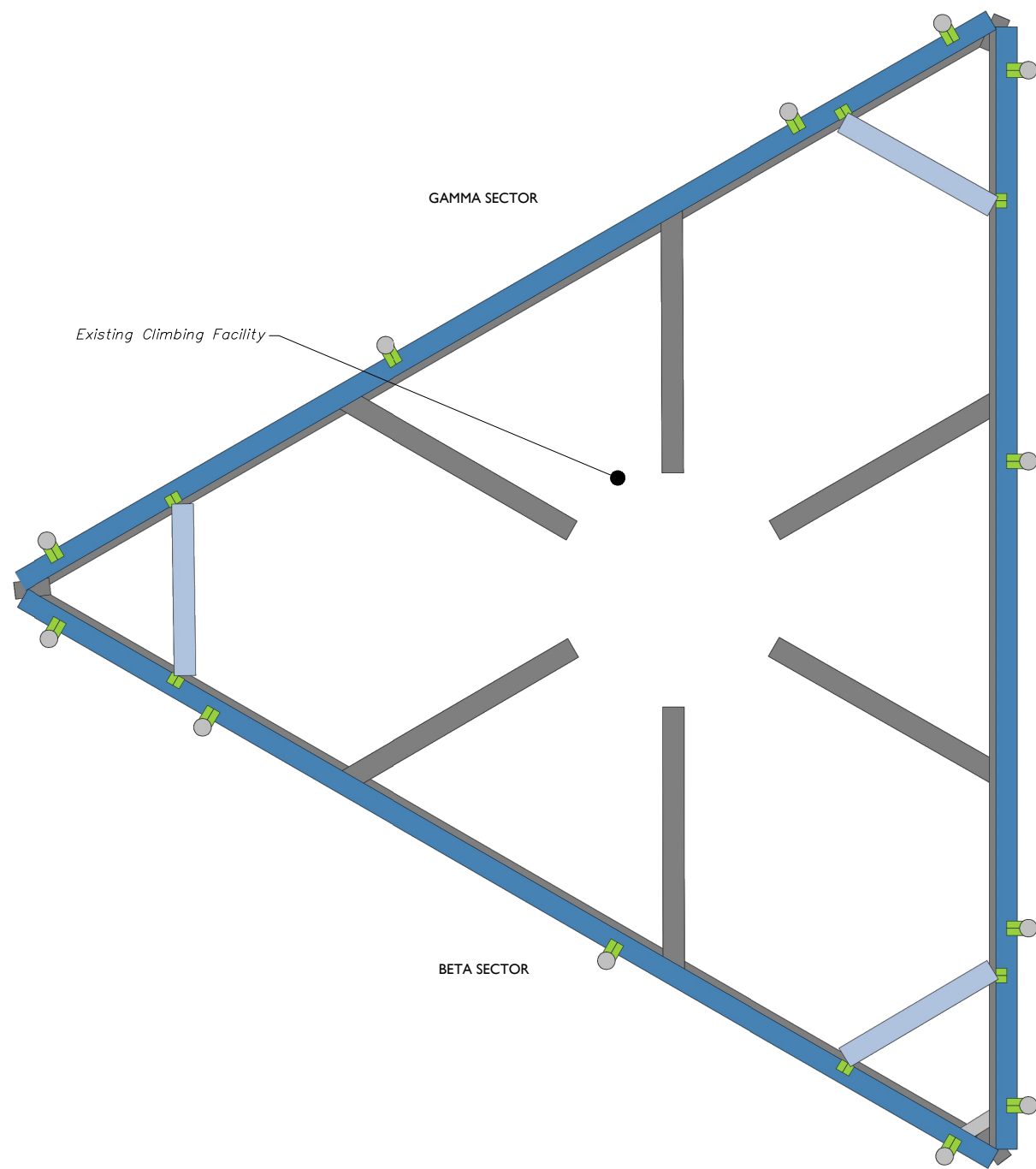
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2000 Midland Drive, Suite 100  
Mt. Laurel, NJ 08054  
Phone: 856.797.0412  
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DOING BUSINESS AS MASER CONSULTING

