

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts
and New York

October 11, 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
175 Dickinson Street, Glastonbury, 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 Glastonbury (“Town”) in August of 2000. Cellco’s use of the tower was approved by the Siting Council (“Council”) in December of 2000 (TS-VER-054-001214). A copy of the Town’s approval and Council’s TS-VER-054-001214 approval are included in [Attachment 1](#).

Cellco now intends to modify its facility by removing nine (9) existing antennas and installing (3) new Samsung MT6407-77A antennas, three (3) new NHH-65B-R2B antennas, and three (3) new NHHSS-65B-R2BT4 antennas on the existing antenna platform. Cellco also intends install nine (9) new 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](#).

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 Glastonbury’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
October 11, 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 Cellco's 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. Cellco's general power density calculation and a cumulative Maximum Permissible Exposure table, including Cellco's proposed facility modifications, are 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 mount assemblies, 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.
October 11, 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:

Richard Johnson, Glastonbury Town Manager
Jonathan Mullen, Glastonbury Planner
Randall Chapman and Karrie-Lynne Bronzi, Property Owners
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

Town of Glastonbury



2155 MAIN STREET • P.O. BOX 6523 • GLASTONBURY, CONNECTICUT 06033-6523

DATE: August 15, 2000
 RE: Assessors Lot N3 Dickenson Road
 OWNER: Donald Chapman, Ronald Bronzi and Beverly Bronzi
 ZONE: RR

SBA, Inc., and Sprint PCS
 80 Eastern Boulevard
 Glastonbury, CT 06033

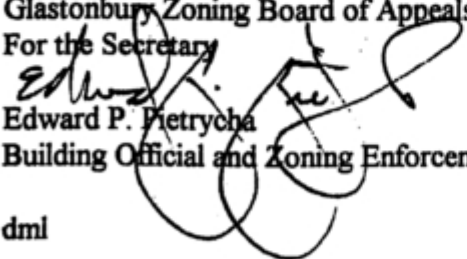
Dear Applicant(s):

Following a Public Hearing of your application on August 9, 2000, the following resolution was passed by the Zoning Board of Appeals:

The Board granted a special exception as provided for in Section 4.2.1 to construct a 180' monopole tower and the installation and operation of antennas and associated equipment for wireless communication system at assessors Lot N3 Dickenson Road as it meets all the requirements of Section 13.9.

The approval will become effective when it is recorded by the property owner in the Town Clerk's Office but to satisfy the provisions of Section 13.10 of the Glastonbury Building Zone Regulations concerning expiration, this approval shall become null and void two years from August 10, 2000, unless substantial construction on a building or structure or use is established on a lot.

This decision is based upon and subject to the representations made and evidence produced by the applicant(s) at the Public Hearing.

Glastonbury Zoning Board of Appeals
 For the Secretary

 Edward P. Pietrycha
 Building Official and Zoning Enforcement Officer

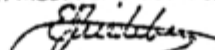
dml

cc: Wendell G. Davis, Jr., Cranmore, FitzGerald & Meaney, 49 Wethersfield Avenue, Hartford, CT.

GLASTONBURY, CT
 RECEIVED

2000 AUG 22 AM 9:32

VOL. _____ FALL _____
 E. J. FRIEDEBERG, TOWN CLERK



December 22, 2000

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

RE: **TS-VER-054-001214** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 175 Dickinson Road, Glastonbury, Connecticut.

Dear Ms. Carter:

At a public meeting held December 19, 2000, 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 December 14, 2000.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Kurt P. Cavanaugh, Chairman Town Council, Town of Glastonbury
Richard J. Johnson, Town Manager, Town of Glastonbury
Ester McNany, SBA, Inc.
Julie M. Cashin, Esq., Hurwitz & Sagarin LLC

ATTACHMENT 2



SITE NAME: E GLASTONBURY 2 CT

175 DICKINSON ROAD
GLASTONBURY, CT 06033
TOWN OF GLASTONBURY
HARTFORD COUNTY



Know what's below.
Call before you dig.



NB+C ENGINEERING SERVICES, LLC.
110 MARSHALL DRIVE
SUITE 100
CHESHAMBOURNE, MA 01524
(978) 686-0238



118 FLANDERS ROAD
FLOOR 3
WESTBOROUGH, MA 01581

SITE INFORMATION

SITE ADDRESS: 175 DICKINSON ROAD
GLASTONBURY, CT 06033

LATITUDE (NAD 83): 41°-39'-21.24"N (41.65590°)
LONGITUDE (NAD 83): 72°-31'-23.79"W (-72.523275°)

JURISDICTION: TOWN OF GLASTONBURY
HARTFORD COUNTY

PROPERTY OWNER: CHAPMAN RANDALL S+BRONZI KARRIE-LYNNE
P.O. BOX 7
TROY, ME 04987

TOWER OWNER: SBA COMMUNICATIONS CORPORATION
8051 CONGRESS AVENUE
BOCA RATON, FL 33487-1307

VZW SITE ID: 323805

STRUCTURE TYPE: MONOPOLE

CONSTRUCTION TYPE: II B

USE GROUP: U

VICINITY MAP



DRAWING INDEX

T-1	TITLE SHEET
C-1	COMPOUND PLAN
C-2	ELEVATION
A-1	EXISTING ANTENNA PLAN & SCHEDULE
A-2	PROPOSED ANTENNA PLAN & SCHEDULE
A-3	ANTENNA DETAILS & PLUMBING DIAGRAM
A-4	EQUIPMENT SPECIFICATIONS & DETAILS
A-5	SCOPE OF WORK
G-1	GROUNDING DETAILS & NOTES
GN-1	PMI REQUIREMENTS
	MODIFICATION DRAWINGS ATTACHED

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

SCOPE OF WORK

PROJECT CONSISTS OF INSTALLING: (9) PROPOSED ANTENNAS, (3) PROPOSED DUAL ANTENNA MOUNTS, (12) PROPOSED RRHs, (2) PROPOSED 6X12 (1.43'Ø) HYBRID CABLE(S), AND (2) PROPOSED OVP-6s TO AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.

PROJECT CONSISTS OF REMOVING: (9) EXISTING ANTENNAS, (3) EXISTING RRHs, AND (12) EXISTING 1-5/8" COAX CABLES FROM AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT: [HTTPS://PMI.VZWSMART.COM](https://pmi.vzwsmart.com)

SMART TOOL VENDOR PROJECT NUMBER: 100765

VERIZON LOCATION CODE (PSLC): 468152

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

MOUNT MODIFICATION REQUIRED

YES

VERIZON APPROVED VENDORS

* REFER TO MOUNT MODIFICATION DRAWINGS.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2018 CT STATE BUILDING CODE / (2015 IBC W/ CT AMENDMENTS)
- 2018 CT STATE BUILDING CODE / (2015 IMC W/ CT AMENDMENTS)
- 2018 CT STATE BUILDING CODE / (2020 NEC W/ CT AMENDMENTS)
- NFPA 1-2015 EDITION
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSI/TIA-222-G
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSI/T 311

APPROVAL BLOCK

	DATE	APPROVED	APPROVED AS NOTED	DISAPPROVED/REVISE
CONSTRUCTION MANAGER	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SITE ACQUISITION	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF ENGINEER	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LESSOR/LESSOR REP	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

SHEET NUMBER

E GLASTONBURY 2 CT
175 DICKINSON ROAD
GLASTONBURY, CT 06033
TOWN OF GLASTONBURY
HARTFORD COUNTY

REVISIONS

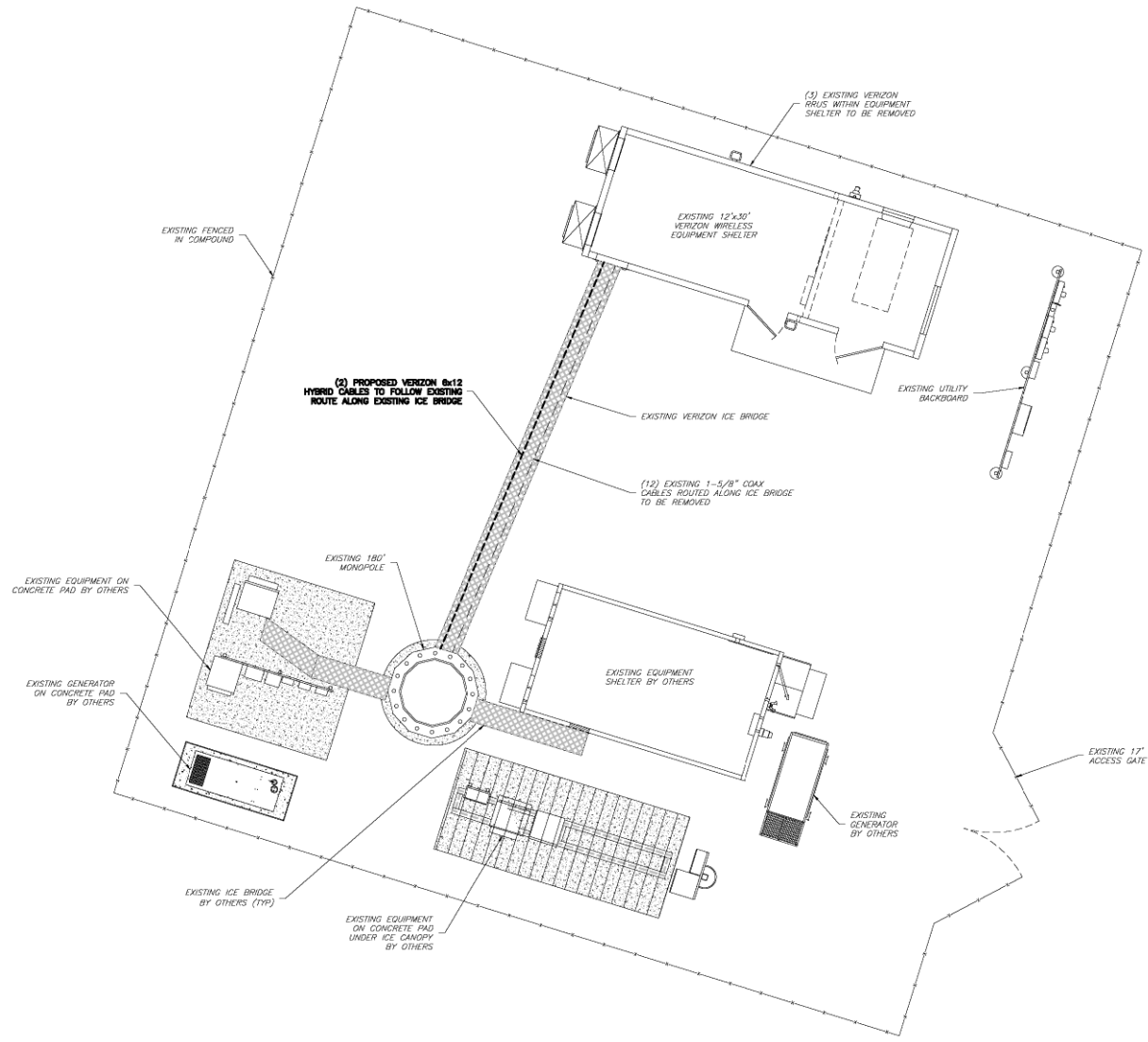
REV	DATE	DESCRIPTION	BY
0	10/09/22	FINAL CDR	CSG



DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC #34055

TITLE SHEET

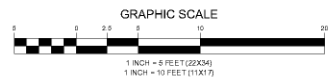
T-1






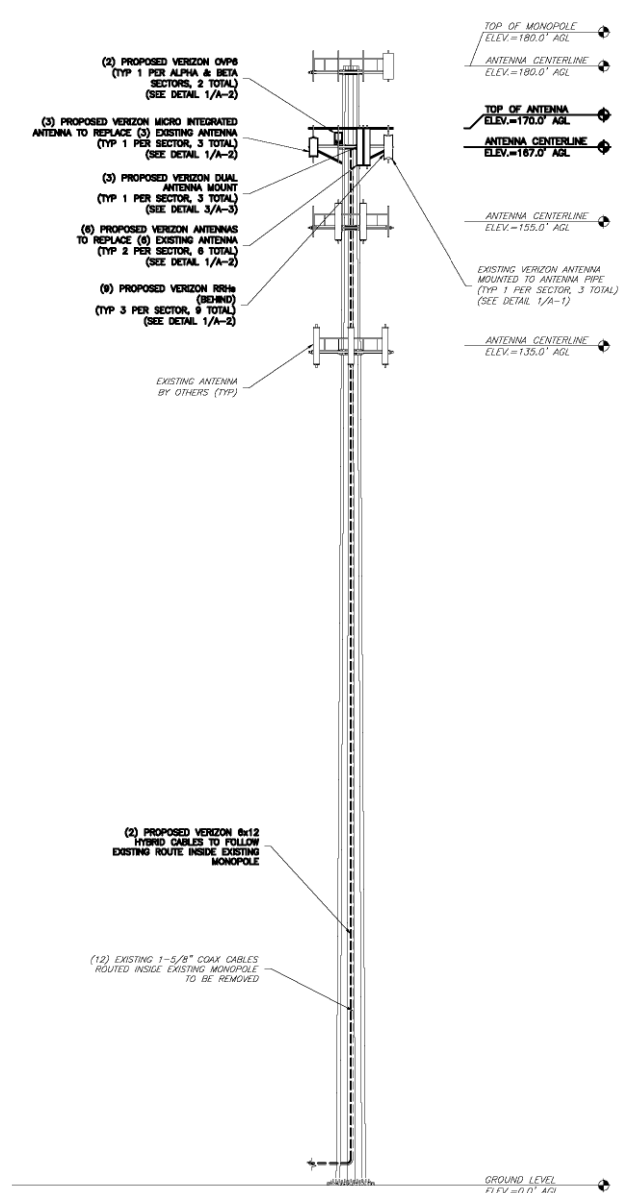
GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. 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. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
8. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
9. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
10. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
11. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
12. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
13. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
14. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.

1 COMPOUND PLAN
 SCALE: 1" = 5' (22X34)
 SCALE: 1" = 10' (11X17)



ENGINEER	 TOTALLY COMMITTED. <small>NB+C ENGINEERING SERVICES, LLC. 110 HULL STREET SUITE 100 CHESTERFIELD, MA 01524 (978) 666-0238</small>																		
APPLICANT	 118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581																		
SITE INFORMATION	E GLASTONBURY 2 CT 175 DICKINSON ROAD GLASTONBURY, CT 06033 TOWN OF GLASTONBURY HARTFORD COUNTY																		
DESIGN RECORD	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">REVISIONS</th> </tr> <tr> <th style="width: 10%;">REV</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">10/09/22</td> <td style="text-align: center;">FINAL CDG</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </tbody> </table>	REVISIONS			REV	DATE	DESCRIPTION	0	10/09/22	FINAL CDG									
REVISIONS																			
REV	DATE	DESCRIPTION																	
0	10/09/22	FINAL CDG																	
PROFESSIONAL STAMP																			
ENGINEER	DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC #34055																		
SHEET TITLE	COMPOUND PLAN																		
SHEET NUMBER	C-1																		



NOTE:
 POST-MODIFICATION INSPECTION (PMI) REQUIRED ON ALL SITES. REFER TO THE MOUNT ANALYSIS PREPARED BY MASER CONSULTING DATED 06/24/2022 FOR ADDITIONAL DETAILS.

NOTE:
 MOUNT MODIFICATIONS ARE REQUIRED BEFORE ANY INSTALL CAN OCCUR. PLEASE REFER TO THE MOUNT MODIFICATION DRAWINGS PROVIDED BY COLLIER ENGINEERING & DESIGN, DBA, MASER CONSULTING DATED, 06/24/2022.



E GLASTONBURY 2 CT
 175 DICKINSON ROAD
 GLASTONBURY, CT 06033
 TOWN OF GLASTONBURY
 HARTFORD COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
0	10/09/22	FINAL CDR	CSG

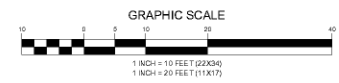


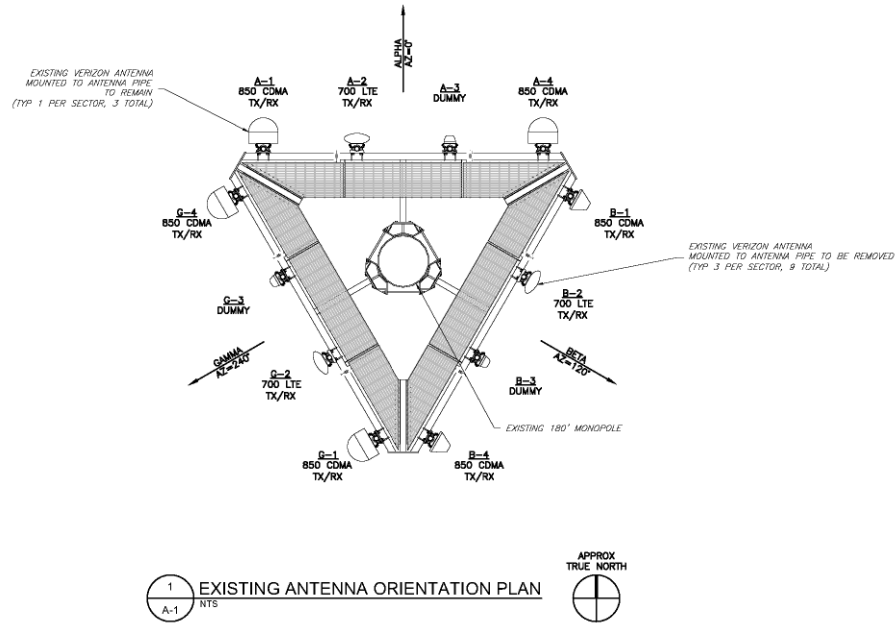
DANIEL J. CORNING, P.E.
 CT PROFESSIONAL ENGINEER LIC #34055

ELEVATION

C-2

1
 C-2
ELEVATION
 SCALE: 1" = 10' (22X34)
 SCALE: 1" = 20' (11X17)





EXISTING ANTENNA & RRH SCHEDULE

ANTENNA POSITION	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER	AZIMUTH	DOWN TILT		RRH QUANTITY & MODEL	TECHNOLOGY	CABLE SIZE, LENGTH & QUANTITY
					MECH	ELEC			
A-1	ANTEL	LPA-80063-4CF-EDIN-4	167.00'	0°	0°	4°	-	-	(4) 1-5/8" CDMA CABLES (203'±)
A-2	AMPHENOL	BXA-70063-6CF	167.00'	0°	0°	0°	(1) UHBC B13 TRDU 2K40	700	
A-3	ANTEL	BXA-171085-8BF-2	167.00'	0°	-	-	-	-	
A-4	ANTEL	LPA-80063-4CF-EDIN-4	167.00'	0°	0°	4°	-	-	
B-1	RFS	APL868013	167.00'	120°	0°	0°	-	-	(4) 1-5/8" CDMA CABLES (203'±)
B-2	AMPHENOL	BXA-70063-6CF	167.00'	120°	0°	0°	(1) UHBC B13 TRDU 2K40	700	
B-3	ANTEL	BXA-171085-8BF-2	167.00'	120°	-	-	-	-	
B-4	RFS	APL868013	167.00'	120°	0°	0°	-	-	
G-1	ANTEL	LPA-80063-4CF-EDIN-4	167.00'	240°	0°	4°	-	-	(4) 1-5/8" CDMA CABLES (203'±)
G-2	AMPHENOL	BXA-70063-6CF	167.00'	240°	0°	0°	(1) UHBC B13 TRDU 2K40	700	
G-3	ANTEL	BXA-171085-8BF-2	167.00'	240°	-	-	-	-	
G-4	ANTEL	LPA-80063-4CF-EDIN-4	167.00'	240°	0°	4°	-	-	

NOTES:
 1. PLANS PREPARED PER RF SHEET DATED 04/27/2022. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
 2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

ENGINEER: **NB+C** TOTALLY COMMITTED. NB+C ENGINEERING SERVICES, LLC. 110 WALL STREET SUITE 210 CHESHAMBOUR MA 01524 (978) 686-0234

APPLICANT: **verizon** 118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581

SITE INFORMATION: **E GLASTONBURY 2 CT** 175 DICKINSON ROAD GLASTONBURY, CT 06033 TOWN OF GLASTONBURY HARTFORD COUNTY

DESIGN RECORD: REVISIONS

REV	DATE	DESCRIPTION	BY
0	10/09/22	FINAL CDG	CSG

PROFESSIONAL STAMP: STATE OF CONNECTICUT DANIEL J. CORNING 34055 LICENSED PROFESSIONAL ENGINEER

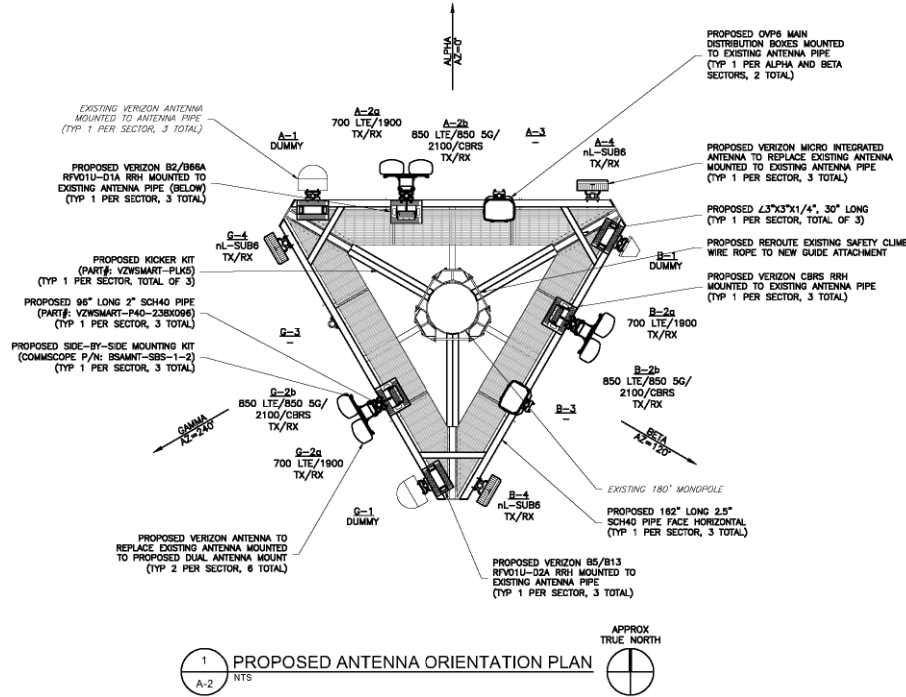
ENGINEER: DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC #34055

SHEET TITLE: **EXISTING ANTENNA PLAN & SCHEDULE**

SHEET NUMBER: **A-1**

GENERAL ANTENNA NOTES

- ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR IS TO COORDINATE AND VERIFY THE PROPOSED DOWNTILTS WITH VERIZON MANAGER PRIOR TO CONSTRUCTION.
- ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0' (EXISTING GRADE)
- CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH.
- CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- ALL CABLE LENGTHS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- COLOR TAPE MARKINGS MUST BE 3/4" WIDE AND UV RESISTANT, SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE.
- CONTRACTOR SHALL COORDINATE COLOR CODINGS IN THE FIELD WITH VERIZON REPRESENTATIVE.
- PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES. THE OWNER'S AGENT SHALL FURNISH A CERTIFICATION LETTER SEALED BY A REGISTERED PROFESSIONAL ENGINEER STATING THAT THIS STRUCTURAL ANALYSIS WAS PREPARED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.



NOTE:
POST-MODIFICATION INSPECTION (PMI) REQUIRED ON ALL SITES. REFER TO THE MOUNT ANALYSIS PREPARED BY MASER CONSULTING DATED 08/24/2022 FOR ADDITIONAL DETAILS.

NOTE:
MOUNT MODIFICATIONS ARE REQUIRED BEFORE ANY INSTALL CAN OCCUR. PLEASE REFER TO THE MOUNT MODIFICATION DRAWINGS PROVIDED BY COLLIER ENGINEERING & DESIGN, DBA, MASER CONSULTING DATED, 08/24/2022.

1
A-2
NTS
PROPOSED ANTENNA ORIENTATION PLAN

PROPOSED ANTENNA & RRH SCHEDULE

ANTENNA POSITION	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER	AZIMUTH	DOWN TILT		RRH QUANTITY & MODEL	TECHNOLOGY	CABLE SIZE, QUANTITY, & LENGTH
					MECH	ELEG			
A-1	ANTEL	LPA-80083-4CF-EDN-4	167.00°	0°	-	-	-	-	(1) 6x12 HYBRID CABLE (203'±)
A-2a	COMMSCOPE	NHH-859-R2B	167.00°	0°	0°/0°/0°	0°/0°/0°	(1) RF44400-13A (1) RF44390-25A	700/850 PCS/AWS CBR5	
A-2b	COMMSCOPE	NHHSS-859-R2BT4	167.00°	0°	0°/0°	0°/0°	(1) CBR5 RRH-RT4401-4BA	-	
A-3	EMPTY	-	-	-	-	-	-	-	
A-4	SAMSUNG	MT8407-77A	167.00°	0°	0°	6°	INTEGRATED IN ANTENNA	nL-Sub6	
B-1	RFS	APL868013	167.00°	120°	-	-	-	-	(1) 6x12 HYBRID CABLE (203'±)
B-2a	COMMSCOPE	NHH-859-R2B	167.00°	120°	0°/0°/0°	0°/0°/0°	(1) RF44400-13A (1) RF44390-25A	700/850 PCS/AWS CBR5	
B-2b	COMMSCOPE	NHHSS-859-R2BT4	167.00°	120°	0°/0°	0°/0°	(1) CBR5 RRH-RT4401-4BA	-	
B-3	EMPTY	-	-	-	-	-	-	-	
B-4	SAMSUNG	MT8407-77A	167.00°	120°	0°	6°	INTEGRATED IN ANTENNA	nL-Sub6	
G-1	ANTEL	LPA-80083-4CF-EDN-4	167.00°	240°	-	-	-	-	SHARED W/BETA SECTOR
G-2a	COMMSCOPE	NHH-859-R2B	167.00°	240°	0°/0°/0°	0°/0°/0°	(1) RF44400-13A (1) RF44390-25A	700/850 PCS/AWS CBR5	
G-2b	COMMSCOPE	NHHSS-859-R2BT4	167.00°	240°	0°/0°	0°/0°	(1) CBR5 RRH-RT4401-4BA	-	
G-3	EMPTY	-	-	-	-	-	-	-	
G-4	SAMSUNG	MT8407-77A	167.00°	240°	0°	6°	INTEGRATED IN ANTENNA	nL-Sub6	

- NOTES:**
- CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
 - CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE TO BUILD FROM THE LATEST RF SHEET.

NB+C
TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
110 HUNTERS CREEK
SUITE 210
COLUMBIANA, MA 01524
(978) 688-0238

verizon

118 FLANDERS ROAD
FLOOR 3
WESTBOROUGH, MA 01581

E GLASTONBURY 2 CT
175 DICKINSON ROAD
GLASTONBURY, CT 06033
TOWN OF GLASTONBURY
HARTFORD COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
0	10/09/22	FINAL CDG	CSG

STATE OF CONNECTICUT
DANIEL J. CORNING
34055
LICENSED PROFESSIONAL ENGINEER

DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC #34055

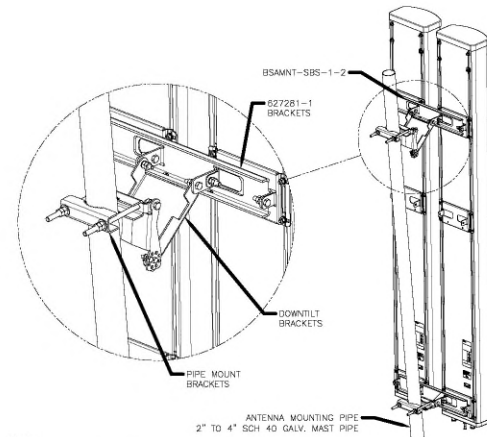
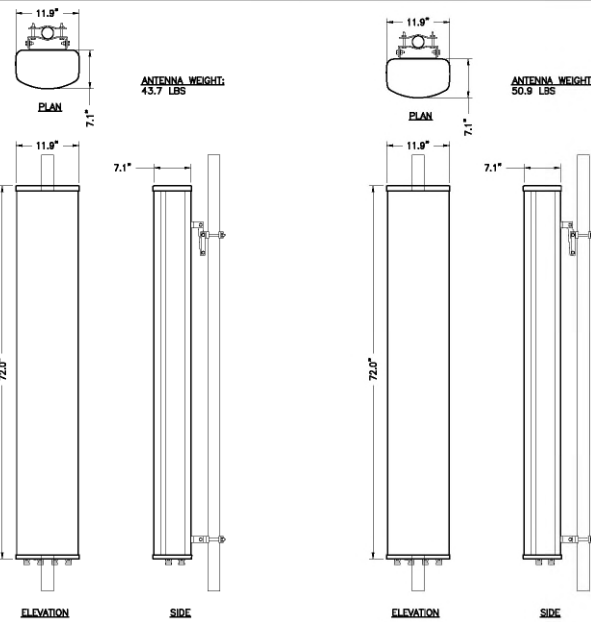
PROPOSED ANTENNA PLAN & SCHEDULE

A-2

EXISTING ANTENNA SPECIFICATIONS						
ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
RFS	ALPB68013	1	48.0"	6.0"	8.0"	8.2 LBS
ANTEL	LPA-80063-KCF-EDN-4	2	47.4"	15.2"	13.2"	20.0 LBS
RFS	*ALPB68013	1	48.0"	6.0"	8.0"	8.2 LBS
ANTEL	*LPA-80063-KCF-EDN-4	2	47.4"	15.2"	13.2"	20.0 LBS
AMPHENOL	*BXA-70063-6CF	3	71.0"	11.2"	5.2"	17.0 LBS
ANTEL	*BXA-171085-BBF-2	3	48.5"	6.1"	4.1"	10.5 LBS

* TO BE REMOVED

PROPOSED ANTENNA SPECIFICATIONS						
ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
COMMSCOPE	NHH-65B-R2B	3	72.0"	11.9"	7.1"	43.7 LBS
COMMSCOPE	NHSS-65B-R2BT4	3	72.0"	11.9"	7.1"	50.9 LBS
SAMSUNG	MT6407-77A	3	35.12"	16.06"	5.51"	81.5 LBS

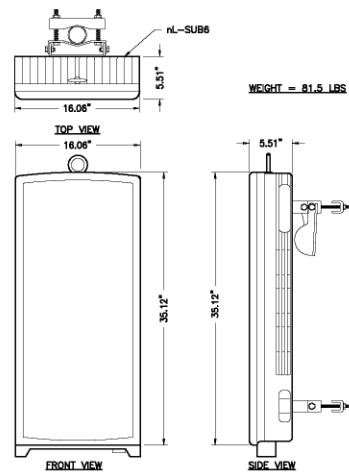


NOTES:
 - BSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
 - TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURER'S RECOMMENDATIONS.

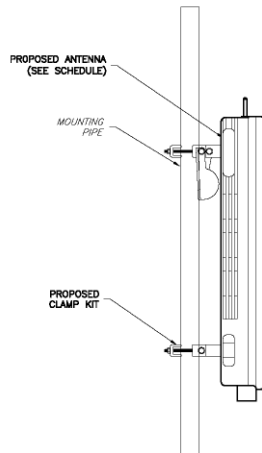
1 NHH-65B-R2B ANTENNA DETAILS
A-3 NTS

2 NHSS-65B-R2BT4 ANTENNA DETAILS
A-3 NTS

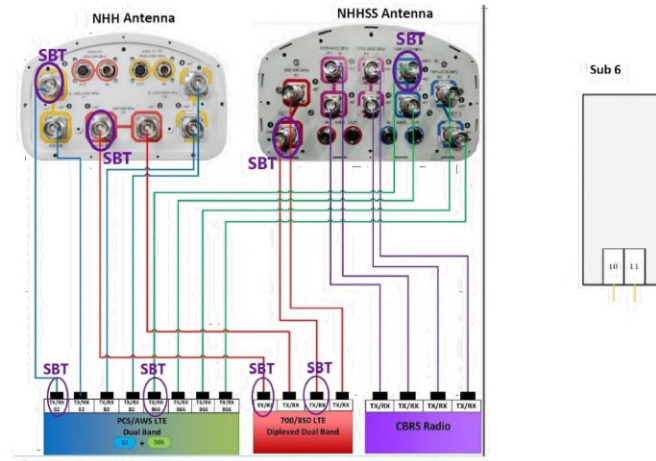
3 COMMSCOPE DUAL ANTENNA MOUNTING
A-3 NTS



4 MT6407-77A INTEGRATED ANTENNA
A-3 NTS



5 ANTENNA MOUNTING
A-3 NTS



RFDS DATED 04/27/22, 14:38:28



E GLASTONBURY 2 CT
 175 DICKINSON ROAD
 GLASTONBURY, CT 06033
 TOWN OF GLASTONBURY
 HARTFORD COUNTY

REVISIONS			
REV	DATE	DESCRIPTION	BY
0	10/09/22	FINAL CDR	CSG



DANIEL J. CORNING, P.E.
 CT PROFESSIONAL ENGINEER LIC #34055

ANTENNA DETAILS & PLUMBING DIAGRAM

A-3

REVISIONS

REV	DATE	DESCRIPTION	BY
0	10/09/22	FINAL CDR	CSG



DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC #34055

EQUIPMENT SPECIFICATIONS & DETAILS

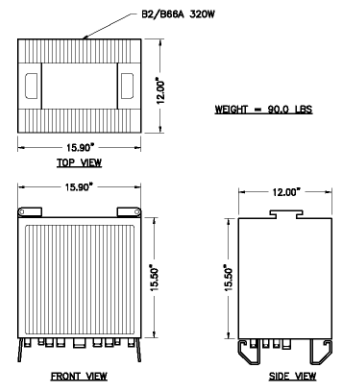
A-4

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
LUCENT	*JHBC B13 TRDU 2X40	SHELTER	3	21.60"	12"	9.0"	56.7 LBS

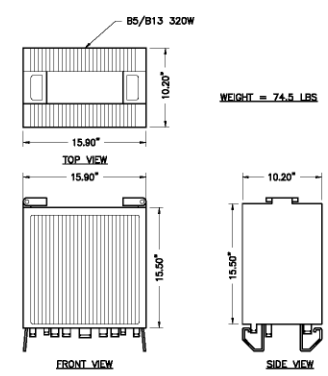
* TO BE REMOVED

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
SAMSUNG	RF4440d-13A	MONOPOLE	3	15.50"	15.90"	10.20"	74.5 LBS
SAMSUNG	RF4439d-25A	MONOPOLE	3	15.50"	15.90"	12.00"	90.0 LBS
SAMSUNG	CBRS RRH-RT4401-48A	MONOPOLE	3	13.9"	8.6"	5.6"	22.0 LBS

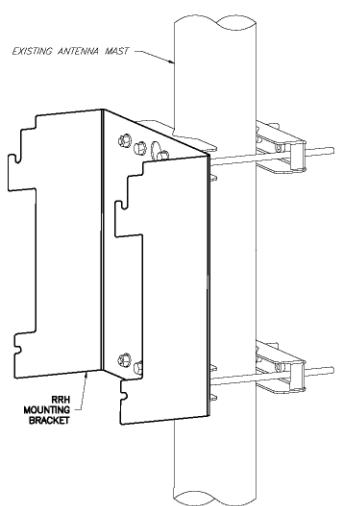
MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
RAYCAP	RC3DC-3315-PF-48 (OVP6)	MONOPOLE	2	28.93"	15.73"	10.3"	32.0 LBS



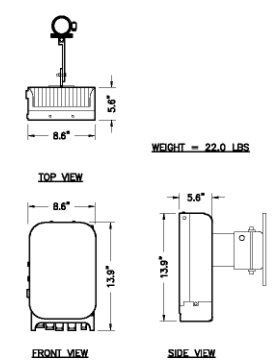
1 B2/B66A RF4439D-25A (REMOTE RADIO HEAD)
A-4 NTS



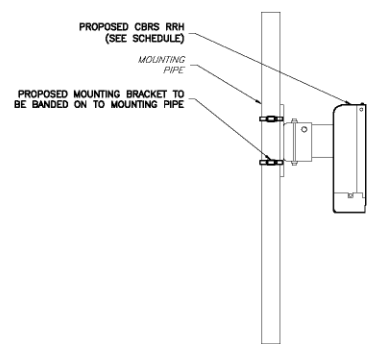
2 B5/B13 RF4440D-13A (REMOTE RADIO HEAD)
A-4 NTS



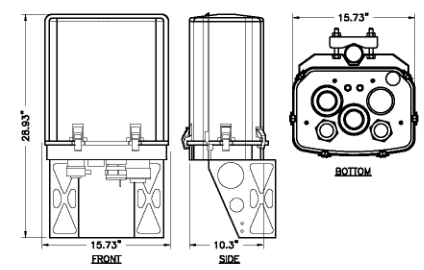
3 RRH MOUNTING DETAIL
A-4 NTS



4 CBRS RT4401-48A RRH
A-4 NTS



5 CBRS RRH MOUNTING DETAILS
A-4 NTS



6 OVP6 DISTRIBUTION BOX DETAIL
A-4 NTS

VERIZON WIRELESS CONTRACTOR SCOPE OF WORK

MOP FOR RET INSTALLS

- VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL THE PROPOSED CABLE JUMPER (WITH LC TO LC CONNECTORS) FROM THE PROPOSED FIBER TRAYS TO THE PROPOSED MAIN DISTRIBUTION BOX (BOTTOM).
 - VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL ALL MOUNTING HARDWARE AND 1/2" ANTENNA JUMPER CABLES AS REQUIRED DURING CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL THE PROPOSED MAIN DISTRIBUTION BOXES (TOP) IN ALPHA AND BETA SECTORS ON THE BACK SIDE OF ANTENNA PIPE.
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL (2) RUNS OF 6/12 HYBRID CABLE FROM THE PROPOSED MAIN DISTRIBUTION BOXES (BOTTOM) TO THE MAIN DISTRIBUTION BOXES (TOP) FOLLOWING THE PATH OF THE EXISTING CABLES.
 - VERIZON WIRELESS CONTRACTOR IS TO MAKE ALL ALARM CONNECTIONS TO THE DISTRIBUTION BOXES AND LEAVE A 40' COIL FOR OTHERS TO PUNCH INTO ALARM BLOCK.
 - VERIZON WIRELESS CONTRACTOR IS TO SEAL ALL DISTRIBUTION BOXES AS REQUIRED DURING CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL 1/2" ANTENNA JUMPERS FROM EACH PROPOSED REMOTE RADIO HEAD UNIT (RRH) TO THE PROPOSED ANTENNAS IN ALL SECTORS (48 TOTAL 1/2" ANTENNA JUMPERS).
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL THE PROPOSED REMOTE RADIO HEAD UNITS IN ALL SECTORS ON THE ANTENNA PIPE.
 - VERIZON WIRELESS CONTRACTOR IS TO GROUND ALL REMOTE RADIO HEAD UNITS (RRH) AND DISTRIBUTION BOXES TO THE EXISTING GROUND BARS AS REQUIRED DURING CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO GROUND ALL PROPOSED ANTENNAS TO THE EXISTING GROUND BARS AS REQUIRED DURING CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO COMPLETE THE INSTALLATION OF THE PROPOSED ANTENNAS AND HYBRIFLEX CABLE SYSTEM.
 - VERIZON WIRELESS CONTRACTOR IS TO PERFORM THE FOLLOWING OPTICAL SWEEP TESTS; OTRD AND OPTICAL LOSS. RECOMMENDED UNITS – ANRITSU MT9090, JDSU, EXFO FTB-1/FTB-720 OTRD.
 - VERIZON WIRELESS CONTRACTOR IS TO PERFORM THE FOLLOWING ANTENNA SYSTEM SWEEP TESTS: SYSTEM VZWR / dB RL.
 - VERIZON WIRELESS CONTRACTOR IS TO PROVIDE ALL CLOSE OUT DOCUMENTS AS REQUIRED BY VERIZON WIRELESS.
- SAMSUNG RRH
- DUAL RRH B2/B66A RFV01DU-D1A HELIAX 1/1 HYBRID CABLE CABLE MUST BE CONNECTED TO THE L0 PRIMARY PORT AND (1) EXTRA PAIR OF FIBER CONNECTED TO L1 SECONDARY PORT.
 - DUAL RRH B5/B13 RFV01DU-D2A HELIAX 1/1 HYBRID CABLE MUST BE CONNECTED TO THE L0 PRIMARY PORT.
- INTEGRATED ANTENNA
- MT6407-77A 1/1 HYBRID CABLE MUST BE CONNECTED TO OPT1 PORT AND (2) EXTRA FIBER CABLE TO THE SECONDARY OPT2 PORT.

ANTENNA CREW




1. REVIEW ANTENNA SCHEDULE WITH CELL TECH
2. FOR EACH SECTOR, LAY ANTENNAS OUT ON THE GROUND AS THEY WILL BE INSTALLED ACCORDING TO THE ANTENNA SCHEDULE
3. LABELED EACH ANTENNA WITH FACE AND POSITION WITH A SHARPIE (EX:"ALPHA-4")
4. LABEL ALL MOTORS WITH SHARPIE WITH BAND AND TECHNOLOGY (EX:"700LTE", "AWSLTE", "PCSLTE", "850VOICE", ETC)
5. CONNECT ALL AISG CABLES (INCLUDING JUMPERS THAT WILL BE USED IN FINAL ASSEMBLY) PER THE ANTENNA SCHEDULE
 - A. WHEN DAISY CHAINING IS INEVITABLE, AS A GENERAL RULE...
 - I. KEEP LOW AND HIGH BANDS ON SEPARATE AISG CHAINS AS MUCH AS POSSIBLE
 - II. MINIMIZE AMOUNT OF MOTORS PER CHAIN AS MUCH AS POSSIBLE (MAX IS 6)
 - B. WHEN COMPLETED ALL RET MOTOR PORTS NEED TO BE CONNECTED, INCLUDING THE MOTORS NOT BEING USED YET. THE ONLY UNUSED PORT WILL BE THE LAST IN THE DAISY CHAIN, WHICH NEEDS TO BE CAPPED AND WEATHERPROOFED.
6. ON LAPTOP, FILL OUT THE SOFTCOPY OF THE RET DEPLOYMENT FORM AND SAVE IT, REPLACING THE "#####" WITH THE 6-DIGIT ENB NUMBER IN THE FILENAME (EX: RET DEPLOYMENT FORM_0981234.XLSX")
7. GIVE A SOFTCOPY OF THE RET DEPLOYMENT FORM TO VZW CELL TECH AND GC/CONSULTANT (EITHER BY EMAIL OR USB STICK)
8. USING THE SAME LAPTOP WHICH HAS THE RET DEPLOYMENT FORM OPENED, CONNECT THE CONTROL MODULE AND PROVISION EACH MOTOR RESPECTIVELY

NOTE: CREWS MUST USE SOFTWARE THAT IS SPECIFIC TO THE MOTOR TYPE BEING PROVISIONED (IE- JMA SOFTWARE SHOULD ONLY BE SUED FOR JMA MOTORS)

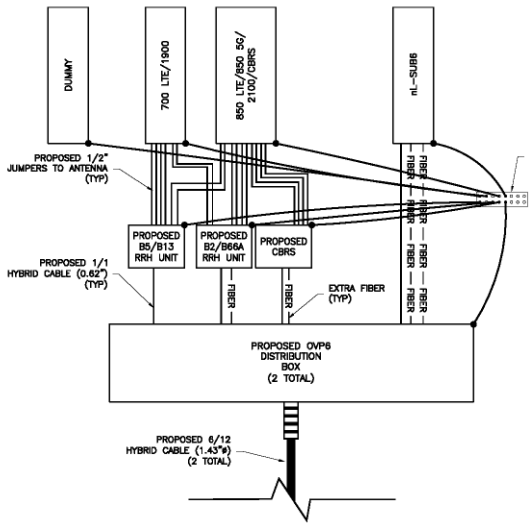
 - A. COPY AND PASTE "RET FRIENDLY NAME" FROM SPREADSHEET (COLUMN A) TO THE "SECTOR ID" FIELD OF EACH MOTOR
 - B. POPULATE "SET RET TILT"
 - C. POPULATE "MECHANICAL TILT"
9. CALIBRATE ALL MOTORS
10. DISCONNECT NECESSARY AISG JUMPERS TO TRANSPORT ANTENNAS SAFELY TO ASSEMBLY
11. INSTALL ANTENNAS ACCORDING TO THE ANTENNA SCHEDULE, USING THE SHARPIE LABELS AS REFERENCE
12. RECONNECT ALL AISG JUMPERS
13. BEFORE PLUGGING INTO EACH RRH, CONNECT MAIN AISG CABLE INTO CONTROLLER TO ENSURE ALL MOTORS ARE STILL SEEN IN THE DAISY CHAIN
14. PLUG AISG INTO RRH AND NOTIFY VZW TECH OF COMPLETION

VZW TECH (USER HELP GUIDE: \\WIN-VZWNET\NORTHEAST\PAPM_IMPLEMENTATION\SYSTEM

- PERFORMANCE\USERS\MOSERGA\RET\)
15. POWER ON RADIO EQUIPMENT AND RUN ANY NECESSARY WOS
 16. "DISCOVER" THE RETS
 - A. LOG INTO SAM
 - I. VERIFY RET LICENSE ALLOCATION IN SAM
 - ENBEQUIPMENT>ENB>ACTIVATIONSERVICE>ISAISALLOWED=CHECKED
 - B. LOG INTO NEM LOCAL
 - I. GO TO TREE VIEW AND HIGHLIGHT RET SUBUNIT
 - II. ENABLE BUS SCAN
 - CONFIGURATION> ENABLE AISG BUS SCAN
 - III. ALLOCATE CONFIG RIGHTS
 - CONFIGURATION>ALLOCATION CONFIGURATION RIGHTS
 - IV. VERIFY CORRECT NUMBER OF RETS ARE DISCOVERED
 17. "COMMISSION" THE RETS
 - A. LOG INTO NEM LOCAL
 - I. STILL IN TREE VIEW, RIGHT CLICK ON "HW MODULES"
 - II. SELECT "CREATE RET MO"
 - II. RELEASE CONFIG RIGHTS
 - CONFIGURATION>RELEASE CONFIGURATION RIGHTS
 - IV. VERIFY RETSUBUNIT:SECTORNAME, ELECTRICAL TILT, AND MECHANICAL TILT ARE POPULATED
 18. "PROVISION" THE RETS
 - A. LOG INTO SAM
 - I. OPEN UP THE ENB PROPERTIES AND COMPLETE A FULL RESYNC
 - II. IN THE SEARCH TEXTBOX, SEARCH FOR "RETSUBUNIT"
 - III. VERIFY ALL RETS ARE ACCOUNTED FOR AND "RETSUBUNIT:SECTORNAME", "ANTENNAELECTICALTILT", AND "RETSUBUNIT:MECHANICALTILT " ARE ACCURATE

ENGINEER	 NB+C ENGINEERING SERVICES, LLC. <small>110 WASHINGTON STREET SUITE 200 CHESHAM, MA 01519 (978) 686-0288</small>												
APPLICANT	 118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581												
SITE INFORMATION	E GLASTONBURY 2 CT 175 DICKINSON ROAD GLASTONBURY, CT 06033 TOWN OF GLASTONBURY HARTFORD COUNTY												
DESIGN RECORD	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10/09/22</td> <td>FINAL CDR</td> <td>CSG</td> </tr> </tbody> </table>	REVISIONS				REV	DATE	DESCRIPTION	BY	0	10/09/22	FINAL CDR	CSG
REVISIONS													
REV	DATE	DESCRIPTION	BY										
0	10/09/22	FINAL CDR	CSG										
PROFESSIONAL STAMP													
ENGINEER	DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC #34055												
SHEET TITLE	SCOPE OF WORK												
SHEET NUMBER	A-5												

ANTENNA LOCATION (TYP. PER SECTOR ONLY)

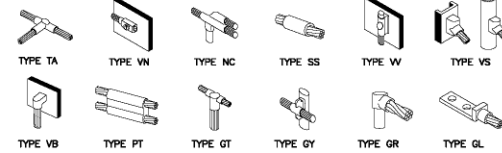


NOTE:
1) TAG ALL EXISTING AND PROPOSED CABLES/JUMPERS PER VERIZON SPECIFICATIONS (SEE RF SCHEDULE).
2) SEE A-1 & A-2 FOR CABLE LENGTHS.

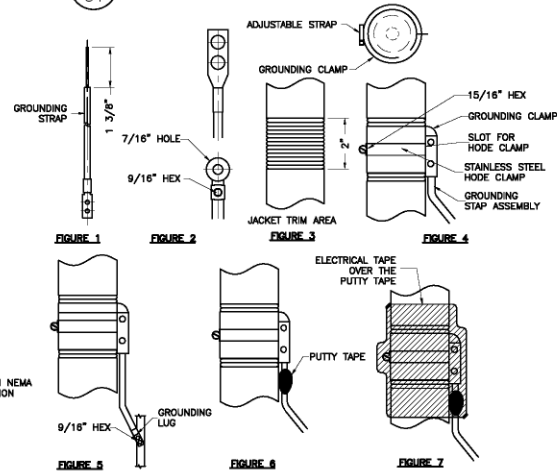
NOTE:
INSTALL GROUNDING KIT TO ALL PROPOSED HYBRID FEEDER CABLES.

GROUNDING NOTES

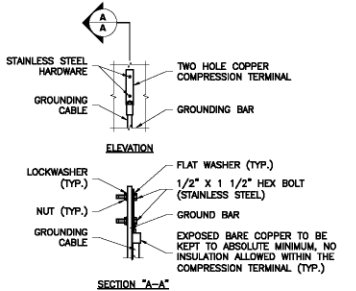
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THIN/THIN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.