**MODIFICATION NOTES**

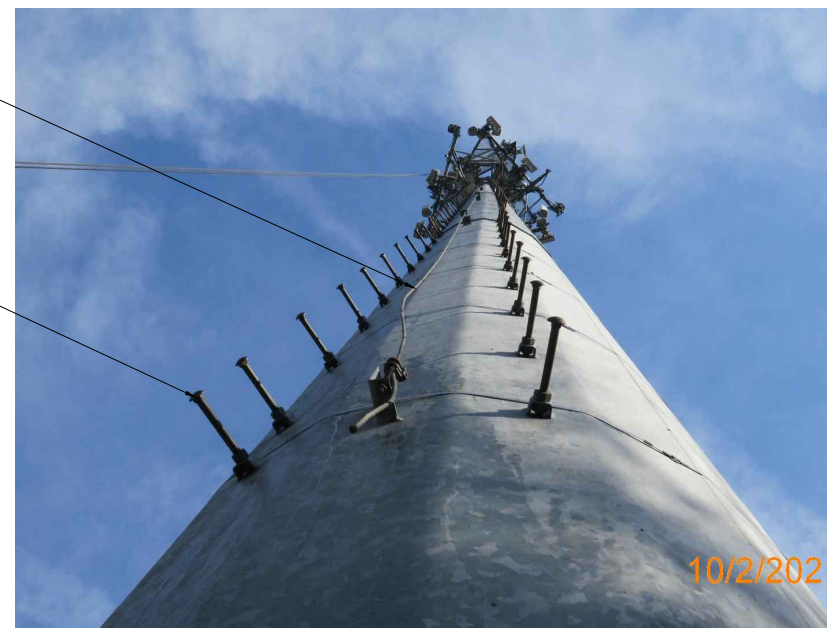
SHEET NUMBER: **SGN-I**



ALPHA SECTOR

Existing Safety Climb

Existing Climbing Facility



CLIMBING FACILITY PHOTO

1

CLIMBING FACILITY LOCATION

SCALE : N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY ONSIGHT SERVICES, LLC ON 10/2/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (135'-6") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

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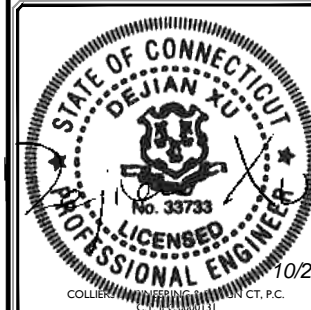
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**verizon**

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SCALE: AS SHOWN JOB NUMBER: 21781060A

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0	10/25/2021	ISSUED FOR CONSTRUCTION	AH	DK



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Mt. Laurel, NJ 08054  
Phone: 856.797.0412  
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SHEET TITLE:  
CLIMBING FACILITY DETAIL

SHEET NUMBER:  
SCF-1

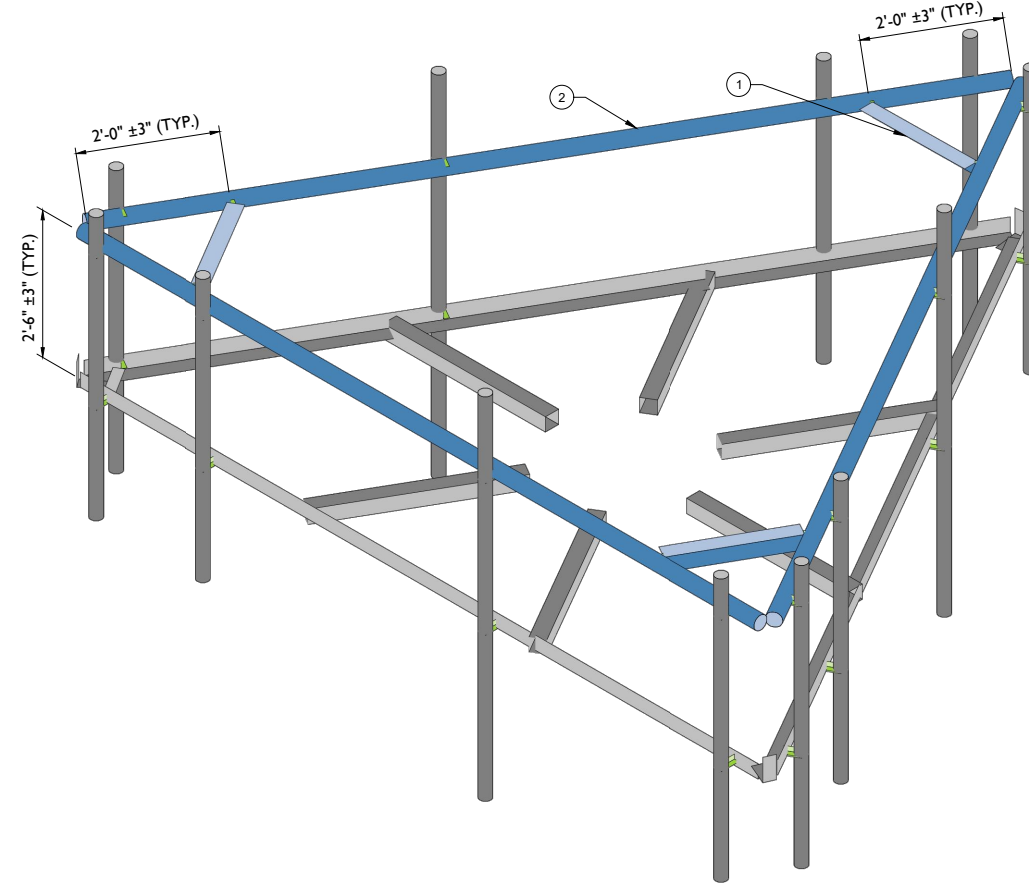


**LEGEND:**

- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE				
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1		3	PROPOSED SUPPORT RAIL CORNER BRACKET (PART #: VZWSMART-PLK3) WITH 30" LONG L3X3X1/4 ANGLE	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONTRACTOR SHALL CONNECT PROPOSED L3X3X1/4 ANGLES TO CORNER BRACKETS USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.
2	135'-6"	3	155" LONG, P2 1/2 STD PIPE	GALVANIZED. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

**NOTES:**  
MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1

**PROPOSED ISOMETRIC VIEW**

SCALE : N.T.S.

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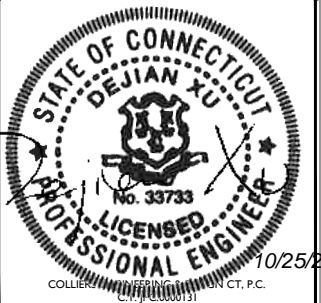
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SCALE: AS SHOWN JOB NUMBER: 21781060A

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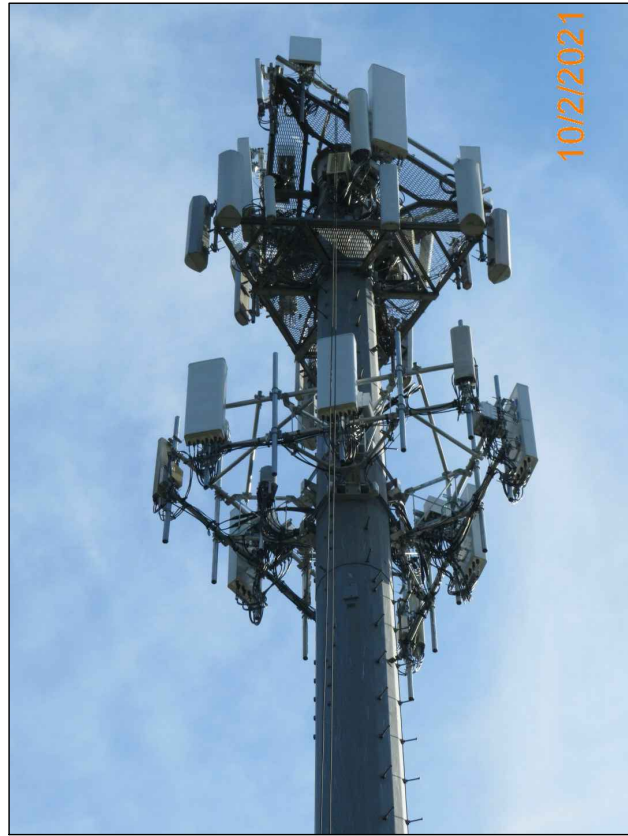
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NEW HAVEN COUNTY

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SHEET TITLE:  
**MODIFICATION DETAILS**

SHEET NUMBER:  
**SS-1**



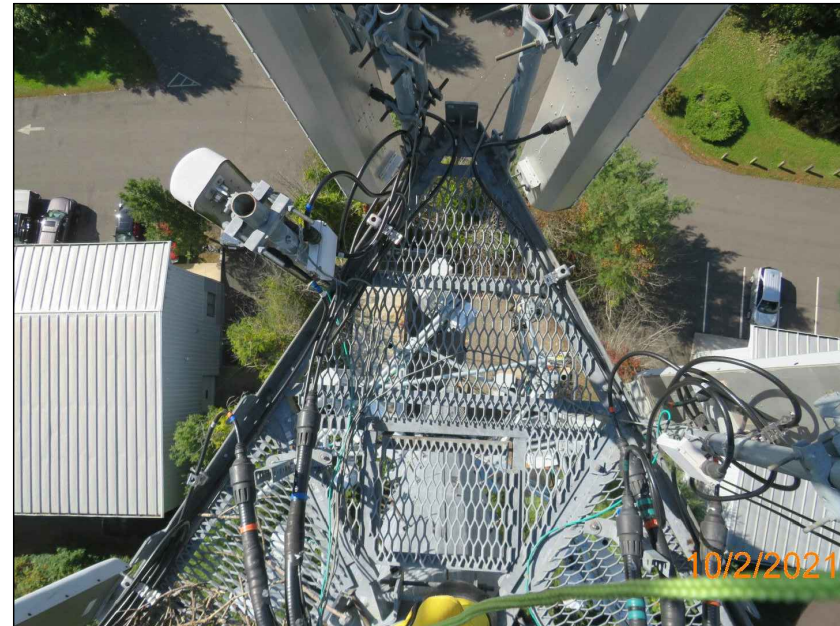
MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