2 CADWELD GROUNDING CONNECTION DETAILS
G-1 NTS

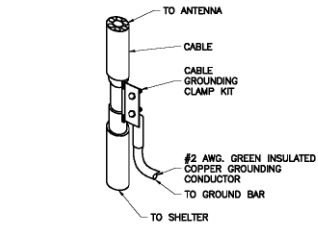


1 GROUNDING RISER DIAGRAM
G-1 NTS

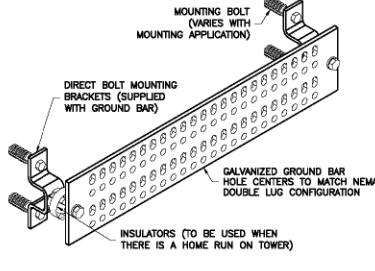


NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

3 GROUND BAR CONNECTION DETAIL
G-1 NTS



4 CABLE GROUNDING DETAIL
G-1 NTS



5 GROUND BAR DETAIL
G-1 NTS

6 GROUNDING STRAP WEATHERPROOFING DETAIL
G-1 NTS



NB+C ENGINEERING SERVICES, LLC.
110 WASHINGTON STREET
SUITE 200
CHESHAMBOUR, MA 01519
(978) 358-0238



118 FLANDERS ROAD
FLOOR 3
WESTBOROUGH, MA 01581

E GLASTONBURY 2 CT
175 DICKINSON ROAD
GLASTONBURY, CT 06033
TOWN OF GLASTONBURY
HARTFORD COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
0	10/09/22	FINAL CDG	CSG



DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC #34055

GROUNDING DETAILS & NOTES




G-1

POST-MODIFICATION INSPECTION (PMI) REQUIREMENT

1. PMI REQUIRED FOR ALL SITES, REFER TO VERIZON NSTD-446 SECTIONS 1.5 AND 2.3 FOR MORE INFORMATION.
2. REFER TO THE MOUNT ANALYSIS BY MASER CONSULTING DATED 08/24/2022 FOR ADDITIONAL DETAILS.
3. GENERAL CONTRACTOR SHALL PROVIDE THE BELOW DOCUMENTATION TO THE ENGINEER OF RECORD VIA EMAIL TO VZWMOUNTS@NBCLLC.COM, DROPBOX, OR OTHER FILESHARE METHOD. PROVIDE HIGH RESOLUTION PHOTOS (DO NOT COMPRESS).
4. ENGINEER OF RECORD WILL CONDUCT A REVIEW OF THE PROVIDED DOCUMENTS TO PREPARE A PMI REPORT. ENGINEER OF RECORD WILL NOTIFY GENERAL CONTRACTOR IF ANY ADDITIONAL DOCUMENTATION IS REQUIRED TO COMPLETE THE PMI.
5. PMI DOCUMENTATION SHALL BE SUFFICIENT TO CONFIRM THE UPGRADE WAS BUILT AS DESIGNED, INCLUDING EQUIPMENT CHANGES AND STRUCTURAL MODIFICATIONS, AND IS IN ADDITION TO ANY OTHER REQUIRED CLOSEOUT PACKAGE DOCUMENTATION.
6. REQUIRED DOCUMENTATION FOR PMI INCLUDES THE FOLLOWING AT A MINIMUM. REFER TO THE MOUNT ANALYSIS FOR POSSIBLE ADDITIONAL INFORMATION. IF STRUCTURAL MODIFICATIONS ARE REQUIRED, REFER TO THE MODIFICATION DRAWINGS FOR POSSIBLE ADDITIONAL REQUIREMENTS.
 - 6A. PROVIDE PRE-AND-POST CONSTRUCTION PHOTOS OF EACH SECTOR FROM THE MOUNT ELEVATION AND THE GROUND. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PHOTOS PROVIDED PROVIDE POSITIVE CONFIRMATION THAT THE MODIFICATION/UPGRADE WAS COMPLETED IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS AND ANY STRUCTURAL/MOUNT MODIFICATION DRAWINGS. CONTRACTOR SHALL RELAY ANY DATA THAT CAN IMPACT THE PERFORMANCE OF THE MOUNT OR MOUNT MODIFICATION, INCLUDING SAFETY ISSUES. PHOTOS SHALL HAVE A DATE/TIME STAMP IN THE PHOTO. REFER TO THE MOUNT ANALYSIS FOR FILE STRUCTURE SCHEDULE OF PHOTOS. PROVIDE PHOTOS OF THE GATE SIGNS AND CARRIER SHELTER TO IDENTIFY THE TOWER OWNER, SITE NAME, SITE NUMBER, ETC.
 - 6B. VERIFICATION OF THE MEMBER CONNECTIONS, BRACING, AND RELEVANT DIMENSIONS.
 - 6C. VERIFICATION OF THE ANTENNA AND OTHER EQUIPMENT CONFIGURATION (PHOTOS OF MODEL NUMBERS/TAGS FOR ALL EQUIPMENT, AS WELL AS THE FEEDLINE CONFIGURATION). TAKE PHOTOS OF THE BACK SIDE OF EACH SECTOR AS WELL AS CLOSE-UPS OF ALL EQUIPMENT. PHOTOS SHOULD CONFIRM THE HORIZONTAL AND VERTICAL POSITIONING OF THE ANTENNAS AND EQUIPMENT AND SHALL HAVE TAPE MEASURES IN THE PHOTOS TO CONFIRM.
 - 6D. FOR TIE-BACKS, STRUTS, MOUNT PIPES, PHOTOS TO CONFIRM THE ANGLES AND LOCATION OF ATTACHMENT POINT AT BOTH ENDS OF MEMBER, AS WELL AS DIMENSIONS, THICKNESS, AND LENGTHS OF THE MEMBERS. REFER TO THE CHECKLIST IN THE MOUNT ANALYSIS FOR ADDITIONAL INFORMATION.
 - 6E. MOUNT ATTACHMENT TO THE SUPPORTING STRUCTURE, INCLUDING ANY KICKERS OR SUPPORTS, OR TIEBACKS.
 - 6F. MATERIALS USED (TYPE, STRENGTH, DIMENSIONS, ETC). PROVIDE BILL OF MATERIALS AND MATERIAL SPEC TO CONFIRM MATERIAL GRADES AND SIZES. PROVIDE DOCUMENTATION FOR GALVANIZATION OF MEMBERS WHETHER HOT-DIPPED OR COLD-GALVANIZED. IF MATERIALS DIFFER FROM THOSE SPECIFIED ON THESE DRAWINGS, PROVIDE DOCUMENTATION THAT THE "EQUIVALENT" MATERIAL HAS THE SAME SPECIFICATIONS.
 - 6G. MOUNT ORIENTATION/AZIMUTH AND ELEVATION. PROVIDE TAPE DROP PHOTOS OF ANTENNA CENTERLINE(S) AND MOUNT ATTACHMENT POINTS TO THE SUPPORTING STRUCTURE. IF THERE ARE MULTIPLE RAD CENTERS, PROVIDE PHOTOS OF ALL ELEVATIONS.

POST-MODIFICATION INSPECTION (PMI) REQUIREMENT CONT.

- 6H. VERIFICATION THAT THE INSTALL HAS NOT CAUSED DAMAGE TO OR UNPLANNED OBSTRUCTION OF THE FOLLOWING:
 - CLIMBING FACILITIES
 - SAFETY CLIMB IF PRESENT, INCLUDING PHOTOS ABOVE AND BELOW THE MOUNT.
 - LIGHTING SYSTEM
 - OTHER INSTALLED SYSTEMS ON THE STRUCTURE.
 - CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS SUPPORTED AND NOT ADVERSELY AFFECTED BY THE INSTALLATION OF NEW COMPONENTS. THIS MAY INVOLVE THE INSTALLATION OF WIRE ROPE GUIDES OR OTHER ITEMS TO PROTECT THE WIRE ROPE.
- 6I. OTHER ITEMS DETERMINED BY THE STRUCTURAL ENGINEER TO ENSURE THE MOUNT WILL PERFORM AS DESIGNED. PHOTOS OF RELEVANT MEASUREMENTS, WITH SUFFICIENT DETAILS TO CONFIRM CONNECTION DETAILS, PLACEMENT OF EQUIPMENT, WALL ANCHOR DETAILS, BALLAST QUANTITIES, STRUCTURAL MODIFICATIONS ETC. DIAMETERS AND THICKNESSES OF BOLTS/THREADED RODS/ANGLES/TUBES ETC SHALL HAVE PHOTOS CONFIRMING CALIPER MEASUREMENTS.
 - CONFIRMATION THAT ALL HARDWARE WAS PROPERLY INSTALLED, AND EXISTING HARDWARE WAS INSPECTED FOR ANY ISSUES.
 - FOR BALLAST SLEDS, DOCUMENTATION OF THE WEIGHT OF BALLAST IN EACH SECTOR.
 - FOR WALL ANCHORS, PHOTOS AND MEASUREMENTS OF OUTSIDE AND INSIDE OF CONNECTIONS. DOCUMENTATION OF ADHESIVE USED, SIZE AND LENGTH OF ANCHORS, EFFECTIVE EMBEDMENT DEPTH OF THE ANCHORS, GROUTING OF HOLLOW WALLS, SPACING AND EDGE DISTANCE MEASUREMENTS, AND ANY THROUGH-BOLTS OR BACKING PLATES.
 - FOR STUD WELD CONNECTIONS, DOCUMENTATION TO CONFIRM SURFACE PREPARATION, STUD WELD SIZE, GRADE, LENGTH, AND SPACING.
 - FOR FABRICATED PARTS, SHOP DRAWINGS TO BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
 - FOR WELDED PARTS, CERTIFIED WELD INSPECTION.
 - FOR BOLTED PARTS, BOLT INSTALLATION AND TORQUE.
7. CONTRACTOR SHALL PROVIDE, IN ADDITION TO THE ABOVE, AS-BUILT CDS WITH REDLINES IDENTIFYING ANY CHANGES. THE AS-BUILTS SHALL THE CONTRACTOR'S NAME, PREPARER'S SIGNATURE, AND DATE.
8. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED PMI"), THE CONTRACTOR SHALL WORK WITH THE ENGINEER OF RECORD TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - 8A. CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENTAL PMI.
 - 8B. OR, WITH THE EOR'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT/UPGRADE USING THE AS-BUILT CONDITION.
9. NOTE: IF LOADING IS DIFFERENT THAN THAT SHOWN IN THESE CONSTRUCTION DRAWINGS OR STRUCTURAL/MOUNT MODIFICATION DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY FOR RESOLUTION.
10. THE ENGINEERING FIRM PERFORMING AN ANALYSIS SHALL PROVIDE A CONTRACTOR'S PHOTO LOG AND CHECKLIST TO BE COMPLETED BY THE INSTALLING CONTRACTOR. THE CONTRACTOR SHALL THEN PROVIDE POST-INSTALLATION INFORMATION TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL REVIEW THE DOCUMENTS FOR ANY DEFICIENCIES THAT CAN BE DETERMINED FROM THE DESKTOP REVIEW OF THE DATA. THE ENGINEERING FIRM SHALL THEN PROVIDE DOCUMENTATION TO VZW THAT THE SITE IS COMPLETED, AND THE PMI REPORT IS APPROVED.

ENGINEER																					
APPLICANT	 <p>118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581</p>																				
SITE INFORMATION	<p>E GLASTONBURY 2 CT 175 DICKINSON ROAD GLASTONBURY, CT 06033 TOWN OF GLASTONBURY HARTFORD COUNTY</p>																				
DESIGN RECORD	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">REV</th> <th style="width: 15%;">DATE</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 20%;">BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY																
REV	DATE	DESCRIPTION	BY																		
PROFESSIONAL STAMP																					
ENGINEER	<p>DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC #34055</p>																				
SHEET TITLE	<p>PMI REQUIREMENTS</p>																				
SHEET NUMBER	<p>GN-1</p>																				



**MOUNT MODIFICATION DRAWINGS
EXISTING 14' PLATFORM**

**TOWER OWNER: SBA
TOWER OWNER SITE NUMBER: CT02216**

**CARRIER SITE NAME: E GLASTONBURY 2 CT
CARRIER SITE NUMBER: 468152
FUZE ID: 2559329**

**175 DICKINSON RD.
GLASTONBURY, CT 06033
HARTFORD COUNTY**

**LATITUDE: 41.6559° N
LONGITUDE: 72.523275° W**

DESIGN CRITERIA
WIND LOADS BASIC WIND SPEED (3 SECOND GUST), V = 119 MPH EXPOSURE CATEGORY C TOPOGRAPHIC CATEGORY N/A MEAN BASE ELEVATION (AMSL) = 462.99'
ICE LOADS ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.50 IN
SEISMIC LOADS SEISMIC DESIGN CATEGORY B SHORT TERM MCR GROUND MOTION, S ₁ = .203 LONG TERM MCR GROUND MOTION, S ₂ = .056

PROJECT INFORMATION
APPLICANT/LESSEE COMPANY: VERIZON WIRELESS
CLIENT REPRESENTATIVE COMPANY: VERIZON WIRELESS
PROJECT MANAGER 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 #: 10160182 VZW LOCATION CODE (P/SLC): 468152 ANALYSIS DATE: 8/24/2022
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 GEOMETRY VERIFICATION SKETCHES
SS-3 MOUNT PHOTOS
SPECIFICATION SHEETS

**COPYRIGHT ©2022
COLLIERS ENGINEERING & DESIGN
ALL RIGHTS RESERVED**
THIS DRAWING AND ALL THE INFORMATION CONTAINED HEREIN IS AUTHORIZED FOR USE ONLY BY THE PARTY FOR WHOM THE WORK WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THIS DRAWING MAY NOT BE COPIED, REUSED, DISCLOSED, DISTRIBUTED OR RELIED UPON FOR ANY OTHER PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF COLLIERS ENGINEERING & DESIGN.

Engineering & Design

www.colliersengineering.com

Copyright © 2022 Colliers Engineering & Design. All rights reserved. The drawing and all the information contained herein is authorized for use only by the party for whom the work was contracted or to whom it is certified. The drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as MASER

811
Know what's BELOW.
Call before you dig.
FOR STATE SPECIFIC DIRECT DIALING NUMBERS VISIT
WWW.CALL811.COM

DATE	AS SHOWN	DATE	27777014A
REV	DATE	DESCRIPTION	DRAWN BY

COLLIERS ENGINEERING & DESIGN, CT, P.C.
CT, P/CE00031

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE, LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

**E GLASTONBURY 2 CT
468152**

**175 DICKINSON RD.
GLASTONBURY, CT 06033
HARTFORD COUNTY**

STAMFORD
1025 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN, CT, P.C.
DOWNSHIP@COLLIERSENGINEERING.COM

SHEET TITLE

TITLE SHEET

SHEET NUMBER

ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	291	291
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
3		VZWSMART-P40-23BX096	96" LONG, PIPE 2 SCH40 (2.375"OD X 0.154" THK)		29	87
12		VZWSMART-MSK2	CROSSOVER PLATE		15	180
3		VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET		30	90

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	-	-	162" LONG, PIPE 2 1/2 SCH40	GALVANIZED	78	234
3	-	-	30" LONG, L3x3x1/4	GALVANIZED, CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	15	45
6	-	-	8" LONG HSS3x2x1/4	GALVANIZED	12	72
-	-	-	J429 GR-1 U-BOLTS	GALVANIZED	-	-

SECTION 3 - REQUIRED SAFETY CLIMB PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	PERFECT VISION	PV-SCRB-RM-U	ROUTING BRACKET	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	-	-
1	PERFECT VISION	PV-CMX-CG-BO	ROUTING BRACKET	OR EOR APPROVED EQUAL, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	-	-
TOTAL:						1149

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 DESK TOP 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.

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECT VISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM
NEWAVE	
CONTACT	NEWAVE SALES TEAM
PHONE	(971) 239-4762
EMAIL	SALES@NEWAVETC.COM
WEBSITE	WWW.NEWAVETC.COM

BETTER METAL, LLC	
CONTACT	DAVID STANSBERRY
PHONE	(615) 535-0990 (O), (615) 631-2520 (M)
EMAIL	DLS@BETTERMETAL.COM
WEBSITE	WWW.BETTERMETAL.COM

Engineering & Design

www.colliersengineering.com

Copyright © 2022 Colliers Engineering & Design. All rights reserved. The drawing and all data are confidential and intended for use only by the party to whom they are issued. No part of this drawing may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Colliers Engineering & Design.

Doing Business as

PROTECT YOURSELF - ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, GEODESIC, OR ANY PERSON PREPARING TO EXCAVATE THE EARTH'S SURFACE, ANYWHERE IN ANY STATE.

Know when to CALL. Call before you dig.

FOR STATE SPECIFIC DIRECT DIALING NUMBERS VISIT WWW.CALL811.COM

DATE AS SHOWN
DATE 2/27/2014

REV	DATE	DESCRIPTION	CHKD BY	CHKD BY

COLLIERS ENGINEERING & DESIGN, CT, P.C.
CT:JC000031

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:

**E GLASTONBURY 2 CT
468152**

175 DICKINSON RD.
GLASTONBURY, CT 06033
HARTFORD COUNTY

STAMFORD
1025 WASHINGTON BOULEVARD
STAMFORD, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN, CT, P.C.
DOWNSIDE@COLLIERSENGINEERING.COM

SHEET TITLE
BILL OF MATERIALS

SHEET NUMBER
SBOM-1

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSITIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSITIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30 MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- 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, ANSITIA-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 NOUNT 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:

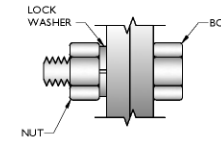
CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE
- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING 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.
- 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 NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- 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 COAT), 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.

BOLT SCHEDULE (IN.)

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

WORKABLE GAGES (IN.)

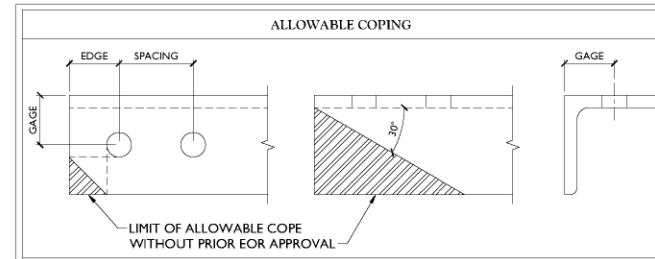
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



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.



www.colliersengineering.com

Copyright © 2022 Colliers Engineering & Design. All rights reserved. The drawing and all data are the property of Colliers Engineering & Design. No part of this drawing may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Colliers Engineering & Design.

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATION, GROUNDING, OR ANY OTHER PREPARING TO EXISTING UTILITIES TO PREPARE THE EARTH'S SURFACE. KNOW BEFORE YOU DIG.

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT
WWW.811.COM

DATE: AS SHOWN DRAWING NUMBER: 2777014A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

COLLIERS ENGINEERING & DESIGN, CT, P.C.
CT, INC. 06091

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE, LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:
E GLASTONBURY 2 CT
468152
 175 DICKINSON RD.
 GLASTONBURY, CT 06033
 HARTFORD COUNTY

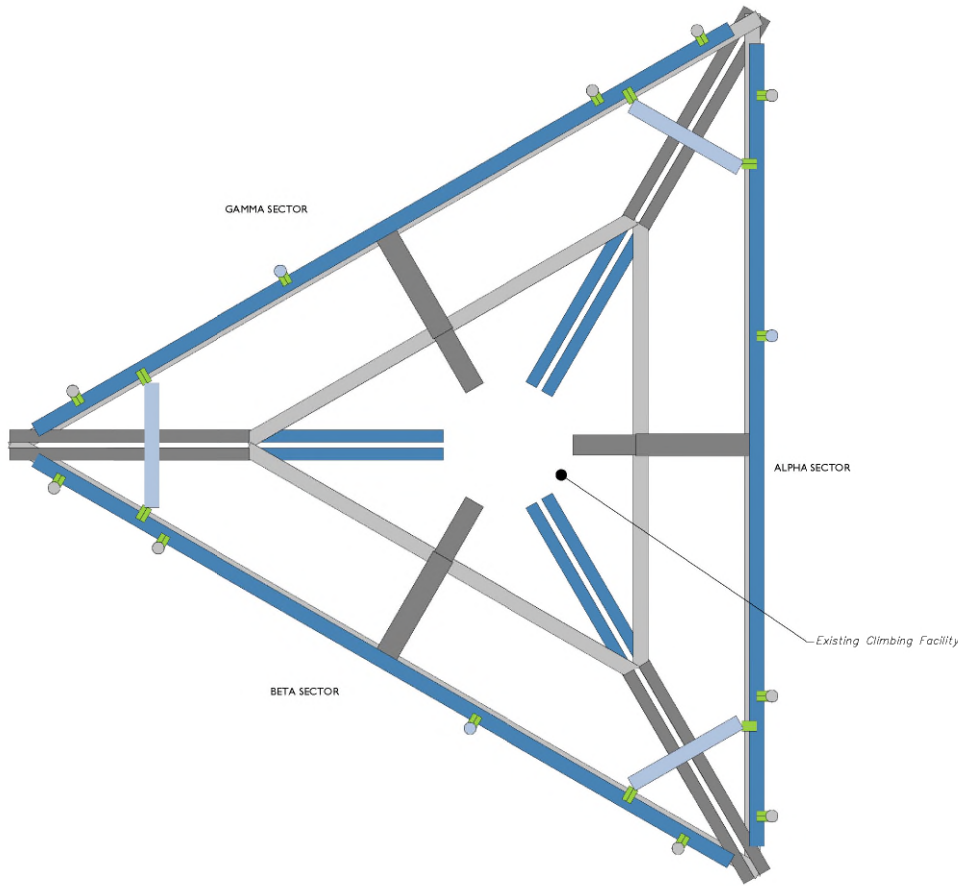
STAMFORD
1025 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN, CT, P.C.
DOWNS BUSINESS MASER CONSULTING

PREPARED BY:

MODIFICATION NOTES

PREPARED BY:

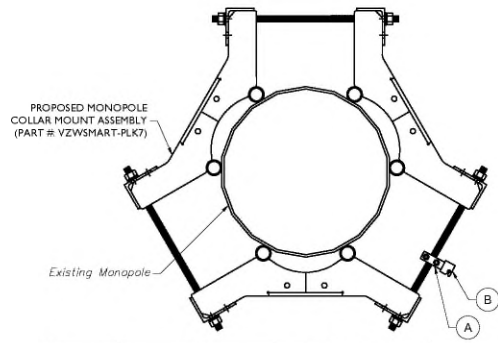
SGN-I



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

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY TOWER ENGINEERING PROFESSIONALS ON 6/28/2022, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (164'-0") ARE IN GOOD CONDITION. COLLIERS ENGINEERING & DESIGN 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.



ITEM #	QTY	PART NUMBER	DESCRIPTIONS
A	1	PV-SCRB-RM-U	ROUTING BRACKET (PERFECT VISION OR EOR APPROVED EQ.)
B	1	PV-CMX-CG-BO	WIRE ROPE GUIDE (PERFECT VISION OR EOR APPROVED EQ.)

2 PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW
SCALE: N.T.S.

NOTE: CONTRACTOR SHALL ENSURE THAT WIRE ROPE GUIDE DOES NOT PUSH THE WIRE ROPE OUTSIDE OF THE VERTICAL PLANE OF THE SAFETY CLIMB. CONTRACT EOR WITH PHOTOS OF SAFETY CLIMB AND COLLAR FOR FURTHER DIRECTION IF NEEDED.



CLIMBING FACILITY PHOTO



811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, GEODESIC, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE, KNOW WHERE TO CALL 811
Know what's BELOW. Call before you dig.
FOR STATE SPECIFIC DIRECT DIALING NUMBERS VISIT WWW.CALL811.COM

DATE	AS SHOWN	DATE	2/27/2014A
REV	DATE	DESCRIPTION	DRAWN BY

COLLIERS ENGINEERING & DESIGN, CT, P.C.
CT: JPC/000131

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

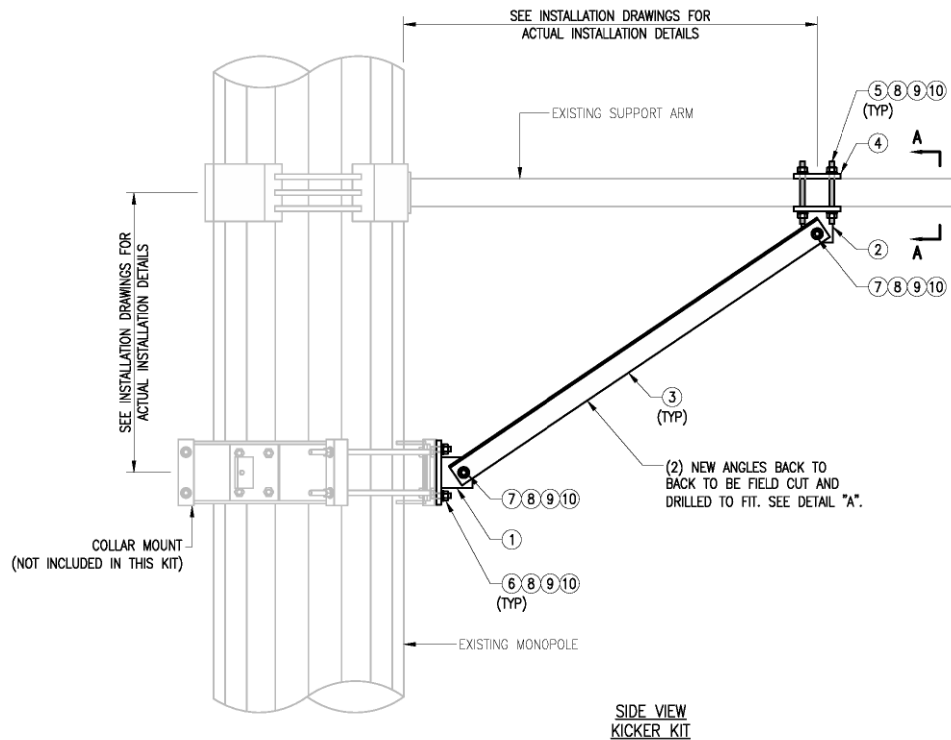
SITE NAME:
E GLASTONBURY 2 CT
468152
175 DICKINSON RD.
GLASTONBURY, CT 06033
HARTFORD COUNTY

Colliers Engineering & Design
STAMFORD
1025 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN, CT, P.C.
DOWNSIDE/REGULATORY CONSULTANTS

SHEET NO: CLIMBING FACILITY DETAIL

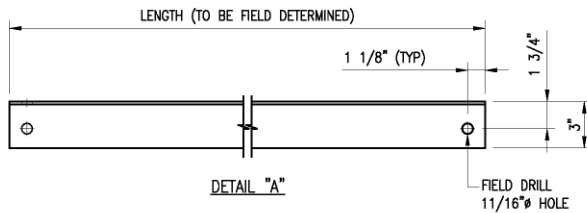
SHEET NAME: SCF-1

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



COLLAR MOUNT
(NOT INCLUDED IN THIS KIT)

SIDE VIEW
KICKER KIT

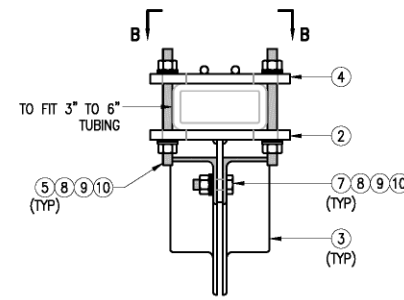


DETAIL "A"

FIELD DRILL
11/16" Ø HOLE

NOTES:

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

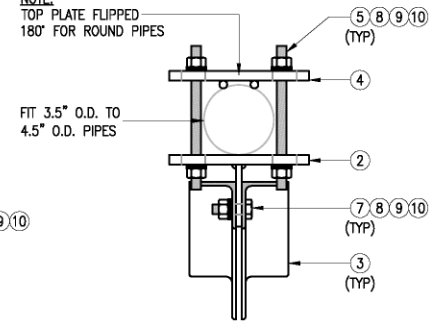


SECTION "A-A"
RECT. HSS MOUNTING

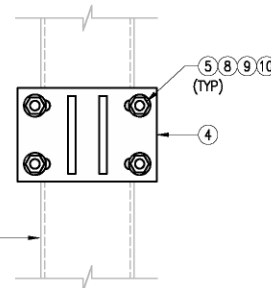
NOTE:

TOP PLATE FLIPPED
180° FOR ROUND PIPES

FIT 3.5" O.D. TO
4.5" O.D. PIPES



SECTION "A-A"
ROUND PIPE MOUNTING



SECTION "B-B"

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

VzW
SMART Tool[®]
Vendor

verizon

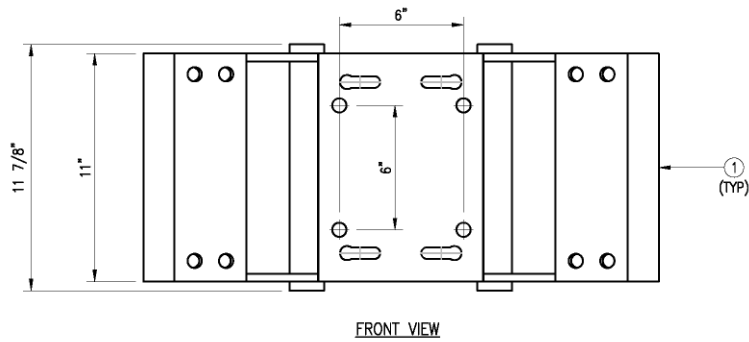
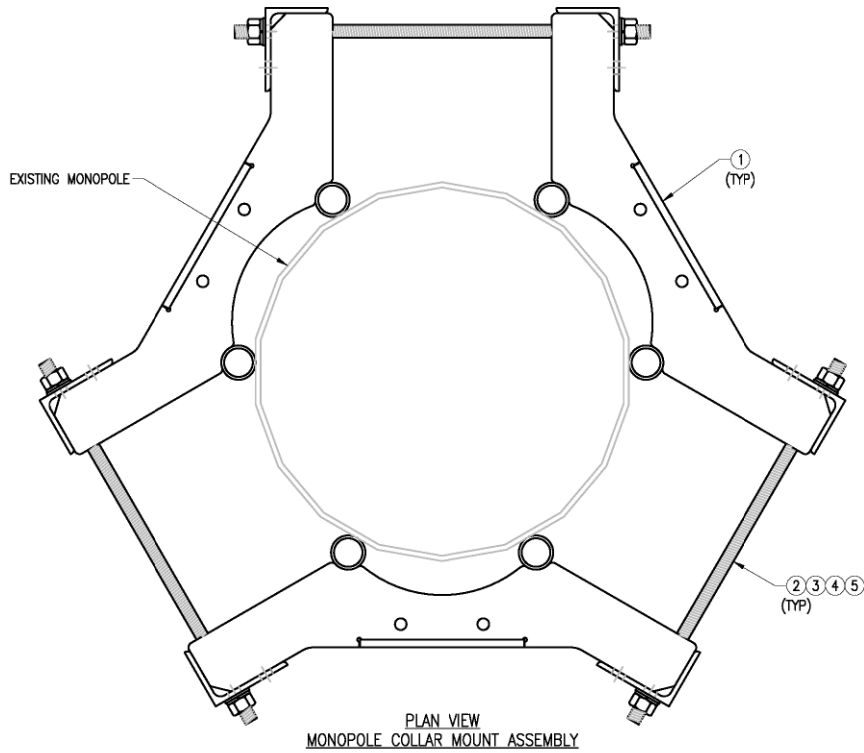
DRAWN BY: MN CHECKED BY: HMA/KW

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

SHEET TITLE:
VZSMART-PLK5
KICKER KIT

SHEET NUMBER: REV #:

VZSMART-PLK5 0

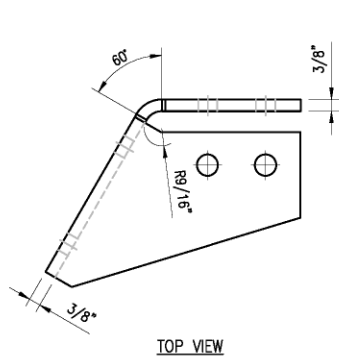


VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT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

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

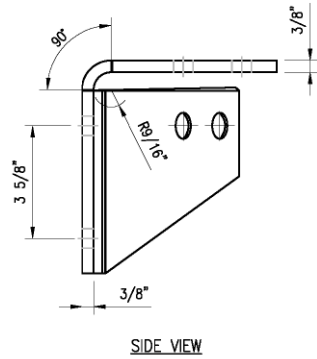
DRAWN BY: BT	CHECKED BY: HMA/KW
REV. DESCRIPTION	BY DATE
△ FIRST ISSUE	BT 05/11/20
△	
△	
△	

SHEET TITLE:	
VZWSMART-PLK7 MONOPOLE COLLAR MOUNT ASSEMBLY	
SHEET NUMBER:	REV #:
VZWSMART-PLK7	0

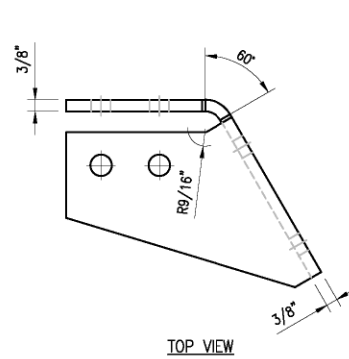


TOP VIEW

CBP-L

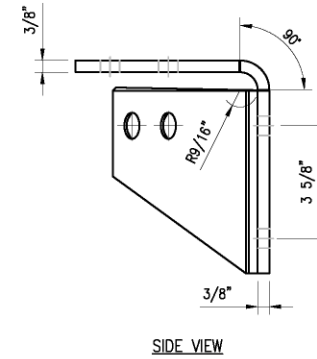


SIDE VIEW



TOP VIEW

CBP-R



SIDE VIEW

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

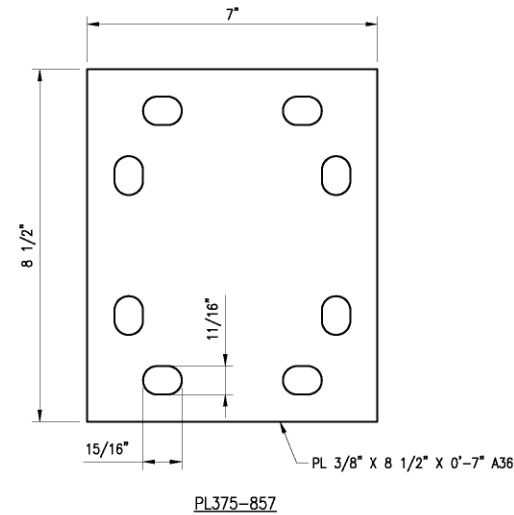
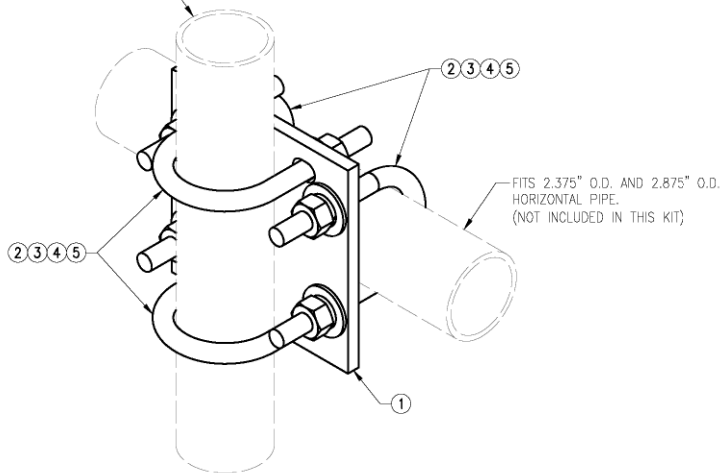
VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" (L.W. X 5" I.L. A36 (OR EQUIV.))	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
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: HLR	CHECKED BY: HMA		
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	HLR	05/08/20
△			
△			
△			

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

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

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



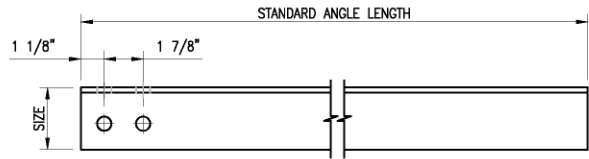
NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-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	MSD2-625-300-500	RU-BOLT 5/8" X 3" L.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

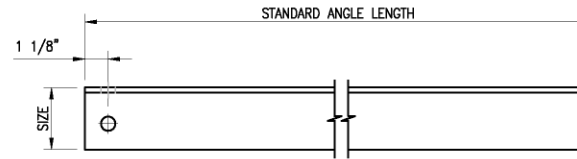
DRAWN BY: HJR	CHECKED BY: HMA
REV. DESCRIPTION	BY DATE
△ FIRST ISSUE	HJR 05/08/20
△	
△	
△	

SHEET TITLE:
**VZSMART-MSK1
 CROSSOVER PLATE**

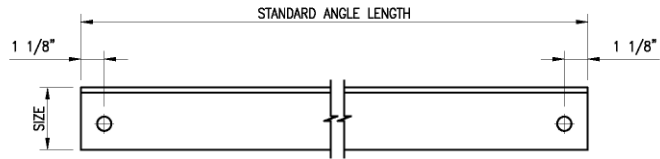
SHEET NUMBER: VZSMART-MSK1	REV #: 0
--------------------------------------	--------------------



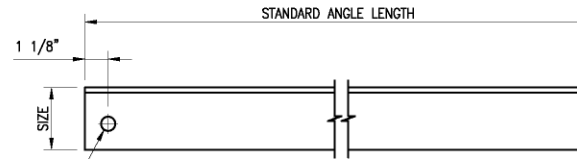
HOLE STYLE "A"



HOLE STYLE "B"



HOLE STYLE "C"



HOLE STYLE "D"

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

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.

VZSMART Standard Angle					
VZSMART 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"	VZSMART-PLK2
A-PLK5-01	L 3" X 3" X 3/16"	96"	B	1-3/4"	VZSMART-PLK5
A-SFK3-01	L 2-1/2" X 2-1/2" X 1/4"	96"	C	1-3/8"	VZSMART-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"	

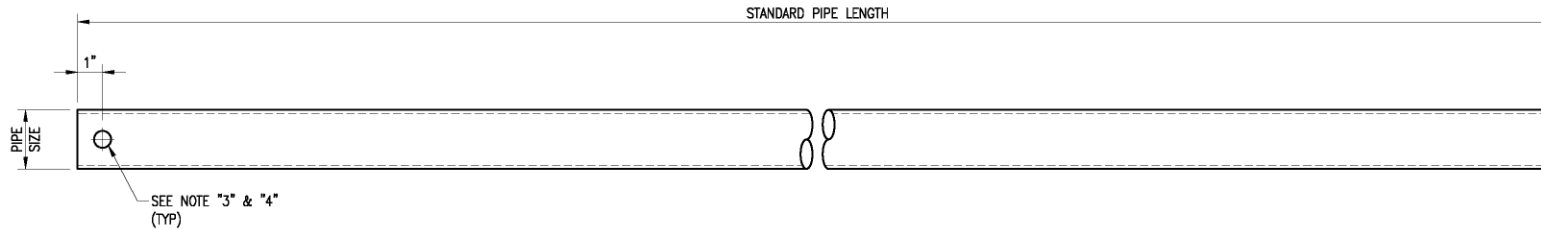
DRAWN BY: BT CHECKED BY: HMA/KW

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

SHEET TITLE:

VZSMART
STANDARD ANGLE

SHEET NUMBER: VZSMART-ANGLE REV #: 0



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

VZWSMART Standard Pipe		
VZWSMART 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
△	FIRST ISSUE	BT	08/04/21
△			
△			
△			

SHEET TITLE:
**VZWSMART
 STANDARD PIPE**

SHEET NUMBER: VZWSMART-PIPE	REV #: 0
--------------------------------	-------------



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

Colliers Engineering & Design

www.colliersengineering.com

Copyright © 2022 Colliers Engineering & Design. All rights reserved. The drawing and all data are confidential and intended for use only by the party to whom they were issued and are to be kept in confidence. The drawing may not be copied, reprinted, distributed, or used for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as **MASER CONSULTANTS**

verizon

811 PROTECT YOURSELF
 ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, GEODESIC, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE, KNOWLEDGE IS ALWAYS CRITICAL.
 Know what's BELOW. Call before you dig.
 FOR STATE SPECIFIC DIRECT DIALING NUMBERS VISIT WWW.CALL811.COM

DATE: AS SHOWN JOB NUMBER: 27777014A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

COLLIERS ENGINEERING & DESIGN, CT, P.C.
 CT: JPC000031

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

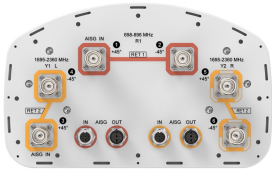
SITE NAME:
 E GLASTONBURY 2 CT
 468152
 175 DICKINSON RD.
 GLASTONBURY, CT 06033
 HARTFORD COUNTY

Colliers Engineering & Design
 1025 Washington Boulevard
 Stamford, CT 06901
 Phone: 203.324.0800
 COLLIERS ENGINEERING & DESIGN, CT, P.C.
 DOWNSHIP REG. AS MASER CONSULTANTS

SHEET TITLE: MOUNT PHOTOS

SHEET NUMBER: SS-2

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

Antenna Type	Sector
Band	Multiband
Color	Light gray
Grounding Type	RF connector body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 Port 3
Internal RET	High band (1) Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W

NHH-65B-R2B

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 301 mm | 11.85 in

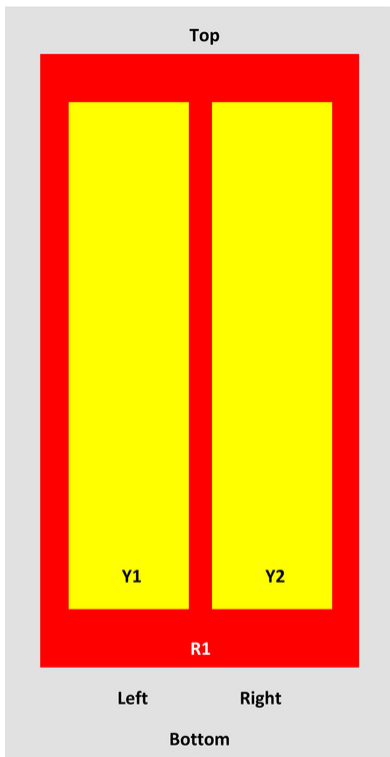
Depth 180 mm | 7.087 in

Length 1828 mm | 71.969 in

Net Weight, without mounting kit 19.8 kg | 43.651 lb

Array Layout

NHH



Array	Freq (MHz)	Coms	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANXXXXXXXXXXXXX1
Y1	1695-2360	3-4	2	ANXXXXXXXXXXXXX2
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

Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 698 – 896 MHz

NHH-65B-R2B

Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

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

NHH-65B-R2B

CPR at Sector, dB	10	7	16	13	11	4
--------------------------	----	---	----	----	----	---

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.26 m ² 2.799 ft ²
Effective Projective Area (EPA), lateral	0.22 m ² 2.368 ft ²
Wind Loading @ Velocity, frontal	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	282.0 N @ 150 km/h (63.4 lbf @ 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
Weight, gross	32.3 kg 71.209 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant



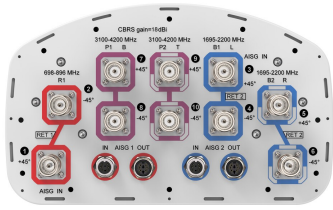
Included Products

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
-------------------------	---

NHHSS-65B-R2BT4



10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100–4200 MHz, 65° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- 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
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	4x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_Return

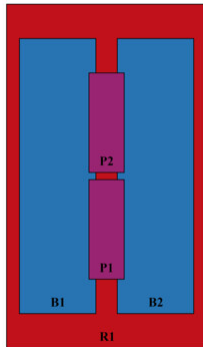
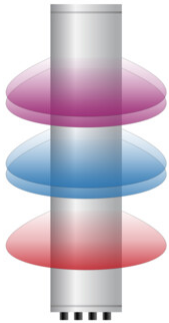
NHHSS-65B-R2BT4

RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (1) Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	1828 mm 71.969 in
Net Weight, without mounting kit	23.1 kg 50.927 lb

Array Layout

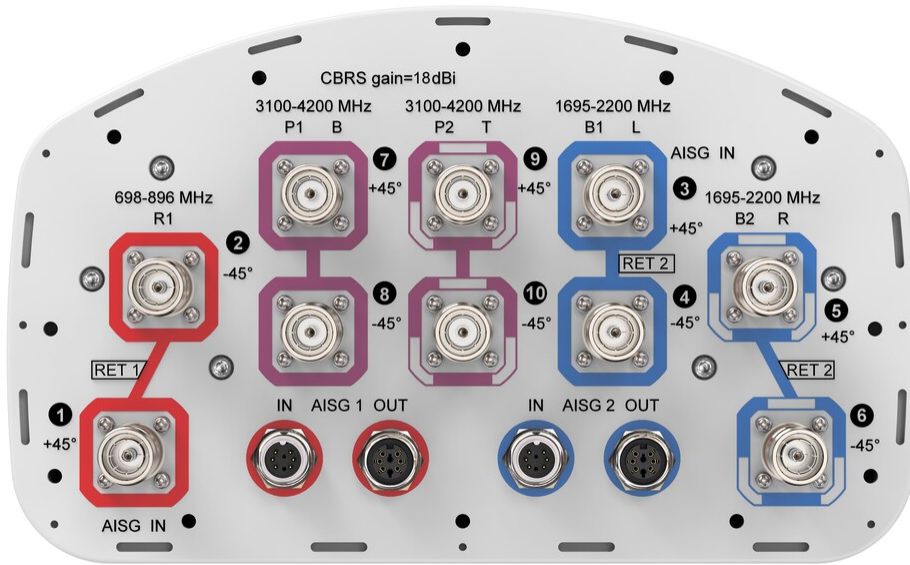


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	AISG2	CPxxxxxxxxxxxxxxxxB1
B2	1695-2200	5 - 6			
P1	3100-4200	7 - 8	N/A	NA	N/A
P2	3100-4200	9 - 10			

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

NHHSS-65B-R2BT4



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz 3100 – 4200 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	3100–3550	3550–3700	3700–4200
Gain, dBi	14.8	15.2	17.4	17.8	18	17.7	17.3	17.9
Beamwidth, Horizontal, degrees	65	62	66	61	64	54	64	60
Beamwidth, Vertical, degrees	13	11.6	5.5	5.2	4.9	5.7	5.3	4.9
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	4	4	4
USLS (First Lobe), dB	15	15	16	18	18	16	17	18
Front-to-Back Ratio at 180°, dB	26	29	31	28	27	30	33	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	28	28	28
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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-140	-140	-140

NHHSS-65B-R2BT4

Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	100	100	100
---	-----	-----	-----	-----	-----	-----	-----	-----

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	3100–3550	3550–3700	3700–4200
Gain by all Beam Tilts, average, dBi	14.6	14.8	17	17.5	17.7	17.3	17	17.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6	±0.3	±0.4	±0.6	±0.7	±0.8
Gain by Beam Tilt, average, dBi	0° 14.6 7° 14.6 14° 14.4	0° 15.0 7° 14.9 14° 14.5	0° 16.9 3° 17.0 7° 16.8	0° 17.4 3° 17.5 7° 17.4	0° 17.5 3° 17.8 7° 17.6			
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.3	±7.2	±3.1	±6.2	±10	±6.7	±10.5
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.2	±0.2	±0.4	±0.4	±0.3	±0.4
USLS, beampeak to 20° above beampeak, dB	18	16	14	15	17	14		
Front-to-Back Total Power at 180° ± 30°, dB	22	25	25	25	24	26	25	24
CPR at Boresight, dB	24	17	16	21	19	15	17	14
CPR at Sector, dB	12	6	11	10	8	8	9	7

Mechanical Specifications

Wind Loading @ Velocity, frontal	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	1973 mm 77.677 in
Depth, packed	441 mm 17.362 in
Length, packed	337 mm 13.268 in
Weight, gross	35.1 kg 77.382 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value

NHHSS-65B-R2BT4

ROHS

Compliant/Exempted



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

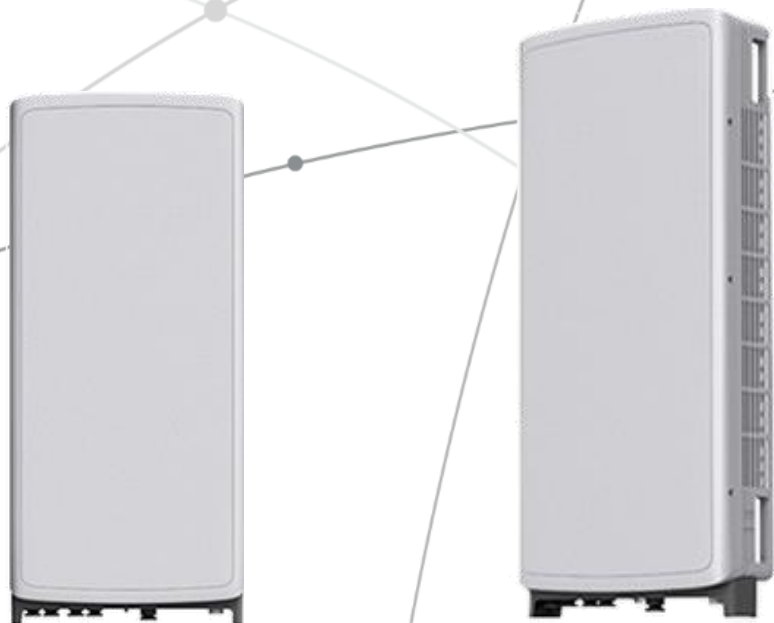
- Performance Note** Severe environmental conditions may degrade optimum performance

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



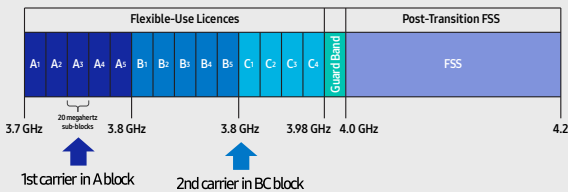
Points of Differentiation

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

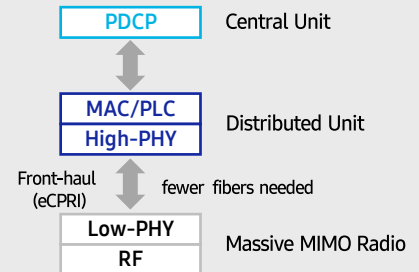
C-Band spectrum supported by Massive MIMO Radio



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.

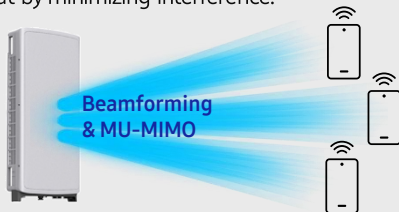


Enhanced Performance

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.

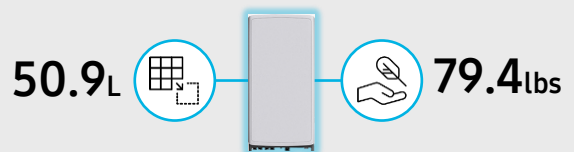
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



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

© 2021 Samsung Electronics Co., Ltd.

All rights reserved. Information in this leaflet is proprietary to Samsung Electronics Co., Ltd. and is subject to change without notice. No information contained here may be copied, translated, transcribed or duplicated by any form without the prior written consent of Samsung Electronics.

SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage
samsungnetworks.com

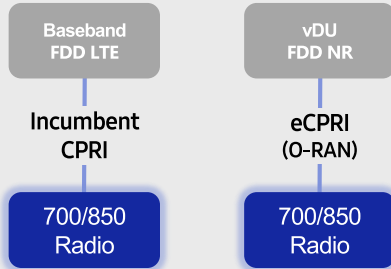


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

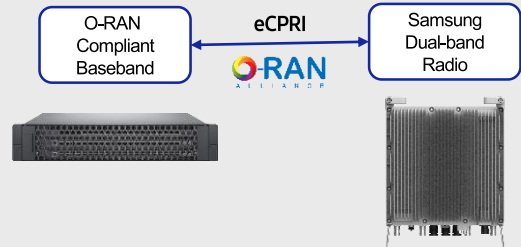
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

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

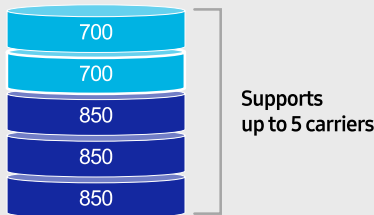
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

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

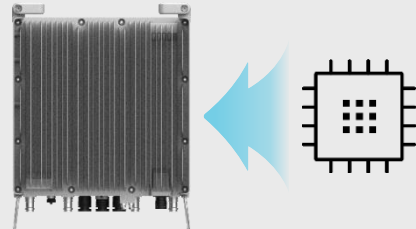
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

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



Technical Specifications

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

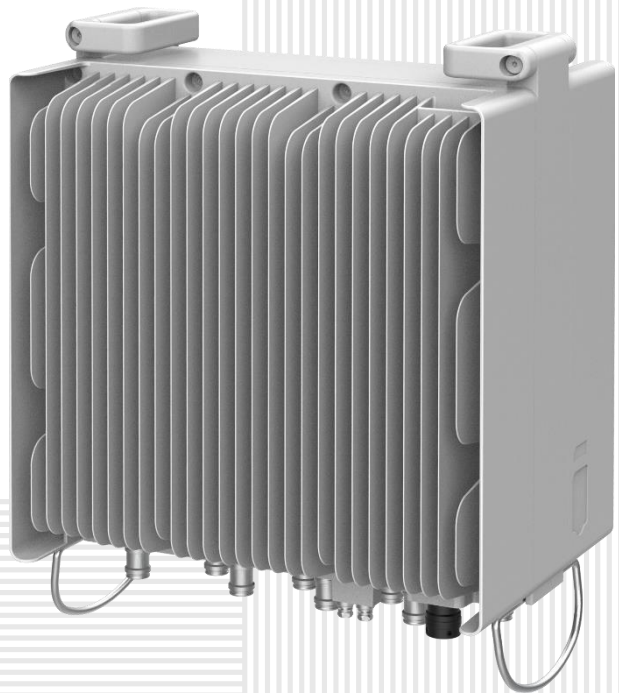
SAMSUNG

AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

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

Model Code RF4439d-25A



Homepage
samsungnetworks.com

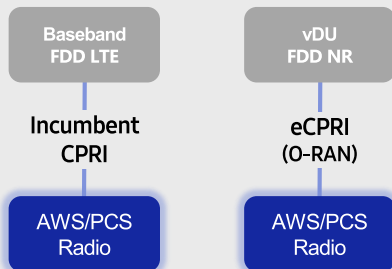


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

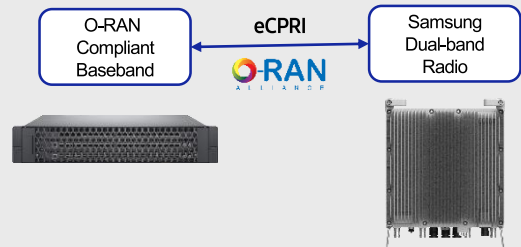
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

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

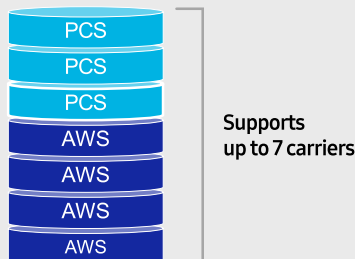
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

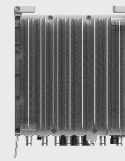
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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



Brand New Features in a Compact Size

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



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

Same as an incumbent radio volume

Technical Specifications

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

Specifications

The table below outlines the main specifications of the RRH.

Table 1. Specifications

Item	RT4401-48A
Air Technology	LTE
Band	Band 48 (3.5 GHz)
Operating Frequency (MHz)	3550 to 3700
RF Chain	4TX/4RX
Input Power	-48 V DC (-38 to -57 V DC, 1 SKU), with clip-on AC-DC converter (Option)
Dimension (W × D × H) (mm)	8.55 in. (217.4) × 4.15 in. (105.5) × 13.91 in. (353.5) * RRH only 11.39 in. (289.4) × 5.45 in. (138.5) × 16.16 in. (410.5) * with Clip-on antenna, AC-DC power unit
Cooling	Natural convection
Unwanted Emission	3GPP 36.104 Category A [B48]: FCC 47 CFR 96.41 e)
Spectrum Analyzer	TX/RX Support
Antenna Type	Integrated (Clip-on) antenna (Option), External antenna (Option)
Operating Humidity	5 to 100 [%] (RH), condensing, not to exceed 30 g/m ³ absolute humidity
Altitude	-60 to 1,800 m
Earthquake	Telcordia Earthquake Risk Zone4 (Telcordia GR-63-CORE)
Vibration in Use	Office Vibration
Transportation Vibration	Transportation Vibration
Noise	Fanless (natural convection cooling)
Wind Resistance	Telcordia GR-487-CORE, Section 3.34
EMC	FCC Title 47, CFR Part 96
Safety	UL 60950-1 2nd ED

Item	RT4401-48A
	UL 62368-1 UL 60950-22
RF	FCC Title 47, CFR Part 96

The table below outlines the AC/DC power unit specifications of the RRH system.

ATTACHMENT 3

Site Name: **E GLASTONBURY 2 CT**
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW 700	751	4	710	2840	167	0.0037	0.5007	0.73%
VZW Cellular	869	4	679	2716	167	0.0035	0.5793	0.60%
VZW PCS	1980	4	1422	5688	167	0.0073	1.0000	0.73%
VZW AWS	2125	4	1496	5984	167	0.0077	1.0000	0.77%
VZW CBAND	3730	4	6531	26124	167	0.0337	1.0000	3.37%
VZW CBRS	3625	4	12	48	167	0.0001	1.0000	0.01%
Total Percentage of Maximum Permissible Exposure								6.22%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

CUMULATIVE MPE TABLE

Carrier	MPE %
Dish	1.19 %
Voice Stream	0.23 %
Metro PSC	0.34 %
Sprint	2.41 %
AT&T	5.60 %
T-Mobile	6.79 %
*Verizon Wireless	6.22 %
<i>Site Total</i>	<i>22.78 %</i>

*See attached Verizon Wireless General Power Density table.

Note: MPE percentages for the carriers in the above table was compiled from the EBI Consulting Radio Frequency Emissions Analysis Report, dated May 10, 2022 submitted by T-Mobile on May 16, 2022 (EM-T-Mobile-054-220518).

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 176 ft SUMMIT Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT02216-S

Customer Site Name: Glastonbury

Carrier Name: Verizon (App#: 202323, V1)

Carrier Site ID / Name: 468152 / East Glastonbury 2_CT

Site Location: 175 Dickenson Road

Glastonbury, Connecticut

Hartford County

Latitude: 41.655897

Longitude: -72.523255

Analysis Result:

Max Structural Usage: 76.4% [Pass]

Max Foundation Usage: 61.0% [Pass]

Additional Usage Caused by Mount Modification: +2.5%

Report Prepared By: Younus Alkarawi





Tower Engineering Solutions

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

Structural Analysis Report

Existing 176 ft SUMMIT Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT02216-S

Customer Site Name: Glastonbury

Carrier Name: Verizon (App#: 202323, V1)

Carrier Site ID / Name: 468152 / East Glastonbury 2_CT

Site Location: 175 Dickenson Road

Glastonbury, Connecticut

Hartford County

Latitude: 41.655897

Longitude: -72.523255

Analysis Result:

Max Structural Usage: 76.4% [Pass]

Max Foundation Usage: 61.0% [Pass]

Additional Usage Caused by Mount Modification: +2.5%

Report Prepared By: Younus Alkarawi

Introduction

The purpose of this report is to summarize the analysis results on the 176 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

Tower Drawings	Paul J. Ford and Company, Job #29200-887 dated June 19, 2000
Foundation Drawing	Paul J. Ford and Company, Job #29200-887 dated June 19, 2000
Geotechnical Report	FDH Engineering, Project #1204838EG1 dated August 13, 2012
Modification Drawings	N/A
Mount Analysis	Maser Consulting Connecticut: 22777014A, Dated 08/24/2022; MMD by Maser Consulting # 22777014A, Dated 08/24/2022

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.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 125.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 97.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_S = 0.179$, $S_1 = 0.063$

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	177.0	3	Ericsson AIR6419 B41 Panel	(1) Low profile platform w/HRK & reinforcement kit Sitepro RMQP-4096-HK	(9) 1 5/8" Coax (1) 1-5/8" Fiber (2) 1.9" Fiber	T-Mobile
2		3	RFS APXVAALL24_43-U-NA20 Panel			
3		6	Allen Telecom FE15501P77/75 TMA			
4		3	Ericsson KRY 112 144/1 TMA			
5		3	Ericsson KRY 112 489/2 TMA			
6		3	Ericsson 4449 B71 + B85 RRU			
7		3	Ericsson 4460 B25 + B66 RRU			
-	167.0	3	RRH2X60-AWS	(1) Low Profile Platform	(6) 1 5/8" (2) 1 5/8" Hybrid	Verizon
-		3	RRH2X60-700			
-		6	SBNHH-1D65B - Panel			
-		4	LPA-80063-4CF-EDIN-5 - Panel			
-		2	APL868013 - Panel			
-		1	DB-T16Z-8AB-OZ			
17	157.0	3	ALU 1900 Mhz	(1) Low Profile Platform w/ Mount Reinforcement kit: (1) Sitepro PRK-1245L (1) Sitepro HRK14-U (1) Sitepro PRK-SFS-H-L	(4) 1 1/4" Fiber	Sprint Nextel
18		6	ALU 800 Mhz			
19		3	ALU TD-RRH8x20-25			
20		3	RFS APXVTM14-C-I20 - Panel			
21		3	Commscope NNVV-65B-R4 - Panel			
22	147.0	3	JMA Wireless MX08FRO665-21 - Panel	(1) Platform w/Handrail Commscope MC-PK8-DSH	(1) 1.6" Hybrid	Dish Wireless
23		3	Fujitsu TA08025-B605 RRU			
24		3	Fujitsu TA08025-B604 RRU			
25		1	Raycap RDIDC-9181-PF-48			
26	137.0	3	KMW HPA-65R-BU6AA Panel	(1) LP Platformw/handrail Handrail SitePro 1:HRK14	(12) 1 5/8" (2) 1" DC Power (1) 1/2" Fiber	AT&T
27		3	CCI DMP65R-BU6DA Panel			
28		3	Powerwave 7770 Panel			
29		6	Powerwave LGP21401 TMA			
30		3	Ericsson 4449 B5/B12 RRU			
31		3	Ericsson RRUS 8843 B2 B66A RRU			
32		9	Powerwave LGP21903 Diplexer			
33		12	Powerwave 7020.00 RET			
34		1	Raycap DC6-48-60-18-8F			
35		3	Smart Bias T 1001940			

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
8	167.0	3	Commscope NHH-65B-R2B - Panel	Modified Low Profile Platform W/ (1) VZWSMART-PLK5 (Kicker kit), (1) VZWSMART-PLK7 (Collar mount), (3) VZWSMART-P40-238X096 (96" LONG, PIPE 2 SCH40 (2.375"OD X 0.154" THK), (12) VZWSMART-MSK2 (Crossover plate) & (3) VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)	(2) 1 5/8" Hybrid (6) 1 5/8" HybridFlex	Verizon
9		3	Commscope NHHSS-65B-R2BT4 - Panel			
10		3	Samsung MT6407-77A - Panel			
11		2	Antel LPA 80063-4CF-EDIN-5 - Panel			
12		1	RFS APL868013 - Panel			
13		3	Samsung B2/B66A RRH ORAN (RF4439d-25A)			
14		3	Samsung B5/B13 RRH ORAN (RF4440d-13A)			
15		3	Samsung CBRS RRH - RT4401-48A			
16		2	Raycap DB-B1-6C-12AB-0Z-OVP			

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:	69.9%	61.4%	76.4%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)
Original Design Reactions	5100.0	38.0
Analysis Reactions	4861.4	35.2
Factored Reactions*	6885.0	51.3
% of Design Reactions	70.6%	68.6%

* Per section 15.5.1 of the TIA-222-G standard, factored reactions were obtained by multiplying a 1.35 factor to the original design reactions.

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 1.6860 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 69.85% at 49.0ft

Structure: CT02216-S-SBA
Site Name: Glastonbury
Height: 176.00 (ft)
Base Elev: 0.000 (ft)

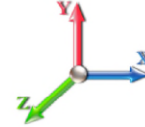
Code: EIA/TIA-222-G
Exposure: B
Gh: 1.1

9/12/2022



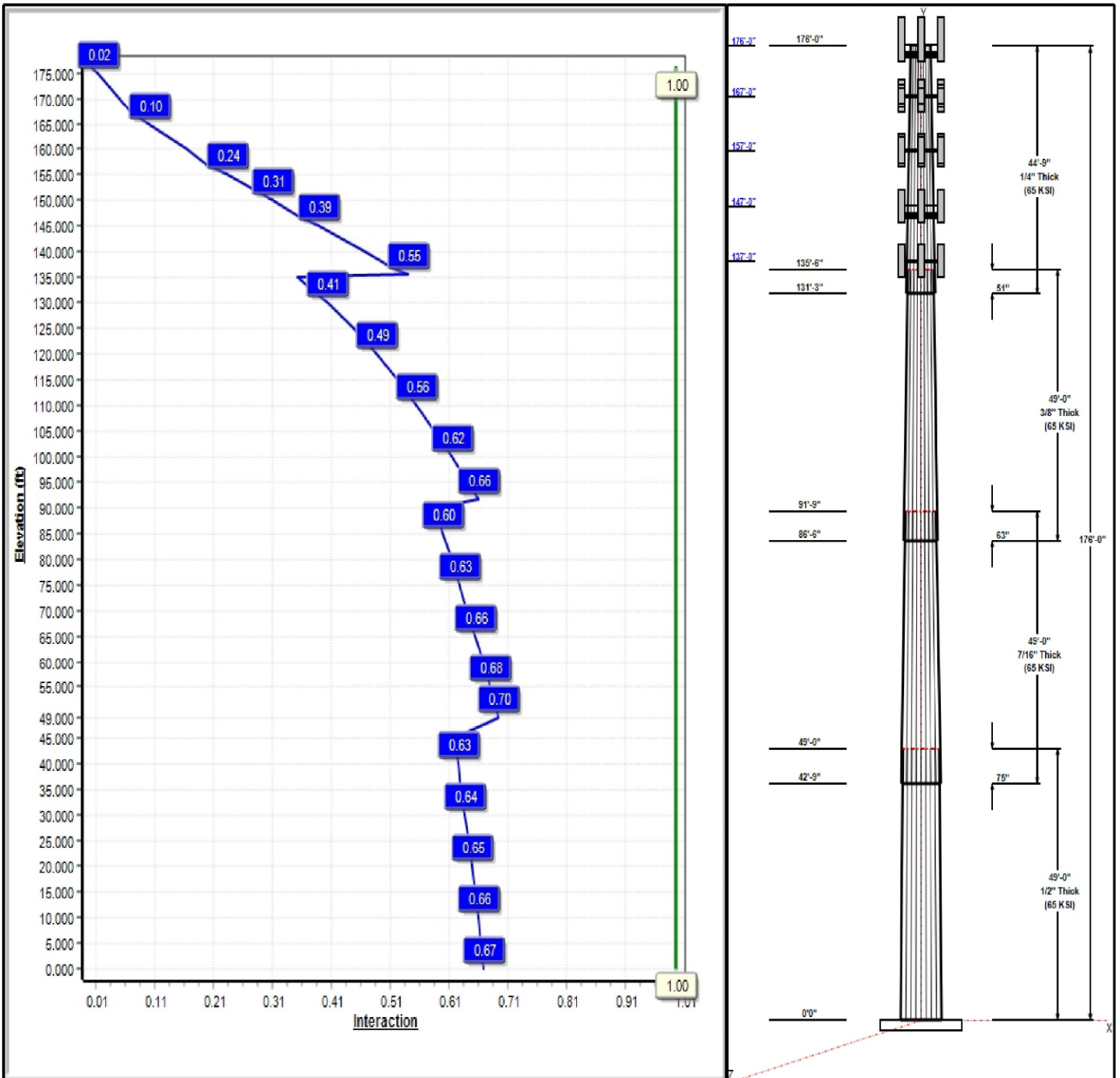
Dead Load Factor: 1.20
 Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 97 mph Wind



Iterations: 26

Copyright © 2022 by Tower Engineering Solutions, LLC. All rights reserved.



Structure: CT02216-S-SBA

Type: Tapered
Site Name: Glastonbury
Height: 176.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.19702

9/12/2022

Page: 2

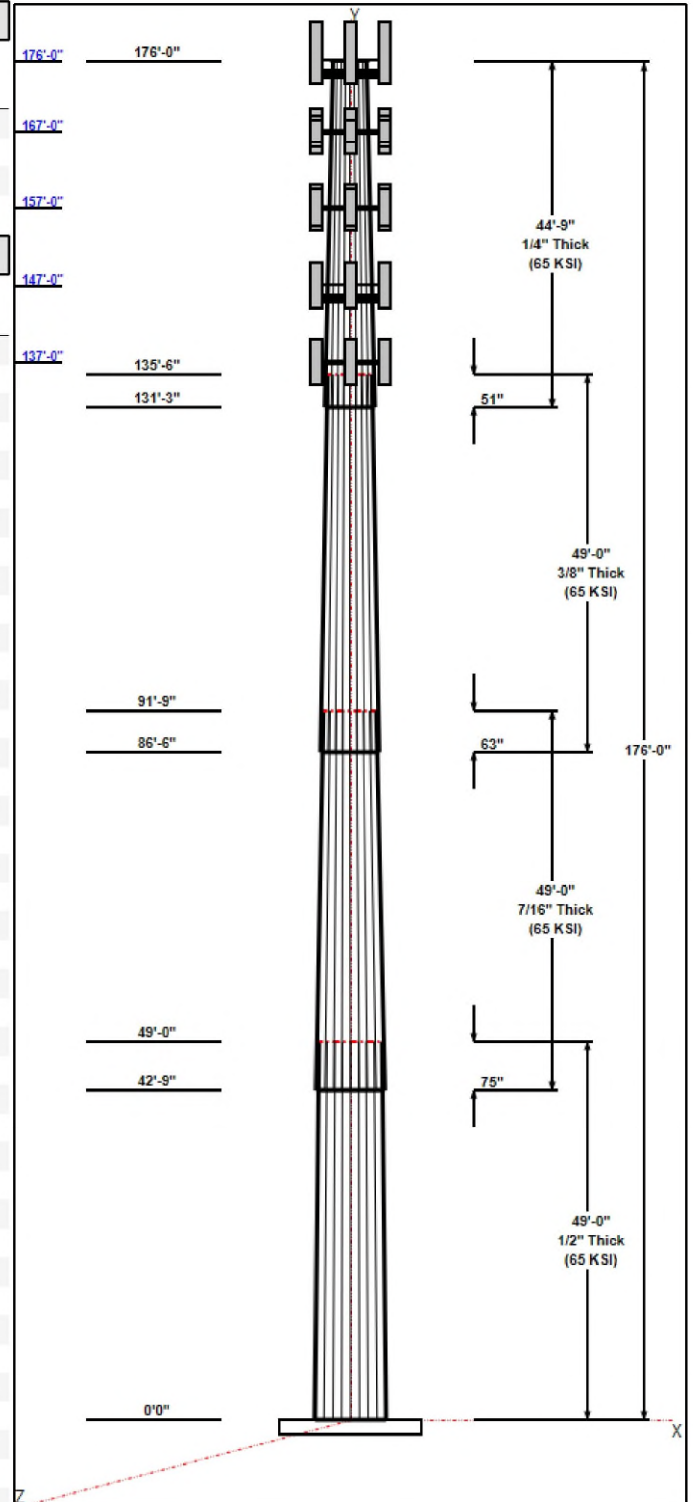


Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	49.00	46.90	56.55	0.500		0.19702	65
2	49.00	39.35	49.00	0.438	Slip	0.19702	65
3	49.00	31.48	41.13	0.375	Slip	0.19702	65
4	44.75	24.00	32.82	0.250	Slip	0.19702	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
176.00	177.00	6	MHA FE15501P77/75	T-Mobile
176.00	177.00	1	RMQP-496-HK	T-Mobile
176.00	177.00	3	KRY 112 489/2	T-Mobile
176.00	177.00	3	KRY 112 89/4	T-Mobile
176.00	179.50	1	Lightning Rod	
176.00	177.00	3	AIR 6419 B41	T-Mobile
176.00	177.00	3	APXVAALL24_43-U-NA20	T-Mobile
176.00	177.00	3	4449 B71 + B85	T-Mobile
176.00	177.00	3	4460 B25 + B66	T-Mobile
167.00	167.00	1	Low Profile	Verizon
167.00	167.00	3	Commscope	Verizon
167.00	167.00	3	Commscope	Verizon
167.00	167.00	3	Samsung MT6407-77A	Verizon
167.00	167.00	3	B2/B66A RRH ORAN	Verizon
167.00	167.00	3	B5/B13 RRH ORAN	Verizon
167.00	167.00	3	CBRS RRH - RT4401-48A	Verizon
167.00	167.00	2	Raycap	Verizon
167.00	167.00	1	KICKER KIT	Verizon
167.00	167.00	1	MONOPOLE COLLAR	Verizon
167.00	167.00	1	SUPPORT RAIL CORNER	Verizon
167.00	167.00	2	LPA-80063-4CF-EDIN-5	Verizon
167.00	167.00	1	APL868013	Verizon
157.00	157.00	3	RFS APXVTM14-C-I20	Sprint Nextel
157.00	157.00	3	Commscope	Sprint Nextel
157.00	157.00	1	Sitepro PRK-1245L	Sprint Nextel
157.00	157.00	1	Sitepro HRK14-U	Sprint Nextel
157.00	157.00	1	Sitepro PRK-SFS-H-L	Sprint Nextel
157.00	157.00	1	Low Profile Platform	Sprint Nextel
157.00	157.00	3	ALU 1900 Mhz	Sprint Nextel
157.00	157.00	6	ALU 800 Mhz	Sprint Nextel
157.00	157.00	3	ALU TD-RRH8x20-25	Sprint Nextel
147.00	147.00	3	MX08FRO665-21	Dish Wireless
147.00	147.00	1	MC-PK8-DSH	Dish Wireless
147.00	147.00	3	TA08025-B605	Dish Wireless
147.00	147.00	3	TA08025-B604	Dish Wireless
147.00	147.00	1	RDIDC-9181-PF-48	Dish Wireless
137.00	137.00	1	HRK14	AT&T
137.00	137.00	3	DMP65R-BU6DA	AT&T
137.00	137.00	3	4449 B5/B12	AT&T
137.00	137.00	1	LP Platform-Round	AT&T
137.00	137.00	3	B2 B66A 8843	AT&T
137.00	137.00	1	DC6-48-60-18-8F	AT&T
137.00	137.00	3	7770.00	AT&T
137.00	137.00	6	LGP21401	AT&T
137.00	137.00	6	LGP21903	AT&T



Structure: CT02216-S-SBA

Type: Tapered	Base Shape: 18 Sided	9/12/2022
Site Name: Glastonbury	Taper: 0.19702	
Height: 176.00 (ft)		
Base Elev: 0.00 (ft)		Page: 3



137.00	137.00	3	HPA-65R-BUU-H6	AT&T
137.00	137.00	12	7020	AT&T
137.00	137.00	3	Smart Bias T 1001940	AT&T

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	177.00	Inside	1 5/8" Coax	T-Mobile
0.00	177.00	Inside	1 5/8" Fiber	T-Mobile
0.00	177.00	Inside	1.9" Fiber	T-Mobile
0.00	176.00	Outside	Safety Cable	
0.00	176.00	Outside	Step bolts (ladder)	
0.00	167.00	Inside	1 5/8" Hybrid	Verizon
0.00	167.00	Inside	1 5/8" HybridFlex	Verizon
0.00	157.00	Inside	1 1/4" Fiber	Sprint Nextel
0.00	147.00	Inside	1.6" Hybrid	Dish Wireless
0.00	137.00	Inside	1 5/8" Coax	AT&T
0.00	137.00	Inside	1" DC	AT&T
0.00	137.00	Inside	1/2" Fiber	AT&T

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
24	2.25" 18J	75.0	Cluster

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.0000	66.0	50.0	Clipped

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 97 mph Wind	4861.4	35.2	68.2
0.9D + 1.6W 97 mph Wind	4776.1	35.2	51.1
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1582.9	10.8	117.5
1.2D + 1.0E	428.8	3.0	68.2
0.9D + 1.0E	420.7	3.0	51.2
1.0D + 1.0W 60 mph Wind	1151.3	8.4	56.8

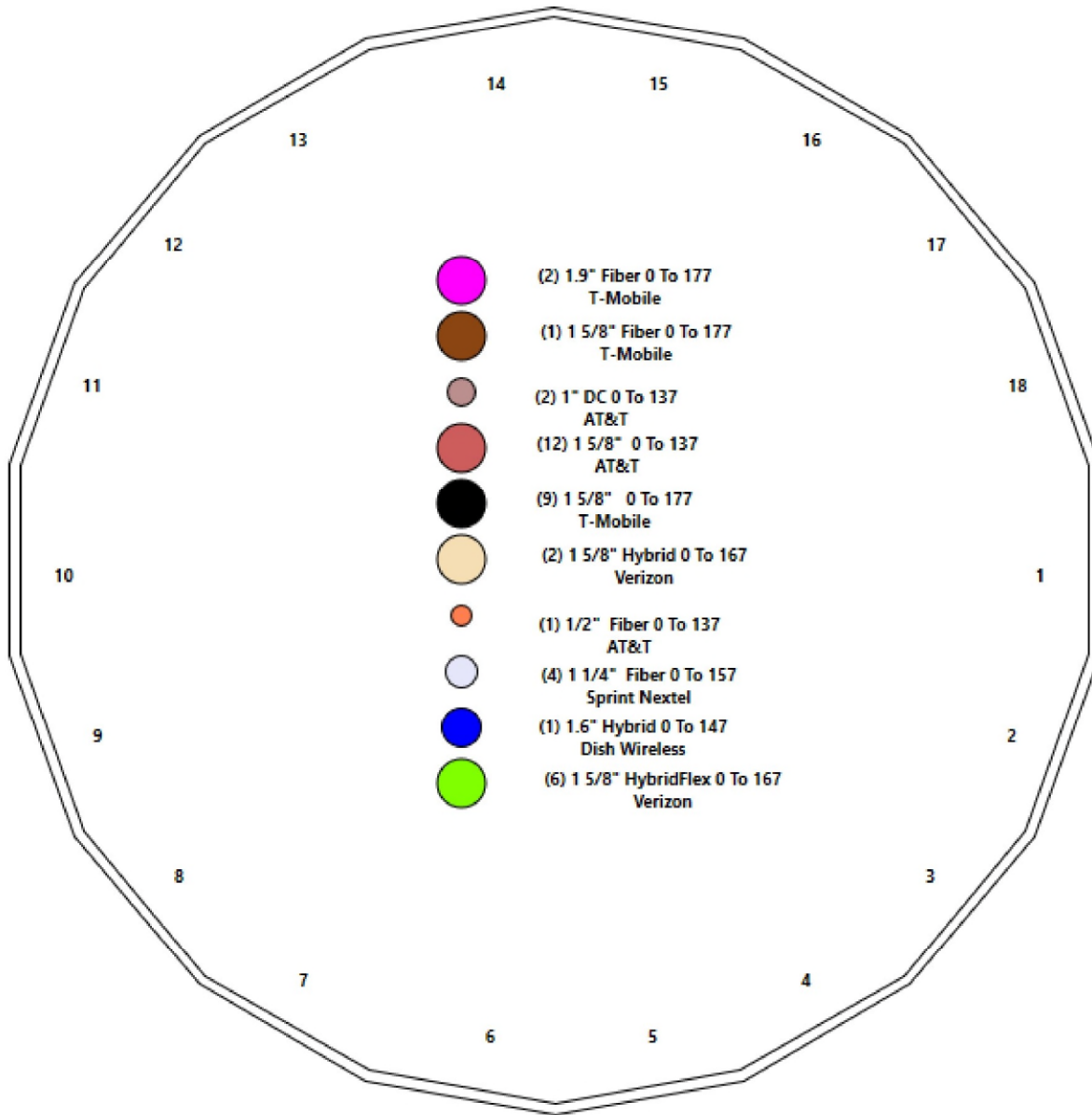
Structure: CT02216-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Glastonbury
Height: 176.00 (ft)

9/12/2022



Page: 4



Shaft Properties

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 5

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	49.000	0.5000	65		0.00	13,554
2	18	49.000	0.4375	65	Slip	75.00	10,126
3	18	49.000	0.3750	65	Slip	63.00	7,131
4	18	44.750	0.2500	65	Slip	51.00	3,402
Total Shaft Weight:							34,213

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	56.55	0.00	88.95	35305.41	18.53	113.10	46.90	49.00	73.63	20024.4	15.13	93.79	0.197017
2	49.00	42.75	67.44	20095.24	18.34	112.01	39.35	91.75	54.03	10335.8	14.45	89.94	0.197017
3	41.13	86.50	48.51	10181.58	17.93	109.69	31.48	135.50	37.02	4525.14	13.39	83.94	0.197017
4	32.82	131.2	25.84	3462.57	21.74	131.27	24.00	176.00	18.84	1343.00	15.52	96.00	0.197017

Load Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: 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	176.00	MHA FE15501P77/75	6	11.00	0.93	0.65	37.10	1.886	0.65	0.00	1.00
2	176.00	RMQP-496-HK	1	2449.00	46.00	1.00	5923.32	89.506	1.00	0.00	1.00
3	176.00	KRY 112 489/2	3	15.40	0.65	0.67	39.27	1.479	0.67	0.00	1.00
4	176.00	KRY 112 89/4	3	15.40	0.65	0.67	39.27	1.479	0.67	0.00	1.00
5	176.00	Lightning Rod	1	35.00	1.05	1.00	77.56	4.266	1.00	0.00	3.50
6	176.00	AIR 6419 B41	3	133.20	6.53	0.70	369.66	8.003	0.70	0.00	1.00
7	176.00	APXVAALL24_43-U-NA20	3	122.80	20.24	0.73	728.19	22.848	0.73	0.00	1.00
8	176.00	4449 B71 + B85	3	73.20	1.97	0.67	151.43	2.741	0.67	0.00	1.00
9	176.00	4460 B25 + B66	3	72.00	1.64	0.67	135.47	2.313	0.67	0.00	1.00
10	167.00	Low Profile Platform-Round	1	1500.00	22.00	1.00	3264.05	45.803	1.00	0.00	0.00
11	167.00	Commscope NHH-65B-R2B	3	43.70	8.08	0.83	333.76	9.863	0.83	0.00	0.00
12	167.00	Commscope NHHSS-65B-R2BT4	3	50.70	8.19	0.85	343.65	9.984	0.85	0.00	0.00
13	167.00	Samsung MT6407-77A	3	79.40	4.69	0.70	252.52	5.988	0.70	0.00	0.00
14	167.00	B2/B66A RRH_ORAN	3	84.40	1.87	0.67	196.49	2.669	0.67	0.00	0.00
15	167.00	B5/B13 RRH_ORAN	3	70.30	1.87	0.67	172.34	2.669	0.67	0.00	0.00
16	167.00	CBRS RRH - RT4401-48A	3	18.60	0.99	0.67	55.93	1.558	0.67	0.00	0.00
17	167.00	Raycap DB-B1-6C-12AB-0Z-OVP	2	32.00	3.78	0.90	213.95	4.909	0.90	0.00	0.00
18	167.00	KICKER KIT	1	146.00	5.33	1.00	420.72	12.852	1.00	0.00	0.00
19	167.00	MONOPOLE COLLAR MOUNT	1	150.60	2.50	1.00	433.98	6.028	1.00	0.00	0.00
20	167.00	SUPPORT RAIL CORNER	1	430.00	8.75	1.00	1117.75	20.275	1.00	0.00	0.00
21	167.00	LPA-80063-4CF-EDIN-5	2	20.00	6.15	0.93	266.55	8.702	0.93	0.00	0.00
22	167.00	APL868013	1	6.30	2.86	1.00	163.90	4.061	1.00	0.00	0.00
23	157.00	RFS APXVTM14-C-I20	3	56.20	6.34	0.77	286.02	7.864	0.77	0.00	0.00
24	157.00	Commscope NNVV-65B-R4	3	77.40	12.27	0.75	459.89	14.220	0.75	0.00	0.00
25	157.00	Sitepro PRK-1245L	1	464.91	9.50	1.00	899.62	22.824	1.00	0.00	0.00
26	157.00	Sitepro HRK14-U	1	302.36	8.13	1.00	782.98	18.773	1.00	0.00	0.00
27	157.00	Sitepro PRK-SFS-H-L	1	230.00	6.70	1.00	660.12	16.097	1.00	0.00	0.00
28	157.00	Low Profile Platform	1	1500.00	22.00	1.00	3253.19	45.656	1.00	0.00	0.00
29	157.00	ALU 1900 Mhz	3	60.00	2.77	0.67	171.76	4.469	0.67	0.00	0.00
30	157.00	ALU 800 Mhz	6	53.00	2.49	0.67	152.06	4.022	0.67	0.00	0.00
31	157.00	ALU TD-RRH8x20-25	3	70.00	4.05	0.67	228.65	5.168	0.67	0.00	0.00
32	147.00	MX08FRO665-21	3	64.50	12.49	0.74	451.55	14.439	0.74	0.00	0.00
33	147.00	MC-PK8-DSH	1	1727.00	37.59	1.00	3972.90	00.441	1.00	0.00	0.00
34	147.00	TA08025-B605	3	75.00	1.96	0.67	144.60	2.707	0.67	0.00	0.00
35	147.00	TA08025-B604	3	63.90	1.96	0.67	131.27	2.707	0.67	0.00	0.00
36	147.00	RDIDC-9181-PF-48	1	21.90	2.01	1.00	92.75	2.766	1.00	0.00	0.00
37	137.00	HRK14	1	302.36	8.13	1.00	776.48	18.628	1.00	0.00	0.00
38	137.00	DMP65R-BU6DA	3	79.40	12.71	0.72	468.58	14.644	0.72	0.00	0.00
39	137.00	4449 B5/B12	3	71.00	1.97	0.67	141.53	2.693	0.67	0.00	0.00
40	137.00	LP Platform-Round	1	1500.00	22.00	1.00	3229.47	45.336	1.00	0.00	0.00
41	137.00	B2 B66A 8843	3	70.00	1.64	0.67	130.76	2.322	0.67	0.00	0.00
42	137.00	DC6-48-60-18-8F	1	32.80	1.47	1.00	117.06	2.395	1.00	0.00	0.00
43	137.00	7770.00	3	35.00	5.50	0.73	226.86	6.937	0.73	0.00	0.00
44	137.00	LGP21401	6	19.00	1.29	0.67	63.51	2.394	0.67	0.00	0.00
45	137.00	LGP21903	6	5.00	0.27	0.67	15.12	0.795	0.67	3.00	0.00
46	137.00	HPA-65R-BUU-H6	3	51.00	9.66	0.85	396.24	11.499	0.85	0.00	0.00
47	137.00	7020	12	2.20	0.40	0.67	15.71	1.040	0.67	0.00	0.00
48	137.00	Smart Bias T 1001940	3	2.00	0.09	0.67	4.64	0.400	0.67	5.70	0.00
Totals:			131	16,120.13			46,123.23				

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		

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	177.00	(9) 1 5/8" Coax	0.00	Inside
0.00	177.00	(1) 1 5/8" Fiber	0.00	Inside
0.00	177.00	(2) 1.9" Fiber	0.00	Inside
0.00	176.00	(1) Safety Cable	0.38	Outside
0.00	176.00	(1) Step bolts (ladder)	0.63	Outside
0.00	167.00	(2) 1 5/8" Hybrid	0.00	Inside
0.00	167.00	(6) 1 5/8" HybridFlex	0.00	Inside
0.00	157.00	(4) 1 1/4" Fiber	0.00	Inside
0.00	147.00	(1) 1.6" Hybrid	0.00	Inside
0.00	137.00	(12) 1 5/8" Coax	0.00	Inside
0.00	137.00	(2) 1" DC	0.00	Inside
0.00	137.00	(1) 1/2" Fiber	0.00	Inside

Shaft Section Properties

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 8

Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in ³)	Weight (lb)
0.00		0.5000	56.550	88.948	35305.4	18.53	113.10	79.6	1229.	0.0
5.00		0.5000	55.565	87.385	33476.4	18.18	111.13	80.0	1186.	1500.1
10.00		0.5000	54.580	85.822	31711.8	17.84	109.16	80.4	1144.	1473.5
15.00		0.5000	53.595	84.258	30010.2	17.49	107.19	80.8	1102.	1446.9
20.00		0.5000	52.610	82.695	28370.6	17.14	105.22	81.2	1062.	1420.3
25.00		0.5000	51.625	81.132	26791.9	16.79	103.25	81.6	1022.	1393.7
30.00		0.5000	50.639	79.569	25272.8	16.45	101.28	82.1	983.0	1367.1
35.00		0.5000	49.654	78.005	23812.3	16.10	99.31	82.5	944.6	1340.5
40.00		0.5000	48.669	76.442	22409.2	15.75	97.34	82.5	906.9	1313.9
42.75	Bot - Section 2	0.5000	48.128	75.582	21661.5	15.56	96.26	82.5	886.5	711.3
45.00		0.5000	47.684	74.879	21062.3	15.41	95.37	82.5	870.0	1089.9
49.00	Top - Section 1	0.4375	47.771	65.726	18605.1	17.84	109.19	0.0	0.0	1912.7
50.00		0.4375	47.574	65.453	18373.8	17.76	108.74	80.5	760.7	223.2
55.00		0.4375	46.589	64.085	17245.7	17.37	106.49	81.0	729.1	1102.0
60.00		0.4375	45.604	62.717	16164.8	16.97	104.24	81.4	698.2	1078.7
65.00		0.4375	44.619	61.349	15130.1	16.57	101.99	81.9	667.9	1055.4
70.00		0.4375	43.634	59.981	14140.4	16.18	99.73	82.4	638.3	1032.2
75.00		0.4375	42.649	58.613	13194.9	15.78	97.48	82.5	609.4	1008.9
80.00		0.4375	41.664	57.246	12292.5	15.38	95.23	82.5	581.1	985.6
85.00		0.4375	40.679	55.878	11432.2	14.98	92.98	82.5	553.5	962.3
86.50	Bot - Section 3	0.4375	40.383	55.467	11182.2	14.87	92.30	82.5	545.4	284.2
90.00		0.4375	39.693	54.510	10613.0	14.59	90.73	82.5	526.6	1227.8
91.75	Top - Section 2	0.3750	40.099	47.279	9425.9	17.44	106.93	0.0	0.0	605.9
95.00		0.3750	39.458	46.517	8977.4	17.14	105.22	81.2	448.1	518.7
100.00		0.3750	38.473	45.345	8315.6	16.68	102.60	81.8	425.7	781.5
105.00		0.3750	37.488	44.172	7687.1	16.22	99.97	82.3	403.9	761.5
110.00		0.3750	36.503	43.000	7091.1	15.75	97.34	82.5	382.6	741.6
115.00		0.3750	35.518	41.827	6526.7	15.29	94.71	82.5	361.9	721.6
120.00		0.3750	34.533	40.655	5993.1	14.83	92.09	82.5	341.8	701.7
125.00		0.3750	33.548	39.483	5489.4	14.36	89.46	82.5	322.3	681.7
130.00		0.3750	32.563	38.310	5014.7	13.90	86.83	82.5	303.3	661.8
131.25	Bot - Section 4	0.3750	32.317	38.017	4900.5	13.78	86.18	82.5	298.7	162.3
135.00		0.3750	31.578	37.138	4568.3	13.44	84.21	82.5	284.9	805.5
135.50	Top - Section 3	0.2500	31.979	25.176	3202.3	21.14	127.92	0.0	0.0	106.0
137.00		0.2500	31.684	24.942	3113.6	20.94	126.73	76.8	193.6	127.9
140.00		0.2500	31.093	24.473	2941.3	20.52	124.37	77.3	186.3	252.2
145.00		0.2500	30.108	23.691	2668.4	19.82	120.43	78.1	174.6	409.7
147.00		0.2500	29.713	23.378	2564.1	19.55	118.85	78.4	170.0	160.2
150.00		0.2500	29.122	22.909	2412.9	19.13	116.49	78.9	163.2	236.3
155.00		0.2500	28.137	22.128	2174.2	18.43	112.55	79.7	152.2	383.1
157.00		0.2500	27.743	21.815	2083.4	18.16	110.97	80.0	147.9	149.5
160.00		0.2500	27.152	21.346	1951.9	17.74	108.61	80.5	141.6	220.3
165.00		0.2500	26.167	20.565	1745.2	17.05	104.67	81.4	131.4	356.5
167.00		0.2500	25.773	20.252	1666.8	16.77	103.09	81.7	127.4	138.9
170.00		0.2500	25.182	19.783	1553.7	16.35	100.73	82.2	121.5	204.3
175.00		0.2500	24.197	19.001	1376.7	15.66	96.79	82.5	112.1	329.9
176.00		0.2500	24.000	18.845	1343.0	15.52	96.00	82.5	110.2	64.4

34212.9

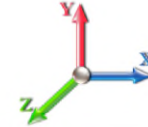
Wind Loading - Shaft

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 9
	Struct Class: II	



Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 26

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	0.70	16.018	17.62	388.35	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	16.018	17.62	381.58	0.650	0.000	5.00	23.718	15.42	434.6	0.0	1800.1
10.00		1.00	0.70	16.018	17.62	374.82	0.650	0.000	5.00	23.301	15.15	427.0	0.0	1768.1
15.00		1.00	0.70	16.018	17.62	368.05	0.650	0.000	5.00	22.884	14.87	419.3	0.0	1736.2
20.00		1.00	0.70	16.018	17.62	361.29	0.650	0.000	5.00	22.467	14.60	411.7	0.0	1704.3
25.00		1.00	0.70	16.018	17.62	354.52	0.650	0.000	5.00	22.050	14.33	404.1	0.0	1672.4
30.00		1.00	0.70	16.031	17.63	347.90	0.650	0.000	5.00	21.634	14.06	396.8	0.0	1640.5
35.00		1.00	0.73	16.753	18.43	348.73	0.650	0.000	5.00	21.217	13.79	406.6	0.0	1608.6
40.00		1.00	0.76	17.405	19.15	348.40	0.650	0.000	5.00	20.800	13.52	414.2	0.0	1576.6
42.75	Bot - Section 2	1.00	0.78	17.739	19.51	347.81	0.650	0.000	2.75	11.262	7.32	228.5	0.0	853.6
45.00		1.00	0.79	18.000	19.80	347.14	0.650	0.000	2.25	9.288	6.04	191.3	0.0	1307.9
49.00	Top - Section 1	1.00	0.81	18.444	20.29	345.58	0.650	0.000	4.00	16.303	10.60	344.0	0.0	2295.3
50.00		1.00	0.81	18.551	20.41	351.59	0.650	0.000	1.00	4.034	2.62	85.6	0.0	267.8
55.00		1.00	0.83	19.063	20.97	349.03	0.650	0.000	5.00	19.920	12.95	434.4	0.0	1322.4
60.00		1.00	0.85	19.543	21.50	345.92	0.650	0.000	5.00	19.503	12.68	436.0	0.0	1294.4
65.00		1.00	0.87	19.995	21.99	342.34	0.650	0.000	5.00	19.086	12.41	436.6	0.0	1266.5
70.00		1.00	0.89	20.422	22.46	338.35	0.650	0.000	5.00	18.670	12.14	436.2	0.0	1238.6
75.00		1.00	0.91	20.829	22.91	333.98	0.650	0.000	5.00	18.253	11.86	434.9	0.0	1210.7
80.00		1.00	0.93	21.217	23.34	329.29	0.650	0.000	5.00	17.836	11.59	432.9	0.0	1182.7
85.00		1.00	0.94	21.587	23.75	324.30	0.650	0.000	5.00	17.419	11.32	430.2	0.0	1154.8
86.50	Bot - Section 3	1.00	0.95	21.696	23.87	322.75	0.650	0.000	1.50	5.145	3.34	127.7	0.0	341.0
90.00		1.00	0.96	21.943	24.14	319.04	0.650	0.000	3.50	12.080	7.85	303.2	0.0	1473.3
91.75	Top - Section 2	1.00	0.96	22.064	24.27	317.14	0.650	0.000	1.75	5.963	3.88	150.5	0.0	727.1
95.00		1.00	0.97	22.284	24.51	319.61	0.650	0.000	3.25	10.940	7.11	278.9	0.0	622.4
100.00		1.00	0.99	22.613	24.87	313.93	0.650	0.000	5.00	16.486	10.72	426.5	0.0	937.8
105.00		1.00	1.00	22.931	25.22	308.03	0.650	0.000	5.00	16.069	10.45	421.5	0.0	913.8
110.00		1.00	1.02	23.238	25.56	301.93	0.650	0.000	5.00	15.653	10.17	416.1	0.0	889.9
115.00		1.00	1.03	23.535	25.89	295.66	0.650	0.000	5.00	15.236	9.90	410.2	0.0	865.9
120.00		1.00	1.04	23.823	26.20	289.21	0.650	0.000	5.00	14.819	9.63	403.9	0.0	842.0
125.00		1.00	1.05	24.102	26.51	282.60	0.650	0.000	5.00	14.402	9.36	397.1	0.0	818.1
130.00		1.00	1.07	24.374	26.81	275.85	0.650	0.000	5.00	13.986	9.09	390.0	0.0	794.1
131.25	Bot - Section 4	1.00	1.07	24.440	26.88	274.13	0.650	0.000	1.25	3.431	2.23	95.9	0.0	194.8
135.00		1.00	1.08	24.638	27.10	268.95	0.650	0.000	3.75	10.296	6.69	290.2	0.0	966.6
135.50	Top - Section 3	1.00	1.08	24.664	27.13	268.25	0.650	0.000	0.50	1.355	0.88	38.2	0.0	127.2
137.00	Appurtenance(s)	1.00	1.08	24.742	27.22	270.42	0.650	0.000	1.50	4.040	2.63	114.4	0.0	153.5
140.00		1.00	1.09	24.895	27.38	266.20	0.650	0.000	3.00	7.968	5.18	226.9	0.0	302.7
145.00		1.00	1.10	25.146	27.66	259.06	0.650	0.000	5.00	12.947	8.42	372.4	0.0	491.7
147.00	Appurtenance(s)	1.00	1.10	25.245	27.77	256.17	0.650	0.000	2.00	5.062	3.29	146.2	0.0	192.2
150.00		1.00	1.11	25.391	27.93	251.80	0.650	0.000	3.00	7.468	4.85	216.9	0.0	283.5
155.00		1.00	1.12	25.630	28.19	244.42	0.650	0.000	5.00	12.113	7.87	355.2	0.0	459.8
157.00	Appurtenance(s)	1.00	1.12	25.724	28.30	241.44	0.650	0.000	2.00	4.729	3.07	139.2	0.0	179.4
160.00		1.00	1.13	25.863	28.45	236.94	0.650	0.000	3.00	6.968	4.53	206.2	0.0	264.4
165.00		1.00	1.14	26.092	28.70	229.35	0.650	0.000	5.00	11.280	7.33	336.7	0.0	427.8
167.00	Appurtenance(s)	1.00	1.14	26.182	28.80	226.28	0.650	0.000	2.00	4.395	2.86	131.6	0.0	166.7
170.00		1.00	1.15	26.315	28.95	221.66	0.650	0.000	3.00	6.468	4.20	194.7	0.0	245.2
175.00		1.00	1.16	26.534	29.19	213.87	0.650	0.000	5.00	10.446	6.79	317.1	0.0	395.9
176.00	Appurtenance(s)	1.00	1.16	26.577	29.24	212.30	0.650	0.000	1.00	2.039	1.33	62.0	0.0	77.3

Wind Loading - Shaft

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 10



Totals:	176.00	14,174.3	41,055.5
----------------	---------------	-----------------	-----------------

Discrete Appurtenance Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

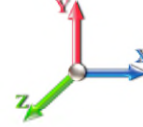


Page: 11

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 26

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	176.00	KRY 112 489/2	3	26.620	29.282	0.50	0.75	0.98	55.44	0.000	1.000	45.91	0.00	45.91
2	176.00	MHA FE15501P7775	6	26.620	29.282	0.49	0.75	2.72	79.20	0.000	1.000	127.45	0.00	127.45
3	176.00	Lightning Rod	1	26.727	29.400	1.00	1.00	1.05	42.00	0.000	3.500	49.39	0.00	172.87
4	176.00	RMQP-496-HK	1	26.620	29.282	1.00	1.00	46.00	2938.80	0.000	1.000	2155.19	0.00	2155.19
5	176.00	4460 B25 + B66	3	26.620	29.282	0.50	0.75	2.47	259.20	0.000	1.000	115.83	0.00	115.83
6	176.00	KRY 112 89/4	3	26.620	29.282	0.50	0.75	0.98	55.44	0.000	1.000	45.91	0.00	45.91
7	176.00	AIR 6419 B41	3	26.620	29.282	0.52	0.75	10.28	479.52	0.000	1.000	481.86	0.00	481.86
8	176.00	APXVAALL24_43-U-NA20	3	26.620	29.282	0.55	0.75	33.24	442.08	0.000	1.000	1557.56	0.00	1557.56
9	176.00	4449 B71 + B85	3	26.620	29.282	0.50	0.75	2.97	263.52	0.000	1.000	139.14	0.00	139.14
10	167.00	Commscope	3	26.182	28.800	0.64	0.75	15.66	182.52	0.000	0.000	721.77	0.00	0.00
11	167.00	Commscope	3	26.182	28.800	0.62	0.75	15.09	157.32	0.000	0.000	695.32	0.00	0.00
12	167.00	APL868013	1	26.182	28.800	1.00	1.00	2.86	7.56	0.000	0.000	131.79	0.00	0.00
13	167.00	Samsung MT6407-77A	3	26.182	28.800	0.52	0.75	7.39	285.84	0.000	0.000	340.38	0.00	0.00
14	167.00	LPA-80063-4CF-EDIN-5	2	26.182	28.800	0.84	0.90	10.30	48.00	0.000	0.000	474.40	0.00	0.00
15	167.00	Low Profile	1	26.182	28.800	1.00	1.00	22.00	1800.00	0.000	0.000	1013.76	0.00	0.00
16	167.00	KICKER KIT	1	26.182	28.800	1.00	1.00	5.33	175.20	0.000	0.000	245.61	0.00	0.00
17	167.00	B2/B66A RRH ORAN	3	26.182	28.800	0.50	0.75	2.82	303.84	0.000	0.000	129.90	0.00	0.00
18	167.00	B5/B13 RRH ORAN	3	26.182	28.800	0.50	0.75	2.82	253.08	0.000	0.000	129.90	0.00	0.00
19	167.00	CBRS RRH - RT4401-48A	3	26.182	28.800	0.50	0.75	1.49	66.96	0.000	0.000	68.77	0.00	0.00
20	167.00	Raycap	2	26.182	28.800	0.81	0.90	6.12	76.80	0.000	0.000	282.17	0.00	0.00
21	167.00	MONOPOLE COLLAR	1	26.182	28.800	1.00	1.00	2.50	180.72	0.000	0.000	115.20	0.00	0.00
22	167.00	SUPPORT RAIL CORNER	1	26.182	28.800	1.00	1.00	8.75	516.00	0.000	0.000	403.20	0.00	0.00
23	157.00	ALU TD-RRH8x20-25	3	25.724	28.296	0.54	0.80	6.51	252.00	0.000	0.000	294.84	0.00	0.00
24	157.00	ALU 800 Mhz	6	25.724	28.296	0.54	0.80	8.01	381.60	0.000	0.000	362.55	0.00	0.00
25	157.00	ALU 1900 Mhz	3	25.724	28.296	0.54	0.80	4.45	216.00	0.000	0.000	201.66	0.00	0.00
26	157.00	Sitepro PRK-1245L	1	25.724	28.296	1.00	1.00	9.50	557.89	0.000	0.000	430.10	0.00	0.00
27	157.00	RFS APXVTM14-C-I20	3	25.724	28.296	0.62	0.80	11.72	202.32	0.000	0.000	530.45	0.00	0.00
28	157.00	Commscope	3	25.724	28.296	0.60	0.80	22.09	278.64	0.000	0.000	999.92	0.00	0.00
29	157.00	Low Profile Platform	1	25.724	28.296	1.00	1.00	22.00	1800.00	0.000	0.000	996.03	0.00	0.00
30	157.00	Sitepro HRK14-U	1	25.724	28.296	1.00	1.00	8.13	362.83	0.000	0.000	368.08	0.00	0.00
31	157.00	Sitepro PRK-SFS-H-L	1	25.724	28.296	1.00	1.00	6.70	276.00	0.000	0.000	303.34	0.00	0.00
32	147.00	RDIDC-9181-PF-48	1	25.245	27.769	1.00	1.00	2.01	26.28	0.000	0.000	89.31	0.00	0.00
33	147.00	TA08025-B604	3	25.245	27.769	0.50	0.75	2.95	230.04	0.000	0.000	131.28	0.00	0.00
34	147.00	TA08025-B605	3	25.245	27.769	0.50	0.75	2.95	270.00	0.000	0.000	131.28	0.00	0.00
35	147.00	MC-PK8-DSH	1	25.245	27.769	1.00	1.00	37.59	2072.40	0.000	0.000	1670.15	0.00	0.00
36	147.00	MX08FRO665-21	3	25.245	27.769	0.55	0.75	20.80	232.20	0.000	0.000	923.97	0.00	0.00
37	137.00	B2 B66A 8843	3	24.742	27.216	0.50	0.75	2.47	252.00	0.000	0.000	107.66	0.00	0.00
38	137.00	4449 B5/B12	3	24.742	27.216	0.50	0.75	2.97	255.60	0.000	0.000	129.32	0.00	0.00
39	137.00	DC6-48-60-18-8F	1	24.742	27.216	1.00	1.00	1.47	39.36	0.000	0.000	64.01	0.00	0.00
40	137.00	7770.00	3	24.742	27.216	0.55	0.75	9.03	126.00	0.000	0.000	393.38	0.00	0.00
41	137.00	DMP65R-BU6DA	3	24.742	27.216	0.54	0.75	20.59	285.84	0.000	0.000	896.61	0.00	0.00
42	137.00	HRK14	1	24.742	27.216	1.00	1.00	8.13	362.83	0.000	0.000	354.02	0.00	0.00
43	137.00	LP Platform-Round	1	24.742	27.216	1.00	1.00	22.00	1800.00	0.000	0.000	958.00	0.00	0.00
44	137.00	LGP21401	6	24.742	27.216	0.50	0.75	3.89	136.80	0.000	0.000	169.36	0.00	0.00
45	137.00	LGP21903	6	24.742	27.216	0.50	0.75	0.81	36.00	4.341	0.000	35.45	96.16	0.00
46	137.00	HPA-65R-BUU-H6	3	24.742	27.216	0.64	0.75	18.47	183.60	0.000	0.000	804.49	0.00	0.00
47	137.00	7020	12	24.742	27.216	0.50	0.75	2.41	31.68	0.000	0.000	105.03	0.00	0.00