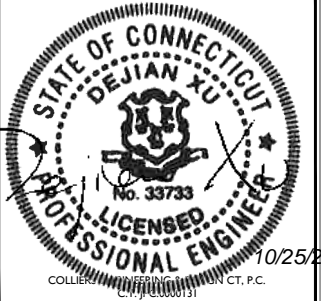
MOUNT PHOTO 4



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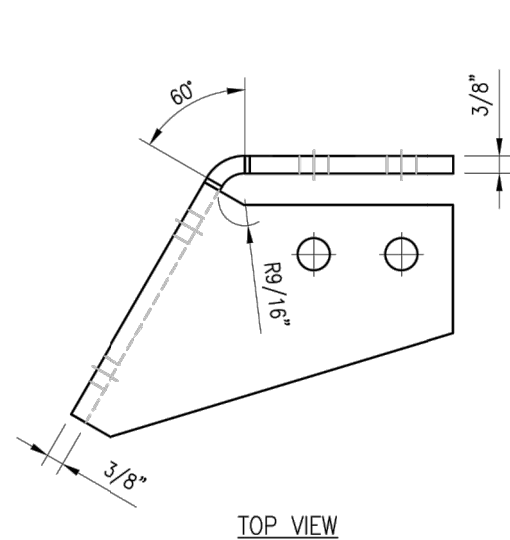
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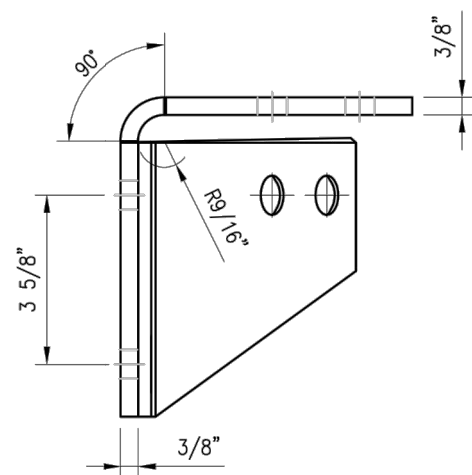
SHEET TITLE:  
 MOUNT PHOTOS