Discrete Appurtenance Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 12



48	137.00	Smart Bias T 1001940	3	24.742	27.216	0.50	0.75	0.14	7.20	7.041	0.000	5.91	26.00	0.00
Totals:												19,344.16	20,926.58	

Total Applied Force Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

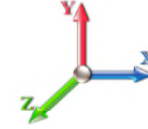


Page: 13

Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 26

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		434.61	2045.30	0.00	0.00
10.00		426.97	2013.39	0.00	0.00
15.00		419.34	1981.47	0.00	0.00
20.00		411.70	1949.55	0.00	0.00
25.00		404.06	1917.64	0.00	0.00
30.00		396.76	1885.72	0.00	0.00
35.00		406.64	1853.80	0.00	0.00
40.00		414.15	1821.89	0.00	0.00
42.75		228.55	988.43	0.00	0.00
45.00		191.25	1418.28	0.00	0.00
49.00		343.98	2491.46	0.00	0.00
50.00		85.61	316.87	0.00	0.00
55.00		434.41	1567.60	0.00	0.00
60.00		436.03	1539.67	0.00	0.00
65.00		436.58	1511.75	0.00	0.00
70.00		436.18	1483.82	0.00	0.00
75.00		434.94	1455.89	0.00	0.00
80.00		432.91	1427.97	0.00	0.00
85.00		430.19	1400.04	0.00	0.00
86.50		127.68	414.57	0.00	0.00
90.00		303.24	1644.98	0.00	0.00
91.75		150.52	812.96	0.00	0.00
95.00		278.89	781.79	0.00	0.00
100.00		426.49	1183.00	0.00	0.00
105.00		421.55	1159.06	0.00	0.00
110.00		416.11	1135.12	0.00	0.00
115.00		410.21	1111.18	0.00	0.00
120.00		403.87	1087.25	0.00	0.00
125.00		397.11	1063.31	0.00	0.00
130.00		389.96	1039.37	0.00	0.00
131.25		95.94	256.10	0.00	0.00
135.00		290.20	1150.53	0.00	0.00
135.50		38.24	151.71	0.00	0.00
137.00	(45) attachments	4137.59	3743.97	122.16	0.00
140.00		226.93	401.42	0.00	0.00
145.00		372.44	656.27	0.00	0.00
147.00	(11) attachments	3092.18	3088.96	0.00	0.00
150.00		216.92	378.67	0.00	0.00
155.00		355.16	618.35	0.00	0.00
157.00	(22) attachments	4626.12	4570.16	0.00	0.00
160.00		206.16	350.02	0.00	0.00
165.00		336.68	570.60	0.00	0.00
167.00	(27) attachments	4883.80	4277.61	0.00	0.00
170.00		194.71	299.19	0.00	0.00
175.00		317.09	485.88	0.00	0.00
176.00	(26) attachments	4780.24	4710.46	0.00	4841.72

Total Applied Force Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 14

Totals:	35,100.90	68,213.02	122.16	4,841.72
----------------	------------------	------------------	---------------	-----------------

Linear Appurtenance Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 15

Load Case: 1.2D + 1.6W 97 mph Wind	Iterations 26
Dead Load Factor 1.20	
Wind Load Factor 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	16.018	0.00	1.64
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	16.018	0.00	6.24
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	16.018	0.00	1.64
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	16.018	0.00	6.24
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	16.018	0.00	1.64
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	16.018	0.00	6.24
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	16.018	0.00	1.64
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	16.018	0.00	6.24
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	16.018	0.00	1.64
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	16.018	0.00	6.24
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	16.031	0.00	1.64
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	16.031	0.00	6.24
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	16.753	0.00	1.64
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	16.753	0.00	6.24
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	17.405	0.00	1.64
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	17.405	0.00	6.24
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.021	0.000	17.739	0.00	0.90
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.021	0.000	17.739	0.00	3.43
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.021	0.000	18.000	0.00	0.74
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.63	0.12	0.00	0.021	0.000	18.000	0.00	2.81
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.021	0.000	18.444	0.00	1.31
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.021	0.000	18.444	0.00	4.99
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.021	0.000	18.551	0.00	0.33
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.021	0.000	18.551	0.00	1.25
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	19.063	0.00	1.64
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	19.063	0.00	6.24
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	19.543	0.00	1.64
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	19.543	0.00	6.24
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	19.995	0.00	1.64
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	19.995	0.00	6.24
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	20.422	0.00	1.64
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	20.422	0.00	6.24
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	20.829	0.00	1.64
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	20.829	0.00	6.24
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	21.217	0.00	1.64
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	21.217	0.00	6.24
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	21.587	0.00	1.64
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	21.587	0.00	6.24
86.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.025	0.000	21.696	0.00	0.49
86.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.025	0.000	21.696	0.00	1.87
90.00	Safety Cable	Yes	3.50	0.000	0.38	0.11	0.00	0.025	0.000	21.943	0.00	1.15
90.00	Step bolts (ladder)	Yes	3.50	0.000	0.63	0.18	0.00	0.025	0.000	21.943	0.00	4.37
91.75	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.025	0.000	22.064	0.00	0.57
91.75	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.025	0.000	22.064	0.00	2.18
95.00	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.025	0.000	22.284	0.00	1.06
95.00	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.025	0.000	22.284	0.00	4.06
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	22.613	0.00	1.64

Linear Appurtenance Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 16

Load Case: 1.2D + 1.6W 97 mph Wind	Iterations 26
Dead Load Factor 1.20	
Wind Load Factor 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	22.613	0.00	6.24
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	22.931	0.00	1.64
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	22.931	0.00	6.24
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	23.238	0.00	1.64
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	23.238	0.00	6.24
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	23.535	0.00	1.64
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	23.535	0.00	6.24
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	23.823	0.00	1.64
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	23.823	0.00	6.24
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	24.102	0.00	1.64
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	24.102	0.00	6.24
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	24.374	0.00	1.64
130.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	24.374	0.00	6.24
131.25	Safety Cable	Yes	1.25	0.000	0.38	0.04	0.00	0.031	0.000	24.440	0.00	0.41
131.25	Step bolts (ladder)	Yes	1.25	0.000	0.63	0.07	0.00	0.031	0.000	24.440	0.00	1.56
135.00	Safety Cable	Yes	3.75	0.000	0.38	0.12	0.00	0.031	0.000	24.638	0.00	1.23
135.00	Step bolts (ladder)	Yes	3.75	0.000	0.63	0.20	0.00	0.031	0.000	24.638	0.00	4.68
135.50	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.032	0.000	24.664	0.00	0.16
135.50	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.032	0.000	24.664	0.00	0.62
137.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.031	0.000	24.742	0.00	0.49
137.00	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.031	0.000	24.742	0.00	1.87
140.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.032	0.000	24.895	0.00	0.98
140.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.032	0.000	24.895	0.00	3.74
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.033	0.000	25.146	0.00	1.64
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.033	0.000	25.146	0.00	6.24
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.033	0.000	25.245	0.00	0.66
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.033	0.000	25.245	0.00	2.50
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.034	0.000	25.391	0.00	0.98
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.034	0.000	25.391	0.00	3.74
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.035	0.000	25.630	0.00	1.64
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.035	0.000	25.630	0.00	6.24
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.036	0.000	25.724	0.00	0.66
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.036	0.000	25.724	0.00	2.50
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.036	0.000	25.863	0.00	0.98
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.036	0.000	25.863	0.00	3.74
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	26.092	0.00	1.64
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	26.092	0.00	6.24
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	26.182	0.00	0.66
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	26.182	0.00	2.50
170.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.039	0.000	26.315	0.00	0.98
170.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.039	0.000	26.315	0.00	3.74
175.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.040	0.000	26.534	0.00	1.64
175.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.040	0.000	26.534	0.00	6.24
176.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.041	0.000	26.577	0.00	0.33
176.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.041	0.000	26.577	0.00	1.25
Totals:											0.0	277.3

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

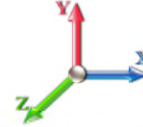


Page: 17

Load Case: 1.2D + 1.6W 97 mph Wind

Iterations 26

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	-68.15	-35.22	-0.12	-4861.4	0.00	4861.42	6372.54	3186.27	14661.2	7341.49	0.00	0.000	0.000	0.673
5.00	-65.99	-35.00	-0.12	-4685.3	0.00	4685.34	6292.68	3146.34	14220.7	7120.95	0.10	-0.192	0.000	0.669
10.00	-63.86	-34.78	-0.12	-4510.3	0.00	4510.34	6211.66	3105.83	13784.2	6902.39	0.41	-0.388	0.000	0.664
15.00	-61.76	-34.56	-0.12	-4336.4	0.00	4336.42	6129.50	3064.75	13351.9	6685.89	0.92	-0.586	0.000	0.659
20.00	-59.70	-34.34	-0.12	-4163.6	0.00	4163.60	6046.18	3023.09	12923.8	6471.51	1.64	-0.788	0.000	0.653
25.00	-57.66	-34.11	-0.12	-3991.9	0.00	3991.90	5961.72	2980.86	12500.0	6259.33	2.58	-0.992	0.000	0.648
30.00	-55.66	-33.89	-0.12	-3821.3	0.00	3821.33	5876.11	2938.05	12080.8	6049.42	3.73	-1.199	0.000	0.641
35.00	-53.69	-33.63	-0.12	-3651.9	0.00	3651.91	5789.35	2894.67	11666.3	5841.84	5.10	-1.410	0.000	0.635
40.00	-51.79	-33.32	-0.12	-3483.7	0.00	3483.74	5679.25	2839.63	11212.8	5614.75	6.69	-1.623	0.000	0.630
42.75	-50.74	-33.16	-0.12	-3392.1	0.00	3392.10	5615.38	2807.69	10960.7	5488.51	7.66	-1.743	0.000	0.627
45.00	-49.25	-33.05	-0.12	-3317.4	0.00	3317.49	5563.11	2781.56	10756.6	5386.29	8.50	-1.842	0.000	0.625
49.00	-46.71	-32.71	-0.12	-3185.3	0.00	3185.31	4756.80	2378.40	9239.06	4626.40	10.12	-2.018	0.000	0.699
50.00	-46.32	-32.73	-0.12	-3152.6	0.00	3152.60	4742.51	2371.25	9172.60	4593.12	10.55	-2.063	0.000	0.696
55.00	-44.63	-32.42	-0.12	-2988.9	0.00	2988.98	4670.33	2335.16	8842.49	4427.82	12.83	-2.301	0.000	0.685
60.00	-42.98	-32.10	-0.12	-2826.8	0.00	2826.89	4597.00	2298.50	8516.13	4264.39	15.37	-2.540	0.000	0.672
65.00	-41.35	-31.77	-0.12	-2666.4	0.00	2666.40	4522.52	2261.26	8193.68	4102.93	18.16	-2.782	0.000	0.659
70.00	-39.76	-31.43	-0.12	-2507.5	0.00	2507.57	4446.89	2223.45	7875.26	3943.48	21.20	-3.025	0.000	0.645
75.00	-38.20	-31.08	-0.12	-2350.4	0.00	2350.44	4354.69	2177.34	7534.33	3772.77	24.50	-3.270	0.000	0.632
80.00	-36.67	-30.72	-0.12	-2195.0	-0.01	2195.07	4253.06	2126.53	7185.02	3597.85	28.06	-3.515	0.000	0.619
85.00	-35.21	-30.30	-0.12	-2041.5	-0.01	2041.50	4151.43	2075.72	6843.99	3427.08	31.87	-3.760	0.000	0.604
86.50	-34.74	-30.22	-0.12	-1996.0	-0.01	1996.06	4120.95	2060.47	6743.30	3376.66	33.06	-3.835	0.000	0.600
90.00	-33.05	-29.88	-0.12	-1890.3	-0.01	1890.30	4049.81	2024.90	6511.26	3260.47	35.93	-4.008	0.000	0.588
91.75	-32.19	-29.74	-0.12	-1838.0	-0.01	1838.02	3441.70	1720.85	5608.94	2808.64	37.42	-4.096	0.000	0.664
95.00	-31.32	-29.52	-0.12	-1741.3	-0.01	1741.37	3401.05	1700.53	5452.51	2730.31	40.26	-4.256	0.000	0.647
100.00	-30.04	-29.14	-0.12	-1593.7	-0.01	1593.77	3337.56	1668.78	5214.58	2611.16	44.85	-4.520	0.000	0.620
105.00	-28.79	-28.76	-0.12	-1448.0	-0.01	1448.07	3272.92	1636.46	4980.08	2493.74	49.72	-4.780	0.000	0.590
110.00	-27.57	-28.37	-0.12	-1304.2	-0.01	1304.28	3194.68	1597.34	4730.71	2368.87	54.86	-5.035	0.000	0.560
115.00	-26.38	-27.97	-0.12	-1162.4	-0.01	1162.45	3107.57	1553.79	4474.96	2240.81	60.26	-5.282	0.000	0.528
120.00	-25.23	-27.57	-0.12	-1022.6	-0.01	1022.60	3020.47	1510.23	4226.32	2116.30	65.91	-5.520	0.000	0.492
125.00	-24.10	-27.16	-0.12	-884.76	-0.01	884.76	2933.36	1466.68	3984.78	1995.35	71.81	-5.747	0.000	0.452
130.00	-23.05	-26.72	-0.12	-748.95	-0.01	748.95	2846.25	1423.13	3750.35	1877.96	77.93	-5.958	0.000	0.407
131.25	-22.76	-26.64	-0.12	-715.55	-0.01	715.55	2824.47	1412.24	3692.86	1849.17	79.50	-6.010	0.000	0.395
135.00	-21.61	-26.26	-0.12	-615.66	-0.01	615.66	2759.14	1379.57	3523.03	1764.13	84.27	-6.155	0.000	0.357
135.50	-21.44	-26.22	-0.12	-602.54	-0.01	602.54	1734.08	867.04	2260.78	1132.07	84.92	-6.174	0.000	0.546
137.00	-18.13	-21.73	0.00	-563.21	0.00	563.21	1723.43	861.72	2225.81	1114.56	86.86	-6.229	0.000	0.516
140.00	-17.69	-21.52	0.00	-498.02	0.00	498.02	1701.83	850.91	2156.25	1079.73	90.82	-6.375	0.000	0.472
145.00	-17.02	-21.12	0.00	-390.43	0.00	390.43	1664.90	832.45	2041.54	1022.29	97.60	-6.590	0.000	0.393
147.00	-14.28	-17.71	0.00	-348.20	0.00	348.20	1649.80	824.90	1996.11	999.54	100.37	-6.668	0.000	0.357
150.00	-13.89	-17.48	0.00	-295.07	0.00	295.07	1626.81	813.41	1928.48	965.67	104.59	-6.775	0.000	0.315
155.00	-13.29	-17.08	0.00	-207.65	0.00	207.65	1587.58	793.79	1817.22	909.96	111.75	-6.924	0.000	0.237
157.00	-9.31	-11.94	0.00	-173.50	0.00	173.50	1571.57	785.79	1773.24	887.94	114.65	-6.973	0.000	0.202
160.00	-8.97	-11.71	0.00	-137.67	0.00	137.67	1547.20	773.60	1707.88	855.21	119.05	-7.037	0.000	0.167
165.00	-8.43	-11.31	0.00	-79.13	0.00	79.13	1505.67	752.84	1600.62	801.50	126.44	-7.116	0.000	0.105
167.00	-4.79	-5.93	0.00	-56.51	0.00	56.51	1488.74	744.37	1558.33	780.32	129.42	-7.138	0.000	0.076
170.00	-4.52	-5.71	0.00	-38.71	0.00	38.71	1462.99	731.50	1495.57	748.90	133.90	-7.163	0.000	0.055
175.00	-4.08	-5.33	0.00	-10.17	0.00	10.17	1411.70	705.85	1385.55	693.80	141.40	-7.185	0.000	0.018
176.00	0.00	-4.78	0.00	-4.84	0.00	4.84	1400.09	700.04	1362.73	682.38	142.90	-7.187	0.000	0.007

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 18



Wind Loading - Shaft

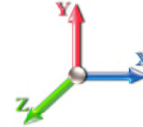
Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.6W 97 mph Wind

Iterations 26

Dead Load Factor 0.90
Wind Load Factor 1.60



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	0.70	16.018	17.62	388.35	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	16.018	17.62	381.58	0.650	0.000	5.00	23.718	15.42	434.6	0.0	1350.0
10.00		1.00	0.70	16.018	17.62	374.82	0.650	0.000	5.00	23.301	15.15	427.0	0.0	1326.1
15.00		1.00	0.70	16.018	17.62	368.05	0.650	0.000	5.00	22.884	14.87	419.3	0.0	1302.2
20.00		1.00	0.70	16.018	17.62	361.29	0.650	0.000	5.00	22.467	14.60	411.7	0.0	1278.2
25.00		1.00	0.70	16.018	17.62	354.52	0.650	0.000	5.00	22.050	14.33	404.1	0.0	1254.3
30.00		1.00	0.70	16.031	17.63	347.90	0.650	0.000	5.00	21.634	14.06	396.8	0.0	1230.4
35.00		1.00	0.73	16.753	18.43	348.73	0.650	0.000	5.00	21.217	13.79	406.6	0.0	1206.4
40.00		1.00	0.76	17.405	19.15	348.40	0.650	0.000	5.00	20.800	13.52	414.2	0.0	1182.5
42.75	Bot - Section 2	1.00	0.78	17.739	19.51	347.81	0.650	0.000	2.75	11.262	7.32	228.5	0.0	640.2
45.00		1.00	0.79	18.000	19.80	347.14	0.650	0.000	2.25	9.288	6.04	191.3	0.0	980.9
49.00	Top - Section 1	1.00	0.81	18.444	20.29	345.58	0.650	0.000	4.00	16.303	10.60	344.0	0.0	1721.5
50.00		1.00	0.81	18.551	20.41	351.59	0.650	0.000	1.00	4.034	2.62	85.6	0.0	200.9
55.00		1.00	0.83	19.063	20.97	349.03	0.650	0.000	5.00	19.920	12.95	434.4	0.0	991.8
60.00		1.00	0.85	19.543	21.50	345.92	0.650	0.000	5.00	19.503	12.68	436.0	0.0	970.8
65.00		1.00	0.87	19.995	21.99	342.34	0.650	0.000	5.00	19.086	12.41	436.6	0.0	949.9
70.00		1.00	0.89	20.422	22.46	338.35	0.650	0.000	5.00	18.670	12.14	436.2	0.0	928.9
75.00		1.00	0.91	20.829	22.91	333.98	0.650	0.000	5.00	18.253	11.86	434.9	0.0	908.0
80.00		1.00	0.93	21.217	23.34	329.29	0.650	0.000	5.00	17.836	11.59	432.9	0.0	887.0
85.00		1.00	0.94	21.587	23.75	324.30	0.650	0.000	5.00	17.419	11.32	430.2	0.0	866.1
86.50	Bot - Section 3	1.00	0.95	21.696	23.87	322.75	0.650	0.000	1.50	5.145	3.34	127.7	0.0	255.7
90.00		1.00	0.96	21.943	24.14	319.04	0.650	0.000	3.50	12.080	7.85	303.2	0.0	1105.0
91.75	Top - Section 2	1.00	0.96	22.064	24.27	317.14	0.650	0.000	1.75	5.963	3.88	150.5	0.0	545.3
95.00		1.00	0.97	22.284	24.51	319.61	0.650	0.000	3.25	10.940	7.11	278.9	0.0	466.8
100.00		1.00	0.99	22.613	24.87	313.93	0.650	0.000	5.00	16.486	10.72	426.5	0.0	703.3
105.00		1.00	1.00	22.931	25.22	308.03	0.650	0.000	5.00	16.069	10.45	421.5	0.0	685.4
110.00		1.00	1.02	23.238	25.56	301.93	0.650	0.000	5.00	15.653	10.17	416.1	0.0	667.4
115.00		1.00	1.03	23.535	25.89	295.66	0.650	0.000	5.00	15.236	9.90	410.2	0.0	649.5
120.00		1.00	1.04	23.823	26.20	289.21	0.650	0.000	5.00	14.819	9.63	403.9	0.0	631.5
125.00		1.00	1.05	24.102	26.51	282.60	0.650	0.000	5.00	14.402	9.36	397.1	0.0	613.6
130.00		1.00	1.07	24.374	26.81	275.85	0.650	0.000	5.00	13.986	9.09	390.0	0.0	595.6
131.25	Bot - Section 4	1.00	1.07	24.440	26.88	274.13	0.650	0.000	1.25	3.431	2.23	95.9	0.0	146.1
135.00		1.00	1.08	24.638	27.10	268.95	0.650	0.000	3.75	10.296	6.69	290.2	0.0	724.9
135.50	Top - Section 3	1.00	1.08	24.664	27.13	268.25	0.650	0.000	0.50	1.355	0.88	38.2	0.0	95.4
137.00	Appurtenance(s)	1.00	1.08	24.742	27.22	270.42	0.650	0.000	1.50	4.040	2.63	114.4	0.0	115.1
140.00		1.00	1.09	24.895	27.38	266.20	0.650	0.000	3.00	7.968	5.18	226.9	0.0	227.0
145.00		1.00	1.10	25.146	27.66	259.06	0.650	0.000	5.00	12.947	8.42	372.4	0.0	368.8
147.00	Appurtenance(s)	1.00	1.10	25.245	27.77	256.17	0.650	0.000	2.00	5.062	3.29	146.2	0.0	144.2
150.00		1.00	1.11	25.391	27.93	251.80	0.650	0.000	3.00	7.468	4.85	216.9	0.0	212.6
155.00		1.00	1.12	25.630	28.19	244.42	0.650	0.000	5.00	12.113	7.87	355.2	0.0	344.8
157.00	Appurtenance(s)	1.00	1.12	25.724	28.30	241.44	0.650	0.000	2.00	4.729	3.07	139.2	0.0	134.6
160.00		1.00	1.13	25.863	28.45	236.94	0.650	0.000	3.00	6.968	4.53	206.2	0.0	198.3
165.00		1.00	1.14	26.092	28.70	229.35	0.650	0.000	5.00	11.280	7.33	336.7	0.0	320.9
167.00	Appurtenance(s)	1.00	1.14	26.182	28.80	226.28	0.650	0.000	2.00	4.395	2.86	131.6	0.0	125.0
170.00		1.00	1.15	26.315	28.95	221.66	0.650	0.000	3.00	6.468	4.20	194.7	0.0	183.9
175.00		1.00	1.16	26.534	29.19	213.87	0.650	0.000	5.00	10.446	6.79	317.1	0.0	296.9
176.00	Appurtenance(s)	1.00	1.16	26.577	29.24	212.30	0.650	0.000	1.00	2.039	1.33	62.0	0.0	58.0

Wind Loading - Shaft

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 20



Totals:	176.00	14,174.3	30,791.6
----------------	---------------	-----------------	-----------------

Discrete Appurtenance Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

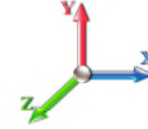


Page: 21

Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 26

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	176.00	KRY 112 489/2	3	26.620	29.282	0.50	0.75	0.98	41.58	0.000	1.000	45.91	0.00	45.91
2	176.00	MHA FE15501P77775	6	26.620	29.282	0.49	0.75	2.72	59.40	0.000	1.000	127.45	0.00	127.45
3	176.00	Lightning Rod	1	26.727	29.400	1.00	1.00	1.05	31.50	0.000	3.500	49.39	0.00	172.87
4	176.00	RMQP-496-HK	1	26.620	29.282	1.00	1.00	46.00	2204.10	0.000	1.000	2155.19	0.00	2155.19
5	176.00	4460 B25 + B66	3	26.620	29.282	0.50	0.75	2.47	194.40	0.000	1.000	115.83	0.00	115.83
6	176.00	KRY 112 89/4	3	26.620	29.282	0.50	0.75	0.98	41.58	0.000	1.000	45.91	0.00	45.91
7	176.00	AIR 6419 B41	3	26.620	29.282	0.52	0.75	10.28	359.64	0.000	1.000	481.86	0.00	481.86
8	176.00	APXVAALL24_43-U-NA20	3	26.620	29.282	0.55	0.75	33.24	331.56	0.000	1.000	1557.56	0.00	1557.56
9	176.00	4449 B71 + B85	3	26.620	29.282	0.50	0.75	2.97	197.64	0.000	1.000	139.14	0.00	139.14
10	167.00	Commscope	3	26.182	28.800	0.64	0.75	15.66	136.89	0.000	0.000	721.77	0.00	0.00
11	167.00	Commscope	3	26.182	28.800	0.62	0.75	15.09	117.99	0.000	0.000	695.32	0.00	0.00
12	167.00	APL868013	1	26.182	28.800	1.00	1.00	2.86	5.67	0.000	0.000	131.79	0.00	0.00
13	167.00	Samsung MT6407-77A	3	26.182	28.800	0.52	0.75	7.39	214.38	0.000	0.000	340.38	0.00	0.00
14	167.00	LPA-80063-4CF-EDIN-5	2	26.182	28.800	0.84	0.90	10.30	36.00	0.000	0.000	474.40	0.00	0.00
15	167.00	Low Profile	1	26.182	28.800	1.00	1.00	22.00	1350.00	0.000	0.000	1013.76	0.00	0.00
16	167.00	KICKER KIT	1	26.182	28.800	1.00	1.00	5.33	131.40	0.000	0.000	245.61	0.00	0.00
17	167.00	B2/B66A RRH ORAN	3	26.182	28.800	0.50	0.75	2.82	227.88	0.000	0.000	129.90	0.00	0.00
18	167.00	B5/B13 RRH ORAN	3	26.182	28.800	0.50	0.75	2.82	189.81	0.000	0.000	129.90	0.00	0.00
19	167.00	CBRS RRH - RT4401-48A	3	26.182	28.800	0.50	0.75	1.49	50.22	0.000	0.000	68.77	0.00	0.00
20	167.00	Raycap	2	26.182	28.800	0.81	0.90	6.12	57.60	0.000	0.000	282.17	0.00	0.00
21	167.00	MONOPOLE COLLAR	1	26.182	28.800	1.00	1.00	2.50	135.54	0.000	0.000	115.20	0.00	0.00
22	167.00	SUPPORT RAIL CORNER	1	26.182	28.800	1.00	1.00	8.75	387.00	0.000	0.000	403.20	0.00	0.00
23	157.00	ALU TD-RRH8x20-25	3	25.724	28.296	0.54	0.80	6.51	189.00	0.000	0.000	294.84	0.00	0.00
24	157.00	ALU 800 Mhz	6	25.724	28.296	0.54	0.80	8.01	286.20	0.000	0.000	362.55	0.00	0.00
25	157.00	ALU 1900 Mhz	3	25.724	28.296	0.54	0.80	4.45	162.00	0.000	0.000	201.66	0.00	0.00
26	157.00	Sitepro PRK-1245L	1	25.724	28.296	1.00	1.00	9.50	418.42	0.000	0.000	430.10	0.00	0.00
27	157.00	RFS APXVTM14-C-I20	3	25.724	28.296	0.62	0.80	11.72	151.74	0.000	0.000	530.45	0.00	0.00
28	157.00	Commscope	3	25.724	28.296	0.60	0.80	22.09	208.98	0.000	0.000	999.92	0.00	0.00
29	157.00	Low Profile Platform	1	25.724	28.296	1.00	1.00	22.00	1350.00	0.000	0.000	996.03	0.00	0.00
30	157.00	Sitepro HRK14-U	1	25.724	28.296	1.00	1.00	8.13	272.12	0.000	0.000	368.08	0.00	0.00
31	157.00	Sitepro PRK-SFS-H-L	1	25.724	28.296	1.00	1.00	6.70	207.00	0.000	0.000	303.34	0.00	0.00
32	147.00	RDIDC-9181-PF-48	1	25.245	27.769	1.00	1.00	2.01	19.71	0.000	0.000	89.31	0.00	0.00
33	147.00	TA08025-B604	3	25.245	27.769	0.50	0.75	2.95	172.53	0.000	0.000	131.28	0.00	0.00
34	147.00	TA08025-B605	3	25.245	27.769	0.50	0.75	2.95	202.50	0.000	0.000	131.28	0.00	0.00
35	147.00	MC-PK8-DSH	1	25.245	27.769	1.00	1.00	37.59	1554.30	0.000	0.000	1670.15	0.00	0.00
36	147.00	MX08FRO665-21	3	25.245	27.769	0.55	0.75	20.80	174.15	0.000	0.000	923.97	0.00	0.00
37	137.00	B2 B66A 8843	3	24.742	27.216	0.50	0.75	2.47	189.00	0.000	0.000	107.66	0.00	0.00
38	137.00	4449 B5/B12	3	24.742	27.216	0.50	0.75	2.97	191.70	0.000	0.000	129.32	0.00	0.00
39	137.00	DC6-48-60-18-8F	1	24.742	27.216	1.00	1.00	1.47	29.52	0.000	0.000	64.01	0.00	0.00
40	137.00	7770.00	3	24.742	27.216	0.55	0.75	9.03	94.50	0.000	0.000	393.38	0.00	0.00
41	137.00	DMP65R-BU6DA	3	24.742	27.216	0.54	0.75	20.59	214.38	0.000	0.000	896.61	0.00	0.00
42	137.00	HRK14	1	24.742	27.216	1.00	1.00	8.13	272.12	0.000	0.000	354.02	0.00	0.00
43	137.00	LP Platform-Round	1	24.742	27.216	1.00	1.00	22.00	1350.00	0.000	0.000	958.00	0.00	0.00
44	137.00	LGP21401	6	24.742	27.216	0.50	0.75	3.89	102.60	0.000	0.000	169.36	0.00	0.00
45	137.00	LGP21903	6	24.742	27.216	0.50	0.75	0.81	27.00	4.341	0.000	35.45	96.16	0.00
46	137.00	HPA-65R-BUU-H6	3	24.742	27.216	0.64	0.75	18.47	137.70	0.000	0.000	804.49	0.00	0.00
47	137.00	7020	12	24.742	27.216	0.50	0.75	2.41	23.76	0.000	0.000	105.03	0.00	0.00

Discrete Appurtenance Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 22



48	137.00	Smart Bias T 1001940	3	24.742	27.216	0.50	0.75	0.14	5.40	7.041	0.000	5.91	26.00	0.00
												Totals:	14,508.12	20,926.58

Total Applied Force Summary

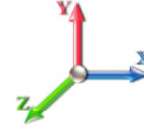
Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 23



Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 26

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		434.61	1533.98	0.00	0.00
10.00		426.97	1510.04	0.00	0.00
15.00		419.34	1486.10	0.00	0.00
20.00		411.70	1462.17	0.00	0.00
25.00		404.06	1438.23	0.00	0.00
30.00		396.76	1414.29	0.00	0.00
35.00		406.64	1390.35	0.00	0.00
40.00		414.15	1366.41	0.00	0.00
42.75		228.55	741.32	0.00	0.00
45.00		191.25	1063.71	0.00	0.00
49.00		343.98	1868.60	0.00	0.00
50.00		85.61	237.65	0.00	0.00
55.00		434.41	1175.70	0.00	0.00
60.00		436.03	1154.76	0.00	0.00
65.00		436.58	1133.81	0.00	0.00
70.00		436.18	1112.87	0.00	0.00
75.00		434.94	1091.92	0.00	0.00
80.00		432.91	1070.97	0.00	0.00
85.00		430.19	1050.03	0.00	0.00
86.50		127.68	310.92	0.00	0.00
90.00		303.24	1233.73	0.00	0.00
91.75		150.52	609.72	0.00	0.00
95.00		278.89	586.34	0.00	0.00
100.00		426.49	887.25	0.00	0.00
105.00		421.55	869.30	0.00	0.00
110.00		416.11	851.34	0.00	0.00
115.00		410.21	833.39	0.00	0.00
120.00		403.87	815.44	0.00	0.00
125.00		397.11	797.48	0.00	0.00
130.00		389.96	779.53	0.00	0.00
131.25		95.94	192.08	0.00	0.00
135.00		290.20	862.90	0.00	0.00
135.50		38.24	113.78	0.00	0.00
137.00	(45) attachments	4137.59	2807.98	122.16	0.00
140.00		226.93	301.07	0.00	0.00
145.00		372.44	492.20	0.00	0.00
147.00	(11) attachments	3092.18	2316.72	0.00	0.00
150.00		216.92	284.00	0.00	0.00
155.00		355.16	463.77	0.00	0.00
157.00	(22) attachments	4626.12	3427.62	0.00	0.00
160.00		206.16	262.51	0.00	0.00
165.00		336.68	427.95	0.00	0.00
167.00	(27) attachments	4883.80	3208.21	0.00	0.00
170.00		194.71	224.39	0.00	0.00
175.00		317.09	364.41	0.00	0.00
176.00	(26) attachments	4780.24	3532.85	0.00	4841.72

Total Applied Force Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 24

Totals:	35,100.90	51,159.77	122.16	4,841.72
----------------	------------------	------------------	---------------	-----------------

Linear Appurtenance Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 25

Load Case: 0.9D + 1.6W 97 mph Wind	Iterations 26
Dead Load Factor 0.90	
Wind Load Factor 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	16.018	0.00	1.23
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	16.018	0.00	4.68
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	16.018	0.00	1.23
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	16.018	0.00	4.68
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	16.018	0.00	1.23
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	16.018	0.00	4.68
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	16.018	0.00	1.23
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	16.018	0.00	4.68
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	16.018	0.00	1.23
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	16.018	0.00	4.68
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	16.031	0.00	1.23
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	16.031	0.00	4.68
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	16.753	0.00	1.23
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	16.753	0.00	4.68
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	17.405	0.00	1.23
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	17.405	0.00	4.68
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.021	0.000	17.739	0.00	0.68
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.021	0.000	17.739	0.00	2.57
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.021	0.000	18.000	0.00	0.55
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.63	0.12	0.00	0.021	0.000	18.000	0.00	2.11
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.021	0.000	18.444	0.00	0.98
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.021	0.000	18.444	0.00	3.74
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.021	0.000	18.551	0.00	0.25
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.021	0.000	18.551	0.00	0.94
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	19.063	0.00	1.23
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	19.063	0.00	4.68
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	19.543	0.00	1.23
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	19.543	0.00	4.68
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	19.995	0.00	1.23
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	19.995	0.00	4.68
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	20.422	0.00	1.23
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	20.422	0.00	4.68
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	20.829	0.00	1.23
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	20.829	0.00	4.68
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	21.217	0.00	1.23
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	21.217	0.00	4.68
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	21.587	0.00	1.23
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	21.587	0.00	4.68
86.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.025	0.000	21.696	0.00	0.37
86.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.025	0.000	21.696	0.00	1.40
90.00	Safety Cable	Yes	3.50	0.000	0.38	0.11	0.00	0.025	0.000	21.943	0.00	0.86
90.00	Step bolts (ladder)	Yes	3.50	0.000	0.63	0.18	0.00	0.025	0.000	21.943	0.00	3.28
91.75	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.025	0.000	22.064	0.00	0.43
91.75	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.025	0.000	22.064	0.00	1.64
95.00	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.025	0.000	22.284	0.00	0.80
95.00	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.025	0.000	22.284	0.00	3.04
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	22.613	0.00	1.23

Linear Appurtenance Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 26

Load Case: 0.9D + 1.6W 97 mph Wind	Iterations 26
Dead Load Factor 0.90	
Wind Load Factor 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	22.613	0.00	4.68
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	22.931	0.00	1.23
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	22.931	0.00	4.68
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	23.238	0.00	1.23
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	23.238	0.00	4.68
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	23.535	0.00	1.23
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	23.535	0.00	4.68
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	23.823	0.00	1.23
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	23.823	0.00	4.68
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	24.102	0.00	1.23
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	24.102	0.00	4.68
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	24.374	0.00	1.23
130.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	24.374	0.00	4.68
131.25	Safety Cable	Yes	1.25	0.000	0.38	0.04	0.00	0.031	0.000	24.440	0.00	0.31
131.25	Step bolts (ladder)	Yes	1.25	0.000	0.63	0.07	0.00	0.031	0.000	24.440	0.00	1.17
135.00	Safety Cable	Yes	3.75	0.000	0.38	0.12	0.00	0.031	0.000	24.638	0.00	0.92
135.00	Step bolts (ladder)	Yes	3.75	0.000	0.63	0.20	0.00	0.031	0.000	24.638	0.00	3.51
135.50	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.032	0.000	24.664	0.00	0.12
135.50	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.032	0.000	24.664	0.00	0.47
137.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.031	0.000	24.742	0.00	0.37
137.00	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.031	0.000	24.742	0.00	1.40
140.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.032	0.000	24.895	0.00	0.74
140.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.032	0.000	24.895	0.00	2.81
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.033	0.000	25.146	0.00	1.23
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.033	0.000	25.146	0.00	4.68
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.033	0.000	25.245	0.00	0.49
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.033	0.000	25.245	0.00	1.87
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.034	0.000	25.391	0.00	0.74
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.034	0.000	25.391	0.00	2.81
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.035	0.000	25.630	0.00	1.23
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.035	0.000	25.630	0.00	4.68
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.036	0.000	25.724	0.00	0.49
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.036	0.000	25.724	0.00	1.87
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.036	0.000	25.863	0.00	0.74
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.036	0.000	25.863	0.00	2.81
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	26.092	0.00	1.23
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	26.092	0.00	4.68
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	26.182	0.00	0.49
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	26.182	0.00	1.87
170.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.039	0.000	26.315	0.00	0.74
170.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.039	0.000	26.315	0.00	2.81
175.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.040	0.000	26.534	0.00	1.23
175.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.040	0.000	26.534	0.00	4.68
176.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.041	0.000	26.577	0.00	0.25
176.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.041	0.000	26.577	0.00	0.94
Totals:											0.0	208.0

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 27

Load Case: 0.9D + 1.6W 97 mph Wind	Iterations 26
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	-51.10	-35.19	-0.12	-4776.0	0.00	4776.07	6372.54	3186.27	14661.2	7341.49	0.00	0.000	0.000	0.659
5.00	-49.45	-34.91	-0.12	-4600.1	0.00	4600.14	6292.68	3146.34	14220.7	7120.95	0.10	-0.189	0.000	0.654
10.00	-47.83	-34.64	-0.12	-4425.5	0.00	4425.57	6211.66	3105.83	13784.2	6902.39	0.40	-0.381	0.000	0.649
15.00	-46.23	-34.37	-0.12	-4252.3	0.00	4252.38	6129.50	3064.75	13351.9	6685.89	0.90	-0.575	0.000	0.644
20.00	-44.65	-34.09	-0.12	-4080.5	0.00	4080.54	6046.18	3023.09	12923.8	6471.51	1.61	-0.773	0.000	0.638
25.00	-43.10	-33.82	-0.12	-3910.0	0.00	3910.08	5961.72	2980.86	12500.0	6259.33	2.53	-0.973	0.000	0.632
30.00	-41.58	-33.54	-0.12	-3740.9	0.00	3740.98	5876.11	2938.05	12080.8	6049.42	3.66	-1.176	0.000	0.626
35.00	-40.07	-33.25	-0.12	-3573.2	0.00	3573.26	5789.35	2894.67	11666.3	5841.84	5.00	-1.382	0.000	0.619
40.00	-38.63	-32.91	-0.12	-3407.0	0.00	3407.00	5679.25	2839.63	11212.8	5614.75	6.56	-1.591	0.000	0.614
42.75	-37.83	-32.73	-0.12	-3316.5	0.00	3316.50	5615.38	2807.69	10960.7	5488.51	7.51	-1.708	0.000	0.611
45.00	-36.70	-32.60	-0.12	-3242.8	0.00	3242.85	5563.11	2781.56	10756.6	5386.29	8.34	-1.805	0.000	0.609
49.00	-34.78	-32.26	-0.12	-3112.4	0.00	3112.46	4756.80	2378.40	9239.06	4626.40	9.92	-1.977	0.000	0.680
50.00	-34.47	-32.25	-0.12	-3080.2	0.00	3080.21	4742.51	2371.25	9172.60	4593.12	10.34	-2.021	0.000	0.678
55.00	-33.18	-31.90	-0.12	-2918.9	0.00	2918.98	4670.33	2335.16	8842.49	4427.82	12.58	-2.253	0.000	0.667
60.00	-31.91	-31.55	-0.12	-2759.4	0.00	2759.47	4597.00	2298.50	8516.13	4264.39	15.07	-2.487	0.000	0.654
65.00	-30.67	-31.19	-0.12	-2601.7	0.00	2601.72	4522.52	2261.26	8193.68	4102.93	17.80	-2.723	0.000	0.641
70.00	-29.45	-30.82	-0.12	-2445.7	0.00	2445.77	4446.89	2223.45	7875.26	3943.48	20.77	-2.960	0.000	0.627
75.00	-28.26	-30.45	-0.12	-2291.6	0.00	2291.66	4354.69	2177.34	7534.33	3772.77	24.00	-3.198	0.000	0.614
80.00	-27.09	-30.07	-0.12	-2139.4	0.00	2139.43	4253.06	2126.53	7185.02	3597.85	27.48	-3.437	0.000	0.601
85.00	-25.99	-29.64	-0.12	-1989.1	0.00	1989.11	4151.43	2075.72	6843.99	3427.08	31.20	-3.676	0.000	0.587
86.50	-25.63	-29.55	-0.12	-1944.6	0.00	1944.64	4120.95	2060.47	6743.30	3376.66	32.37	-3.750	0.000	0.582
90.00	-24.35	-29.22	-0.12	-1841.2	0.00	1841.23	4049.81	2024.90	6511.26	3260.47	35.18	-3.918	0.000	0.571
91.75	-23.69	-29.08	-0.12	-1790.1	-0.01	1790.10	3441.70	1720.85	5608.94	2808.64	36.63	-4.003	0.000	0.645
95.00	-23.02	-28.84	-0.12	-1695.6	-0.01	1695.60	3401.05	1700.53	5452.51	2730.31	39.41	-4.159	0.000	0.628
100.00	-22.04	-28.45	-0.12	-1551.4	-0.01	1551.41	3337.56	1668.78	5214.58	2611.16	43.90	-4.417	0.000	0.601
105.00	-21.09	-28.05	-0.12	-1409.1	-0.01	1409.18	3272.92	1636.46	4980.08	2493.74	48.66	-4.670	0.000	0.572
110.00	-20.16	-27.65	-0.12	-1268.9	-0.01	1268.94	3194.68	1597.34	4730.71	2368.87	53.67	-4.918	0.000	0.542
115.00	-19.25	-27.25	-0.12	-1130.7	-0.01	1130.70	3107.57	1553.79	4474.96	2240.81	58.95	-5.158	0.000	0.511
120.00	-18.37	-26.84	-0.12	-994.46	-0.01	994.46	3020.47	1510.23	4226.32	2116.30	64.47	-5.390	0.000	0.476
125.00	-17.52	-26.44	-0.12	-860.25	-0.01	860.25	2933.36	1466.68	3984.78	1995.35	70.22	-5.610	0.000	0.437
130.00	-16.72	-26.01	-0.12	-728.07	-0.01	728.07	2846.25	1423.13	3750.35	1877.96	76.20	-5.816	0.000	0.394
131.25	-16.50	-25.92	-0.12	-695.56	-0.01	695.56	2824.47	1412.24	3692.86	1849.17	77.73	-5.866	0.000	0.382
135.00	-15.63	-25.56	-0.12	-598.36	-0.01	598.36	2759.14	1379.57	3523.03	1764.13	82.39	-6.007	0.000	0.345
135.50	-15.51	-25.52	-0.12	-585.58	-0.01	585.58	1734.08	867.04	2260.78	1132.07	83.02	-6.025	0.000	0.527
137.00	-13.12	-21.14	0.00	-547.29	0.00	547.29	1723.43	861.72	2225.81	1114.56	84.92	-6.079	0.000	0.499
140.00	-12.78	-20.92	0.00	-483.89	0.00	483.89	1701.83	850.91	2156.25	1079.73	88.77	-6.220	0.000	0.456
145.00	-12.28	-20.52	0.00	-379.30	0.00	379.30	1664.90	832.45	2041.54	1022.29	95.39	-6.429	0.000	0.379
147.00	-10.30	-17.21	0.00	-338.25	0.00	338.25	1649.80	824.90	1996.11	999.54	98.10	-6.505	0.000	0.345
150.00	-10.00	-16.98	0.00	-286.64	0.00	286.64	1626.81	813.41	1928.48	965.67	102.21	-6.609	0.000	0.303
155.00	-9.56	-16.59	0.00	-201.74	0.00	201.74	1587.58	793.79	1817.22	909.96	109.20	-6.753	0.000	0.228
157.00	-6.69	-11.60	0.00	-168.56	0.00	168.56	1571.57	785.79	1773.24	887.94	112.03	-6.802	0.000	0.194
160.00	-6.44	-11.37	0.00	-133.77	0.00	133.77	1547.20	773.60	1707.88	855.21	116.32	-6.864	0.000	0.161
165.00	-6.04	-10.99	0.00	-76.92	0.00	76.92	1505.67	752.84	1600.62	801.50	123.53	-6.941	0.000	0.100
167.00	-3.45	-5.75	0.00	-54.95	0.00	54.95	1488.74	744.37	1558.33	780.32	126.44	-6.962	0.000	0.073
170.00	-3.25	-5.53	0.00	-37.69	0.00	37.69	1462.99	731.50	1495.57	748.90	130.81	-6.986	0.000	0.053
175.00	-2.92	-5.18	0.00	-10.02	0.00	10.02	1411.70	705.85	1385.55	693.80	138.12	-7.008	0.000	0.017
176.00	0.00	-4.78	0.00	-4.84	0.00	4.84	1400.09	700.04	1362.73	682.38	139.59	-7.009	0.000	0.007