SHEET NUMBER:  
 SS-2

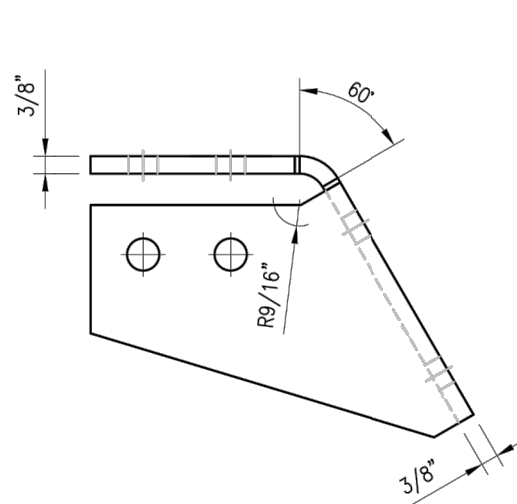


TOP VIEW

CBP-L

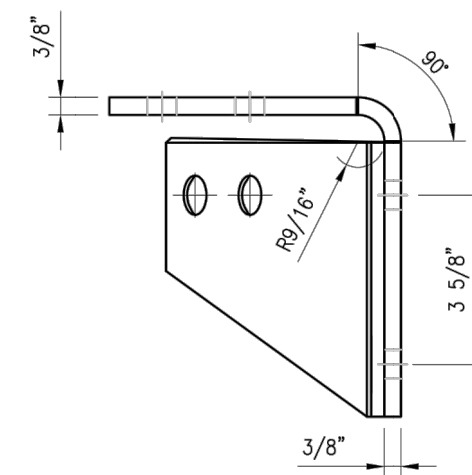


SIDE VIEW



TOP VIEW

CBP-R



SIDE VIEW

**NOTES:**

1. HOT-DIPPED GALVANIZED PER ASTM A123.

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

DRAWN BY: H.R. CHECKED BY: HMA

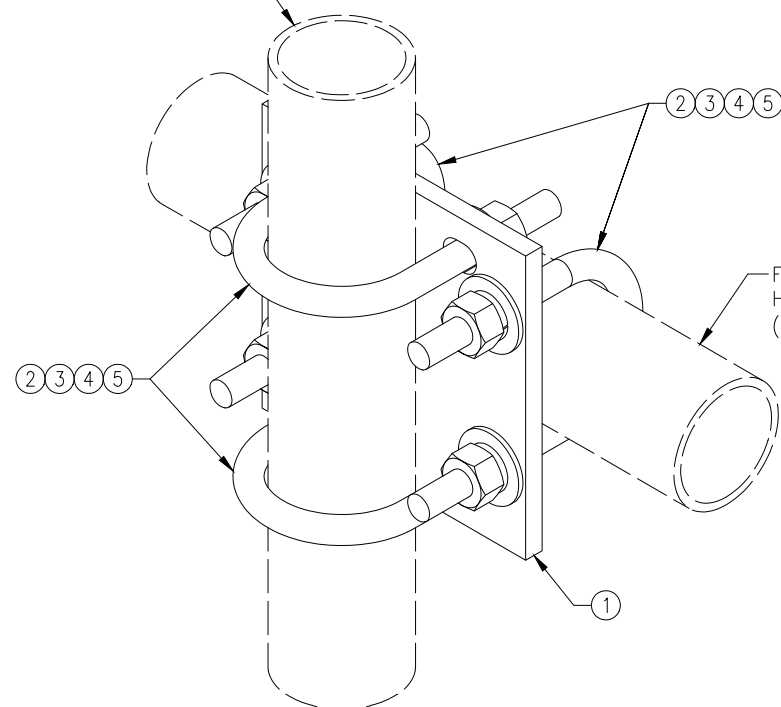
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R.	05/08/20
△			
△			
△			

SHEET TITLE:  
**VZSMART-PLK3  
 SUPPORT RAIL CORNER  
 BRACKET**

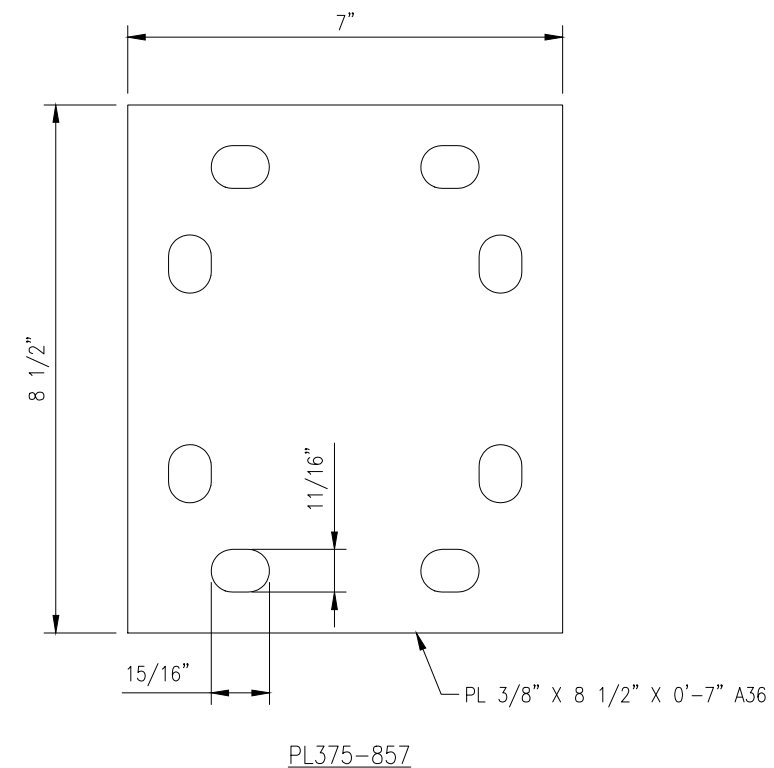
SHEET NUMBER: **VZSMART-PLK3** REV #: **0**



FITS 2.375" O.D. AND 2.875" O.D.  
 VERTICAL PIPE.  
 (NOT INCLUDED IN THIS KIT)



FITS 2.375" O.D. AND 2.875" O.D.  
 HORIZONTAL PIPE.  
 (NOT INCLUDED IN THIS KIT)

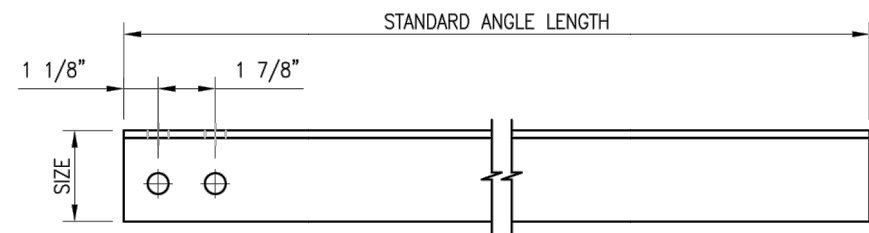
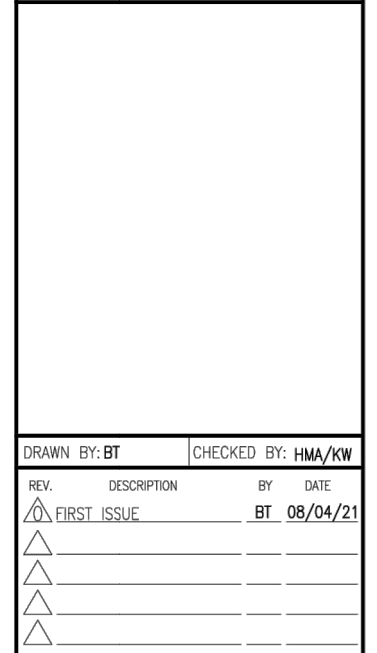
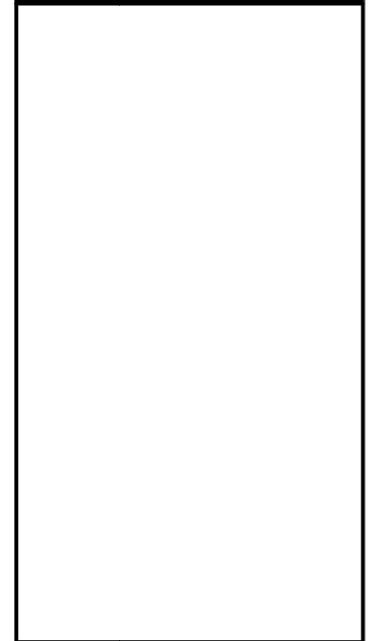


NOTES:  
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

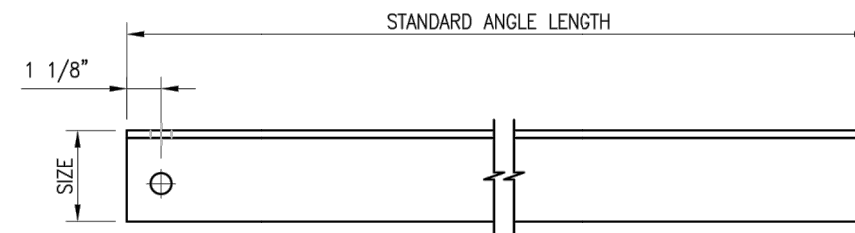
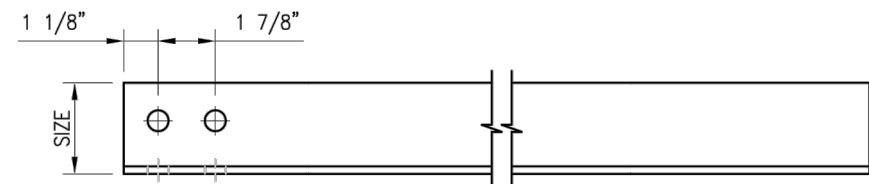
VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625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

DRAWN BY: H.R		CHECKED BY: HMA	
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R	05/08/20
△			
△			
△			

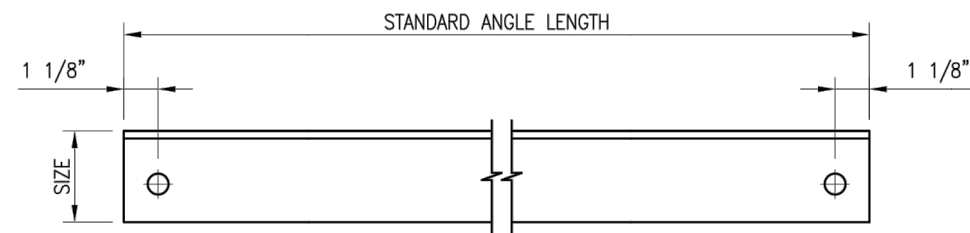
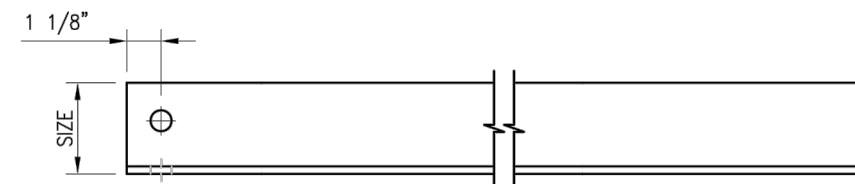
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VZWSMART-MSK1 CROSSOVER PLATE	
SHEET NUMBER:	REV #:
VZWSMART-MSK1	0



HOLE STYLE "A"

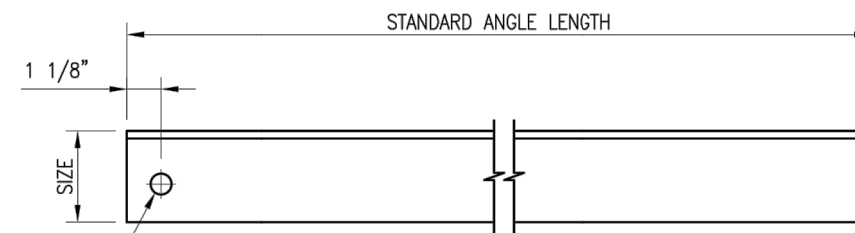


HOLE STYLE "B"