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Wind Loading - Shaft

Structure: CT02216-S-SBA

Code: TIA-222-G

9/12/2022

Site Name: Glastonbury

Exposure: B

Height: 176.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 29



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

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 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	0.70	4.256	4.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.256	4.68	0.00	1.200	1.656	5.00	25.098	30.12	141.0	593.6	2393.6
10.00		1.00	0.70	4.256	4.68	0.00	1.200	1.775	5.00	24.780	29.74	139.2	626.5	2394.7
15.00		1.00	0.70	4.256	4.68	0.00	1.200	1.848	5.00	24.424	29.31	137.2	641.9	2378.1
20.00		1.00	0.70	4.256	4.68	0.00	1.200	1.902	5.00	24.053	28.86	135.1	649.5	2353.8
25.00		1.00	0.70	4.256	4.68	0.00	1.200	1.945	5.00	23.671	28.41	133.0	652.7	2325.1
30.00		1.00	0.70	4.260	4.69	0.00	1.200	1.981	5.00	23.285	27.94	130.9	652.9	2293.4
35.00		1.00	0.73	4.451	4.90	0.00	1.200	2.012	5.00	22.893	27.47	134.5	651.0	2259.5
40.00		1.00	0.76	4.625	5.09	0.00	1.200	2.039	5.00	22.499	27.00	137.3	647.5	2224.1
42.75	Bot - Section 2	1.00	0.78	4.713	5.18	0.00	1.200	2.052	2.75	12.203	14.64	75.9	354.8	1208.3
45.00		1.00	0.79	4.783	5.26	0.00	1.200	2.063	2.25	10.061	12.07	63.5	294.3	1602.2
49.00	Top - Section 1	1.00	0.81	4.901	5.39	0.00	1.200	2.081	4.00	17.690	21.23	114.4	519.7	2814.9
50.00		1.00	0.81	4.929	5.42	0.00	1.200	2.085	1.00	4.381	5.26	28.5	129.7	397.5
55.00		1.00	0.83	5.065	5.57	0.00	1.200	2.105	5.00	21.674	26.01	144.9	641.9	1964.2
60.00		1.00	0.85	5.193	5.71	0.00	1.200	2.123	5.00	21.273	25.53	145.8	634.6	1929.0
65.00		1.00	0.87	5.313	5.84	0.00	1.200	2.140	5.00	20.870	25.04	146.4	626.7	1893.2
70.00		1.00	0.89	5.426	5.97	0.00	1.200	2.156	5.00	20.466	24.56	146.6	618.3	1856.9
75.00		1.00	0.91	5.534	6.09	0.00	1.200	2.171	5.00	20.062	24.07	146.6	609.4	1820.0
80.00		1.00	0.93	5.637	6.20	0.00	1.200	2.185	5.00	19.657	23.59	146.3	600.0	1782.7
85.00		1.00	0.94	5.736	6.31	0.00	1.200	2.198	5.00	19.251	23.10	145.8	590.3	1745.1
86.50	Bot - Section 3	1.00	0.95	5.765	6.34	0.00	1.200	2.202	1.50	5.695	6.83	43.3	176.2	517.2
90.00		1.00	0.96	5.830	6.41	0.00	1.200	2.211	3.50	13.370	16.04	102.9	413.4	1886.7
91.75	Top - Section 2	1.00	0.96	5.862	6.45	0.00	1.200	2.215	1.75	6.610	7.93	51.1	205.4	932.6
95.00		1.00	0.97	5.921	6.51	0.00	1.200	2.223	3.25	12.144	14.57	94.9	377.1	999.5
100.00		1.00	0.99	6.008	6.61	0.00	1.200	2.234	5.00	18.348	22.02	145.5	569.5	1507.3
105.00		1.00	1.00	6.093	6.70	0.00	1.200	2.245	5.00	17.941	21.53	144.3	558.6	1472.4
110.00		1.00	1.02	6.174	6.79	0.00	1.200	2.256	5.00	17.533	21.04	142.9	547.4	1437.3
115.00		1.00	1.03	6.253	6.88	0.00	1.200	2.266	5.00	17.124	20.55	141.3	536.0	1402.0
120.00		1.00	1.04	6.330	6.96	0.00	1.200	2.276	5.00	16.715	20.06	139.7	524.4	1366.4
125.00		1.00	1.05	6.404	7.04	0.00	1.200	2.285	5.00	16.306	19.57	137.8	512.6	1330.7
130.00		1.00	1.07	6.476	7.12	0.00	1.200	2.294	5.00	15.897	19.08	135.9	500.6	1294.7
131.25	Bot - Section 4	1.00	1.07	6.494	7.14	0.00	1.200	2.296	1.25	3.910	4.69	33.5	124.4	319.2
135.00		1.00	1.08	6.546	7.20	0.00	1.200	2.303	3.75	11.735	14.08	101.4	371.7	1338.3
135.50	Top - Section 3	1.00	1.08	6.553	7.21	0.00	1.200	2.303	0.50	1.547	1.86	13.4	49.4	176.6
137.00	Appurtenance(s)	1.00	1.08	6.574	7.23	0.00	1.200	2.306	1.50	4.617	5.54	40.1	147.2	300.7
140.00		1.00	1.09	6.615	7.28	0.00	1.200	2.311	3.00	9.124	10.95	79.7	289.9	592.6
145.00		1.00	1.10	6.681	7.35	0.00	1.200	2.319	5.00	14.879	17.86	131.2	470.7	962.4
147.00	Appurtenance(s)	1.00	1.10	6.708	7.38	0.00	1.200	2.322	2.00	5.836	7.00	51.7	186.3	378.5
150.00		1.00	1.11	6.746	7.42	0.00	1.200	2.327	3.00	8.631	10.36	76.9	274.9	558.4
155.00		1.00	1.12	6.810	7.49	0.00	1.200	2.335	5.00	14.059	16.87	126.4	445.3	905.0
157.00	Appurtenance(s)	1.00	1.12	6.835	7.52	0.00	1.200	2.338	2.00	5.508	6.61	49.7	176.1	355.5
160.00		1.00	1.13	6.872	7.56	0.00	1.200	2.342	3.00	8.139	9.77	73.8	259.4	523.8
165.00		1.00	1.14	6.933	7.63	0.00	1.200	2.349	5.00	13.237	15.88	121.1	419.3	847.1
167.00	Appurtenance(s)	1.00	1.14	6.957	7.65	0.00	1.200	2.352	2.00	5.179	6.21	47.6	165.6	332.3
170.00		1.00	1.15	6.992	7.69	0.00	1.200	2.356	3.00	7.646	9.17	70.6	243.7	488.9
175.00		1.00	1.16	7.050	7.76	0.00	1.200	2.363	5.00	12.415	14.90	115.5	392.8	788.7
176.00	Appurtenance(s)	1.00	1.16	7.062	7.77	0.00	1.200	2.364	1.00	2.433	2.92	22.7	78.0	155.3

Wind Loading - Shaft

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 30



Totals:	176.00	4,827.9	60,806.5
----------------	---------------	----------------	-----------------

Discrete Appurtenance Forces

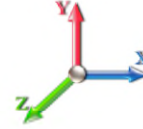
Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 31

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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 27

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	176.00	KRY 112 489/2	3	7.073	7.780	0.50	0.75	2.23	112.06	0.000	1.000	17.35	0.00	17.35
2	176.00	MHA FE15501P77775	6	7.073	7.780	0.49	0.75	5.52	202.82	0.000	1.000	42.92	0.00	42.92
3	176.00	Lightning Rod	1	7.102	7.812	1.00	1.00	4.27	75.56	0.000	3.500	33.32	0.00	116.63
4	176.00	RMQP-496-HK	1	7.073	7.780	1.00	1.00	89.51	5623.12	0.000	1.000	696.40	0.00	696.40
5	176.00	4460 B25 + B66	3	7.073	7.780	0.50	0.75	3.49	413.60	0.000	1.000	27.13	0.00	27.13
6	176.00	KRY 112 89/4	3	7.073	7.780	0.50	0.75	2.23	112.06	0.000	1.000	17.35	0.00	17.35
7	176.00	AIR 6419 B41	3	7.073	7.780	0.52	0.75	12.61	1188.91	0.000	1.000	98.07	0.00	98.07
8	176.00	APXVAALL24_43-U-NA20	3	7.073	7.780	0.55	0.75	37.53	2258.25	0.000	1.000	291.99	0.00	291.99
9	176.00	4449 B71 + B85	3	7.073	7.780	0.50	0.75	4.13	323.01	0.000	1.000	32.15	0.00	32.15
10	167.00	Commscope	3	6.957	7.652	0.64	0.75	19.09	1061.38	0.000	0.000	146.12	0.00	0.00
11	167.00	Commscope	3	6.957	7.652	0.62	0.75	18.42	1027.51	0.000	0.000	140.95	0.00	0.00
12	167.00	APL868013	1	6.957	7.652	1.00	1.00	4.06	165.16	0.000	0.000	31.08	0.00	0.00
13	167.00	Samsung MT6407-77A	3	6.957	7.652	0.52	0.75	9.43	805.19	0.000	0.000	72.16	0.00	0.00
14	167.00	LPA-80063-4CF-EDIN-5	2	6.957	7.652	0.84	0.90	14.57	436.31	0.000	0.000	111.47	0.00	0.00
15	167.00	Low Profile	1	6.957	7.652	1.00	1.00	45.80	3264.05	0.000	0.000	350.49	0.00	0.00
16	167.00	KICKER KIT	1	6.957	7.652	1.00	1.00	12.85	385.92	0.000	0.000	98.35	0.00	0.00
17	167.00	B2/B66A RRH ORAN	3	6.957	7.652	0.50	0.75	4.02	640.12	0.000	0.000	30.78	0.00	0.00
18	167.00	B5/B13 RRH ORAN	3	6.957	7.652	0.50	0.75	4.02	559.21	0.000	0.000	30.78	0.00	0.00
19	167.00	CBRS RRH - RT4401-48A	3	6.957	7.652	0.50	0.75	2.35	160.34	0.000	0.000	17.97	0.00	0.00
20	167.00	Raycap	2	6.957	7.652	0.81	0.90	7.95	440.69	0.000	0.000	60.85	0.00	0.00
21	167.00	MONOPOLE COLLAR	1	6.957	7.652	1.00	1.00	6.03	397.80	0.000	0.000	46.13	0.00	0.00
22	167.00	SUPPORT RAIL CORNER	1	6.957	7.652	1.00	1.00	20.28	1633.75	0.000	0.000	155.15	0.00	0.00
23	157.00	ALU TD-RRH8x20-25	3	6.835	7.518	0.54	0.80	8.31	727.95	0.000	0.000	62.47	0.00	0.00
24	157.00	ALU 800 Mhz	6	6.835	7.518	0.54	0.80	12.93	849.39	0.000	0.000	97.25	0.00	0.00
25	157.00	ALU 1900 Mhz	3	6.835	7.518	0.54	0.80	7.19	479.57	0.000	0.000	54.03	0.00	0.00
26	157.00	Sitepro PRK-1245L	1	6.835	7.518	1.00	1.00	22.82	897.51	0.000	0.000	171.60	0.00	0.00
27	157.00	RFS APXVTM14-C-I20	3	6.835	7.518	0.62	0.80	14.53	891.79	0.000	0.000	109.26	0.00	0.00
28	157.00	Commscope	3	6.835	7.518	0.60	0.80	25.60	1228.70	0.000	0.000	192.45	0.00	0.00
29	157.00	Low Profile Platform	1	6.835	7.518	1.00	1.00	45.66	3253.19	0.000	0.000	343.26	0.00	0.00
30	157.00	Sitepro HRK14-U	1	6.835	7.518	1.00	1.00	18.77	1145.81	0.000	0.000	141.14	0.00	0.00
31	157.00	Sitepro PRK-SFS-H-L	1	6.835	7.518	1.00	1.00	16.10	605.12	0.000	0.000	121.02	0.00	0.00
32	147.00	RDIDC-9181-PF-48	1	6.708	7.378	1.00	1.00	2.77	84.43	0.000	0.000	20.41	0.00	0.00
33	147.00	TA08025-B604	3	6.708	7.378	0.50	0.75	4.08	395.85	0.000	0.000	30.10	0.00	0.00
34	147.00	TA08025-B605	3	6.708	7.378	0.50	0.75	4.08	440.99	0.000	0.000	30.10	0.00	0.00
35	147.00	MC-PK8-DSH	1	6.708	7.378	1.00	1.00	100.44	3945.30	0.000	0.000	741.09	0.00	0.00
36	147.00	MX08FRO665-21	3	6.708	7.378	0.55	0.75	24.04	1191.74	0.000	0.000	177.38	0.00	0.00
37	137.00	B2 B66A 8843	3	6.574	7.231	0.50	0.75	3.50	400.37	0.000	0.000	25.32	0.00	0.00
38	137.00	4449 B5/B12	3	6.574	7.231	0.50	0.75	4.06	426.40	0.000	0.000	29.36	0.00	0.00
39	137.00	DC6-48-60-18-8F	1	6.574	7.231	1.00	1.00	2.39	106.92	0.000	0.000	17.32	0.00	0.00
40	137.00	7770.00	3	6.574	7.231	0.55	0.75	11.39	701.59	0.000	0.000	82.40	0.00	0.00
41	137.00	DMP65R-BU6DA	3	6.574	7.231	0.54	0.75	23.72	1251.49	0.000	0.000	171.56	0.00	0.00
42	137.00	HRK14	1	6.574	7.231	1.00	1.00	18.63	1139.31	0.000	0.000	134.71	0.00	0.00
43	137.00	LP Platform-Round	1	6.574	7.231	1.00	1.00	45.34	3229.47	0.000	0.000	327.84	0.00	0.00
44	137.00	LGP21401	6	6.574	7.231	0.50	0.75	7.22	390.68	0.000	0.000	52.20	0.00	0.00
45	137.00	LGP21903	6	6.574	7.231	0.50	0.75	2.40	79.34	4.341	0.000	17.34	75.28	0.00
46	137.00	HPA-65R-BUU-H6	3	6.574	7.231	0.64	0.75	21.99	1219.31	0.000	0.000	159.03	0.00	0.00
47	137.00	7020	12	6.574	7.231	0.50	0.75	6.27	159.06	0.000	0.000	45.34	0.00	0.00

Discrete Appurtenance Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 32



48	137.00	Smart Bias T 1001940	3	6.574	7.231	0.50	0.75	0.60	8.22	7.041	0.000	4.36	30.69	0.00
Totals:											46,536.29	5,907.32		

Total Applied Force Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

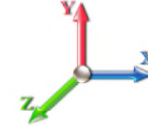


Page: 33

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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 27

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		141.00	2679.05	0.00	0.00
10.00		139.21	2685.52	0.00	0.00
15.00		137.21	2672.50	0.00	0.00
20.00		135.13	2650.88	0.00	0.00
25.00		132.98	2624.32	0.00	0.00
30.00		130.92	2594.47	0.00	0.00
35.00		134.52	2562.28	0.00	0.00
40.00		137.34	2528.31	0.00	0.00
42.75		75.92	1376.01	0.00	0.00
45.00		63.52	1739.71	0.00	0.00
49.00		114.43	3060.10	0.00	0.00
50.00		28.51	458.83	0.00	0.00
55.00		144.91	2271.99	0.00	0.00
60.00		145.80	2237.83	0.00	0.00
65.00		146.35	2202.97	0.00	0.00
70.00		146.60	2167.51	0.00	0.00
75.00		146.56	2131.50	0.00	0.00
80.00		146.27	2095.02	0.00	0.00
85.00		145.76	2058.12	0.00	0.00
86.50		43.34	611.16	0.00	0.00
90.00		102.89	2106.35	0.00	0.00
91.75		51.15	1042.47	0.00	0.00
95.00		94.91	1203.92	0.00	0.00
100.00		145.52	1822.46	0.00	0.00
105.00		144.29	1788.23	0.00	0.00
110.00		142.89	1753.74	0.00	0.00
115.00		141.35	1718.99	0.00	0.00
120.00		139.66	1684.00	0.00	0.00
125.00		137.84	1648.78	0.00	0.00
130.00		135.90	1613.37	0.00	0.00
131.25		33.51	398.88	0.00	0.00
135.00		101.41	1577.68	0.00	0.00
135.50		13.38	208.54	0.00	0.00
137.00	(45) attachments	1106.83	9508.65	105.96	0.00
140.00		79.66	736.04	0.00	0.00
145.00		131.23	1201.96	0.00	0.00
147.00	(11) attachments	1050.77	6532.69	0.00	0.00
150.00		76.87	698.78	0.00	0.00
155.00		126.37	1139.53	0.00	0.00
157.00	(22) attachments	1342.18	10528.37	0.00	0.00
160.00		73.83	655.24	0.00	0.00
165.00		121.14	1066.67	0.00	0.00
167.00	(27) attachments	1339.84	11397.60	0.00	0.00
170.00		70.57	589.18	0.00	0.00
175.00		115.54	956.31	0.00	0.00
176.00	(26) attachments	1279.37	10498.20	0.00	1339.99

Total Applied Force Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 34

Totals:	10,735.17	117,484.6 9	105.96	1,339.99
----------------	-----------	----------------	--------	----------

Linear Appurtenance Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 35

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind	Iterations 27
Dead Load Factor 1.20	
Wind Load Factor 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	1.54	0.00	0.018	0.000	4.256	0.00	20.86
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.64	0.00	0.018	0.000	4.256	0.00	27.18
10.00	Safety Cable	Yes	5.00	0.000	0.38	1.64	0.00	0.018	0.000	4.256	0.00	23.53
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.74	0.00	0.018	0.000	4.256	0.00	29.96
15.00	Safety Cable	Yes	5.00	0.000	0.38	1.70	0.00	0.018	0.000	4.256	0.00	25.26
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.80	0.00	0.018	0.000	4.256	0.00	31.77
20.00	Safety Cable	Yes	5.00	0.000	0.38	1.74	0.00	0.019	0.000	4.256	0.00	26.58
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.85	0.00	0.019	0.000	4.256	0.00	33.13
25.00	Safety Cable	Yes	5.00	0.000	0.38	1.78	0.00	0.019	0.000	4.256	0.00	27.65
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.88	0.00	0.019	0.000	4.256	0.00	34.25
30.00	Safety Cable	Yes	5.00	0.000	0.38	1.81	0.00	0.019	0.000	4.260	0.00	28.56
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.91	0.00	0.019	0.000	4.260	0.00	35.19
35.00	Safety Cable	Yes	5.00	0.000	0.38	1.83	0.00	0.020	0.000	4.451	0.00	29.35
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.94	0.00	0.020	0.000	4.451	0.00	36.02
40.00	Safety Cable	Yes	5.00	0.000	0.38	1.86	0.00	0.020	0.000	4.625	0.00	30.06
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.96	0.00	0.020	0.000	4.625	0.00	36.75
42.75	Safety Cable	Yes	2.75	0.000	0.38	1.03	0.00	0.021	0.000	4.713	0.00	16.73
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.63	1.09	0.00	0.021	0.000	4.713	0.00	20.42
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.84	0.00	0.021	0.000	4.783	0.00	13.82
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.63	0.89	0.00	0.021	0.000	4.783	0.00	16.84
49.00	Safety Cable	Yes	4.00	0.000	0.38	1.51	0.00	0.021	0.000	4.901	0.00	24.94
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	1.60	0.00	0.021	0.000	4.901	0.00	30.32
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.38	0.00	0.021	0.000	4.929	0.00	6.26
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.40	0.00	0.021	0.000	4.929	0.00	7.60
55.00	Safety Cable	Yes	5.00	0.000	0.38	1.91	0.00	0.021	0.000	5.065	0.00	31.83
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.02	0.00	0.021	0.000	5.065	0.00	38.58
60.00	Safety Cable	Yes	5.00	0.000	0.38	1.93	0.00	0.022	0.000	5.193	0.00	32.33
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.03	0.00	0.022	0.000	5.193	0.00	39.10
65.00	Safety Cable	Yes	5.00	0.000	0.38	1.94	0.00	0.022	0.000	5.313	0.00	32.80
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.05	0.00	0.022	0.000	5.313	0.00	39.59
70.00	Safety Cable	Yes	5.00	0.000	0.38	1.96	0.00	0.023	0.000	5.426	0.00	33.24
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.06	0.00	0.023	0.000	5.426	0.00	40.04
75.00	Safety Cable	Yes	5.00	0.000	0.38	1.97	0.00	0.023	0.000	5.534	0.00	33.66
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.07	0.00	0.023	0.000	5.534	0.00	40.47
80.00	Safety Cable	Yes	5.00	0.000	0.38	1.98	0.00	0.024	0.000	5.637	0.00	34.05
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.08	0.00	0.024	0.000	5.637	0.00	40.88
85.00	Safety Cable	Yes	5.00	0.000	0.38	1.99	0.00	0.024	0.000	5.736	0.00	34.43
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.09	0.00	0.024	0.000	5.736	0.00	41.27
86.50	Safety Cable	Yes	1.50	0.000	0.38	0.60	0.00	0.025	0.000	5.765	0.00	10.36
86.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.63	0.00	0.025	0.000	5.765	0.00	12.42
90.00	Safety Cable	Yes	3.50	0.000	0.38	1.40	0.00	0.025	0.000	5.830	0.00	24.35
90.00	Step bolts (ladder)	Yes	3.50	0.000	0.63	1.47	0.00	0.025	0.000	5.830	0.00	29.15
91.75	Safety Cable	Yes	1.75	0.000	0.38	0.70	0.00	0.025	0.000	5.862	0.00	12.22
91.75	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.74	0.00	0.025	0.000	5.862	0.00	14.62
95.00	Safety Cable	Yes	3.25	0.000	0.38	1.31	0.00	0.025	0.000	5.921	0.00	22.83
95.00	Step bolts (ladder)	Yes	3.25	0.000	0.63	1.37	0.00	0.025	0.000	5.921	0.00	27.30
100.00	Safety Cable	Yes	5.00	0.000	0.38	2.02	0.00	0.026	0.000	6.008	0.00	35.46

Linear Appurtenance Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 36

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind	Iterations 27
Dead Load Factor 1.20	
Wind Load Factor 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.12	0.00	0.026	0.000	6.008	0.00	42.33
105.00	Safety Cable	Yes	5.00	0.000	0.38	2.03	0.00	0.026	0.000	6.093	0.00	35.77
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.13	0.00	0.026	0.000	6.093	0.00	42.66
110.00	Safety Cable	Yes	5.00	0.000	0.38	2.04	0.00	0.027	0.000	6.174	0.00	36.07
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.14	0.00	0.027	0.000	6.174	0.00	42.97
115.00	Safety Cable	Yes	5.00	0.000	0.38	2.05	0.00	0.028	0.000	6.253	0.00	36.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.15	0.00	0.028	0.000	6.253	0.00	43.28
120.00	Safety Cable	Yes	5.00	0.000	0.38	2.05	0.00	0.028	0.000	6.330	0.00	36.65
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.16	0.00	0.028	0.000	6.330	0.00	43.57
125.00	Safety Cable	Yes	5.00	0.000	0.38	2.06	0.00	0.029	0.000	6.404	0.00	36.92
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.17	0.00	0.029	0.000	6.404	0.00	43.85
130.00	Safety Cable	Yes	5.00	0.000	0.38	2.07	0.00	0.030	0.000	6.476	0.00	37.19
130.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.17	0.00	0.030	0.000	6.476	0.00	44.12
131.25	Safety Cable	Yes	1.25	0.000	0.38	0.52	0.00	0.031	0.000	6.494	0.00	9.31
131.25	Step bolts (ladder)	Yes	1.25	0.000	0.63	0.54	0.00	0.031	0.000	6.494	0.00	11.05
135.00	Safety Cable	Yes	3.75	0.000	0.38	1.56	0.00	0.031	0.000	6.546	0.00	28.08
135.00	Step bolts (ladder)	Yes	3.75	0.000	0.63	1.64	0.00	0.031	0.000	6.546	0.00	33.29
135.50	Safety Cable	Yes	0.50	0.000	0.38	0.21	0.00	0.032	0.000	6.553	0.00	3.75
135.50	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.22	0.00	0.032	0.000	6.553	0.00	4.44
137.00	Safety Cable	Yes	1.50	0.000	0.38	0.62	0.00	0.031	0.000	6.574	0.00	11.26
137.00	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.66	0.00	0.031	0.000	6.574	0.00	13.35
140.00	Safety Cable	Yes	3.00	0.000	0.38	1.25	0.00	0.032	0.000	6.615	0.00	22.61
140.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	1.31	0.00	0.032	0.000	6.615	0.00	26.79
145.00	Safety Cable	Yes	5.00	0.000	0.38	2.09	0.00	0.033	0.000	6.681	0.00	37.93
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.20	0.00	0.033	0.000	6.681	0.00	44.89
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.84	0.00	0.033	0.000	6.708	0.00	15.21
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.88	0.00	0.033	0.000	6.708	0.00	18.00
150.00	Safety Cable	Yes	3.00	0.000	0.38	1.26	0.00	0.034	0.000	6.746	0.00	22.90
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	1.32	0.00	0.034	0.000	6.746	0.00	27.08
155.00	Safety Cable	Yes	5.00	0.000	0.38	2.10	0.00	0.035	0.000	6.810	0.00	38.40
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.21	0.00	0.035	0.000	6.810	0.00	45.37
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.84	0.00	0.036	0.000	6.835	0.00	15.39
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.88	0.00	0.036	0.000	6.835	0.00	18.19
160.00	Safety Cable	Yes	3.00	0.000	0.38	1.27	0.00	0.036	0.000	6.872	0.00	23.17
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	1.33	0.00	0.036	0.000	6.872	0.00	27.36
165.00	Safety Cable	Yes	5.00	0.000	0.38	2.12	0.00	0.037	0.000	6.933	0.00	38.84
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.22	0.00	0.037	0.000	6.933	0.00	45.83
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.85	0.00	0.038	0.000	6.957	0.00	15.57
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.89	0.00	0.038	0.000	6.957	0.00	18.37
170.00	Safety Cable	Yes	3.00	0.000	0.38	1.27	0.00	0.039	0.000	6.992	0.00	23.43
170.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	1.34	0.00	0.039	0.000	6.992	0.00	27.63
175.00	Safety Cable	Yes	5.00	0.000	0.38	2.13	0.00	0.040	0.000	7.050	0.00	39.26
175.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	2.23	0.00	0.040	0.000	7.050	0.00	46.26
176.00	Safety Cable	Yes	1.00	0.000	0.38	0.43	0.00	0.041	0.000	7.062	0.00	7.86
176.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.45	0.00	0.041	0.000	7.062	0.00	9.26
Totals:											0.0	2,605.9

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

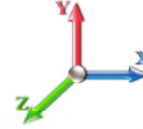


Page: 37

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

Iterations 27

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	-117.4	-10.80	-0.11	-1582.9	0.00	1582.91	6372.54	3186.27	14661.2	7341.49	0.00	0.000	0.000	0.234
5.00	-114.7	-10.78	-0.11	-1528.9	0.00	1528.91	6292.68	3146.34	14220.7	7120.95	0.03	-0.063	0.000	0.233
10.00	-112.0	-10.77	-0.11	-1474.9	0.00	1474.99	6211.66	3105.83	13784.2	6902.39	0.13	-0.127	0.000	0.232
15.00	-109.4	-10.75	-0.11	-1421.1	0.00	1421.15	6129.50	3064.75	13351.9	6685.89	0.30	-0.191	0.000	0.230
20.00	-106.7	-10.73	-0.11	-1367.4	0.00	1367.42	6046.18	3023.09	12923.8	6471.51	0.54	-0.258	0.000	0.229
25.00	-104.1	-10.70	-0.11	-1313.7	0.00	1313.79	5961.72	2980.86	12500.0	6259.33	0.84	-0.325	0.000	0.227
30.00	-101.5	-10.68	-0.11	-1260.2	0.00	1260.27	5876.11	2938.05	12080.8	6049.42	1.22	-0.393	0.000	0.226
35.00	-98.93	-10.65	-0.11	-1206.8	0.00	1206.88	5789.35	2894.67	11666.3	5841.84	1.67	-0.463	0.000	0.224
40.00	-96.39	-10.58	-0.11	-1153.6	0.00	1153.66	5679.25	2839.63	11212.8	5614.75	2.19	-0.533	0.000	0.222
42.75	-95.01	-10.55	-0.11	-1124.5	0.00	1124.57	5615.38	2807.69	10960.7	5488.51	2.51	-0.573	0.000	0.222
45.00	-93.26	-10.54	-0.11	-1100.8	0.00	1100.84	5563.11	2781.56	10756.6	5386.29	2.79	-0.606	0.000	0.221
49.00	-90.20	-10.45	-0.11	-1058.6	0.00	1058.67	4756.80	2378.40	9239.06	4626.40	3.32	-0.664	0.000	0.248
50.00	-89.73	-10.49	-0.11	-1048.2	0.00	1048.22	4742.51	2371.25	9172.60	4593.12	3.46	-0.679	0.000	0.247
55.00	-87.44	-10.44	-0.11	-995.76	0.00	995.76	4670.33	2335.16	8842.49	4427.82	4.21	-0.758	0.000	0.244
60.00	-85.19	-10.38	-0.11	-943.56	0.00	943.56	4597.00	2298.50	8516.13	4264.39	5.05	-0.838	0.000	0.240
65.00	-82.98	-10.32	-0.11	-891.65	0.00	891.65	4522.52	2261.26	8193.68	4102.93	5.97	-0.919	0.000	0.236
70.00	-80.80	-10.25	-0.11	-840.05	0.00	840.05	4446.89	2223.45	7875.26	3943.48	6.98	-1.000	0.000	0.231
75.00	-78.66	-10.18	-0.11	-788.80	0.00	788.80	4354.69	2177.34	7534.33	3772.77	8.07	-1.082	0.000	0.227
80.00	-76.55	-10.10	-0.11	-737.90	0.00	737.90	4253.06	2126.53	7185.02	3597.85	9.25	-1.165	0.000	0.223
85.00	-74.49	-9.98	-0.11	-687.39	0.00	687.39	4151.43	2075.72	6843.99	3427.08	10.51	-1.247	0.000	0.219
86.50	-73.87	-9.98	-0.11	-672.42	0.00	672.42	4120.95	2060.47	6743.30	3376.66	10.91	-1.272	0.000	0.217
90.00	-71.76	-9.88	-0.11	-637.49	0.00	637.49	4049.81	2024.90	6511.26	3260.47	11.86	-1.331	0.000	0.213
91.75	-70.71	-9.86	-0.11	-620.19	0.00	620.19	3441.70	1720.85	5608.94	2808.64	12.35	-1.360	0.000	0.241
95.00	-69.50	-9.82	-0.11	-588.14	0.00	588.14	3401.05	1700.53	5452.51	2730.31	13.30	-1.414	0.000	0.236
100.00	-67.66	-9.74	-0.11	-539.03	0.00	539.03	3337.56	1668.78	5214.58	2611.16	14.83	-1.504	0.000	0.227
105.00	-65.86	-9.64	-0.11	-490.34	0.00	490.34	3272.92	1636.46	4980.08	2493.74	16.45	-1.592	0.000	0.217
110.00	-64.10	-9.55	-0.11	-442.12	0.00	442.12	3194.68	1597.34	4730.71	2368.87	18.16	-1.678	0.000	0.207
115.00	-62.37	-9.44	-0.11	-394.39	0.00	394.39	3107.57	1553.79	4474.96	2240.81	19.96	-1.762	0.000	0.196
120.00	-60.68	-9.33	-0.11	-347.17	0.00	347.17	3020.47	1510.23	4226.32	2116.30	21.85	-1.843	0.000	0.184
125.00	-59.03	-9.22	-0.11	-300.50	0.00	300.50	2933.36	1466.68	3984.78	1995.35	23.82	-1.919	0.000	0.171
130.00	-57.41	-9.07	-0.11	-254.40	0.00	254.40	2846.25	1423.13	3750.35	1877.96	25.87	-1.991	0.000	0.156
131.25	-57.01	-9.06	-0.11	-243.06	0.00	243.06	2824.47	1412.24	3692.86	1849.17	26.40	-2.009	0.000	0.152
135.00	-55.43	-8.93	-0.11	-209.09	0.00	209.09	2759.14	1379.57	3523.03	1764.13	28.00	-2.058	0.000	0.139
135.50	-55.22	-8.92	-0.11	-204.63	0.00	204.63	1734.08	867.04	2260.78	1132.07	28.21	-2.065	0.000	0.213
137.00	-45.76	-7.50	0.00	-191.25	0.00	191.25	1723.43	861.72	2225.81	1114.56	28.86	-2.083	0.000	0.198
140.00	-45.01	-7.44	0.00	-168.76	0.00	168.76	1701.83	850.91	2156.25	1079.73	30.19	-2.133	0.000	0.183
145.00	-43.81	-7.30	0.00	-131.57	0.00	131.57	1664.90	832.45	2041.54	1022.29	32.46	-2.205	0.000	0.155
147.00	-37.32	-6.02	0.00	-116.97	0.00	116.97	1649.80	824.90	1996.11	999.54	33.39	-2.232	0.000	0.140
150.00	-36.62	-5.94	0.00	-98.93	0.00	98.93	1626.81	813.41	1928.48	965.67	34.81	-2.268	0.000	0.125
155.00	-35.49	-5.79	0.00	-69.23	0.00	69.23	1587.58	793.79	1817.22	909.96	37.21	-2.317	0.000	0.098
157.00	-25.02	-4.03	0.00	-57.65	0.00	57.65	1571.57	785.79	1773.24	887.94	38.18	-2.334	0.000	0.081
160.00	-24.37	-3.94	0.00	-45.57	0.00	45.57	1547.20	773.60	1707.88	855.21	39.66	-2.355	0.000	0.069
165.00	-23.30	-3.78	0.00	-25.88	0.00	25.88	1505.67	752.84	1600.62	801.50	42.14	-2.381	0.000	0.048
167.00	-11.97	-1.97	0.00	-18.33	0.00	18.33	1488.74	744.37	1558.33	780.32	43.14	-2.388	0.000	0.032
170.00	-11.39	-1.87	0.00	-12.43	0.00	12.43	1462.99	731.50	1495.57	748.90	44.64	-2.396	0.000	0.024
175.00	-10.44	-1.72	0.00	-3.06	0.00	3.06	1411.70	705.85	1385.55	693.80	47.15	-2.403	0.000	0.012
176.00	0.00	-1.28	0.00	-1.34	0.00	1.34	1400.09	700.04	1362.73	682.38	47.65	-2.404	0.000	0.002

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



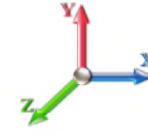
Seismic Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 39

Load Case: 1.2D + 1.0E				Iterations 24
Gust Response Factor	1.10	Sds	0.19	Ss 0.18
Dead Load Factor	1.20	Seismic Load Factor	1.00	S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.26	SA 0.03
				Seismic Importance Factor 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		1500.0	0.00	0.03	0.02	29.44	
10.00		1473.4	0.01	0.05	0.03	41.68	
15.00		1446.8	0.01	0.06	0.03	47.38	
20.00		1420.2	0.02	0.07	0.04	49.94	
25.00		1393.6	0.04	0.07	0.04	50.93	
30.00		1367.0	0.05	0.07	0.04	51.23	
35.00		1340.4	0.07	0.07	0.04	51.29	
40.00		1313.8	0.10	0.07	0.04	51.33	
42.75	Bot - Section 2	711.29	0.11	0.07	0.04	28.12	
45.00		1089.9	0.12	0.07	0.03	43.50	
49.00	Top - Section 1	1912.7	0.15	0.07	0.03	77.58	
50.00		223.19	0.15	0.07	0.03	9.08	
55.00		1101.9	0.18	0.06	0.03	45.42	
60.00		1078.7	0.22	0.06	0.02	44.34	
65.00		1055.4	0.26	0.05	0.02	42.08	
70.00		1032.1	0.30	0.05	0.01	38.02	
75.00		1008.8	0.34	0.03	0.01	31.56	
80.00		985.61	0.39	0.02	0.01	22.23	
85.00		962.33	0.44	0.00	0.01	10.17	
86.50	Bot - Section 3	284.16	0.46	0.00	0.01	1.83	
90.00		1227.7	0.49	-0.01	0.01	-4.54	
91.75	Top - Section 2	605.94	0.51	-0.02	0.01	-5.38	
95.00		518.65	0.55	-0.03	0.01	-9.46	
100.00		781.47	0.61	-0.06	0.02	-24.06	
105.00		761.52	0.67	-0.08	0.02	-30.33	
110.00		741.57	0.74	-0.10	0.04	-33.18	
115.00		721.62	0.81	-0.11	0.06	-32.87	
120.00		701.67	0.88	-0.12	0.08	-29.80	
125.00		681.73	0.95	-0.12	0.11	-24.33	
130.00		661.78	1.03	-0.10	0.15	-16.78	
131.25	Bot - Section 4	162.33	1.05	-0.09	0.16	-3.61	
135.00		805.50	1.11	-0.06	0.19	-9.29	
135.50	Top - Section 3	105.99	1.12	-0.06	0.20	-1.06	
137.00	Appurtenance(s)	3058.6	1.15	-0.04	0.22	-15.39	
140.00		252.22	1.20	0.00	0.25	1.45	
145.00		409.73	1.28	0.10	0.32	10.89	
147.00	Appurtenance(s)	2519.2	1.32	0.15	0.35	90.43	
150.00		236.26	1.37	0.23	0.40	12.04	
155.00		383.13	1.47	0.42	0.50	30.26	
157.00	Appurtenance(s)	3755.6	1.50	0.51	0.55	342.61	
160.00		220.30	1.56	0.67	0.62	24.39	
165.00		356.53	1.66	0.98	0.76	52.15	
167.00	Appurtenance(s)	3517.0	1.70	1.13	0.82	568.33	
170.00		204.34	1.76	1.38	0.92	37.95	
175.00		329.93	1.87	1.87	1.10	75.61	

Seismic Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 40

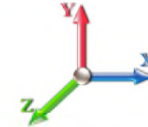
176.00	Appurtenance(s)	3910.3	1.89	1.98	1.14	932.03	
	Totals:	50,333.1				2,705.3	Total Wind: 35,100.9

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0E										Iterations 24
Gust Response Factor 1.10						Sds 0.19				Ss 0.18
Dead Load Factor 1.20		Seismic Load Factor 1.00		Sd1 0.10						S1 0.06
Wind Load Factor 0.00		Structure Frequency (f1) 0.26		SA 0.03		Seismic Importance 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	-68.21	-2.95	0.00	-428.76	0.00	428.76	6372.54	3186.27	14661.2	7341.49	0.00	0.00	0.00	0.069
5.00	-66.17	-2.94	0.00	-413.99	0.00	413.99	6292.68	3146.34	14220.7	7120.95	0.01	-0.02	0.069	
10.00	-64.15	-2.92	0.00	-399.26	0.00	399.26	6211.66	3105.83	13784.2	6902.39	0.04	-0.03	0.068	
15.00	-62.17	-2.89	0.00	-384.65	0.00	384.65	6129.50	3064.75	13351.9	6685.89	0.08	-0.05	0.068	
20.00	-60.22	-2.86	0.00	-370.19	0.00	370.19	6046.18	3023.09	12923.8	6471.51	0.15	-0.07	0.067	
25.00	-58.30	-2.82	0.00	-355.90	0.00	355.90	5961.72	2980.86	12500.0	6259.33	0.23	-0.09	0.067	
30.00	-56.41	-2.79	0.00	-341.78	0.00	341.78	5876.11	2938.05	12080.8	6049.42	0.33	-0.11	0.066	
35.00	-54.56	-2.75	0.00	-327.84	0.00	327.84	5789.35	2894.67	11666.3	5841.84	0.45	-0.13	0.066	
40.00	-52.74	-2.71	0.00	-314.08	0.00	314.08	5679.25	2839.63	11212.8	5614.75	0.59	-0.14	0.065	
42.75	-51.75	-2.69	0.00	-306.63	0.00	306.63	5615.38	2807.69	10960.7	5488.51	0.68	-0.16	0.065	
45.00	-50.33	-2.65	0.00	-300.59	0.00	300.59	5563.11	2781.56	10756.6	5386.29	0.75	-0.16	0.065	
49.00	-47.84	-2.57	0.00	-289.98	0.00	289.98	4756.80	2378.40	9239.06	4626.40	0.90	-0.18	0.073	
50.00	-47.52	-2.58	0.00	-287.41	0.00	287.41	4742.51	2371.25	9172.60	4593.12	0.94	-0.18	0.073	
55.00	-45.95	-2.54	0.00	-274.53	0.00	274.53	4670.33	2335.16	8842.49	4427.82	1.14	-0.21	0.072	
60.00	-44.41	-2.51	0.00	-261.82	0.00	261.82	4597.00	2298.50	8516.13	4264.39	1.37	-0.23	0.071	
65.00	-42.90	-2.48	0.00	-249.28	0.00	249.28	4522.52	2261.26	8193.68	4102.93	1.62	-0.25	0.070	
70.00	-41.41	-2.45	0.00	-236.89	0.00	236.89	4446.89	2223.45	7875.26	3943.48	1.90	-0.27	0.069	
75.00	-39.96	-2.43	0.00	-224.65	0.00	224.65	4354.69	2177.34	7534.33	3772.77	2.19	-0.30	0.069	
80.00	-38.53	-2.41	0.00	-212.51	0.00	212.51	4253.06	2126.53	7185.02	3597.85	2.52	-0.32	0.068	
85.00	-37.13	-2.40	0.00	-200.45	0.00	200.45	4151.43	2075.72	6843.99	3427.08	2.87	-0.34	0.067	
86.50	-36.71	-2.41	0.00	-196.84	0.00	196.84	4120.95	2060.47	6743.30	3376.66	2.98	-0.35	0.067	
90.00	-35.07	-2.41	0.00	-188.41	0.00	188.41	4049.81	2024.90	6511.26	3260.47	3.24	-0.37	0.066	
91.75	-34.25	-2.41	0.00	-184.20	0.00	184.20	3441.70	1720.85	5608.94	2808.64	3.38	-0.38	0.076	
95.00	-33.47	-2.42	0.00	-176.37	0.00	176.37	3401.05	1700.53	5452.51	2730.31	3.64	-0.39	0.074	
100.00	-32.29	-2.42	0.00	-164.30	0.00	164.30	3337.56	1668.78	5214.58	2611.16	4.07	-0.42	0.073	
105.00	-31.13	-2.43	0.00	-152.19	0.00	152.19	3272.92	1636.46	4980.08	2493.74	4.52	-0.45	0.071	
110.00	-29.99	-2.43	0.00	-140.04	0.00	140.04	3194.68	1597.34	4730.71	2368.87	5.00	-0.47	0.069	
115.00	-28.88	-2.44	0.00	-127.88	0.00	127.88	3107.57	1553.79	4474.96	2240.81	5.52	-0.50	0.066	
120.00	-27.79	-2.44	0.00	-115.69	0.00	115.69	3020.47	1510.23	4226.32	2116.30	6.06	-0.53	0.064	
125.00	-26.73	-2.44	0.00	-103.49	0.00	103.49	2933.36	1466.68	3984.78	1995.35	6.62	-0.55	0.061	
130.00	-25.69	-2.44	0.00	-91.28	0.00	91.28	2846.25	1423.13	3750.35	1877.96	7.22	-0.58	0.058	
131.25	-25.43	-2.44	0.00	-88.23	0.00	88.23	2824.47	1412.24	3692.86	1849.17	7.37	-0.59	0.057	
135.00	-24.28	-2.43	0.00	-79.07	0.00	79.07	2759.14	1379.57	3523.03	1764.13	7.84	-0.60	0.054	
135.50	-24.13	-2.43	0.00	-77.86	0.00	77.86	1734.08	867.04	2260.78	1132.07	7.90	-0.61	0.083	
137.00	-20.38	-2.40	0.00	-74.21	0.00	74.21	1723.43	861.72	2225.81	1114.56	8.09	-0.61	0.078	
140.00	-19.98	-2.40	0.00	-67.01	0.00	67.01	1701.83	850.91	2156.25	1079.73	8.48	-0.63	0.074	
145.00	-19.32	-2.39	0.00	-54.99	0.00	54.99	1664.90	832.45	2041.54	1022.29	9.16	-0.66	0.065	
147.00	-16.24	-2.27	0.00	-50.21	0.00	50.21	1649.80	824.90	1996.11	999.54	9.44	-0.67	0.060	
150.00	-15.86	-2.26	0.00	-43.41	0.00	43.41	1626.81	813.41	1928.48	965.67	9.87	-0.69	0.055	
155.00	-15.24	-2.22	0.00	-32.12	0.00	32.12	1587.58	793.79	1817.22	909.96	10.61	-0.71	0.045	
157.00	-10.67	-1.83	0.00	-27.67	0.00	27.67	1571.57	785.79	1773.24	887.94	10.91	-0.72	0.038	
160.00	-10.32	-1.80	0.00	-22.20	0.00	22.20	1547.20	773.60	1707.88	855.21	11.36	-0.73	0.033	
165.00	-9.75	-1.74	0.00	-13.21	0.00	13.21	1505.67	752.84	1600.62	801.50	12.13	-0.74	0.023	
167.00	-5.48	-1.12	0.00	-9.72	0.00	9.72	1488.74	744.37	1558.33	780.32	12.45	-0.75	0.016	
170.00	-5.18	-1.08	0.00	-6.37	0.00	6.37	1462.99	731.50	1495.57	748.90	12.92	-0.75	0.012	
175.00	-4.70	-0.99	0.00	-0.99	0.00	0.99	1411.70	705.85	1385.55	693.80	13.70	-0.75	0.005	
176.00	0.00	-0.93	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	13.86	-0.75	0.000	

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 42



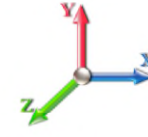
Seismic Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 43

Load Case: 0.9D + 1.0E						Iterations 24
Gust Response Factor	1.10			Sds	0.19	Ss 0.18
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.10	S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.26	SA	0.03	Seismic Importance Factor 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		1500.0	0.00	0.03	0.02	29.44	
10.00		1473.4	0.01	0.05	0.03	41.68	
15.00		1446.8	0.01	0.06	0.03	47.38	
20.00		1420.2	0.02	0.07	0.04	49.94	
25.00		1393.6	0.04	0.07	0.04	50.93	
30.00		1367.0	0.05	0.07	0.04	51.23	
35.00		1340.4	0.07	0.07	0.04	51.29	
40.00		1313.8	0.10	0.07	0.04	51.33	
42.75	Bot - Section 2	711.29	0.11	0.07	0.04	28.12	
45.00		1089.9	0.12	0.07	0.03	43.50	
49.00	Top - Section 1	1912.7	0.15	0.07	0.03	77.58	
50.00		223.19	0.15	0.07	0.03	9.08	
55.00		1101.9	0.18	0.06	0.03	45.42	
60.00		1078.7	0.22	0.06	0.02	44.34	
65.00		1055.4	0.26	0.05	0.02	42.08	
70.00		1032.1	0.30	0.05	0.01	38.02	
75.00		1008.8	0.34	0.03	0.01	31.56	
80.00		985.61	0.39	0.02	0.01	22.23	
85.00		962.33	0.44	0.00	0.01	10.17	
86.50	Bot - Section 3	284.16	0.46	0.00	0.01	1.83	
90.00		1227.7	0.49	-0.01	0.01	-4.54	
91.75	Top - Section 2	605.94	0.51	-0.02	0.01	-5.38	
95.00		518.65	0.55	-0.03	0.01	-9.46	
100.00		781.47	0.61	-0.06	0.02	-24.06	
105.00		761.52	0.67	-0.08	0.02	-30.33	
110.00		741.57	0.74	-0.10	0.04	-33.18	
115.00		721.62	0.81	-0.11	0.06	-32.87	
120.00		701.67	0.88	-0.12	0.08	-29.80	
125.00		681.73	0.95	-0.12	0.11	-24.33	
130.00		661.78	1.03	-0.10	0.15	-16.78	
131.25	Bot - Section 4	162.33	1.05	-0.09	0.16	-3.61	
135.00		805.50	1.11	-0.06	0.19	-9.29	
135.50	Top - Section 3	105.99	1.12	-0.06	0.20	-1.06	
137.00	Appurtenance(s)	3058.6	1.15	-0.04	0.22	-15.39	
140.00		252.22	1.20	0.00	0.25	1.45	
145.00		409.73	1.28	0.10	0.32	10.89	
147.00	Appurtenance(s)	2519.2	1.32	0.15	0.35	90.43	
150.00		236.26	1.37	0.23	0.40	12.04	
155.00		383.13	1.47	0.42	0.50	30.26	
157.00	Appurtenance(s)	3755.6	1.50	0.51	0.55	342.61	
160.00		220.30	1.56	0.67	0.62	24.39	
165.00		356.53	1.66	0.98	0.76	52.15	
167.00	Appurtenance(s)	3517.0	1.70	1.13	0.82	568.33	
170.00		204.34	1.76	1.38	0.92	37.95	
175.00		329.93	1.87	1.87	1.10	75.61	

Seismic Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 44

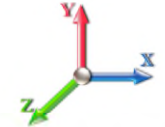
176.00	Appurtenance(s)	3910.3	1.89	1.98	1.14	932.03	
	Totals:	50,333.1				2,705.3	Total Wind: 35,100.9

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0E										Iterations 24
Gust Response Factor 1.10					Sds 0.19					Ss 0.18
Dead Load Factor 0.90			Seismic Load Factor 1.00			Sd1 0.10			S1 0.06	
Wind Load Factor 0.00		Structure Frequency (f1) 0.26		SA 0.03		Seismic Importance 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	-51.16	-2.95	0.00	-420.67	0.00	420.67	6372.54	3186.27	14661.2	7341.49	0.00	0.00	0.00	0.065
5.00	-49.62	-2.94	0.00	-405.91	0.00	405.91	6292.68	3146.34	14220.7	7120.95	0.01	-0.02	-0.02	0.065
10.00	-48.11	-2.91	0.00	-391.22	0.00	391.22	6211.66	3105.83	13784.2	6902.39	0.04	-0.03	-0.03	0.064
15.00	-46.63	-2.87	0.00	-376.68	0.00	376.68	6129.50	3064.75	13351.9	6685.89	0.08	-0.05	-0.05	0.064
20.00	-45.16	-2.84	0.00	-362.31	0.00	362.31	6046.18	3023.09	12923.8	6471.51	0.14	-0.07	-0.07	0.063
25.00	-43.72	-2.80	0.00	-348.12	0.00	348.12	5961.72	2980.86	12500.0	6259.33	0.22	-0.09	-0.09	0.063
30.00	-42.31	-2.76	0.00	-334.13	0.00	334.13	5876.11	2938.05	12080.8	6049.42	0.32	-0.10	-0.10	0.062
35.00	-40.92	-2.72	0.00	-320.34	0.00	320.34	5789.35	2894.67	11666.3	5841.84	0.44	-0.12	-0.12	0.062
40.00	-39.55	-2.67	0.00	-306.76	0.00	306.76	5679.25	2839.63	11212.8	5614.75	0.58	-0.14	-0.14	0.062
42.75	-38.81	-2.65	0.00	-299.41	0.00	299.41	5615.38	2807.69	10960.7	5488.51	0.67	-0.15	-0.15	0.061
45.00	-37.75	-2.61	0.00	-293.45	0.00	293.45	5563.11	2781.56	10756.6	5386.29	0.74	-0.16	-0.16	0.061
49.00	-35.88	-2.53	0.00	-283.00	0.00	283.00	4756.80	2378.40	9239.06	4626.40	0.88	-0.18	-0.18	0.069
50.00	-35.64	-2.53	0.00	-280.47	0.00	280.47	4742.51	2371.25	9172.60	4593.12	0.92	-0.18	-0.18	0.069
55.00	-34.46	-2.50	0.00	-267.81	0.00	267.81	4670.33	2335.16	8842.49	4427.82	1.12	-0.20	-0.20	0.068
60.00	-33.31	-2.46	0.00	-255.33	0.00	255.33	4597.00	2298.50	8516.13	4264.39	1.34	-0.22	-0.22	0.067
65.00	-32.17	-2.43	0.00	-243.04	0.00	243.04	4522.52	2261.26	8193.68	4102.93	1.59	-0.25	-0.25	0.066
70.00	-31.06	-2.39	0.00	-230.91	0.00	230.91	4446.89	2223.45	7875.26	3943.48	1.85	-0.27	-0.27	0.066
75.00	-29.97	-2.37	0.00	-218.94	0.00	218.94	4354.69	2177.34	7534.33	3772.77	2.15	-0.29	-0.29	0.065
80.00	-28.89	-2.35	0.00	-207.09	0.00	207.09	4253.06	2126.53	7185.02	3597.85	2.46	-0.31	-0.31	0.064
85.00	-27.84	-2.34	0.00	-195.33	0.00	195.33	4151.43	2075.72	6843.99	3427.08	2.80	-0.34	-0.34	0.064
86.50	-27.53	-2.35	0.00	-191.81	0.00	191.81	4120.95	2060.47	6743.30	3376.66	2.91	-0.34	-0.34	0.063
90.00	-26.30	-2.34	0.00	-183.60	0.00	183.60	4049.81	2024.90	6511.26	3260.47	3.17	-0.36	-0.36	0.063
91.75	-25.69	-2.35	0.00	-179.49	0.00	179.49	3441.70	1720.85	5608.94	2808.64	3.30	-0.37	-0.37	0.071
95.00	-25.10	-2.35	0.00	-171.87	0.00	171.87	3401.05	1700.53	5452.51	2730.31	3.56	-0.38	-0.38	0.070
100.00	-24.21	-2.36	0.00	-160.11	0.00	160.11	3337.56	1668.78	5214.58	2611.16	3.97	-0.41	-0.41	0.069
105.00	-23.34	-2.36	0.00	-148.32	0.00	148.32	3272.92	1636.46	4980.08	2493.74	4.42	-0.44	-0.44	0.067
110.00	-22.49	-2.36	0.00	-136.52	0.00	136.52	3194.68	1597.34	4730.71	2368.87	4.89	-0.46	-0.46	0.065
115.00	-21.65	-2.37	0.00	-124.70	0.00	124.70	3107.57	1553.79	4474.96	2240.81	5.39	-0.49	-0.49	0.063
120.00	-20.84	-2.37	0.00	-112.86	0.00	112.86	3020.47	1510.23	4226.32	2116.30	5.92	-0.52	-0.52	0.060
125.00	-20.04	-2.37	0.00	-101.01	0.00	101.01	2933.36	1466.68	3984.78	1995.35	6.47	-0.54	-0.54	0.057
130.00	-19.26	-2.37	0.00	-89.15	0.00	89.15	2846.25	1423.13	3750.35	1877.96	7.05	-0.57	-0.57	0.054
131.25	-19.07	-2.37	0.00	-86.19	0.00	86.19	2824.47	1412.24	3692.86	1849.17	7.20	-0.57	-0.57	0.053
135.00	-18.20	-2.37	0.00	-77.30	0.00	77.30	2759.14	1379.57	3523.03	1764.13	7.66	-0.59	-0.59	0.050
135.50	-18.09	-2.37	0.00	-76.12	0.00	76.12	1734.08	867.04	2260.78	1132.07	7.72	-0.59	-0.59	0.078
137.00	-15.28	-2.34	0.00	-72.57	0.00	72.57	1723.43	861.72	2225.81	1114.56	7.90	-0.60	-0.60	0.074
140.00	-14.98	-2.34	0.00	-65.55	0.00	65.55	1701.83	850.91	2156.25	1079.73	8.29	-0.62	-0.62	0.070
145.00	-14.49	-2.33	0.00	-53.84	0.00	53.84	1664.90	832.45	2041.54	1022.29	8.95	-0.65	-0.65	0.061
147.00	-12.17	-2.22	0.00	-49.18	0.00	49.18	1649.80	824.90	1996.11	999.54	9.22	-0.66	-0.66	0.057
150.00	-11.89	-2.21	0.00	-42.53	0.00	42.53	1626.81	813.41	1928.48	965.67	9.64	-0.67	-0.67	0.051
155.00	-11.42	-2.17	0.00	-31.50	0.00	31.50	1587.58	793.79	1817.22	909.96	10.36	-0.69	-0.69	0.042
157.00	-8.00	-1.79	0.00	-27.16	0.00	27.16	1571.57	785.79	1773.24	887.94	10.65	-0.70	-0.70	0.036
160.00	-7.74	-1.76	0.00	-21.79	0.00	21.79	1547.20	773.60	1707.88	855.21	11.10	-0.71	-0.71	0.030
165.00	-7.31	-1.71	0.00	-12.97	0.00	12.97	1505.67	752.84	1600.62	801.50	11.85	-0.73	-0.73	0.021
167.00	-4.11	-1.10	0.00	-9.56	0.00	9.56	1488.74	744.37	1558.33	780.32	12.15	-0.73	-0.73	0.015
170.00	-3.88	-1.06	0.00	-6.26	0.00	6.26	1462.99	731.50	1495.57	748.90	12.61	-0.73	-0.73	0.011
175.00	-3.52	-0.98	0.00	-0.98	0.00	0.98	1411.70	705.85	1385.55	693.80	13.38	-0.74	-0.74	0.004
176.00	0.00	-0.93	0.00	0.00	0.00	0.00	1400.09	700.04	1362.73	682.38	13.54	-0.74	-0.74	0.000