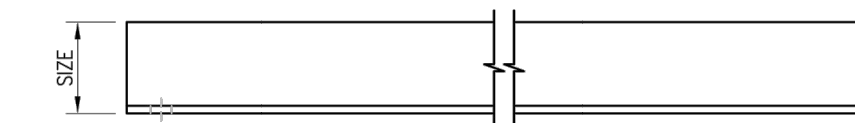


HOLE STYLE "C"

SEE NOTE "3" & "4"  
 (TYP)



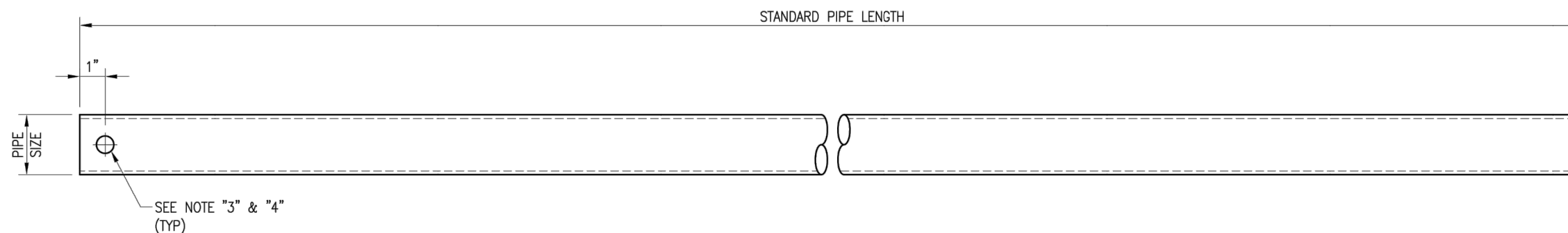
HOLE STYLE "D"



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

- NOTES:**
1. ALL ANGLE GRADE A36 OR BETTER.
  2. HOT-DIPPED GALVANIZED PER ASTM A123.
  3. ALL HOLES ARE 11/16" DIA. U.N.O
  4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
  5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

VZWSMART Standard Angle					
VZWSMART Number	Size	Length	Hole Style	Hole Gage	Also Used In:
A-PLK2-01	L 3" X 3" X 1/4"	96"	A	1-3/4"	VZWSMART-PLK2
A-PLK5-01	L 3" X 3" X 3/16"	96"	B	1-3/4"	VZWSMART-PLK5
A-SFK3-01	L 2-1/2" X 2-1/2" X 1/4"	96"	C	1-3/8"	VZWSMART-SFK3, -SFK3-SL, -PLK6, & -PLK8
A-L25X25X4X120	L 2-1/2" X 2-1/2" X 1/4"	120"	D	1-5/16"	
A-L25X25X4X240	L 2-1/2" X 2-1/2" X 1/4"	240"	D	1-5/16"	
A-L30X30X4X120	L 3" X 3" X 1/4"	120"	D	1-1/2"	
A-L30X30X4X240	L 3" X 3" X 1/4"	240"	D	1-1/2"	
A-L40X40X4X120	L 4" X 4" X 1/4"	120"	D	2"	
A-L40X40X4X240	L 4" X 4" X 1/4"	240"	D	2"	
A-L50X30X6X120	L 5" X 3" X 3/8"	120"	D	2-1/2"	
A-L50X50X6X120	L 5" X 5" X 3/8"	120"	D	2-1/2"	



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

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

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

DRAWN BY: BT | CHECKED BY: HMA/KW

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

SHEET TITLE:

VZSMART  
 STANDARD PIPE

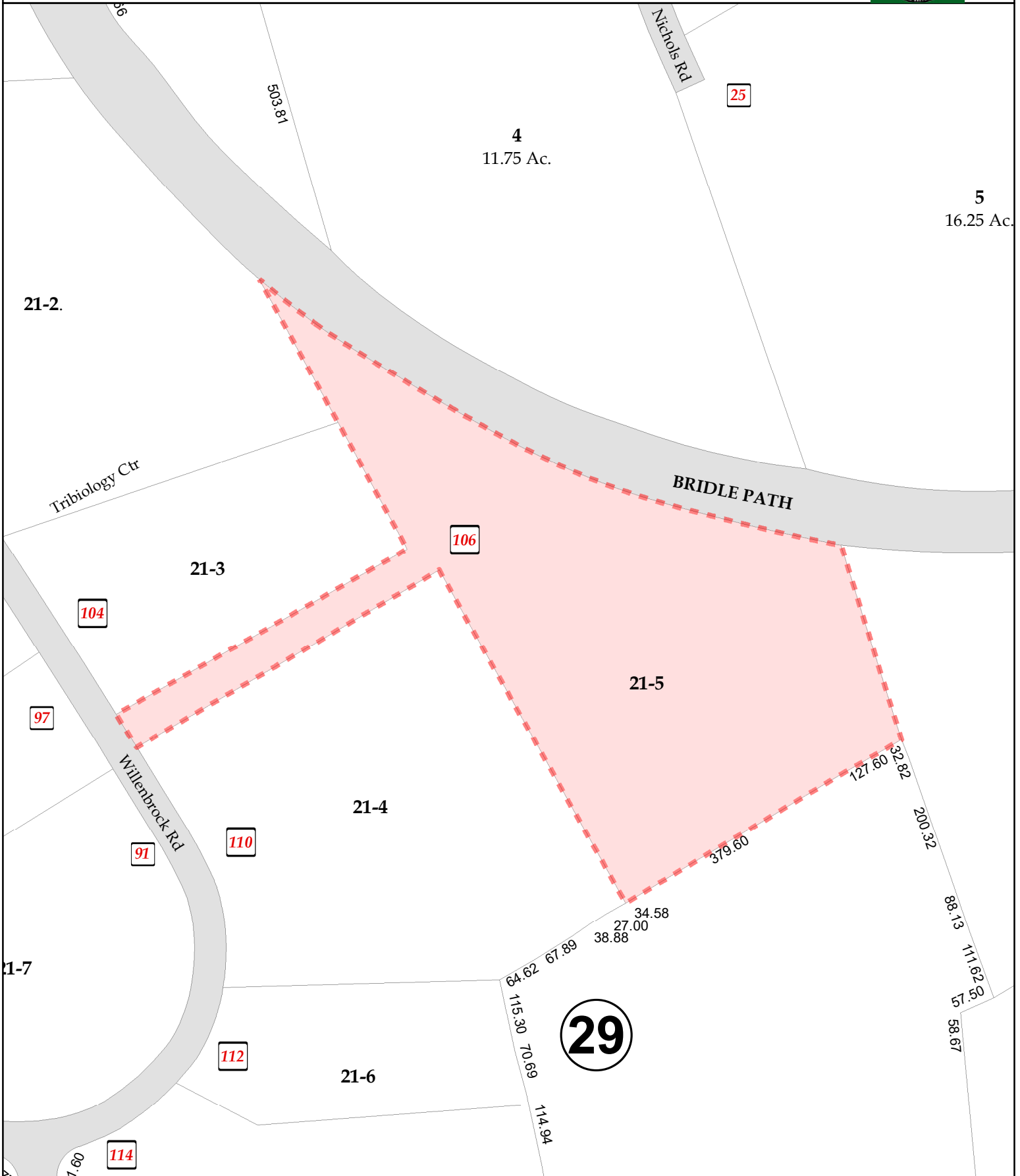
SHEET NUMBER: VZSMART-PIPE | REV #: 0

# **ATTACHMENT 5**

# Town of Oxford, Connecticut - Assessment Parcel Map

Parcel: 18-29-21-5

Location: 106 WILLENBROCK RD



Approximate Scale: 1 inch = 200 feet



Map Produced: February 2021

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





### Property Information

Owner	TOWER BUSINESS PARK LLC
Address	106 WILLENBROCK RD
Mailing Address	15 BATES PLACE DANBURY , CT 06810
Land Use	- Industrial
Land Class	I

Census Tract	R 4
Neighborhood	C06
Zoning	IND
Acreage	9.8
Utilities	
Lot Setting/ Desc	/

### Photo



### PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	652800	457000
Outbuildings	20200	14100
Improvements	674800	472400
Extras	1800	1300
Land	440400	308300
Total	1115200	780700
Previous		

### Construction Details

Year Built	
Stories	1.00
Building Style	Pre-Eng Warehs
Building Use	Ind/Comm
Building Condition	Average +20
Total Rooms	
Bedrooms	
Full Bathrooms	0
Half Bathrooms	
Bath Style	n/a
Kitchen Style	n/a
Roof Style	Gable
Roof Cover	Enam Mtl Shing

#### EXTERIOR WALLS:

Primary	Pre-finsh Metl
Secondary	

#### INTERIOR WALLS:

Primary	Minim/Masonry
Secondary	

#### FLOORS:

Primary	Concr-Finished
Secondary	

#### HEATING/AC:

Heating Type	Hot Air-no Duc
Heating Fuel	Gas
AC Type	None

#### BUILDING AREA:

Effective Building Area	
Gross Building Area	
Total Living Area	

#### SALES HISTORY:

Sale Date	10/24/2006
Sale Price	0
Book/ Page	319/1244

# **ATTACHMENT 6**



**SOUTHFORD  
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  <p style="font-size: 2em; color: blue;">3</p>	TOTAL NO. of Pieces Received at Post Office™  <p style="font-size: 2em; color: blue;">3</p>	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  
	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.	George Temple, First Selectman Town of Oxford 486 Oxford Road Oxford, CT 06478				
2.	Steven Macary, Zoning Enforcement Officer Town of Oxford 486 Oxford Road Oxford, CT 06478				
3.	Tower Business Park LLC 15 Bates Place Danbury, CT 06810				
4.					
5.					
6.					