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 46



Wind Loading - Shaft

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



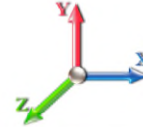
Page: 47

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 25

Dead Load Factor 1.00

Wind Load Factor 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	0.70	6.129	6.74	240.22	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.74	236.03	0.650	0.000	5.00	23.718	15.42	103.9	0.0	1500.1
10.00		1.00	0.70	6.129	6.74	231.85	0.650	0.000	5.00	23.301	15.15	102.1	0.0	1473.5
15.00		1.00	0.70	6.129	6.74	227.66	0.650	0.000	5.00	22.884	14.87	100.3	0.0	1446.9
20.00		1.00	0.70	6.129	6.74	223.48	0.650	0.000	5.00	22.467	14.60	98.5	0.0	1420.3
25.00		1.00	0.70	6.129	6.74	219.29	0.650	0.000	5.00	22.050	14.33	96.6	0.0	1393.7
30.00		1.00	0.70	6.134	6.75	215.20	0.650	0.000	5.00	21.634	14.06	94.9	0.0	1367.1
35.00		1.00	0.73	6.410	7.05	215.71	0.650	0.000	5.00	21.217	13.79	97.2	0.0	1340.5
40.00		1.00	0.76	6.659	7.33	215.50	0.650	0.000	5.00	20.800	13.52	99.0	0.0	1313.9
42.75	Bot - Section 2	1.00	0.78	6.787	7.47	215.14	0.650	0.000	2.75	11.262	7.32	54.7	0.0	711.3
45.00		1.00	0.79	6.887	7.58	214.72	0.650	0.000	2.25	9.288	6.04	45.7	0.0	1089.9
49.00	Top - Section 1	1.00	0.81	7.057	7.76	213.76	0.650	0.000	4.00	16.303	10.60	82.3	0.0	1912.7
50.00		1.00	0.81	7.098	7.81	217.48	0.650	0.000	1.00	4.034	2.62	20.5	0.0	223.2
55.00		1.00	0.83	7.294	8.02	215.89	0.650	0.000	5.00	19.920	12.95	103.9	0.0	1102.0
60.00		1.00	0.85	7.477	8.22	213.97	0.650	0.000	5.00	19.503	12.68	104.3	0.0	1078.7
65.00		1.00	0.87	7.650	8.42	211.76	0.650	0.000	5.00	19.086	12.41	104.4	0.0	1055.4
70.00		1.00	0.89	7.814	8.60	209.29	0.650	0.000	5.00	18.670	12.14	104.3	0.0	1032.2
75.00		1.00	0.91	7.969	8.77	206.59	0.650	0.000	5.00	18.253	11.86	104.0	0.0	1008.9
80.00		1.00	0.93	8.118	8.93	203.69	0.650	0.000	5.00	17.836	11.59	103.5	0.0	985.6
85.00		1.00	0.94	8.260	9.09	200.60	0.650	0.000	5.00	17.419	11.32	102.9	0.0	962.3
86.50	Bot - Section 3	1.00	0.95	8.301	9.13	199.64	0.650	0.000	1.50	5.145	3.34	30.5	0.0	284.2
90.00		1.00	0.96	8.396	9.24	197.35	0.650	0.000	3.50	12.080	7.85	72.5	0.0	1227.8
91.75	Top - Section 2	1.00	0.96	8.442	9.29	196.17	0.650	0.000	1.75	5.963	3.88	36.0	0.0	605.9
95.00		1.00	0.97	8.526	9.38	197.70	0.650	0.000	3.25	10.940	7.11	66.7	0.0	518.7
100.00		1.00	0.99	8.652	9.52	194.18	0.650	0.000	5.00	16.486	10.72	102.0	0.0	781.5
105.00		1.00	1.00	8.774	9.65	190.53	0.650	0.000	5.00	16.069	10.45	100.8	0.0	761.5
110.00		1.00	1.02	8.891	9.78	186.76	0.650	0.000	5.00	15.653	10.17	99.5	0.0	741.6
115.00		1.00	1.03	9.005	9.91	182.88	0.650	0.000	5.00	15.236	9.90	98.1	0.0	721.6
120.00		1.00	1.04	9.115	10.03	178.89	0.650	0.000	5.00	14.819	9.63	96.6	0.0	701.7
125.00		1.00	1.05	9.222	10.14	174.81	0.650	0.000	5.00	14.402	9.36	95.0	0.0	681.7
130.00		1.00	1.07	9.326	10.26	170.63	0.650	0.000	5.00	13.986	9.09	93.3	0.0	661.8
131.25	Bot - Section 4	1.00	1.07	9.351	10.29	169.57	0.650	0.000	1.25	3.431	2.23	22.9	0.0	162.3
135.00		1.00	1.08	9.427	10.37	166.36	0.650	0.000	3.75	10.296	6.69	69.4	0.0	805.5
135.50	Top - Section 3	1.00	1.08	9.437	10.38	165.93	0.650	0.000	0.50	1.355	0.88	9.1	0.0	106.0
137.00	Appurtenance(s)	1.00	1.08	9.466	10.41	167.27	0.650	0.000	1.50	4.040	2.63	27.3	0.0	127.9
140.00		1.00	1.09	9.525	10.48	164.66	0.650	0.000	3.00	7.968	5.18	54.3	0.0	252.2
145.00		1.00	1.10	9.621	10.58	160.24	0.650	0.000	5.00	12.947	8.42	89.1	0.0	409.7
147.00	Appurtenance(s)	1.00	1.10	9.659	10.62	158.45	0.650	0.000	2.00	5.062	3.29	35.0	0.0	160.2
150.00		1.00	1.11	9.715	10.69	155.75	0.650	0.000	3.00	7.468	4.85	51.9	0.0	236.3
155.00		1.00	1.12	9.806	10.79	151.19	0.650	0.000	5.00	12.113	7.87	84.9	0.0	383.1
157.00	Appurtenance(s)	1.00	1.12	9.842	10.83	149.35	0.650	0.000	2.00	4.729	3.07	33.3	0.0	149.5
160.00		1.00	1.13	9.896	10.89	146.56	0.650	0.000	3.00	6.968	4.53	49.3	0.0	220.3
165.00		1.00	1.14	9.983	10.98	141.86	0.650	0.000	5.00	11.280	7.33	80.5	0.0	356.5
167.00	Appurtenance(s)	1.00	1.14	10.017	11.02	139.97	0.650	0.000	2.00	4.395	2.86	31.5	0.0	138.9
170.00		1.00	1.15	10.069	11.08	137.11	0.650	0.000	3.00	6.468	4.20	46.6	0.0	204.3
175.00		1.00	1.16	10.152	11.17	132.29	0.650	0.000	5.00	10.446	6.79	75.8	0.0	329.9
176.00	Appurtenance(s)	1.00	1.16	10.169	11.19	131.32	0.650	0.000	1.00	2.039	1.33	14.8	0.0	64.4

Wind Loading - Shaft

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 48



Totals:	176.00	3,389.5	34,212.9
----------------	---------------	----------------	-----------------

Discrete Appurtenance Forces

Structure: CT02216-S-SBA
Site Name: Glastonbury
Height: 176.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

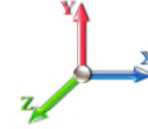
Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

9/12/2022
 Page: 49



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 25

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	176.00	KRY 112 489/2	3	10.185	11.204	0.50	0.75	0.98	46.20	0.000	1.000	10.98	0.00	10.98
2	176.00	MHA FE15501P77775	6	10.185	11.204	0.49	0.75	2.72	66.00	0.000	1.000	30.48	0.00	30.48
3	176.00	Lightning Rod	1	10.226	11.249	1.00	1.00	1.05	35.00	0.000	3.500	11.81	0.00	41.34
4	176.00	RMQP-496-HK	1	10.185	11.204	1.00	1.00	46.00	2449.00	0.000	1.000	515.38	0.00	515.38
5	176.00	4460 B25 + B66	3	10.185	11.204	0.50	0.75	2.47	216.00	0.000	1.000	27.70	0.00	27.70
6	176.00	KRY 112 89/4	3	10.185	11.204	0.50	0.75	0.98	46.20	0.000	1.000	10.98	0.00	10.98
7	176.00	AIR 6419 B41	3	10.185	11.204	0.52	0.75	10.28	399.60	0.000	1.000	115.23	0.00	115.23
8	176.00	APXVAALL24_43-U-NA20	3	10.185	11.204	0.55	0.75	33.24	368.40	0.000	1.000	372.46	0.00	372.46
9	176.00	4449 B71 + B85	3	10.185	11.204	0.50	0.75	2.97	219.60	0.000	1.000	33.27	0.00	33.27
10	167.00	Commscope	3	10.017	11.019	0.64	0.75	15.66	152.10	0.000	0.000	172.60	0.00	0.00
11	167.00	Commscope	3	10.017	11.019	0.62	0.75	15.09	131.10	0.000	0.000	166.27	0.00	0.00
12	167.00	APL868013	1	10.017	11.019	1.00	1.00	2.86	6.30	0.000	0.000	31.51	0.00	0.00
13	167.00	Samsung MT6407-77A	3	10.017	11.019	0.52	0.75	7.39	238.20	0.000	0.000	81.40	0.00	0.00
14	167.00	LPA-80063-4CF-EDIN-5	2	10.017	11.019	0.84	0.90	10.30	40.00	0.000	0.000	113.44	0.00	0.00
15	167.00	Low Profile	1	10.017	11.019	1.00	1.00	22.00	1500.00	0.000	0.000	242.42	0.00	0.00
16	167.00	KICKER KIT	1	10.017	11.019	1.00	1.00	5.33	146.00	0.000	0.000	58.73	0.00	0.00
17	167.00	B2/B66A RRH ORAN	3	10.017	11.019	0.50	0.75	2.82	253.20	0.000	0.000	31.06	0.00	0.00
18	167.00	B5/B13 RRH ORAN	3	10.017	11.019	0.50	0.75	2.82	210.90	0.000	0.000	31.06	0.00	0.00
19	167.00	CBRS RRH - RT4401-48A	3	10.017	11.019	0.50	0.75	1.49	55.80	0.000	0.000	16.45	0.00	0.00
20	167.00	Raycap	2	10.017	11.019	0.81	0.90	6.12	64.00	0.000	0.000	67.48	0.00	0.00
21	167.00	MONOPOLE COLLAR	1	10.017	11.019	1.00	1.00	2.50	150.60	0.000	0.000	27.55	0.00	0.00
22	167.00	SUPPORT RAIL CORNER	1	10.017	11.019	1.00	1.00	8.75	430.00	0.000	0.000	96.42	0.00	0.00
23	157.00	ALU TD-RRH8x20-25	3	9.842	10.827	0.54	0.80	6.51	210.00	0.000	0.000	70.51	0.00	0.00
24	157.00	ALU 800 Mhz	6	9.842	10.827	0.54	0.80	8.01	318.00	0.000	0.000	86.70	0.00	0.00
25	157.00	ALU 1900 Mhz	3	9.842	10.827	0.54	0.80	4.45	180.00	0.000	0.000	48.22	0.00	0.00
26	157.00	Sitepro PRK-1245L	1	9.842	10.827	1.00	1.00	9.50	464.91	0.000	0.000	102.85	0.00	0.00
27	157.00	RFS APXVTM14-C-I20	3	9.842	10.827	0.62	0.80	11.72	168.60	0.000	0.000	126.85	0.00	0.00
28	157.00	Commscope	3	9.842	10.827	0.60	0.80	22.09	232.20	0.000	0.000	239.11	0.00	0.00
29	157.00	Low Profile Platform	1	9.842	10.827	1.00	1.00	22.00	1500.00	0.000	0.000	238.18	0.00	0.00
30	157.00	Sitepro HRK14-U	1	9.842	10.827	1.00	1.00	8.13	302.36	0.000	0.000	88.02	0.00	0.00
31	157.00	Sitepro PRK-SFS-H-L	1	9.842	10.827	1.00	1.00	6.70	230.00	0.000	0.000	72.54	0.00	0.00
32	147.00	RDIDC-9181-PF-48	1	9.659	10.625	1.00	1.00	2.01	21.90	0.000	0.000	21.36	0.00	0.00
33	147.00	TA08025-B604	3	9.659	10.625	0.50	0.75	2.95	191.70	0.000	0.000	31.39	0.00	0.00
34	147.00	TA08025-B605	3	9.659	10.625	0.50	0.75	2.95	225.00	0.000	0.000	31.39	0.00	0.00
35	147.00	MC-PK8-DSH	1	9.659	10.625	1.00	1.00	37.59	1727.00	0.000	0.000	399.39	0.00	0.00
36	147.00	MX08FRO665-21	3	9.659	10.625	0.55	0.75	20.80	193.50	0.000	0.000	220.95	0.00	0.00
37	137.00	B2 B66A 8843	3	9.466	10.413	0.50	0.75	2.47	210.00	0.000	0.000	25.74	0.00	0.00
38	137.00	4449 B5/B12	3	9.466	10.413	0.50	0.75	2.97	213.00	0.000	0.000	30.92	0.00	0.00
39	137.00	DC6-48-60-18-8F	1	9.466	10.413	1.00	1.00	1.47	32.80	0.000	0.000	15.31	0.00	0.00
40	137.00	7770.00	3	9.466	10.413	0.55	0.75	9.03	105.00	0.000	0.000	94.07	0.00	0.00
41	137.00	DMP65R-BU6DA	3	9.466	10.413	0.54	0.75	20.59	238.20	0.000	0.000	214.41	0.00	0.00
42	137.00	HRK14	1	9.466	10.413	1.00	1.00	8.13	302.36	0.000	0.000	84.66	0.00	0.00
43	137.00	LP Platform-Round	1	9.466	10.413	1.00	1.00	22.00	1500.00	0.000	0.000	229.09	0.00	0.00
44	137.00	LGP21401	6	9.466	10.413	0.50	0.75	3.89	114.00	0.000	0.000	40.50	0.00	0.00
45	137.00	LGP21903	6	9.466	10.413	0.50	0.75	0.81	30.00	4.341	0.000	8.48	36.79	0.00
46	137.00	HPA-65R-BUU-H6	3	9.466	10.413	0.64	0.75	18.47	153.00	0.000	0.000	192.38	0.00	0.00
47	137.00	7020	12	9.466	10.413	0.50	0.75	2.41	26.40	0.000	0.000	25.12	0.00	0.00

Discrete Appurtenance Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 50



48	137.00	Smart Bias T 1001940	3	9.466	10.413	0.50	0.75	0.14	6.00	7.041	0.000	1.41	9.95	0.00
Totals:											16,120.13	5,004.23		

Total Applied Force Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

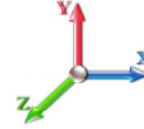


Page: 51

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 25

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		103.93	1704.42	0.00	0.00
10.00		102.10	1677.82	0.00	0.00
15.00		100.28	1651.23	0.00	0.00
20.00		98.45	1624.63	0.00	0.00
25.00		96.62	1598.03	0.00	0.00
30.00		94.88	1571.43	0.00	0.00
35.00		97.24	1544.84	0.00	0.00
40.00		99.04	1518.24	0.00	0.00
42.75		54.65	823.69	0.00	0.00
45.00		45.73	1181.90	0.00	0.00
49.00		82.26	2076.22	0.00	0.00
50.00		20.47	264.06	0.00	0.00
55.00		103.88	1306.33	0.00	0.00
60.00		104.27	1283.06	0.00	0.00
65.00		104.40	1259.79	0.00	0.00
70.00		104.31	1236.52	0.00	0.00
75.00		104.01	1213.24	0.00	0.00
80.00		103.52	1189.97	0.00	0.00
85.00		102.87	1166.70	0.00	0.00
86.50		30.53	345.47	0.00	0.00
90.00		72.51	1370.81	0.00	0.00
91.75		36.00	677.47	0.00	0.00
95.00		66.69	651.49	0.00	0.00
100.00		101.99	985.83	0.00	0.00
105.00		100.81	965.88	0.00	0.00
110.00		99.51	945.94	0.00	0.00
115.00		98.09	925.99	0.00	0.00
120.00		96.58	906.04	0.00	0.00
125.00		94.96	886.09	0.00	0.00
130.00		93.25	866.14	0.00	0.00
131.25		22.94	213.42	0.00	0.00
135.00		69.40	958.77	0.00	0.00
135.50		9.14	126.42	0.00	0.00
137.00	(45) attachments	989.43	3119.97	46.74	0.00
140.00		54.27	334.52	0.00	0.00
145.00		89.06	546.89	0.00	0.00
147.00	(11) attachments	739.44	2574.13	0.00	0.00
150.00		51.87	315.56	0.00	0.00
155.00		84.93	515.29	0.00	0.00
157.00	(22) attachments	1106.26	3808.46	0.00	0.00
160.00		49.30	291.68	0.00	0.00
165.00		80.51	475.50	0.00	0.00
167.00	(27) attachments	1167.88	3564.68	0.00	0.00
170.00		46.56	249.32	0.00	0.00
175.00		75.83	404.90	0.00	0.00
176.00	(26) attachments	1143.11	3925.38	0.00	1157.81

Total Applied Force Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 52

Totals:	8,393.77	56,844.19	46.74	1,157.81
----------------	-----------------	------------------	--------------	-----------------

Linear Appurtenance Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 53

Load Case: 1.0D + 1.0W 60 mph Wind	Iterations 25
Dead Load Factor 1.00	
Wind Load Factor 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	6.129	0.00	1.37
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	6.129	0.00	5.20
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	6.129	0.00	1.37
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	6.129	0.00	5.20
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.018	0.000	6.129	0.00	1.37
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.018	0.000	6.129	0.00	5.20
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	6.129	0.00	1.37
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	6.129	0.00	5.20
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	6.129	0.00	1.37
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	6.129	0.00	5.20
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.019	0.000	6.134	0.00	1.37
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.019	0.000	6.134	0.00	5.20
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	6.410	0.00	1.37
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	6.410	0.00	5.20
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	6.659	0.00	1.37
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	6.659	0.00	5.20
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.021	0.000	6.787	0.00	0.75
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.021	0.000	6.787	0.00	2.86
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.021	0.000	6.887	0.00	0.61
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.63	0.12	0.00	0.021	0.000	6.887	0.00	2.34
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.021	0.000	7.057	0.00	1.09
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.021	0.000	7.057	0.00	4.16
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.021	0.000	7.098	0.00	0.27
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.021	0.000	7.098	0.00	1.04
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	7.294	0.00	1.37
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	7.294	0.00	5.20
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	7.477	0.00	1.37
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	7.477	0.00	5.20
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	7.650	0.00	1.37
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	7.650	0.00	5.20
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	7.814	0.00	1.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	7.814	0.00	5.20
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	7.969	0.00	1.37
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	7.969	0.00	5.20
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	8.118	0.00	1.37
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	8.118	0.00	5.20
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	8.260	0.00	1.37
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	8.260	0.00	5.20
86.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.025	0.000	8.301	0.00	0.41
86.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.025	0.000	8.301	0.00	1.56
90.00	Safety Cable	Yes	3.50	0.000	0.38	0.11	0.00	0.025	0.000	8.396	0.00	0.96
90.00	Step bolts (ladder)	Yes	3.50	0.000	0.63	0.18	0.00	0.025	0.000	8.396	0.00	3.64
91.75	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.025	0.000	8.442	0.00	0.48
91.75	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.025	0.000	8.442	0.00	1.82
95.00	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.025	0.000	8.526	0.00	0.89
95.00	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.025	0.000	8.526	0.00	3.38
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	8.652	0.00	1.37

Linear Appurtenance Segment Forces (Factored)

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 54

Load Case: 1.0D + 1.0W 60 mph Wind	Iterations 25
Dead Load Factor 1.00	
Wind Load Factor 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	8.652	0.00	5.20
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	8.774	0.00	1.37
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	8.774	0.00	5.20
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	8.891	0.00	1.37
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	8.891	0.00	5.20
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	9.005	0.00	1.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	9.005	0.00	5.20
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	9.115	0.00	1.37
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	9.115	0.00	5.20
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	9.222	0.00	1.37
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	9.222	0.00	5.20
130.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	9.326	0.00	1.37
130.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	9.326	0.00	5.20
131.25	Safety Cable	Yes	1.25	0.000	0.38	0.04	0.00	0.031	0.000	9.351	0.00	0.34
131.25	Step bolts (ladder)	Yes	1.25	0.000	0.63	0.07	0.00	0.031	0.000	9.351	0.00	1.30
135.00	Safety Cable	Yes	3.75	0.000	0.38	0.12	0.00	0.031	0.000	9.427	0.00	1.02
135.00	Step bolts (ladder)	Yes	3.75	0.000	0.63	0.20	0.00	0.031	0.000	9.427	0.00	3.90
135.50	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.032	0.000	9.437	0.00	0.14
135.50	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.032	0.000	9.437	0.00	0.52
137.00	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.031	0.000	9.466	0.00	0.41
137.00	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.031	0.000	9.466	0.00	1.56
140.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.032	0.000	9.525	0.00	0.82
140.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.032	0.000	9.525	0.00	3.12
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.033	0.000	9.621	0.00	1.37
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.033	0.000	9.621	0.00	5.20
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.033	0.000	9.659	0.00	0.55
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.033	0.000	9.659	0.00	2.08
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.034	0.000	9.715	0.00	0.82
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.034	0.000	9.715	0.00	3.12
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.035	0.000	9.806	0.00	1.37
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.035	0.000	9.806	0.00	5.20
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.036	0.000	9.842	0.00	0.55
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.036	0.000	9.842	0.00	2.08
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.036	0.000	9.896	0.00	0.82
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.036	0.000	9.896	0.00	3.12
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.037	0.000	9.983	0.00	1.37
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.037	0.000	9.983	0.00	5.20
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.038	0.000	10.017	0.00	0.55
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.038	0.000	10.017	0.00	2.08
170.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.039	0.000	10.069	0.00	0.82
170.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.039	0.000	10.069	0.00	3.12
175.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.040	0.000	10.152	0.00	1.37
175.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.040	0.000	10.152	0.00	5.20
176.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.041	0.000	10.169	0.00	0.27
176.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.041	0.000	10.169	0.00	1.04
Totals:											0.0	231.1

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 55

Load Case: 1.0D + 1.0W 60 mph Wind	Iterations 25
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	-56.84	-8.42	-0.05	-1151.3	0.00	1151.32	6372.54	3186.27	14661.2	7341.49	0.00	0.000	0.000	0.166
5.00	-55.13	-8.36	-0.05	-1109.2	0.00	1109.24	6292.68	3146.34	14220.7	7120.95	0.02	-0.046	0.000	0.165
10.00	-53.45	-8.30	-0.05	-1067.4	0.00	1067.46	6211.66	3105.83	13784.2	6902.39	0.10	-0.092	0.000	0.163
15.00	-51.79	-8.23	-0.05	-1025.9	0.00	1025.99	6129.50	3064.75	13351.9	6685.89	0.22	-0.139	0.000	0.162
20.00	-50.16	-8.17	-0.05	-984.82	0.00	984.82	6046.18	3023.09	12923.8	6471.51	0.39	-0.186	0.000	0.160
25.00	-48.55	-8.11	-0.05	-943.95	0.00	943.95	5961.72	2980.86	12500.0	6259.33	0.61	-0.235	0.000	0.159
30.00	-46.97	-8.05	-0.05	-903.39	0.00	903.39	5876.11	2938.05	12080.8	6049.42	0.88	-0.284	0.000	0.157
35.00	-45.42	-7.98	-0.05	-863.14	0.00	863.14	5789.35	2894.67	11666.3	5841.84	1.21	-0.334	0.000	0.156
40.00	-43.90	-7.91	-0.05	-823.22	0.00	823.22	5679.25	2839.63	11212.8	5614.75	1.58	-0.384	0.000	0.154
42.75	-43.07	-7.87	-0.05	-801.48	0.00	801.48	5615.38	2807.69	10960.7	5488.51	1.81	-0.412	0.000	0.154
45.00	-41.89	-7.83	-0.05	-783.78	0.00	783.78	5563.11	2781.56	10756.6	5386.29	2.01	-0.436	0.000	0.153
49.00	-39.81	-7.75	-0.05	-752.44	0.00	752.44	4756.80	2378.40	9239.06	4626.40	2.39	-0.477	0.000	0.171
50.00	-39.54	-7.75	-0.05	-744.69	0.00	744.69	4742.51	2371.25	9172.60	4593.12	2.50	-0.488	0.000	0.170
55.00	-38.23	-7.68	-0.05	-705.92	0.00	705.92	4670.33	2335.16	8842.49	4427.82	3.04	-0.544	0.000	0.168
60.00	-36.94	-7.60	-0.05	-667.54	0.00	667.54	4597.00	2298.50	8516.13	4264.39	3.64	-0.601	0.000	0.165
65.00	-35.67	-7.51	-0.05	-629.56	0.00	629.56	4522.52	2261.26	8193.68	4102.93	4.30	-0.658	0.000	0.161
70.00	-34.43	-7.43	-0.05	-591.99	0.00	591.99	4446.89	2223.45	7875.26	3943.48	5.02	-0.715	0.000	0.158
75.00	-33.21	-7.34	-0.05	-554.85	0.00	554.85	4354.69	2177.34	7534.33	3772.77	5.80	-0.773	0.000	0.155
80.00	-32.01	-7.25	-0.05	-518.14	0.00	518.14	4253.06	2126.53	7185.02	3597.85	6.64	-0.831	0.000	0.152
85.00	-30.84	-7.15	-0.05	-481.87	0.00	481.87	4151.43	2075.72	6843.99	3427.08	7.54	-0.888	0.000	0.148
86.50	-30.50	-7.13	-0.05	-471.14	0.00	471.14	4120.95	2060.47	6743.30	3376.66	7.82	-0.906	0.000	0.147
90.00	-29.12	-7.06	-0.05	-446.17	0.00	446.17	4049.81	2024.90	6511.26	3260.47	8.50	-0.947	0.000	0.144
91.75	-28.44	-7.02	-0.05	-433.82	0.00	433.82	3441.70	1720.85	5608.94	2808.64	8.85	-0.968	0.000	0.163
95.00	-27.79	-6.97	-0.05	-411.00	0.00	411.00	3401.05	1700.53	5452.51	2730.31	9.52	-1.006	0.000	0.159
100.00	-26.79	-6.88	-0.05	-376.15	0.00	376.15	3337.56	1668.78	5214.58	2611.16	10.61	-1.068	0.000	0.152
105.00	-25.82	-6.79	-0.05	-341.76	0.00	341.76	3272.92	1636.46	4980.08	2493.74	11.76	-1.129	0.000	0.145
110.00	-24.87	-6.69	-0.05	-307.83	0.00	307.83	3194.68	1597.34	4730.71	2368.87	12.98	-1.189	0.000	0.138
115.00	-23.94	-6.60	-0.05	-274.37	0.00	274.37	3107.57	1553.79	4474.96	2240.81	14.25	-1.248	0.000	0.130
120.00	-23.03	-6.50	-0.05	-241.37	0.00	241.37	3020.47	1510.23	4226.32	2116.30	15.59	-1.304	0.000	0.122
125.00	-22.14	-6.41	-0.05	-208.85	0.00	208.85	2933.36	1466.68	3984.78	1995.35	16.98	-1.357	0.000	0.112
130.00	-21.28	-6.31	-0.05	-176.80	0.00	176.80	2846.25	1423.13	3750.35	1877.96	18.43	-1.407	0.000	0.102
131.25	-21.06	-6.29	-0.05	-168.92	0.00	168.92	2824.47	1412.24	3692.86	1849.17	18.80	-1.420	0.000	0.099
135.00	-20.10	-6.20	-0.05	-145.34	0.00	145.34	2759.14	1379.57	3523.03	1764.13	19.93	-1.454	0.000	0.090
135.50	-19.97	-6.19	-0.05	-142.24	0.00	142.24	1734.08	867.04	2260.78	1132.07	20.09	-1.458	0.000	0.137
137.00	-16.88	-5.13	0.00	-132.96	0.00	132.96	1723.43	861.72	2225.81	1114.56	20.55	-1.471	0.000	0.129
140.00	-16.54	-5.08	0.00	-117.57	0.00	117.57	1701.83	850.91	2156.25	1079.73	21.48	-1.506	0.000	0.119
145.00	-15.99	-4.98	0.00	-92.18	0.00	92.18	1664.90	832.45	2041.54	1022.29	23.09	-1.556	0.000	0.100
147.00	-13.44	-4.18	0.00	-82.21	0.00	82.21	1649.80	824.90	1996.11	999.54	23.74	-1.575	0.000	0.090
150.00	-13.12	-4.13	0.00	-69.67	0.00	69.67	1626.81	813.41	1928.48	965.67	24.74	-1.600	0.000	0.080
155.00	-12.61	-4.03	0.00	-49.03	0.00	49.03	1587.58	793.79	1817.22	909.96	26.44	-1.635	0.000	0.062
157.00	-8.83	-2.82	0.00	-40.97	0.00	40.97	1571.57	785.79	1773.24	887.94	27.12	-1.647	0.000	0.052
160.00	-8.54	-2.76	0.00	-32.51	0.00	32.51	1547.20	773.60	1707.88	855.21	28.16	-1.662	0.000	0.044
165.00	-8.07	-2.67	0.00	-18.69	0.00	18.69	1505.67	752.84	1600.62	801.50	29.92	-1.681	0.000	0.029
167.00	-4.54	-1.40	0.00	-13.35	0.00	13.35	1488.74	744.37	1558.33	780.32	30.62	-1.686	0.000	0.020
170.00	-4.29	-1.35	0.00	-9.15	0.00	9.15	1462.99	731.50	1495.57	748.90	31.68	-1.692	0.000	0.015
175.00	-3.89	-1.26	0.00	-2.42	0.00	2.42	1411.70	705.85	1385.55	693.80	33.46	-1.697	0.000	0.006
176.00	0.00	-1.14	0.00	-1.16	0.00	1.16	1400.09	700.04	1362.73	682.38	33.81	-1.697	0.000	0.002

Calculated Forces

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 56



Final Analysis Summary

Structure: CT02216-S-SBA	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 57

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	35.2	0.00	68.15	0.00	0.12	4861.42
0.9D + 1.6W 97 mph Wind	35.2	0.00	51.10	0.00	0.12	4776.07
1.2D + 1.0Di + 1.0Wi 50 mph Wind	10.8	0.00	117.48	0.00	0.11	1582.91
1.2D + 1.0E	3.0	0.00	68.21	0.00	0.00	428.76
0.9D + 1.0E	3.0	0.00	51.16	0.00	0.00	420.67
1.0D + 1.0W 60 mph Wind	8.4	0.00	56.84	0.00	0.05	1151.32

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	-46.71	-32.71	-0.12	-3185.3	0.00	-3185.3	4756.80	2378.4	9239.06	4626.40	49.00	0.699
0.9D + 1.6W 97 mph Wind	-34.78	-32.26	-0.12	-3112.4	0.00	-3112.4	4756.80	2378.4	9239.06	4626.40	49.00	0.680
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-90.20	-10.45	-0.11	-1058.6	0.00	-1058.6	4756.80	2378.4	9239.06	4626.40	49.00	0.248
1.2D + 1.0E	-24.13	-2.43	0.00	-77.86	0.00	-77.86	1734.08	867.04	2260.78	1132.07	135.50	0.083
0.9D + 1.0E	-18.09	-2.37	0.00	-76.12	0.00	-76.12	1734.08	867.04	2260.78	1132.07	135.50	0.078
1.0D + 1.0W 60 mph Wind	-39.81	-7.75	-0.05	-752.44	0.00	-752.44	4756.80	2378.4	9239.06	4626.40	49.00	0.171

Base Plate Summary

Structure: CT02216-S-SB	Code: TIA-222-G	9/12/2022
Site Name: Glastonbury	Exposure: B	
Height: 176.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 58



Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 50.00	Bolt Circle: 64.00
Moment (kip-ft): 5100.00	Width (in): 66.00	Number Bolts: 24.00
Axial (kip): 47.00	Style: Clipped	Bolt Type: 2.25" 18J
Shear (kip): 38.00	Polygon Sides: 0.00	Bolt Diameter (in): 2.25
Analysis (1.2D + 1.6W)	Clip Length (in): 16.00	Yield (ksi): 75.00
Moment (kip-ft): 4861.42	Effective Len (in): 7.55	Ultimate (ksi): 100.00
Axial (kip): 68.15	Moment (kip-in): 584.13	Arrangement: Clustered
Shear (kip): 35.22	Allow Stress (ksi): 67.50	Cluster Dist (in): 6.00
	Applied Stress (ksi): 51.30	Start Angle (deg): 45.00
	Stress Ratio: 0.76	Compression
		Force (kip): 156.81
		Allowable (kip): 260.00
		Ratio: 0.61
		Tension
		Force (kip): 147.02
		Allowable (kip): 260.00
		Ratio: 0.58



Pier Foundation Design For Monopole			Date
			9/12/2022
Customer Name:	Verizon	EIA/TIA Standard:	TIA-222-G
Site Name:		Structure Height (Ft.):	176
Site Number:	CT02216-S-SBA	Engineer Name:	H. You
Engr. Number:	134073	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations	Monopole
Analysis	

Acceptable overstress (σ) = 5.0%

Structure Type:

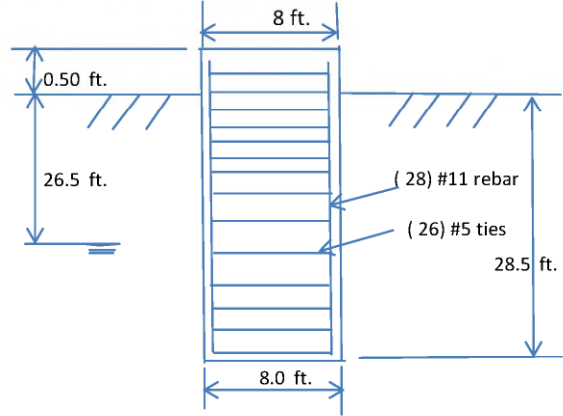
Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	68.2	Shear Force (Kips):	35.2
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4861.4

Foundation Geometries:

Diameter of Pier (ft.):	8.0	Depth of Base B. G. S. :	28.5 ft.
Pier Height A. G. (ft.):	0.50		



Monopole Pier Foundation

Material Properties and Rebar Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000 ksi
Vertical bar yield (ksi)	60	Tie steel yield strength:	40 ksi
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	5
Qty. of Vertical Rebars:	28	Tie Spacing:	18.0 in.
Concrete Cover (in.):	4	Concrete unit weight:	150.0 pcf

Soil Design Parameters:

Water Table B.G.S. (ft):	26.5	Unit weight of water:	62.4 psf
Ratio of Uplift/Axial Skin Friction:	1.0	Pullout failure Angle:	30 (°)
Skin Frictions are to be obtained from:		Soil Report	

Depth of Layers (ft)		γ_{soil} (pcf)	ϕ (°)	Cohesion (psf)	Ultimate Skin Friction (psf)	Ultimate Bearing (psf)	Soil Types					
Top	Bottom											
0.0	4.0	120	34	0	0	0	Sand					
4.0	9.0	120	33	0	0	0	Sand					
9.0	19.0	120	34	0	0	0	Sand					
19.0	26.5	125	36	0	0	0	Sand					
26.5	29.0	125	36	0	0	3000	Sand					
29.0	34.0											

Soil weight Increase Factor for bouyant soils (1.0 to 1.15): 1.1

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Soil Bearing Strength Reduction Factor:	0.75
Total Dry Soil Volume from Conical Failure (cu. Ft.):	13917	Dry Soil Weight from Conical Failure:	1690 Kips
Total Bouyant Soil Volume from Conical Failure (cu. Ft.):	32	Bouyant Soil Weight from Conical Failure (Kips):	0 Kips
Total Dry Concrete Volume (cu. Ft.):	1357	Total Dry Concrete Weight:	203.6 Kips
Total Bouyant Concrete Volume (cu. Ft.):	100.5	Total Bouyant Concrete Weight:	8.81 Kips
Total Effective Concrete Weight (Kips):	212.4	Total Effective Soil Weight:	1689.2 Kips
Total Effective Vertical Load on Base (Kips):	120.3		

Check Soil Capacities:

Allowable Foundation Overturning Resistance (kips-ft.):	14889.9	>	Design Factored Moment (kips-ft):	5571	Usage	0.37	OK!
Factor of Safety of Passive Soil Resistance against Moment:	2.67	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

Reinforcing Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	1.56	Tie / Stirrup Area (sq. in./each):	0.31	Usage	
Calculated Moment Capacity (Mn, Kips-Ft):	8183.2	>	Design Factored Moment (Mu, K-Ft):	4971.9	0.61 OK!
Calculated Shear Capacity (Kips):	1274.2	>	Design Factored Shear (Kips):	406.1	0.32 OK!
Calculated Tension Capacity (Tn, Kips):	2358.7	>	Design Factored Tension (Tu Kips):	0.0	0.00 OK!
Calculated Compression Capacity (Pn, Kips):	9540	>	Design Factored Axial Load (Pu Kips):	68.2	0.01 OK!
Moment & Axial Strength Combination:	0.61	OK!	Max. Allowable Tie/Stirrup Spacing:	12.00	in.
Pier Reinforcement Ratio:	0.006	Reinforcement Ratio is satisfied per ACI			



Maser Consulting Connecticut
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@colliersengineering.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10160182
Maser Consulting Connecticut: 22777014A

August 24, 2022

Site Information

Site ID: 468152-VZW / E GLASTONBURY 2 CT
Site Name: E GLASTONBURY 2 CT
Carrier Name: Verizon Wireless
Address: 175 Dickinson Rd.
Glastonbury, Connecticut 06033
Hartford County
Latitude: 41.655900°
Longitude: -72.523275°

Structure Information

Tower Type: 200-Ft Monopole
Mount Type: 14.00-Ft Platform

FUZE ID # 2559329

Analysis Results

Platform: 87.0% **Pass w/ Modifications***

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

***Contractor PMI Requirements:

Included at the end of this MA report

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

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Cody Sherman



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 323805, dated April 27, 2022</i>
<i>Mount Mapping Report</i>	<i>Tower Engineering Professionals, Site #: 468152, dated June 28, 2022</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting Project #: 22777014A, dated August 8, 2022</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Project #: 22777014A, dated August 24, 2022</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 119 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.983
Seismic Parameters:	S_s : 0.203 g S_1 : 0.056 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 mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
164.00	167.00	3	Commscope	NHH-65B-R2B	Added
		3	Commscope	NHHSS-65B-R2BT4	
		3	Samsung	MT6407-77A	
		3	Samsung	RF4440d-13A	
		3	Samsung	RF4439d-25A	
		3	Samsung	CBRS RRH - RT4401-48A	
		2	Raycap	DB-B1-6C-12AB-0Z	Retained
		2	Antel	LPA-80063-4CF-EDIN-4	
		1	RFS	APL868013	

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped 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
Proposed Support Rail	39.0%	Pass
Proposed Support Rail Angle	69.0%	Pass
Proposed Kicker	11.0%	Pass
Face Horizontal	87.0%	Pass
Standoff Horizontal	31.0%	Pass
Grating Angle	42.0%	Pass
Mount Pipes	68.0%	Pass
Mount Connection	31.6%	Pass
Structure Rating – (Controlling Utilization of all Components)		88.0%

BASELINE mount weight per SBA agreement: 1476.68 lbs

Increase in mount weight due to Verizon loading change per SBA agreement: 1149.00 lbs

The weights listed above include 3 sectors.

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	20.5	20.5	35.3	35.3
0.5	24.8	24.8	45.8	45.8
1	28.8	28.8	56.1	56.1

Notes:

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

Requirements:

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

Contractor shall re-route the existing safety climb wire rope, so that it is no longer trapped between the mount collar and the pole.

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

Attachments:

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



Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

PSLC #: 468152

SMART Project #: 10160182

Fuze Project ID: 2559329

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

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:

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

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

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

OR

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

Antenna & Equipment Placement and Geometry Confirmation:

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

OR

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

Comments:

Contractor shall re-route the existing safety climb wire rope guide, so that it is no longer trapped between the mount collar and the pole.

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:

Special Instruction Confirmation:

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

Comments:

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

- Yes No

Contractor certifies no new damage created during the current installation:

- Yes No

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

- Safety Climb in Good Condition Safety Climb Damaged

Comments:

--

Certifying Individual:

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

Sector: A
 Structure Type: Monopole
 Mount Elev: 164.00

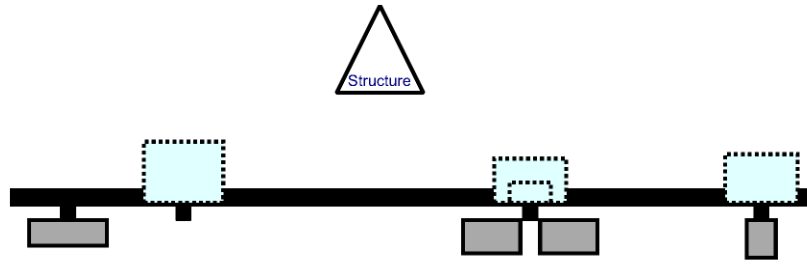
10160182

8/24/2022

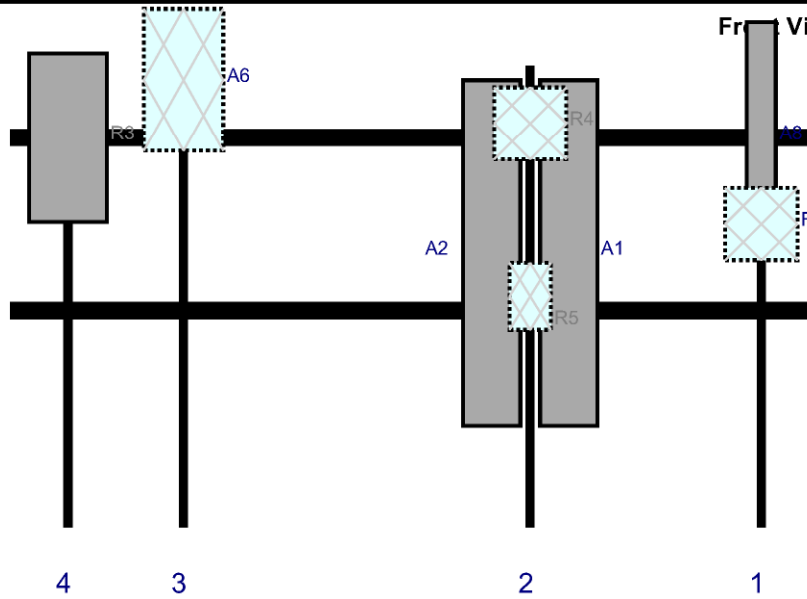
Page: 1



Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A8	APL868013	48	6	156	1	a	Front	15	0	Retained	06/28/2022
R9	RF4439d-25A	15	15	156	1	a	Behind	33	0	Added	
A1	NHH-65B-R2B	72	11.9	108	2	a	Front	39	8	Added	
A2	NHSS-65B-R2BT4	72	11.9	108	2	a	Front	39	-8	Added	
R4	RF4440d-13A	15	15	108	2	a	Behind	12	0	Added	
R5	CBRS RRH - RT4401-48A	13.9	8.6	108	2	a	Behind	48	0	Added	
A6	DB-B1-6C-12AB-0Z	29.5	16.5	36	3	a	Behind	3	0	Added	
R3	MT6407-77A	35.1	16.1	12	4	a	Front	15	0	Added	

Sector: B
 Structure Type: Monopole
 Mount Elev: 164.00

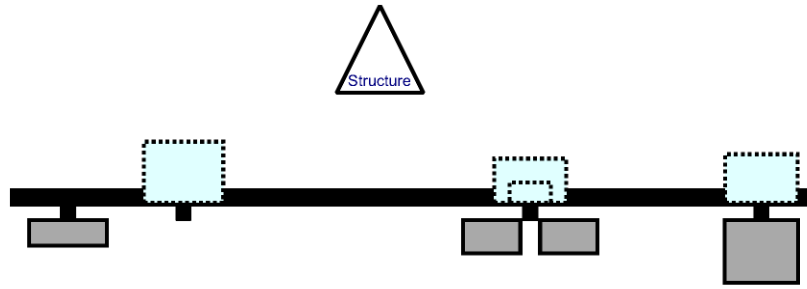
10160182

8/24/2022

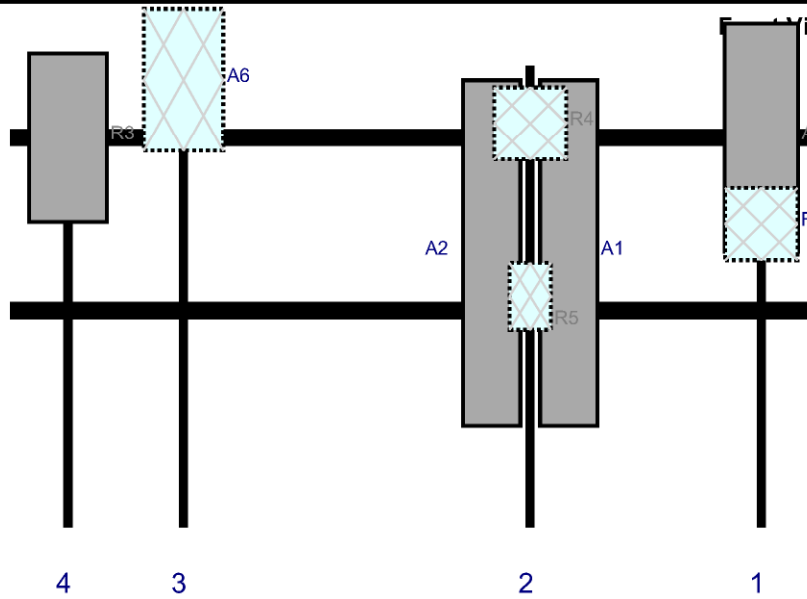
Page: 2



Plan View



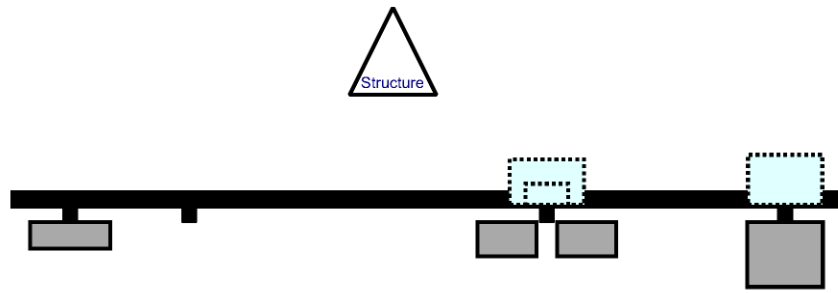
Side View - Looking at Structure



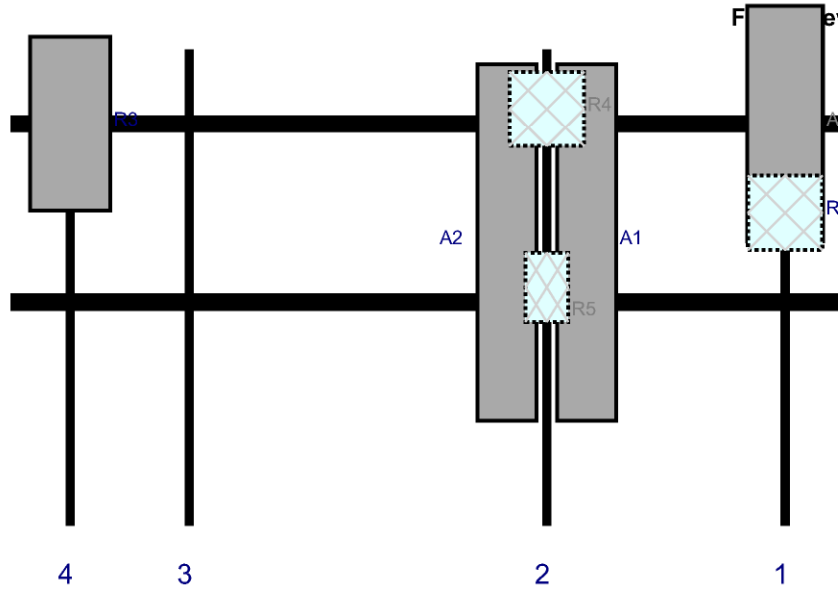
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	LPA-80063-4CF-EDIN-4	47.4	15.2	156	1	a	Front	15	0	Retained	06/28/2022
R9	RF4439d-25A	15	15	156	1	a	Behind	33	0	Added	
A1	NHH-65B-R2B	72	11.9	108	2	a	Front	39	8	Added	
A2	NHSS-65B-R2BT4	72	11.9	108	2	a	Front	39	-8	Added	
R4	RF4440d-13A	15	15	108	2	a	Behind	12	0	Added	
R5	CBRS RRH - RT4401-48A	13.9	8.6	108	2	a	Behind	48	0	Added	
A6	DB-B1-6C-12AB-0Z	29.5	16.5	36	3	a	Behind	3	0	Added	
R3	MT6407-77A	35.1	16.1	12	4	a	Front	15	0	Added	



Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	LPA-80063-4CF-EDIN-4	47.4	15.2	156	1	a	Front	15	0	Retained	06/28/2022
R9	RF4439d-25A	15	15	156	1	a	Behind	33	0	Added	
A1	NHH-65B-R2B	72	11.9	108	2	a	Front	39	8	Added	
A2	NHSS-65B-R2BT4	72	11.9	108	2	a	Front	39	-8	Added	
R4	RF4440d-13A	15	15	108	2	a	Behind	12	0	Added	
R5	CBRS RRH - RT4401-48A	13.9	8.6	108	2	a	Behind	48	0	Added	
R3	MT6407-77A	35.1	16.1	12	4	a	Front	15	0	Added	

NO.	AS SHOWN	REVISIONS	DATE	BY	CHKD	APP'D
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

COLLIERS ENGINEERING & DESIGN, INC. P.C.
175 DICKINSON RD.
GLASTONBURY, CT 06033

WE ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE PROFESSIONAL ENGINEER OR ARCHITECT. ANY INFORMATIONAL SERVICES ARE SUBJECT TO THE STANDARD TERMS AND CONDITIONS OF SERVICE.

SITE NAME:
E GLASTONBURY 2 CT
768152
175 DICKINSON RD.
GLASTONBURY CT 06033
HARTFORD COUNTY

STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
No. 10000
Name: [REDACTED]
Address: [REDACTED]
Phone: [REDACTED]
Date: [REDACTED]
Government Registration No.: [REDACTED]

DATE: 07/27/2016

PROJECT: MOUNT PHOTOS

DATE: 07/27/2016

SS-2



MOUNT PHOTO 2



MOUNT PHOTO 4



MOUNT PHOTO 1



MOUNT PHOTO 3

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-FLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGM-1.	291	291
1	VZWSMART	VZWSMART-FLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
3	VZWSMART	VZWSMART-P40-2385096	96" LONG, PIPE 2 SCH40 (2.375"OD X 0.154" THK)		29	87
12	VZWSMART	VZWSMART-MSK2	CROSSOVER PLATE		15	180
3	VZWSMART	VZWSMART-FLK3	SUPPORT RAIL CORNER BRACKET		30	90

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3			16Z GALV. LONG, PIPE 2 1/2 SCH40		78	234
3			30" LONG, L3X2X1/4	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGM-1.	15	45
6			8' LONG HSSX2X1/4		12	72
-			1/2" GR. 1 U-BOLTS		-	-

SECTION 3 - REQUIRED SAFETY CLIMB PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	PERFECT VISION	PV-SCRB-RPLU	ROUTING BRACKET	OR EOR APPROVED EQUAL. CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	-	-
1	PERFECT VISION	PV-CHK-CG-BO	ROUTING BRACKET	OR EOR APPROVED EQUAL. CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	-	-
TOTAL:						1149

NOTES:

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

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

VZWSMART KITS - APPROVED VENDORS

CONTACT	COMMSCOPE
CONTACT: SALVADOR ANGUIANO	CONTACT: KENT RAMEY
PHONE: (817) 304-7492	PHONE: (756) 335-7045 (O), (756) 982-9788 (M)
EMAIL: SALVADOR.ANGUIANO@COMMSCOPE.COM	EMAIL: KENT@METROSITELLC.COM
WEBSITE: WWW.COMMSCOPE.COM	WEBSITE: METROSITEFABRICATORS.COM

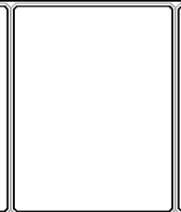
CONTACT	PERFECTVISION
CONTACT: WIRELESS SALES	CONTACT: WIRELESS SALES
PHONE: (844) 887-6723	PHONE: (844) 887-6723
EMAIL: WWW.PERFECTVISION.COM	EMAIL: WWW.PERFECTVISION.COM
WEBSITE: WIRELESSSALES@PERFECTVISION.COM	WEBSITE: WIRELESSSALES@PERFECTVISION.COM

CONTACT	SABRE INDUSTRIES, INC.
CONTACT: ANGIE WELCH	CONTACT: ANGIE WELCH
PHONE: (866) 528-6937	PHONE: (866) 528-6937
EMAIL: AKWELC@SABREINDUSTRIES.COM	EMAIL: AKWELC@SABREINDUSTRIES.COM
WEBSITE: WWW.SABRESOLUTIONS.COM	WEBSITE: WWW.SABRESOLUTIONS.COM

CONTACT	SITE PRO 1
CONTACT: PAULA BOSWELL	CONTACT: PAULA BOSWELL
PHONE: (972) 236-9843	PHONE: (972) 236-9843
EMAIL: PAULA.BOSWELL@VALMONT.COM	EMAIL: PAULA.BOSWELL@VALMONT.COM
WEBSITE: WWW.SITEPRO1.COM	WEBSITE: WWW.SITEPRO1.COM

CONTACT	BETTER METAL, LLC
CONTACT: DAVID STANSBERRY	CONTACT: DAVID STANSBERRY
PHONE: (615) 535-0990 (O), (615) 631-2520 (M)	PHONE: (615) 535-0990 (O), (615) 631-2520 (M)
EMAIL: DLS@BETTERMETAL.COM	EMAIL: DLS@BETTERMETAL.COM
WEBSITE: WWW.BETTERMETAL.COM	WEBSITE: WWW.BETTERMETAL.COM

Colliers Engineering & Design
www.colliersengineering.com
Doing business as **MASER**



AS SHOWN	27770 L&L				
REV	DATE	DESCRIPTION	BY	CHKD	DATE

COLLIERS ENGINEERING & DESIGN, CT, P.C.
175 DICKINSON RD.
GLASTONBURY, CT 06033
HARTFORD COUNTY

Colliers Engineering & Design
175 DICKINSON RD.
GLASTONBURY, CT 06033
HARTFORD COUNTY

CONTACT	BILL OF MATERIALS
PROJECT NUMBER:	SBOM-1

GENERAL NOTES

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

STRUCTURAL STEEL

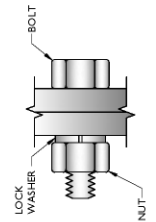
1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
 - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36)
 - STEEL PIPE ASTM A53 (GR 35)
 - BOLTS ASTM A563
 - LOCK WASHERS LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR EXISTING UTILITIES. THE PROTECTION SHALL BE SUITABLE FOR USE AND MEET ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE NOTED. BY MATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING REDESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - a. SUBMIT SHOP DRAWINGS TO PETER.ALMAN@COLLIERENGINEERING.COM
 - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT DIP GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-322-H SECTION 4.9.2 REQUIREMENTS.
9. 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.
11. 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.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT DIP GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REBAR CLEAN, REBAR BY COLD GALVANIZING (ZINCA OR ZINC COAT), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

BOLT SCHEDULE (IN.)

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

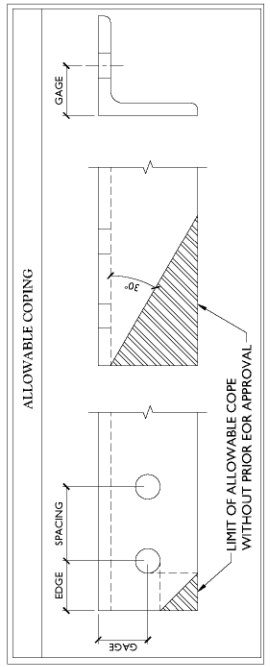
WORKABLE GAGES (IN.)

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



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

TYP. BOLT ASSEMBLY



Colliers Engineering & Design
www.colliersengineering.com
Doing business as MASER



811 Call before you dig
FOR A LIST OF CALL BEFORE YOU DIG NUMBERS VISIT WWW.CALL811.COM

NO.	AS SHOWN	BY	DATE	DESCRIPTION	DATE REVISION MADE
1 <td></td> <td></td> <td></td> <td></td> <td></td>					
2 <td></td> <td></td> <td></td> <td></td> <td></td>					
3 <td></td> <td></td> <td></td> <td></td> <td></td>					
4 <td></td> <td></td> <td></td> <td></td> <td></td>					

COLLIERS ENGINEERING & DESIGN, CT, P.C.
175 DICKINSON RD.
GLASTONBURY, CT 06033

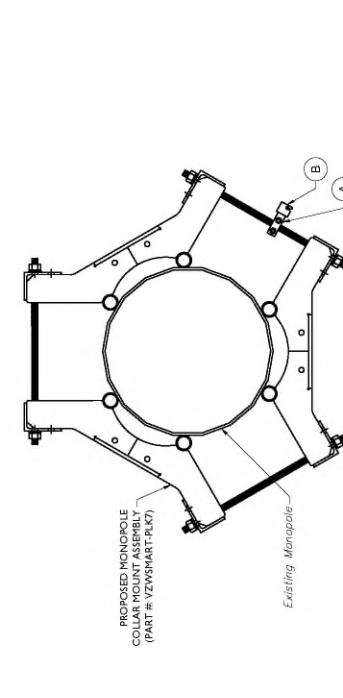
UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE PROFESSIONAL ENGINEER, THE FOLLOWING INDIVIDUALS ARE NOT TO BE CONSIDERED AS ENGINEERS:

SITE NAME:
E GLASTONBURY 2 CT
768152
175 DICKINSON RD.
GLASTONBURY, CT 06033
HARTFORD COUNTY

Colliers Engineering & Design
175 DICKINSON RD.
GLASTONBURY, CT 06033
PHONE: 203.338.8800
FAX: 203.338.8801
WWW.COLLIERSENGINEERING.COM

MODIFICATION NOTES
SGN-1

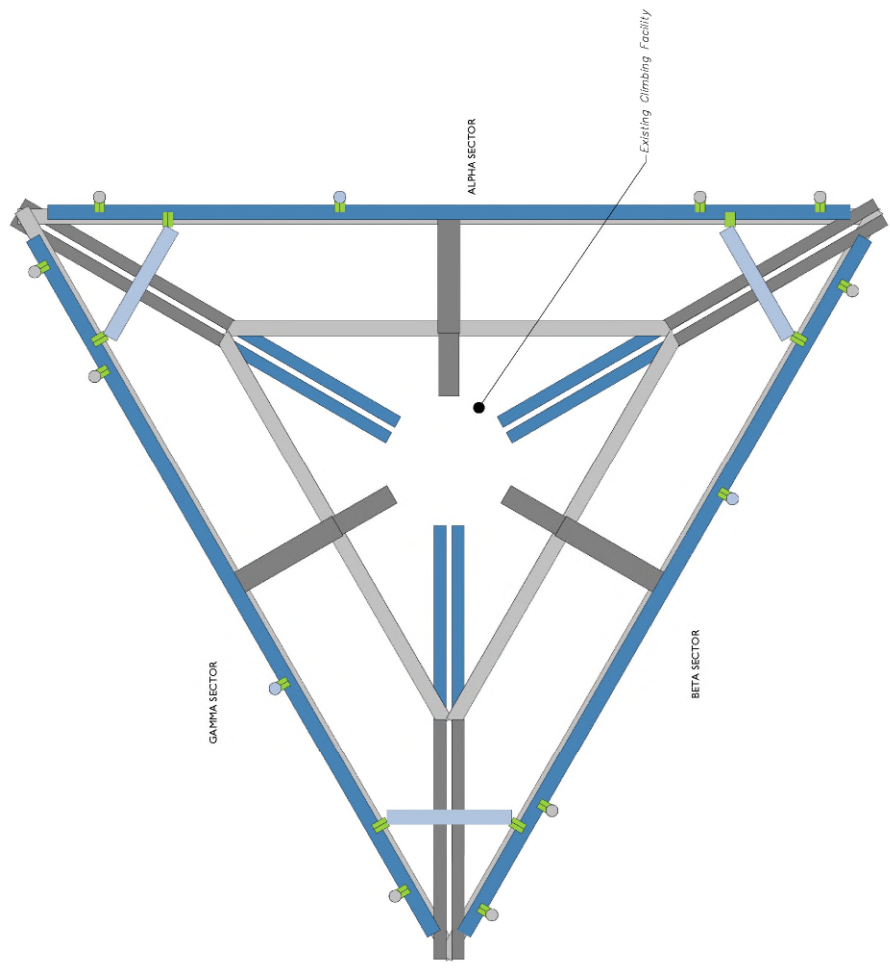
NOTED NOT SCALE DRAWINGS FOR CONSTRUCTION



ITEM #	QTY	PART NUMBER	DESCRIPTIONS
A	1	PV-SCRB-RM-U	WIRE ROPE GUIDE (PERFECT VISION OR EOR APPROVED EQ)
B	1	PV-CHK-CG-BO	WIRE ROPE GUIDE (PERFECT VISION OR EOR APPROVED EQ)

2 PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW
SCALE: 1/8" = 1'-0"

NOTE: CONTRACTOR SHALL ENSURE THAT WIRE ROPE GUIDE DOES NOT PUSH THE WIRE ROPE OUTSIDE OF THE VERTICAL PLANE OF THE SAFETY CLIMB. CONTRACTOR WITH PHOTOS OF SAFETY CLIMB AND COLLAR FOR FURTHER DIRECTION IF NEEDED.



1 CLIMBING FACILITY LOCATION
SCALE: 1/8" = 1'-0"

- STRUCTURAL NOTES:**
- PER THE MOUNT MAPPING COMPLETED BY TOWER ENGINEERING PROFESSIONALS ON 6/28/2022, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (164'-0") ARE IN GOOD CONDITION. COLLIER'S ENGINEERING & DESIGN DOES NOT WARRANT THIS INFORMATION.
 - INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



CLIMBING FACILITY PHOTO

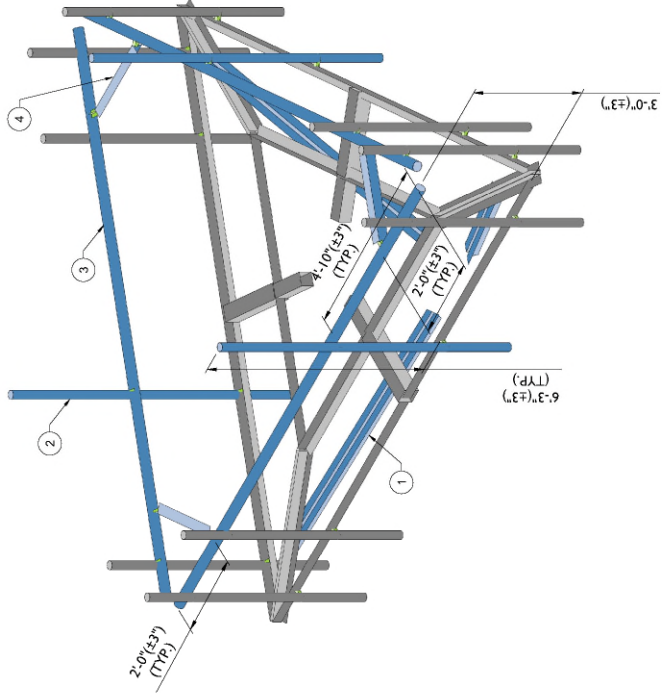
LEGEND:

- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

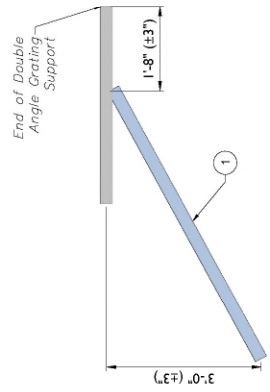
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1		1	PROPOSED KICKER KIT (PART #: VZWSMART-FLKS)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGN-1. CONNECT TO THE EXISTING ANCHORS WITH PROVIDED HARDWARE. UTILIZE THE PROVIDED LONG GRATING ANCHORS TO ATTACH TO EXISTING ANCHORS. TRIM GRATING AND RELOCATE EXISTING STITCH BOLTING AS NEEDED. SEE GENERAL NOTE A.
2	164'-0"	3	PROPOSED 96" LONG, PIPE 2 SCH40 (PART #: VZWSMART-P40-218X096)	REPLACE EXISTING MOUNT PIPE WITH NEW 96" LONG P2 SCH 40 PIPE. CONNECT TO THE EXISTING WELDED PLATE ON THE FACE HORIZONTAL WITH NEW 1/2" DIA. U-BOLTS. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO MAINTAIN THE 164'-0" ELEVATION. SEE GENERAL NOTE A.
3		3	162" LONG, PIPE 2 1/2 SCH40 FACE HORIZONTAL	EXISTING AND PROPOSED VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-HSK1).
4		3	30" LONG, L3x3x1/4	CONTRACTOR SHALL CONNECT PROPOSED ANGLES TO VZWSMART-PK3 SUPPORT RAIL CORNER BRACKETS USING THE PROVIDED (6) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.

GENERAL NOTES:
 A. THREADED ROD FROM PROPOSED KITS SHALL BE TRIMMED TO EXTEND NO MORE THAN 3" BEYOND THE LOCK NUT. TREAT ALL CUT ENDS WITH (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC NOTE).
 B. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



PROPOSED ISOMETRIC VIEW
SCALE: N.T.S.

1



PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)
SCALE: N.T.S.

2

Colliers Engineering & Design
 www.colliersengineering.com
 203-338-8800
 175 DICKINSON RD.
 GLASTONBURY, CT 06033



811
 Call before you dig
 1-800-4-A-SHOWN
 www.811.com

DATE	2/27/2014	
AS SHOWN	BY	
REV	DATE	DESCRIPTION

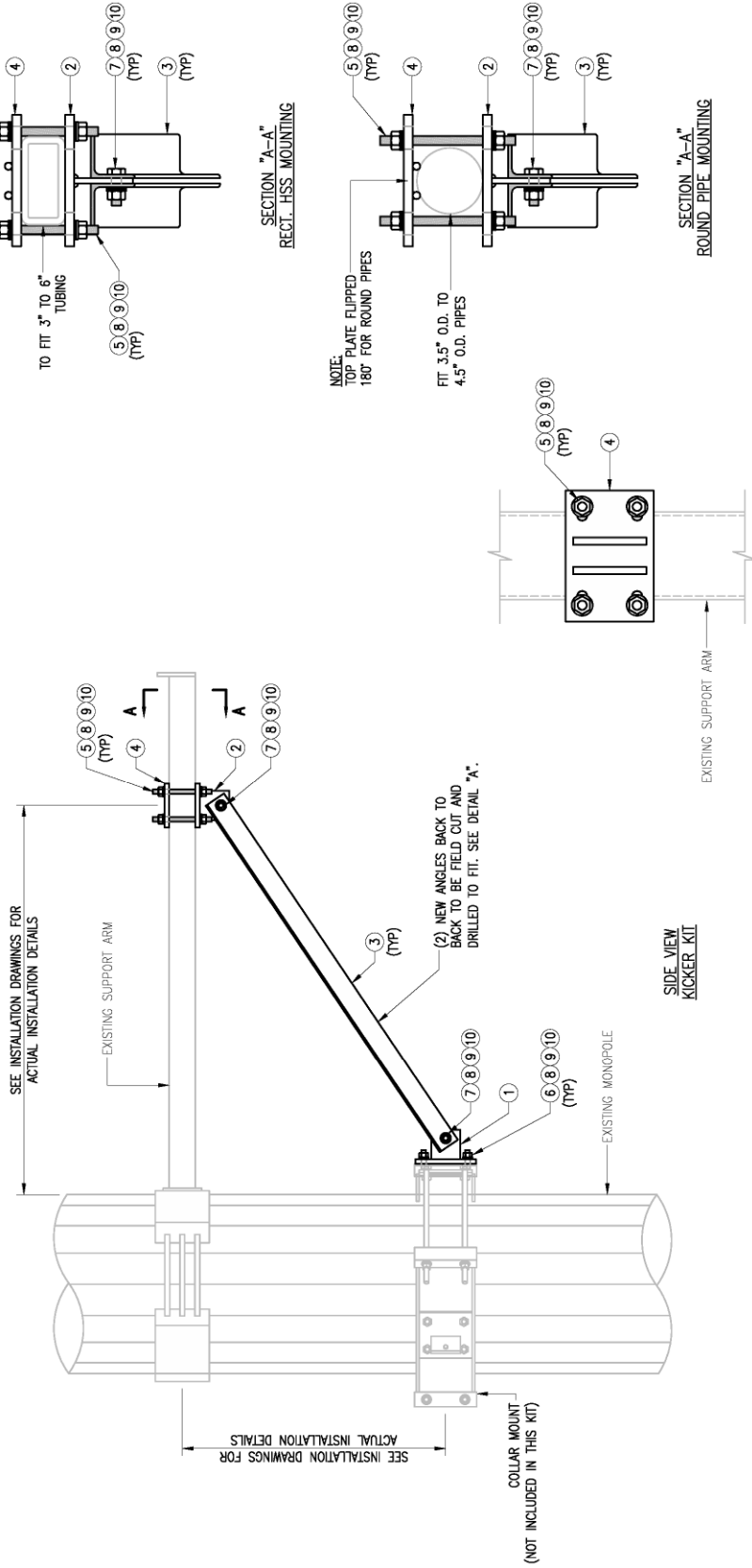
Colliers Engineering & Design, C.T., P.C.
 175 DICKINSON RD.
 GLASTONBURY, CT 06033

SITE NAME:
 E GLASTONBURY 2 CT
 768152
 175 DICKINSON RD.
 GLASTONBURY CT 06033
 HARTFORD COUNTY

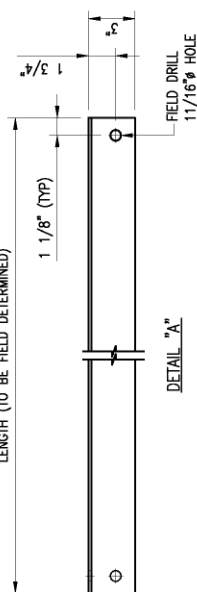
Colliers Engineering & Design
 203-338-8800
 175 DICKINSON RD.
 GLASTONBURY, CT 06033

MODIFICATION DETAILS
 SS-1

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



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



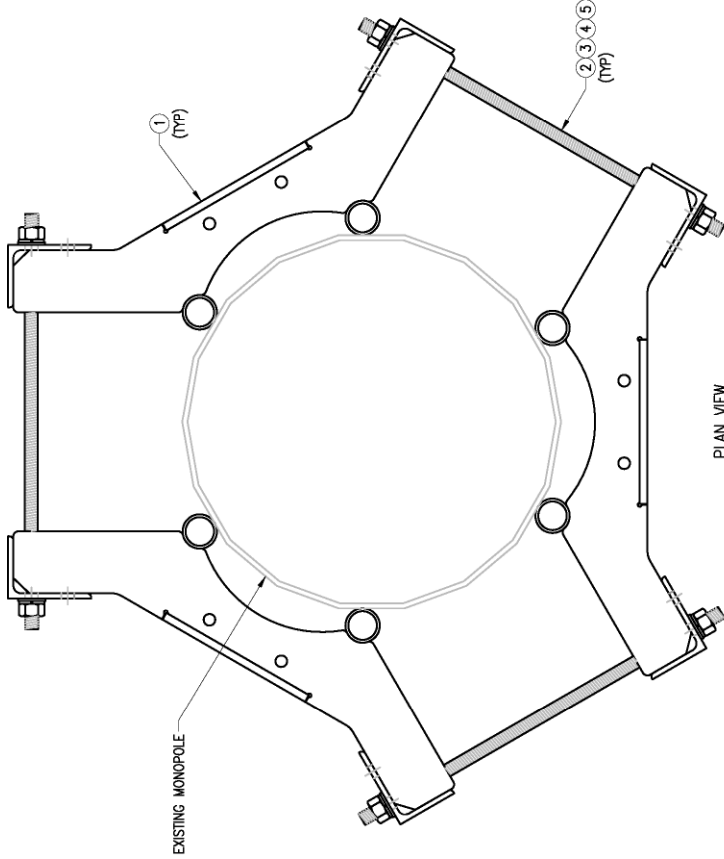
NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

VzW
 SMART Tool[®]
 Vendor

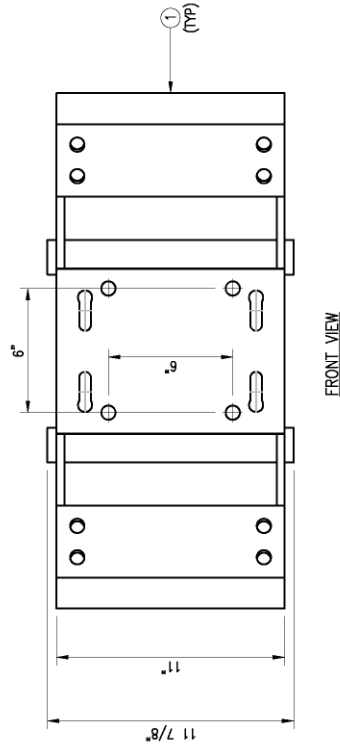


DRAWN BY: BT
 DESCRIPTION:
 CHECKED BY: HMA/SW
 DATE: 05/11/20

SHEET TITLE:
 VZSMART-PLK7
 MONOPOLE COLLAR
 MOUNT ASSEMBLY
 REV #:
 VZSMART-PLK7 0



PLAN VIEW
 MONOPOLE COLLAR MOUNT ASSEMBLY

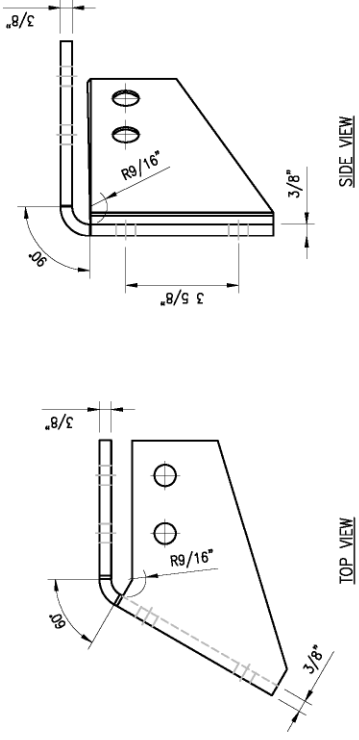
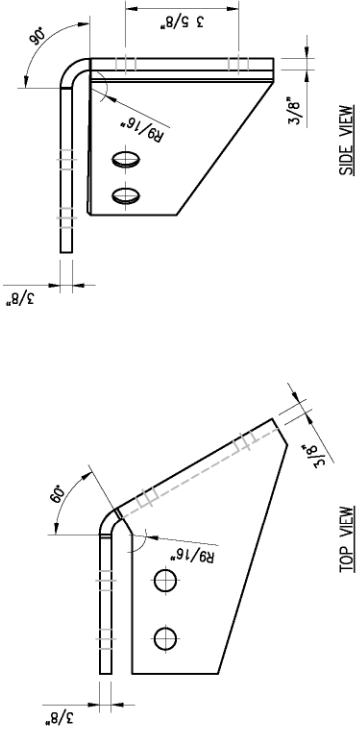


FRONT VIEW

VZSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	1.47
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	---
3	12	FW-625	5/8" HDC USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDC LOCK WASHER	---	0
5	12	NUT-625	5/8" HDC HEX NUT	---	1
				GALVANIZED	WT 150

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

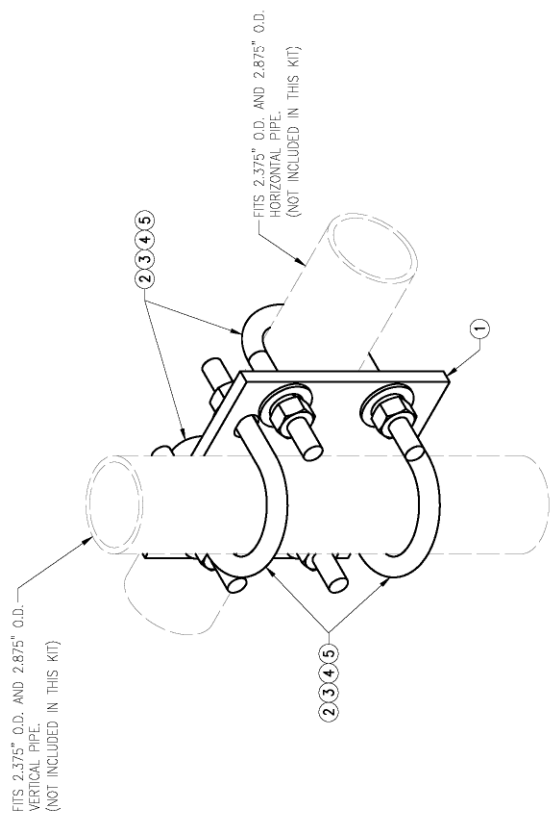
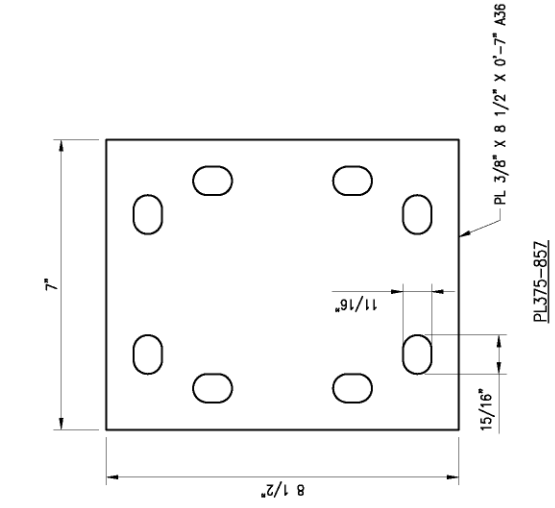


NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)						
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9	
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9	
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" LW X 5" I.L. A36 (OR EQUIV.)	RCC-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

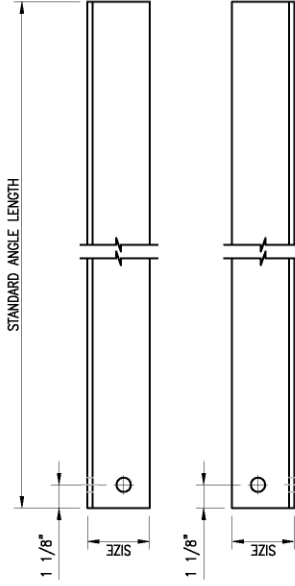
DRAWN BY: H.R.	CHECKED BY: H.M.
REV. DESCRIPTION	OR DATE
1. FIRST ISSUE	H.R. 05/08/20
△	
△	
△	
△	

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

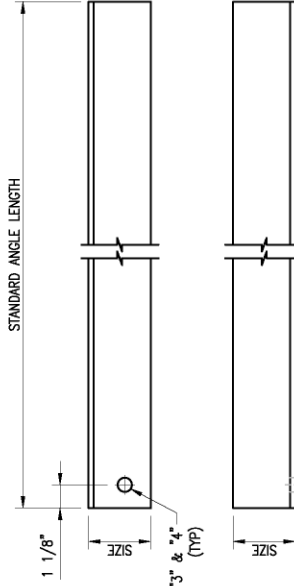


VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL-375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MSD2-625-300-500	RU-BOLT 5/8" X 3" LW X 5" LL A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUJ-625	5/8" HDG HEX NUT	---	1
				GALVANIZED	WT 14

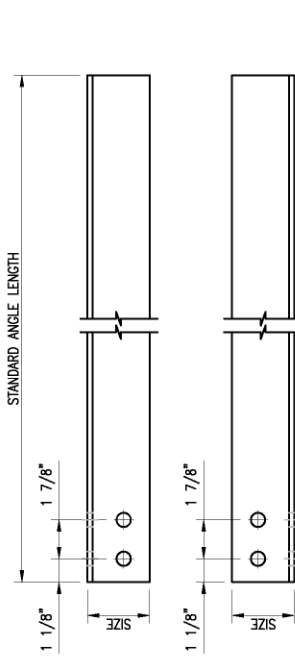
NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.



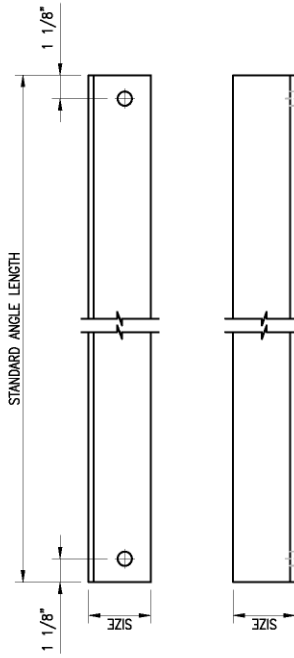
HOLE STYLE "B"



HOLE STYLE "D"



HOLE STYLE "A"



HOLE STYLE "C"

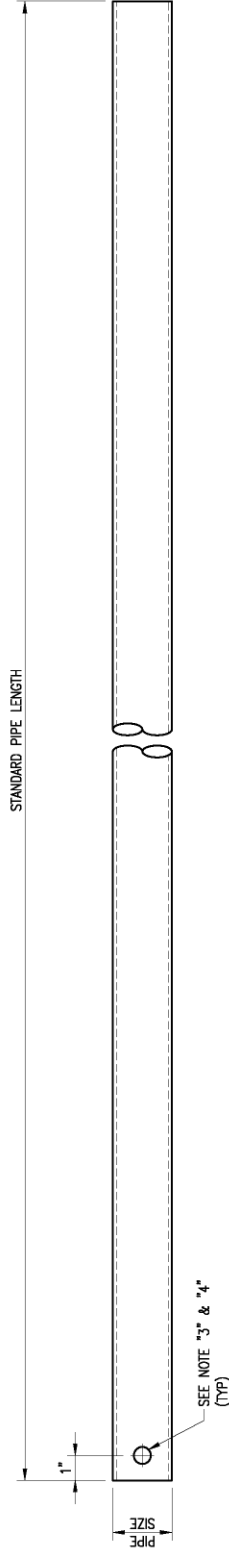
SEE NOTE "3" & "4"
(HP)

VZWSMART Standard Angle

VZWSMART Number	Size	Length	Hole Style	Hole Gauge	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, -PIK6, & -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"	

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 UNLO.
 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 MANUFACTURE'S RECOMMENDATIONS.



VZWSMART Standard Pipe		
VZWSMART 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. UNO.
 4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
 5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COATE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.



Observed Safety and Structural Issues During the Mount Mapping

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

Mapping Notes

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

Standard Conditions

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

SMART Tool [©] Vendor	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
				1222500
Tower Owner:	SBA	Mapping Date:	6/28/2022	
Site Name:	E GLASTONBURY 2 CT	Tower Type:	Monopole	
Site Number or ID:	468152	Tower Height (Ft.):		
Mapping Contractor:	TEP	Mount Elevation (Ft.):	174	

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

E. Glastonbury Ct.
VIEW MM

Kenneth
Noah
Combo: 4722
7-8-22

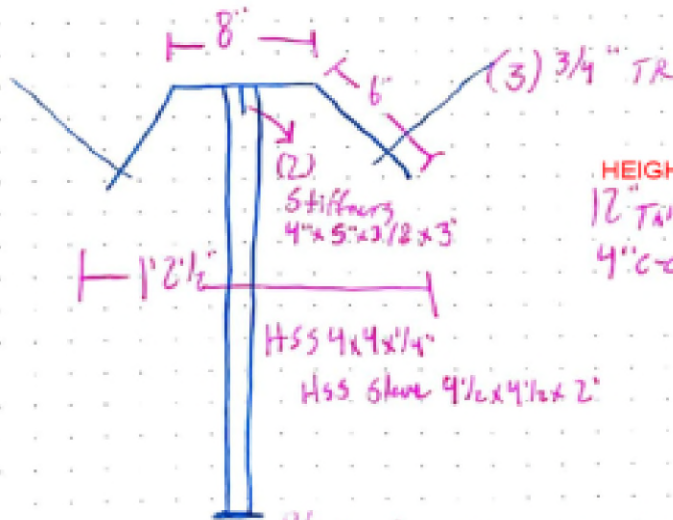
Collar E: 174

~~ANT E: 177~~ ANT E: 177

Coax: (12) 2" Ø FH (1) 5/8" Ø FH

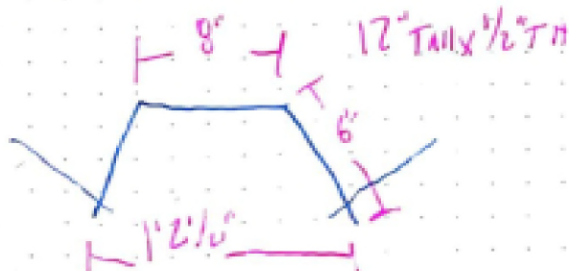
A Face AZ: 5°

Collar w/Arms



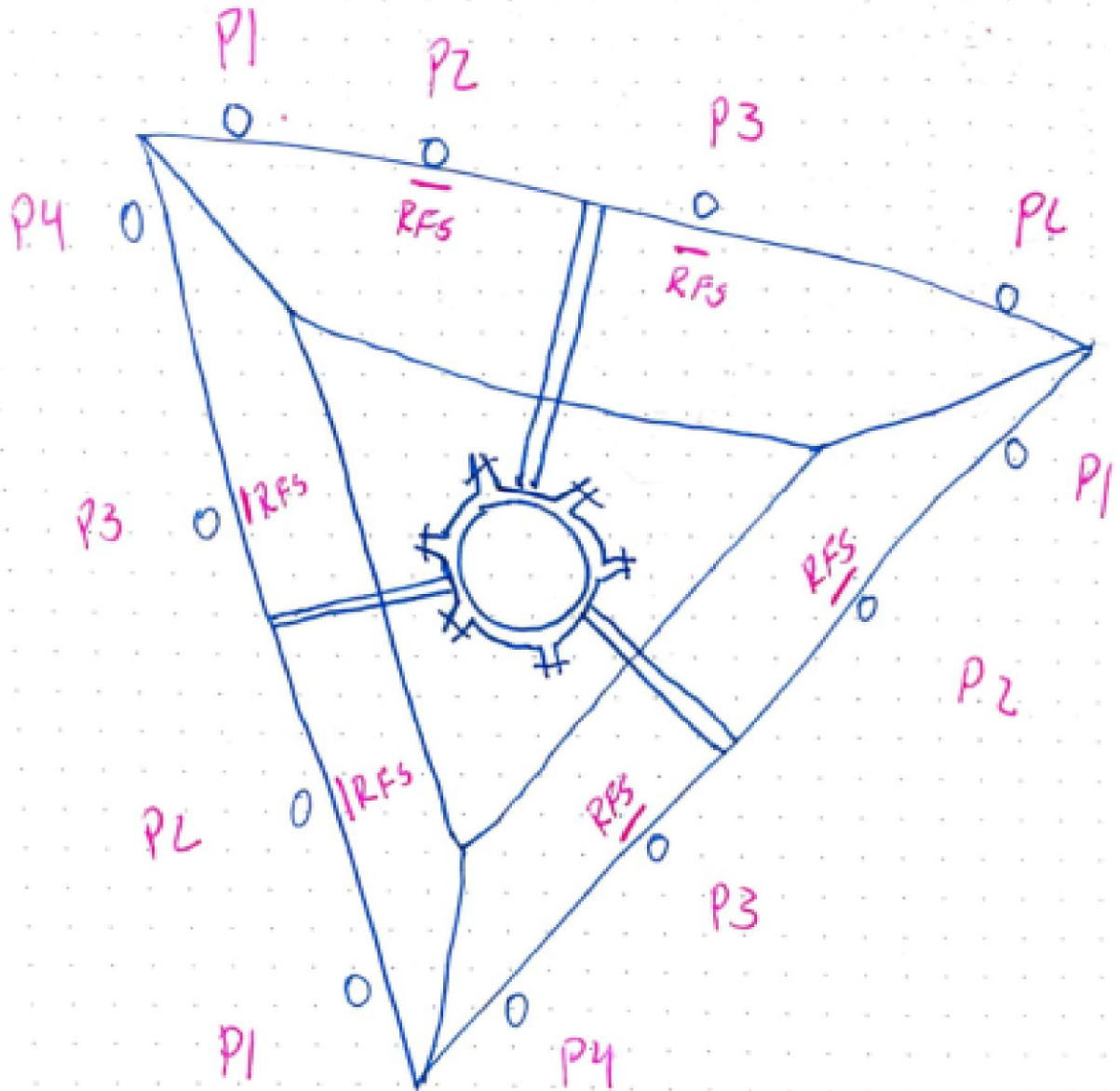
HEIGHT AND TH OF COLLAR
12" Tall x 1/2" TH
4" C-C 2" oc

Collar Without Arm



PL @ Face 12" x 5" x 3/8"

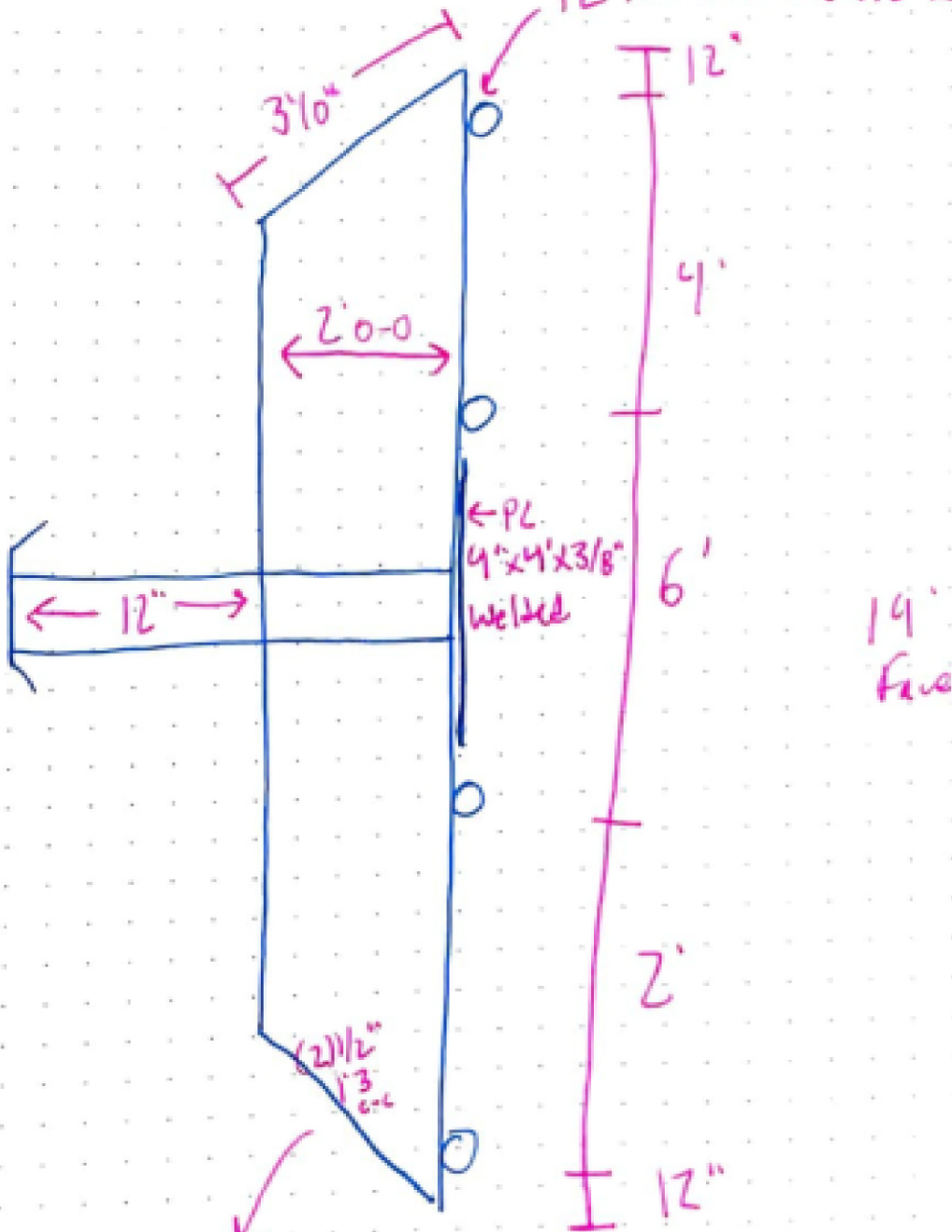
PLAN View



Face Piece

All MT PIPES
2.4x6'

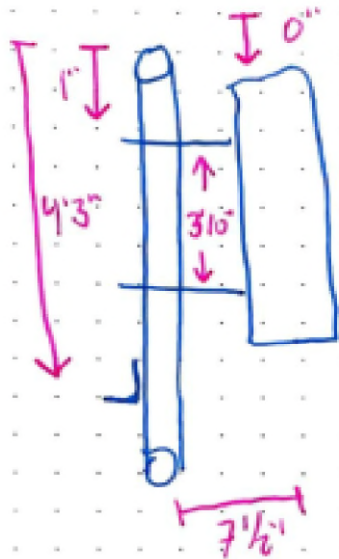
PL 12'x5'x3/8" (2) 1/2" w/ 9" c-c



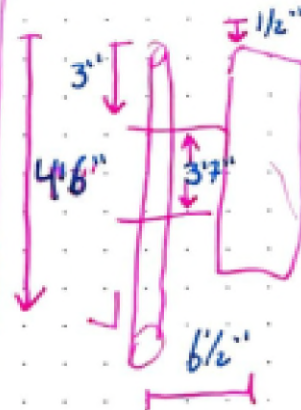
14'
Face

All
L's 3x3x1/4"

P1/P4 ~~All faces~~ ANT: Amphenol
 A/B Face
 LPA-80063-4CF-EDIN-4

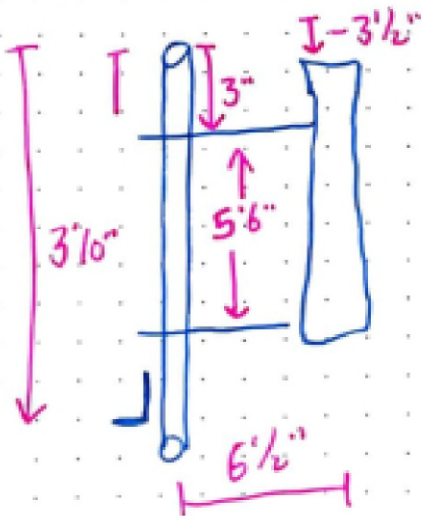


P1/P4 All faces
 ANT:



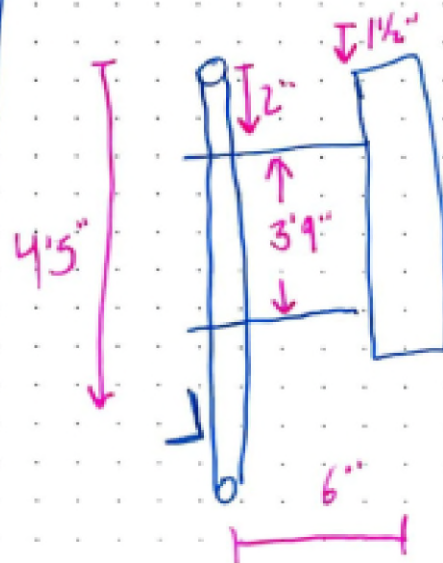
P2 All faces

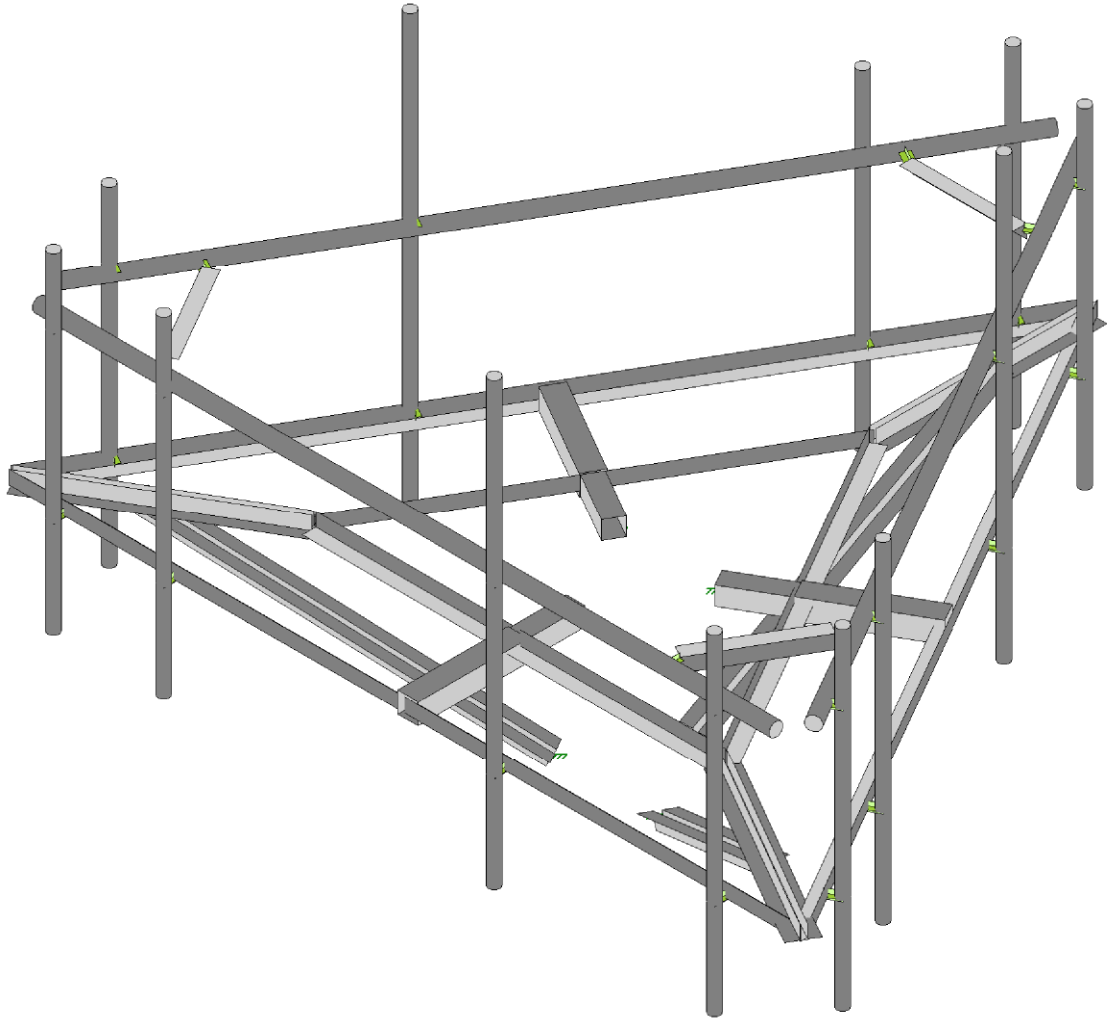
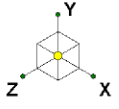
ANT:
 RFS:



P3 All faces

ANT: BXA-171085-8BF-EDIN-2
 RFS:

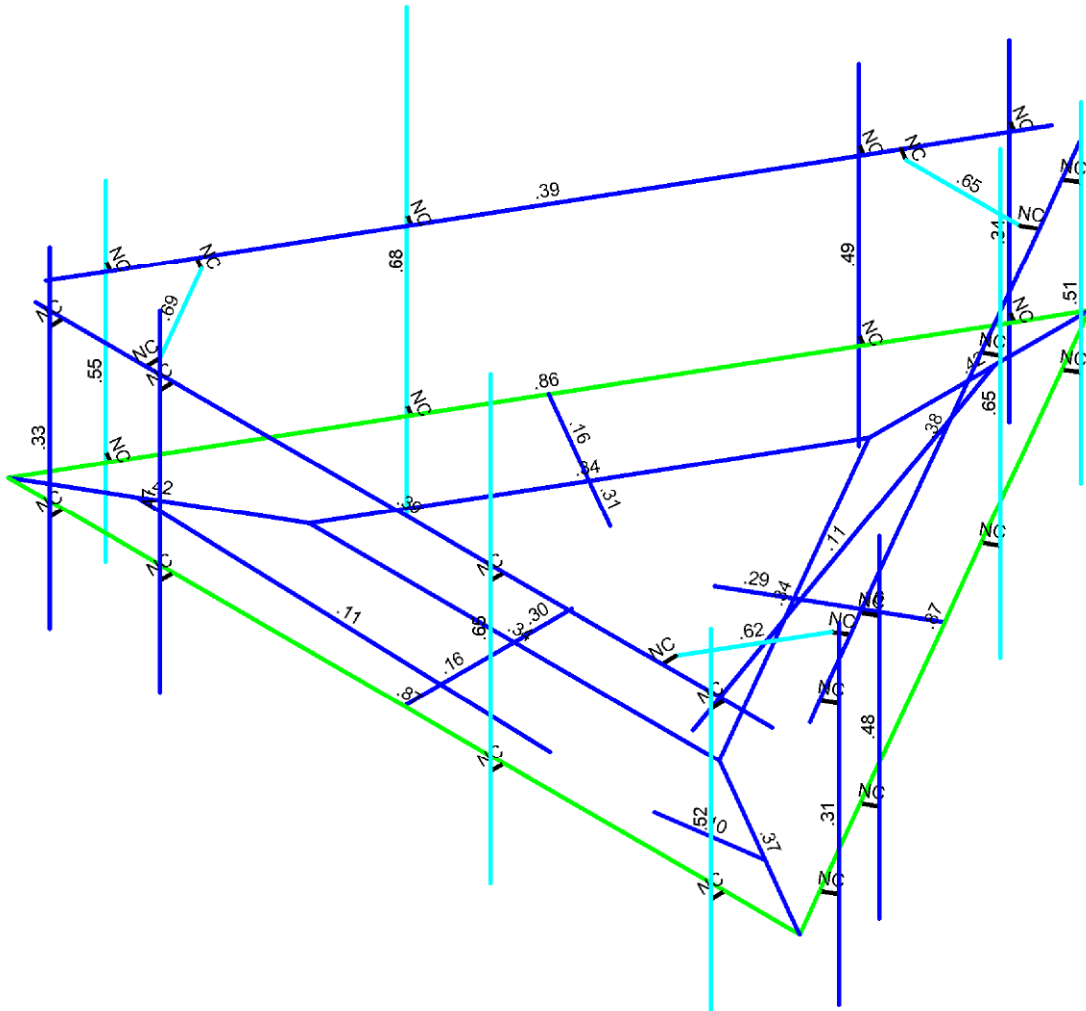
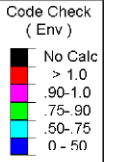
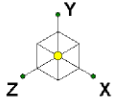




Project No. 10160182

468152-VZW_MT_LO_H

SK - 1
Aug 22, 2022 at 9:16 AM
468152-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

	468152-VZW_MT_LO_H	SK - 2
		Aug 24, 2022 at 1:22 PM
Project No. 10160182		468152-VZW_MT_LO_H.r3d



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 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					105		
2 Antenna Di	None					105		
3 Antenna Wo (0 Deg)	None					105		
4 Antenna Wo (30 Deg)	None					105		
5 Antenna Wo (60 Deg)	None					105		
6 Antenna Wo (90 Deg)	None					105		
7 Antenna Wo (120 Deg)	None					105		
8 Antenna Wo (150 Deg)	None					105		
9 Antenna Wo (180 Deg)	None					105		
10 Antenna Wo (210 Deg)	None					105		
11 Antenna Wo (240 Deg)	None					105		
12 Antenna Wo (270 Deg)	None					105		
13 Antenna Wo (300 Deg)	None					105		
14 Antenna Wo (330 Deg)	None					105		
15 Antenna Wi (0 Deg)	None					105		
16 Antenna Wi (30 Deg)	None					105		
17 Antenna Wi (60 Deg)	None					105		
18 Antenna Wi (90 Deg)	None					105		
19 Antenna Wi (120 Deg)	None					105		
20 Antenna Wi (150 Deg)	None					105		
21 Antenna Wi (180 Deg)	None					105		
22 Antenna Wi (210 Deg)	None					105		
23 Antenna Wi (240 Deg)	None					105		
24 Antenna Wi (270 Deg)	None					105		
25 Antenna Wi (300 Deg)	None					105		
26 Antenna Wi (330 Deg)	None					105		
27 Antenna Wm (0 Deg)	None					105		
28 Antenna Wm (30 Deg)	None					105		
29 Antenna Wm (60 Deg)	None					105		
30 Antenna Wm (90 Deg)	None					105		
31 Antenna Wm (120 Deg)	None					105		
32 Antenna Wm (150 Deg)	None					105		
33 Antenna Wm (180 Deg)	None					105		
34 Antenna Wm (210 Deg)	None					105		
35 Antenna Wm (240 Deg)	None					105		
36 Antenna Wm (270 Deg)	None					105		
37 Antenna Wm (300 Deg)	None					105		
38 Antenna Wm (330 Deg)	None					105		
39 Structure D	None		-1				3	
40 Structure Di	None						36	3
41 Structure Wo (0 Deg)	None						72	
42 Structure Wo (30 Deg)	None						72	
43 Structure Wo (60 Deg)	None						72	
44 Structure Wo (90 Deg)	None						72	
45 Structure Wo (120 D...	None						72	
46 Structure Wo (150 D...	None						72	
47 Structure Wo (180 D...	None						72	
48 Structure Wo (210 D...	None						72	
49 Structure Wo (240 D...	None						72	
50 Structure Wo (270 D...	None						72	
51 Structure Wo (300 D...	None						72	
52 Structure Wo (330 D...	None						72	
53 Structure Wi (0 Deg)	None						72	



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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						72	
55	Structure Wi (60 Deg)	None						72	
56	Structure Wi (90 Deg)	None						72	
57	Structure Wi (120 De...	None						72	
58	Structure Wi (150 De...	None						72	
59	Structure Wi (180 De...	None						72	
60	Structure Wi (210 De...	None						72	
61	Structure Wi (240 De...	None						72	
62	Structure Wi (270 De...	None						72	
63	Structure Wi (300 De...	None						72	
64	Structure Wi (330 De...	None						72	
65	Structure Wm (0 Deg)	None						72	
66	Structure Wm (30 De...	None						72	
67	Structure Wm (60 De...	None						72	
68	Structure Wm (90 De...	None						72	
69	Structure Wm (120 D...	None						72	
70	Structure Wm (150 D...	None						72	
71	Structure Wm (180 D...	None						72	
72	Structure Wm (210 D...	None						72	
73	Structure Wm (240 D...	None						72	
74	Structure Wm (270 D...	None						72	
75	Structure Wm (300 D...	None						72	
76	Structure Wm (330 D...	None						72	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	Antenna Ev	None					105		
82	Antenna Eh (0 Deg)	None					70		
83	Antenna Eh (90 Deg)	None					70		
84	Structure Ev	ELY		-0.043					3
85	Structure Eh (0 Deg)	ELZ			-0.108				3
86	Structure Eh (90 Deg)	ELX	.108						3
87	BLC 39 Transient Are...	None						30	
88	BLC 40 Transient Are...	None						30	
89	BLC 84 Transient Are...	None						30	
90	BLC 85 Transient Are...	None						30	
91	BLC 86 Transient Are...	None						30	

Load Combinations

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



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

Load Combinations (Continued)

	Description	Sol...	PDe...	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...		
15	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1
16	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1
17	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1
18	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1
19	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1
20	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1
21	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1
22	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1
23	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1
24	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1		
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1		
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1		
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1		
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1		
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1		
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1		
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1		
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1		
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1		
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1		
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1		
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1		
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1		
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1		
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1		
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1		
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1		
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1		
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1		
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1		
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1		
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1		
48	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1		
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5						
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5						
51	1.4D	Yes	Y		1	1.4	39	1.4								
52	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83	ELZ 1 ELX
53	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5 ELZ .866 ELX .5
54	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866 ELZ .5 ELX .866
55	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1 ELZ 1 ELX 1
56	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866 ELZ -.5 ELX .866
57	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5 ELZ -.866 ELX .5
58	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83	ELZ -1 ELX
59	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5 ELZ -.866 ELX -.5
60	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866 ELZ -.5 ELX -.866
61	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1 ELZ ELX -1
62	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866 ELZ .5 ELX -.866
63	1.2D + 1.0Ev + 1.0Eh (...)	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5 ELZ .866 ELX -.5
64	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83	ELZ 1 ELX
65	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5 ELZ .866 ELX .5
66	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866 ELZ .5 ELX .866
67	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1 ELZ ELX 1
68	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866 ELZ -.5 ELX .866
69	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5 ELZ -.866 ELX .5
70	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83	ELZ -1 ELX
71	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5 ELZ -.866 ELX -.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

Load Combinations (Continued)

	Description	Sol...	PDe...	S...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...	BLCFa...					
72	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
73	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866
75	0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0.	0	-0.	0	
2	N2	0.	0	1.095417	0	
3	N10	-0.	0	-4.291667	0	
4	N11	-0.	0	-4.833334	0	
5	N12	-0.	0	-6.333334	0	
6	N13	-0.	0	-7.833334	0	
7	N14	-0.	0	-8.291667	0	
8	N15	-3.716693	0	2.145833	0	
9	N16	-7.180794	0	4.145833	0	
10	N17	3.716693	0	2.145833	0	
11	N18	7.180794	0	4.145833	0	
12	N15A	0.	0	2.145833	0	
13	N16A	0.	0	4.145833	0	
14	N15B	-4.18579	0	2.416667	0	
15	N16B	-5.484828	0	3.166667	0	
16	N17A	-6.783866	0	3.916667	0	
17	N18A	4.18579	0	2.416667	0	
18	N19	5.484828	0	3.166667	0	
19	N20	6.783866	0	3.916667	0	
20	N21	-6.180794	0	4.145833	0	
21	N26	-6.180794	0	4.395833	0	
22	N29	-6.180794	4.25	4.395833	0	
23	N30	-6.180794	-1.75	4.395833	0	
24	N67	3.597461	0	-2.060682	0	
25	N77	0.948658	0	-0.547709	0	
26	N78	1.858346	0	-1.072917	0	
27	N91	-3.583333	0	-2.085151	0	
28	N109	-0.948659	0	-0.547708	0	
29	N110	-1.858346	0	-1.072917	0	
30	N108A	3.590397	0	-2.072917	0	
31	N110A	-3.590397	0	-2.072917	0	
32	N119B	1.425334	0	-0.822917	0	
33	N51	-4.180794	0	4.145833	0	
34	N53	-4.180794	0	4.395833	0	
35	N55	-4.180794	4.25	4.395833	0	
36	N56A	-4.180794	-1.75	4.395833	0	
37	N57A	1.819206	0	4.145833	0	
38	N59	1.819206	0	4.395833	0	
39	N61	1.819206	6.25	4.395833	0	
40	N62	1.819206	-1.75	4.395833	0	
41	N63	5.819206	0	4.145833	0	
42	N65	5.819206	0	4.395833	0	
43	N67A	5.819206	4.25	4.395833	0	
44	N68	5.819206	-1.75	4.395833	0	
45	N69	6.680794	0	3.279808	0	
46	N71	6.8973	0	3.154808	0	
47	N73	6.8973	4.25	3.154808	0	
48	N74	6.8973	-1.75	3.154808	0	



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
49	N75	5.680794	0	1.547757	0	
50	N77A	5.8973	0	1.422757	0	
51	N79	5.8973	4.25	1.422757	0	
52	N80	5.8973	-1.75	1.422757	0	
53	N81	2.680794	0	-3.648395	0	
54	N83	2.8973	0	-3.773395	0	
55	N85A	2.8973	6.25	-3.773395	0	
56	N86	2.8973	-1.75	-3.773395	0	
57	N87	0.680794	0	-7.112497	0	
58	N89	0.8973	0	-7.237497	0	
59	N91A	0.8973	4.25	-7.237497	0	
60	N92	0.8973	-1.75	-7.237497	0	
61	N93	-0.5	0	-7.425641	0	
62	N95	-0.716506	0	-7.550641	0	
63	N97	-0.716506	4.25	-7.550641	0	
64	N98	-0.716506	-1.75	-7.550641	0	
65	N99	-1.5	0	-5.693591	0	
66	N101	-1.716506	0	-5.818591	0	
67	N103	-1.716506	4.25	-5.818591	0	
68	N104	-1.716506	-1.75	-5.818591	0	
69	N105	-4.5	0	-0.497438	0	
70	N107	-4.716506	0	-0.622438	0	
71	N109A	-4.716506	6.25	-0.622438	0	
72	N110B	-4.716506	-1.75	-0.622438	0	
73	N111	-6.5	0	2.966663	0	
74	N113	-6.716506	0	2.841663	0	
75	N115B	-6.716506	4.25	2.841663	0	
76	N116B	-6.716506	-1.75	2.841663	0	
77	N77B	-6.680794	3	4.145833	0	
78	N78A	6.680794	3	4.145833	0	
79	N79A	0.	3	4.145833	0	
80	N80A	-6.180794	3	4.145833	0	
81	N81A	-6.180794	3	4.395833	0	
82	N82	-4.180794	3	4.145833	0	
83	N83A	-4.180794	3	4.395833	0	
84	N84	1.819206	3	4.145833	0	
85	N85	1.819206	3	4.395833	0	
86	N86A	5.819206	3	4.145833	0	
87	N87A	5.819206	3	4.395833	0	
88	N88	-4.680794	3	4.145833	0	
89	N89A	4.680794	3	4.145833	0	
90	N90	6.680794	3	3.895833	0	
91	N91B	-4.680794	3	3.895833	0	
92	N92A	4.680794	3	3.895833	0	
93	N93A	6.930794	3	3.712821	0	
94	N94	0.25	3	-7.858654	0	
95	N95A	3.590397	3	-2.072917	0	
96	N96	6.680794	3	3.279808	0	
97	N97A	6.8973	3	3.154808	0	
98	N98A	5.680794	3	1.547757	0	
99	N99A	5.8973	3	1.422757	0	
100	N100	2.680794	3	-3.648395	0	
101	N101A	2.8973	3	-3.773395	0	
102	N102	0.680794	3	-7.112497	0	
103	N103A	0.8973	3	-7.237497	0	
104	N104A	5.930794	3	1.98077	0	
105	N105A	1.25	3	-6.126603	0	



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
106	N106	0.033494	3	-7.733654	0	
107	N107A	5.714288	3	2.10577	0	
108	N108	1.033494	3	-6.001603	0	
109	N109B	-0.25	3	-7.858654	0	
110	N110C	-6.930794	3	3.712821	0	
111	N111A	-3.590397	3	-2.072917	0	
112	N112	-0.5	3	-7.425641	0	
113	N113A	-0.716506	3	-7.550641	0	
114	N114	-1.5	3	-5.693591	0	
115	N115	-1.716506	3	-5.818591	0	
116	N116	-4.5	3	-0.497438	0	
117	N117	-4.716506	3	-0.622438	0	
118	N118	-6.5	3	2.966663	0	
119	N119	-6.716506	3	2.841663	0	
120	N120	-1.25	3	-6.126603	0	
121	N121	-5.930794	3	1.98077	0	
122	N122	-6.714288	3	3.837821	0	
123	N123	-1.033494	3	-6.001603	0	
124	N124	-5.714288	3	2.10577	0	
125	N125	-0.	0	-6.583334	0	
126	N129	-0.	-3	-1.095417	0	
127	N130	-0.948658	-3	0.547709	0	
128	N128	-5.701334	0	3.291667	0	
129	N130A	5.701334	0	3.291667	0	
130	N131	0.948659	-3	0.547708	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Support Rail	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
3	Bottom Corner Plate	L15X6.5X6	Beam	Single Angle	A36 Gr.36	Typical	7.922	24.473	192.705	.363
4	Standoff 2	HSS4.5X4.5X3	Beam	Tube	A500 Gr.B ...	Typical	2.93	9.02	9.02	14.4
5	Cross Members	L3X3X4	Beam	Channel	A36 Gr.36	Typical	1.44	1.23	1.23	.031
6	Face Horizontal	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
7	Standoff 1	HSS4X4X4	Beam	Tube	A500 Gr.B ...	Typical	3.37	7.8	7.8	12.8
8	Grating Angle	LL3x3x4x0	Beam	Double Angle (No...	A36 Gr.36	Typical	2.88	4.5	2.46	.063
9	Top Corner Plate	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
10	Mod Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
11	Mod Angle	L3X3X4	Beam	Pipe	A36 Gr.36	Typical	1.44	1.23	1.23	.031
12	Mod Kicker	LL3x3x3x6	Beam	Pipe	A36 Gr.36	Typical	2.18	4.97	1.9	.027

Hot Rolled Steel Properties

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



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N15A			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
2	M2	N15A	N16A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
3	M5	N14	N10		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
4	M6	N16	N15		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
5	M7	N18	N17		180	Grating Angle	Beam	Double Angle (...)	A36 Gr.36	Typical
6	M6A	N17	N15		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
7	M7A	N16	N18		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
8	M10	N21	N26			RIGID	None	None	RIGID	Typical
9	MP4A	N29	N30		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
10	M23A	N10	N17		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
11	M24	N18	N14		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
12	M38	N77	N78			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
13	M39A	N15	N10		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
14	M40	N14	N16		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
15	M54	N109	N110			Standoff 1	Beam	Tube	A500 Gr.B...	Typical
16	M55	N78	N108A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
17	M56	N110	N110A			Standoff 2	Beam	Tube	A500 Gr.B...	Typical
18	M26	N51	N53			RIGID	None	None	RIGID	Typical
19	MP3A	N55	N56A		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
20	M29	N57A	N59			RIGID	None	None	RIGID	Typical
21	MP2A	N61	N62		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
22	M32	N63	N65			RIGID	None	None	RIGID	Typical
23	MP1A	N67A	N68		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
24	M35	N69	N71			RIGID	None	None	RIGID	Typical
25	MP4C	N73	N74		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
26	M38A	N75	N77A			RIGID	None	None	RIGID	Typical
27	MP3C	N79	N80		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
28	M41	N81	N83			RIGID	None	None	RIGID	Typical
29	MP2C	N85A	N86		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
30	M44	N87	N89			RIGID	None	None	RIGID	Typical
31	MP1C	N91A	N92		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
32	M47	N93	N95			RIGID	None	None	RIGID	Typical
33	MP4B	N97	N98		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
34	M50	N99	N101			RIGID	None	None	RIGID	Typical
35	MP3B	N103	N104		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
36	M53	N105	N107			RIGID	None	None	RIGID	Typical
37	MP2B	N109A	N110B		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
38	M56A	N111	N113			RIGID	None	None	RIGID	Typical
39	MP1B	N115B	N116B		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
40	M40A	N77B	N78A		270	Mod Rail	Beam	Pipe	A53 Gr.B	Typical
41	M41A	N80A	N81A			RIGID	None	None	RIGID	Typical
42	M42	N82	N83A			RIGID	None	None	RIGID	Typical
43	M43	N84	N85			RIGID	None	None	RIGID	Typical
44	M44A	N86A	N87A			RIGID	None	None	RIGID	Typical
45	M45	N88	N91B			RIGID	None	None	RIGID	Typical
46	M46	N89A	N92A			RIGID	None	None	RIGID	Typical
47	M47A	N93A	N94		270	Mod Rail	Beam	Pipe	A53 Gr.B	Typical
48	M48	N96	N97A			RIGID	None	None	RIGID	Typical
49	M49	N98A	N99A			RIGID	None	None	RIGID	Typical
50	M50A	N100	N101A			RIGID	None	None	RIGID	Typical
51	M51	N102	N103A			RIGID	None	None	RIGID	Typical
52	M52	N104A	N107A			RIGID	None	None	RIGID	Typical
53	M53A	N105A	N108			RIGID	None	None	RIGID	Typical
54	M54A	N109B	N110C		270	Mod Rail	Beam	Pipe	A53 Gr.B	Typical
55	M55A	N112	N113A			RIGID	None	None	RIGID	Typical
56	M56B	N114	N115			RIGID	None	None	RIGID	Typical



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
57	M57	N116	N117			RIGID	None	None	RIGID	Typical
58	M58	N118	N119			RIGID	None	None	RIGID	Typical
59	M59	N120	N123			RIGID	None	None	RIGID	Typical
60	M60	N121	N124			RIGID	None	None	RIGID	Typical
61	M61	N123	N108		90	Mod Angle	Beam	Pipe	A36 Gr.36	Typical
62	M62	N91B	N124		90	Mod Angle	Beam	Pipe	A36 Gr.36	Typical
63	M63	N107A	N92A		90	Mod Angle	Beam	Pipe	A36 Gr.36	Typical
64	M64	N125	N129			Mod Kicker	Beam	Pipe	A36 Gr.36	Typical
65	M65	N128	N130			Mod Kicker	Beam	Pipe	A36 Gr.36	Typical
66	M66	N130A	N131			Mod Kicker	Beam	Pipe	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						Yes				None
2	M2						Yes				None
3	M5						Yes				None
4	M6						Yes				None
5	M7						Yes				None
6	M6A						Yes				None
7	M7A						Yes				None
8	M10						Yes	** NA **			None
9	MP4A						Yes				None
10	M23A						Yes				None
11	M24						Yes				None
12	M38						Yes				None
13	M39A						Yes				None
14	M40						Yes				None
15	M54						Yes				None
16	M55						Yes				None
17	M56						Yes				None
18	M26						Yes	** NA **			None
19	MP3A						Yes				None
20	M29						Yes	** NA **			None
21	MP2A						Yes				None
22	M32						Yes	** NA **			None
23	MP1A						Yes				None
24	M35						Yes	** NA **			None
25	MP4C						Yes				None
26	M38A						Yes	** NA **			None
27	MP3C						Yes				None
28	M41						Yes	** NA **			None
29	MP2C						Yes				None
30	M44						Yes	** NA **			None
31	MP1C						Yes				None
32	M47						Yes	** NA **			None
33	MP4B						Yes				None
34	M50						Yes	** NA **			None
35	MP3B						Yes				None
36	M53						Yes	** NA **			None
37	MP2B						Yes				None
38	M56A						Yes	** NA **			None
39	MP1B						Yes				None
40	M40A						Yes				None
41	M41A						Yes	** NA **			None
42	M42						Yes	** NA **			None



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 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...
43	M43						Yes	** NA **			None
44	M44A						Yes	** NA **			None
45	M45	OOOOOX					Yes	** NA **			None
46	M46	OOOOOX					Yes	** NA **			None
47	M47A						Yes				None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50A						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	M52	OOOOOX					Yes	** NA **			None
53	M53A	OOOOOX					Yes	** NA **			None
54	M54A						Yes				None
55	M55A						Yes	** NA **			None
56	M56B						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59	OOOOOX					Yes	** NA **			None
60	M60	OOOOOX					Yes	** NA **			None
61	M61						Yes	Default			None
62	M62						Yes	Default			None
63	M63						Yes	Default			None
64	M64	BenPIN	BenPIN				Yes				None
65	M65	BenPIN	BenPIN				Yes				None
66	M66	BenPIN	BenPIN				Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	.5
2	MP2A	My	-.011	.5
3	MP2A	Mz	.015	.5
4	MP2A	Y	-21.85	6
5	MP2A	My	-.011	6
6	MP2A	Mz	.015	6
7	MP2B	Y	-21.85	.5
8	MP2B	My	-.007	.5
9	MP2B	Mz	-.017	.5
10	MP2B	Y	-21.85	6
11	MP2B	My	-.007	6
12	MP2B	Mz	-.017	6
13	MP2C	Y	-21.85	.5
14	MP2C	My	.018	.5
15	MP2C	Mz	.002	.5
16	MP2C	Y	-21.85	6
17	MP2C	My	.018	6
18	MP2C	Mz	.002	6
19	MP2A	Y	-32.3	.5
20	MP2A	My	-.016	.5
21	MP2A	Mz	-.022	.5
22	MP2A	Y	-32.3	6
23	MP2A	My	-.016	6
24	MP2A	Mz	-.022	6
25	MP2B	Y	-32.3	.5
26	MP2B	My	.027	.5
27	MP2B	Mz	-.003	.5
28	MP2B	Y	-32.3	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	My	.027	6
30	MP2B	Mz	-.003	6
31	MP2C	Y	-32.3	.5
32	MP2C	My	-.011	.5
33	MP2C	Mz	.025	.5
34	MP2C	Y	-32.3	6
35	MP2C	My	-.011	6
36	MP2C	Mz	.025	6
37	MP4A	Y	-43.55	.25
38	MP4A	My	-.022	.25
39	MP4A	Mz	0	.25
40	MP4A	Y	-43.55	2.25
41	MP4A	My	-.022	2.25
42	MP4A	Mz	0	2.25
43	MP4B	Y	-43.55	.25
44	MP4B	My	.011	.25
45	MP4B	Mz	-.019	.25
46	MP4B	Y	-43.55	2.25
47	MP4B	My	.011	2.25
48	MP4B	Mz	-.019	2.25
49	MP4C	Y	-43.55	.25
50	MP4C	My	.011	.25
51	MP4C	Mz	.019	.25
52	MP4C	Y	-43.55	2.25
53	MP4C	My	.011	2.25
54	MP4C	Mz	.019	2.25
55	MP2A	Y	-70.3	1
56	MP2A	My	.035	1
57	MP2A	Mz	0	1
58	MP2B	Y	-70.3	1
59	MP2B	My	-.018	1
60	MP2B	Mz	.03	1
61	MP2C	Y	-70.3	1
62	MP2C	My	-.018	1
63	MP2C	Mz	-.03	1
64	MP2A	Y	-18.7	4
65	MP2A	My	.009	4
66	MP2A	Mz	0	4
67	MP2B	Y	-18.7	4
68	MP2B	My	-.005	4
69	MP2B	Mz	.008	4
70	MP2C	Y	-18.7	4
71	MP2C	My	-.005	4
72	MP2C	Mz	-.008	4
73	MP3A	Y	-32	.25
74	MP3A	My	.016	.25
75	MP3A	Mz	0	.25
76	MP3B	Y	-32	.25
77	MP3B	My	-.008	.25
78	MP3B	Mz	.014	.25
79	MP1B	Y	-10	.25
80	MP1B	My	.003	.25
81	MP1B	Mz	-.004	.25
82	MP1B	Y	-10	2.25
83	MP1B	My	.003	2.25
84	MP1B	Mz	-.004	2.25
85	MP1C	Y	-10	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP1C	My	.003	.25
87	MP1C	Mz	.004	.25
88	MP1C	Y	-10	2.25
89	MP1C	My	.003	2.25
90	MP1C	Mz	.004	2.25
91	MP1A	Y	-3.15	.25
92	MP1A	My	-.002	.25
93	MP1A	Mz	0	.25
94	MP1A	Y	-3.15	2.25
95	MP1A	My	-.002	2.25
96	MP1A	Mz	0	2.25
97	MP1A	Y	-74.7	2.75
98	MP1A	My	.037	2.75
99	MP1A	Mz	0	2.75
100	MP1B	Y	-74.7	2.75
101	MP1B	My	-.019	2.75
102	MP1B	Mz	.032	2.75
103	MP1C	Y	-74.7	2.75
104	MP1C	My	-.019	2.75
105	MP1C	Mz	-.032	2.75

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-97.62	.5
2	MP2A	My	-.049	.5
3	MP2A	Mz	.065	.5
4	MP2A	Y	-97.62	6
5	MP2A	My	-.049	6
6	MP2A	Mz	.065	6
7	MP2B	Y	-97.62	.5
8	MP2B	My	-.032	.5
9	MP2B	Mz	-.075	.5
10	MP2B	Y	-97.62	6
11	MP2B	My	-.032	6
12	MP2B	Mz	-.075	6
13	MP2C	Y	-97.62	.5
14	MP2C	My	.081	.5
15	MP2C	Mz	.01	.5
16	MP2C	Y	-97.62	6
17	MP2C	My	.081	6
18	MP2C	Mz	.01	6
19	MP2A	Y	-97.62	.5
20	MP2A	My	-.049	.5
21	MP2A	Mz	-.065	.5
22	MP2A	Y	-97.62	6
23	MP2A	My	-.049	6
24	MP2A	Mz	-.065	6
25	MP2B	Y	-97.62	.5
26	MP2B	My	.081	.5
27	MP2B	Mz	-.01	.5
28	MP2B	Y	-97.62	6
29	MP2B	My	.081	6
30	MP2B	Mz	-.01	6
31	MP2C	Y	-97.62	.5
32	MP2C	My	-.032	.5
33	MP2C	Mz	.075	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2C	Y	-97.62	6
35	MP2C	My	-.032	6
36	MP2C	Mz	.075	6
37	MP4A	Y	-57.637	.25
38	MP4A	My	-.029	.25
39	MP4A	Mz	0	.25
40	MP4A	Y	-57.637	2.25
41	MP4A	My	-.029	2.25
42	MP4A	Mz	0	2.25
43	MP4B	Y	-57.637	.25
44	MP4B	My	.014	.25
45	MP4B	Mz	-.025	.25
46	MP4B	Y	-57.637	2.25
47	MP4B	My	.014	2.25
48	MP4B	Mz	-.025	2.25
49	MP4C	Y	-57.637	.25
50	MP4C	My	.014	.25
51	MP4C	Mz	.025	.25
52	MP4C	Y	-57.637	2.25
53	MP4C	My	.014	2.25
54	MP4C	Mz	.025	2.25
55	MP2A	Y	-69.921	1
56	MP2A	My	.035	1
57	MP2A	Mz	0	1
58	MP2B	Y	-69.921	1
59	MP2B	My	-.017	1
60	MP2B	Mz	.03	1
61	MP2C	Y	-69.921	1
62	MP2C	My	-.017	1
63	MP2C	Mz	-.03	1
64	MP2A	Y	-33.598	4
65	MP2A	My	.017	4
66	MP2A	Mz	0	4
67	MP2B	Y	-33.598	4
68	MP2B	My	-.008	4
69	MP2B	Mz	.015	4
70	MP2C	Y	-33.598	4
71	MP2C	My	-.008	4
72	MP2C	Mz	-.015	4
73	MP3A	Y	-140.942	.25
74	MP3A	My	.07	.25
75	MP3A	Mz	0	.25
76	MP3B	Y	-140.942	.25
77	MP3B	My	-.035	.25
78	MP3B	Mz	.061	.25
79	MP1B	Y	-100.603	.25
80	MP1B	My	.025	.25
81	MP1B	Mz	-.044	.25
82	MP1B	Y	-100.603	2.25
83	MP1B	My	.025	2.25
84	MP1B	Mz	-.044	2.25
85	MP1C	Y	-100.603	.25
86	MP1C	My	.025	.25
87	MP1C	Mz	.044	.25
88	MP1C	Y	-100.603	2.25
89	MP1C	My	.025	2.25
90	MP1C	Mz	.044	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP1A	Y	-51.243	.25
92	MP1A	My	-.026	.25
93	MP1A	Mz	0	.25
94	MP1A	Y	-51.243	2.25
95	MP1A	My	-.026	2.25
96	MP1A	Mz	0	2.25
97	MP1A	Y	-73.286	2.75
98	MP1A	My	.037	2.75
99	MP1A	Mz	0	2.75
100	MP1B	Y	-73.286	2.75
101	MP1B	My	-.018	2.75
102	MP1B	Mz	.032	2.75
103	MP1C	Y	-73.286	2.75
104	MP1C	My	-.018	2.75
105	MP1C	Mz	-.032	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-116.232	.5
3	MP2A	Mx	-.077	.5
4	MP2A	X	0	6
5	MP2A	Z	-116.232	6
6	MP2A	Mx	-.077	6
7	MP2B	X	0	.5
8	MP2B	Z	-66.464	.5
9	MP2B	Mx	.051	.5
10	MP2B	X	0	6
11	MP2B	Z	-66.464	6
12	MP2B	Mx	.051	6
13	MP2C	X	0	.5
14	MP2C	Z	-66.464	.5
15	MP2C	Mx	-.007	.5
16	MP2C	X	0	6
17	MP2C	Z	-66.464	6
18	MP2C	Mx	-.007	6
19	MP2A	X	0	.5
20	MP2A	Z	-172.314	.5
21	MP2A	Mx	.115	.5
22	MP2A	X	0	6
23	MP2A	Z	-172.314	6
24	MP2A	Mx	.115	6
25	MP2B	X	0	.5
26	MP2B	Z	-128.834	.5
27	MP2B	Mx	.013	.5
28	MP2B	X	0	6
29	MP2B	Z	-128.834	6
30	MP2B	Mx	.013	6
31	MP2C	X	0	.5
32	MP2C	Z	-128.834	.5
33	MP2C	Mx	-.099	.5
34	MP2C	X	0	6
35	MP2C	Z	-128.834	6
36	MP2C	Mx	-.099	6
37	MP4A	X	0	.25
38	MP4A	Z	-83.909	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP4A	Mx	0	.25
40	MP4A	X	0	2.25
41	MP4A	Z	-83.909	2.25
42	MP4A	Mx	0	2.25
43	MP4B	X	0	.25
44	MP4B	Z	-42.65	.25
45	MP4B	Mx	.018	.25
46	MP4B	X	0	2.25
47	MP4B	Z	-42.65	2.25
48	MP4B	Mx	.018	2.25
49	MP4C	X	0	.25
50	MP4C	Z	-42.65	.25
51	MP4C	Mx	-.018	.25
52	MP4C	X	0	2.25
53	MP4C	Z	-42.65	2.25
54	MP4C	Mx	-.018	2.25
55	MP2A	X	0	1
56	MP2A	Z	-66.357	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	-46.771	1
60	MP2B	Mx	-.02	1
61	MP2C	X	0	1
62	MP2C	Z	-46.771	1
63	MP2C	Mx	.02	1
64	MP2A	X	0	4
65	MP2A	Z	-30.824	4
66	MP2A	Mx	0	4
67	MP2B	X	0	4
68	MP2B	Z	-18.623	4
69	MP2B	Mx	-.008	4
70	MP2C	X	0	4
71	MP2C	Z	-18.623	4
72	MP2C	Mx	.008	4
73	MP3A	X	0	.25
74	MP3A	Z	-135.711	.25
75	MP3A	Mx	0	.25
76	MP3B	X	0	.25
77	MP3B	Z	-111.308	.25
78	MP3B	Mx	-.048	.25
79	MP1B	X	0	.25
80	MP1B	Z	-119.999	.25
81	MP1B	Mx	.052	.25
82	MP1B	X	0	2.25
83	MP1B	Z	-119.999	2.25
84	MP1B	Mx	.052	2.25
85	MP1C	X	0	.25
86	MP1C	Z	-119.999	.25
87	MP1C	Mx	-.052	.25
88	MP1C	X	0	2.25
89	MP1C	Z	-119.999	2.25
90	MP1C	Mx	-.052	2.25
91	MP1A	X	0	.25
92	MP1A	Z	-61.22	.25
93	MP1A	Mx	0	.25
94	MP1A	X	0	2.25
95	MP1A	Z	-61.22	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
96	MP1A	Mx	0	2.25
97	MP1A	X	0	2.75
98	MP1A	Z	-66.357	2.75
99	MP1A	Mx	0	2.75
100	MP1B	X	0	2.75
101	MP1B	Z	-49.982	2.75
102	MP1B	Mx	-.022	2.75
103	MP1C	X	0	2.75
104	MP1C	Z	-49.982	2.75
105	MP1C	Mx	.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	49.821	.5
2	MP2A	Z	-86.293	.5
3	MP2A	Mx	-.082	.5
4	MP2A	X	49.821	6
5	MP2A	Z	-86.293	6
6	MP2A	Mx	-.082	6
7	MP2B	X	24.937	.5
8	MP2B	Z	-43.193	.5
9	MP2B	Mx	.025	.5
10	MP2B	X	24.937	6
11	MP2B	Z	-43.193	6
12	MP2B	Mx	.025	6
13	MP2C	X	49.821	.5
14	MP2C	Z	-86.293	.5
15	MP2C	Mx	.033	.5
16	MP2C	X	49.821	6
17	MP2C	Z	-86.293	6
18	MP2C	Mx	.033	6
19	MP2A	X	78.91	.5
20	MP2A	Z	-136.677	.5
21	MP2A	Mx	.052	.5
22	MP2A	X	78.91	6
23	MP2A	Z	-136.677	6
24	MP2A	Mx	.052	6
25	MP2B	X	57.17	.5
26	MP2B	Z	-99.022	.5
27	MP2B	Mx	.057	.5
28	MP2B	X	57.17	6
29	MP2B	Z	-99.022	6
30	MP2B	Mx	.057	6
31	MP2C	X	78.91	.5
32	MP2C	Z	-136.677	.5
33	MP2C	Mx	-.131	.5
34	MP2C	X	78.91	6
35	MP2C	Z	-136.677	6
36	MP2C	Mx	-.131	6
37	MP4A	X	35.078	.25
38	MP4A	Z	-60.757	.25
39	MP4A	Mx	-.018	.25
40	MP4A	X	35.078	2.25
41	MP4A	Z	-60.757	2.25
42	MP4A	Mx	-.018	2.25
43	MP4B	X	14.449	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP4B	Z	-25.026	.25
45	MP4B	Mx	.014	.25
46	MP4B	X	14.449	2.25
47	MP4B	Z	-25.026	2.25
48	MP4B	Mx	.014	2.25
49	MP4C	X	35.078	.25
50	MP4C	Z	-60.757	.25
51	MP4C	Mx	-.018	.25
52	MP4C	X	35.078	2.25
53	MP4C	Z	-60.757	2.25
54	MP4C	Mx	-.018	2.25
55	MP2A	X	29.914	1
56	MP2A	Z	-51.813	1
57	MP2A	Mx	.015	1
58	MP2B	X	20.121	1
59	MP2B	Z	-34.851	1
60	MP2B	Mx	-.02	1
61	MP2C	X	29.914	1
62	MP2C	Z	-51.813	1
63	MP2C	Mx	.015	1
64	MP2A	X	13.378	4
65	MP2A	Z	-23.172	4
66	MP2A	Mx	.007	4
67	MP2B	X	7.278	4
68	MP2B	Z	-12.606	4
69	MP2B	Mx	-.007	4
70	MP2C	X	13.378	4
71	MP2C	Z	-23.172	4
72	MP2C	Mx	.007	4
73	MP3A	X	63.788	.25
74	MP3A	Z	-110.484	.25
75	MP3A	Mx	.032	.25
76	MP3B	X	51.587	.25
77	MP3B	Z	-89.352	.25
78	MP3B	Mx	-.052	.25
79	MP1B	X	58.059	.25
80	MP1B	Z	-100.561	.25
81	MP1B	Mx	.058	.25
82	MP1B	X	58.059	2.25
83	MP1B	Z	-100.561	2.25
84	MP1B	Mx	.058	2.25
85	MP1C	X	63.881	.25
86	MP1C	Z	-110.645	.25
87	MP1C	Mx	-.032	.25
88	MP1C	X	63.881	2.25
89	MP1C	Z	-110.645	2.25
90	MP1C	Mx	-.032	2.25
91	MP1A	X	32.629	.25
92	MP1A	Z	-56.516	.25
93	MP1A	Mx	-.016	.25
94	MP1A	X	32.629	2.25
95	MP1A	Z	-56.516	2.25
96	MP1A	Mx	-.016	2.25
97	MP1A	X	30.449	2.75
98	MP1A	Z	-52.74	2.75
99	MP1A	Mx	.015	2.75
100	MP1B	X	22.262	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
101	MP1B	Z	-38.558	2.75
102	MP1B	Mx	-.022	2.75
103	MP1C	X	30.449	2.75
104	MP1C	Z	-52.74	2.75
105	MP1C	Mx	.015	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	57.559	.5
2	MP2A	Z	-33.232	.5
3	MP2A	Mx	-.051	.5
4	MP2A	X	57.559	6
5	MP2A	Z	-33.232	6
6	MP2A	Mx	-.051	6
7	MP2B	X	57.559	.5
8	MP2B	Z	-33.232	.5
9	MP2B	Mx	.007	.5
10	MP2B	X	57.559	6
11	MP2B	Z	-33.232	6
12	MP2B	Mx	.007	6
13	MP2C	X	100.66	.5
14	MP2C	Z	-58.116	.5
15	MP2C	Mx	.077	.5
16	MP2C	X	100.66	6
17	MP2C	Z	-58.116	6
18	MP2C	Mx	.077	6
19	MP2A	X	111.574	.5
20	MP2A	Z	-64.417	.5
21	MP2A	Mx	-.013	.5
22	MP2A	X	111.574	6
23	MP2A	Z	-64.417	6
24	MP2A	Mx	-.013	6
25	MP2B	X	111.574	.5
26	MP2B	Z	-64.417	.5
27	MP2B	Mx	.099	.5
28	MP2B	X	111.574	6
29	MP2B	Z	-64.417	6
30	MP2B	Mx	.099	6
31	MP2C	X	149.228	.5
32	MP2C	Z	-86.157	.5
33	MP2C	Mx	-.115	.5
34	MP2C	X	149.228	6
35	MP2C	Z	-86.157	6
36	MP2C	Mx	-.115	6
37	MP4A	X	36.936	.25
38	MP4A	Z	-21.325	.25
39	MP4A	Mx	-.018	.25
40	MP4A	X	36.936	2.25
41	MP4A	Z	-21.325	2.25
42	MP4A	Mx	-.018	2.25
43	MP4B	X	36.936	.25
44	MP4B	Z	-21.325	.25
45	MP4B	Mx	.018	.25
46	MP4B	X	36.936	2.25
47	MP4B	Z	-21.325	2.25
48	MP4B	Mx	.018	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
49	MP4C	X	72.668	.25
50	MP4C	Z	-41.955	.25
51	MP4C	Mx	0	.25
52	MP4C	X	72.668	2.25
53	MP4C	Z	-41.955	2.25
54	MP4C	Mx	0	2.25
55	MP2A	X	40.505	1
56	MP2A	Z	-23.385	1
57	MP2A	Mx	.02	1
58	MP2B	X	40.505	1
59	MP2B	Z	-23.385	1
60	MP2B	Mx	-.02	1
61	MP2C	X	57.467	1
62	MP2C	Z	-33.178	1
63	MP2C	Mx	0	1
64	MP2A	X	16.128	4
65	MP2A	Z	-9.311	4
66	MP2A	Mx	.008	4
67	MP2B	X	16.128	4
68	MP2B	Z	-9.311	4
69	MP2B	Mx	-.008	4
70	MP2C	X	26.694	4
71	MP2C	Z	-15.412	4
72	MP2C	Mx	0	4
73	MP3A	X	96.396	.25
74	MP3A	Z	-55.654	.25
75	MP3A	Mx	.048	.25
76	MP3B	X	96.396	.25
77	MP3B	Z	-55.654	.25
78	MP3B	Mx	-.048	.25
79	MP1B	X	103.922	.25
80	MP1B	Z	-59.999	.25
81	MP1B	Mx	.052	.25
82	MP1B	X	103.922	2.25
83	MP1B	Z	-59.999	2.25
84	MP1B	Mx	.052	2.25
85	MP1C	X	114.007	.25
86	MP1C	Z	-65.822	.25
87	MP1C	Mx	0	.25
88	MP1C	X	114.007	2.25
89	MP1C	Z	-65.822	2.25
90	MP1C	Mx	0	2.25
91	MP1A	X	63.512	.25
92	MP1A	Z	-36.669	.25
93	MP1A	Mx	-.032	.25
94	MP1A	X	63.512	2.25
95	MP1A	Z	-36.669	2.25
96	MP1A	Mx	-.032	2.25
97	MP1A	X	43.285	2.75
98	MP1A	Z	-24.991	2.75
99	MP1A	Mx	.022	2.75
100	MP1B	X	43.285	2.75
101	MP1B	Z	-24.991	2.75
102	MP1B	Mx	-.022	2.75
103	MP1C	X	57.467	2.75
104	MP1C	Z	-33.178	2.75
105	MP1C	Mx	0	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	49.875	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.025	.5
4	MP2A	X	49.875	6
5	MP2A	Z	0	6
6	MP2A	Mx	-.025	6
7	MP2B	X	99.642	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.033	.5
10	MP2B	X	99.642	6
11	MP2B	Z	0	6
12	MP2B	Mx	-.033	6
13	MP2C	X	99.642	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.082	.5
16	MP2C	X	99.642	6
17	MP2C	Z	0	6
18	MP2C	Mx	.082	6
19	MP2A	X	114.341	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.057	.5
22	MP2A	X	114.341	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.057	6
25	MP2B	X	157.821	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.131	.5
28	MP2B	X	157.821	6
29	MP2B	Z	0	6
30	MP2B	Mx	.131	6
31	MP2C	X	157.821	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.052	.5
34	MP2C	X	157.821	6
35	MP2C	Z	0	6
36	MP2C	Mx	-.052	6
37	MP4A	X	28.897	.25
38	MP4A	Z	0	.25
39	MP4A	Mx	-.014	.25
40	MP4A	X	28.897	2.25
41	MP4A	Z	0	2.25
42	MP4A	Mx	-.014	2.25
43	MP4B	X	70.156	.25
44	MP4B	Z	0	.25
45	MP4B	Mx	.018	.25
46	MP4B	X	70.156	2.25
47	MP4B	Z	0	2.25
48	MP4B	Mx	.018	2.25
49	MP4C	X	70.156	.25
50	MP4C	Z	0	.25
51	MP4C	Mx	.018	.25
52	MP4C	X	70.156	2.25
53	MP4C	Z	0	2.25
54	MP4C	Mx	.018	2.25
55	MP2A	X	40.242	1
56	MP2A	Z	0	1
57	MP2A	Mx	.02	1



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	59.828	1
59	MP2B	Z	0	1
60	MP2B	Mx	-.015	1
61	MP2C	X	59.828	1
62	MP2C	Z	0	1
63	MP2C	Mx	-.015	1
64	MP2A	X	14.556	4
65	MP2A	Z	0	4
66	MP2A	Mx	.007	4
67	MP2B	X	26.757	4
68	MP2B	Z	0	4
69	MP2B	Mx	-.007	4
70	MP2C	X	26.757	4
71	MP2C	Z	0	4
72	MP2C	Mx	-.007	4
73	MP3A	X	103.174	.25
74	MP3A	Z	0	.25
75	MP3A	Mx	.052	.25
76	MP3B	X	127.576	.25
77	MP3B	Z	0	.25
78	MP3B	Mx	-.032	.25
79	MP1B	X	127.762	.25
80	MP1B	Z	0	.25
81	MP1B	Mx	.032	.25
82	MP1B	X	127.762	2.25
83	MP1B	Z	0	2.25
84	MP1B	Mx	.032	2.25
85	MP1C	X	127.762	.25
86	MP1C	Z	0	.25
87	MP1C	Mx	.032	.25
88	MP1C	X	127.762	2.25
89	MP1C	Z	0	2.25
90	MP1C	Mx	.032	2.25
91	MP1A	X	77.377	.25
92	MP1A	Z	0	.25
93	MP1A	Mx	-.039	.25
94	MP1A	X	77.377	2.25
95	MP1A	Z	0	2.25
96	MP1A	Mx	-.039	2.25
97	MP1A	X	44.523	2.75
98	MP1A	Z	0	2.75
99	MP1A	Mx	.022	2.75
100	MP1B	X	60.898	2.75
101	MP1B	Z	0	2.75
102	MP1B	Mx	-.015	2.75
103	MP1C	X	60.898	2.75
104	MP1C	Z	0	2.75
105	MP1C	Mx	-.015	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	57.559	.5
2	MP2A	Z	33.232	.5
3	MP2A	Mx	-.007	.5
4	MP2A	X	57.559	6
5	MP2A	Z	33.232	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	-.007	6
7	MP2B	X	100.66	.5
8	MP2B	Z	58.116	.5
9	MP2B	Mx	-.077	.5
10	MP2B	X	100.66	6
11	MP2B	Z	58.116	6
12	MP2B	Mx	-.077	6
13	MP2C	X	57.559	.5
14	MP2C	Z	33.232	.5
15	MP2C	Mx	.051	.5
16	MP2C	X	57.559	6
17	MP2C	Z	33.232	6
18	MP2C	Mx	.051	6
19	MP2A	X	111.574	.5
20	MP2A	Z	64.417	.5
21	MP2A	Mx	-.099	.5
22	MP2A	X	111.574	6
23	MP2A	Z	64.417	6
24	MP2A	Mx	-.099	6
25	MP2B	X	149.228	.5
26	MP2B	Z	86.157	.5
27	MP2B	Mx	.115	.5
28	MP2B	X	149.228	6
29	MP2B	Z	86.157	6
30	MP2B	Mx	.115	6
31	MP2C	X	111.574	.5
32	MP2C	Z	64.417	.5
33	MP2C	Mx	.013	.5
34	MP2C	X	111.574	6
35	MP2C	Z	64.417	6
36	MP2C	Mx	.013	6
37	MP4A	X	36.936	.25
38	MP4A	Z	21.325	.25
39	MP4A	Mx	-.018	.25
40	MP4A	X	36.936	2.25
41	MP4A	Z	21.325	2.25
42	MP4A	Mx	-.018	2.25
43	MP4B	X	72.668	.25
44	MP4B	Z	41.955	.25
45	MP4B	Mx	0	.25
46	MP4B	X	72.668	2.25
47	MP4B	Z	41.955	2.25
48	MP4B	Mx	0	2.25
49	MP4C	X	36.936	.25
50	MP4C	Z	21.325	.25
51	MP4C	Mx	.018	.25
52	MP4C	X	36.936	2.25
53	MP4C	Z	21.325	2.25
54	MP4C	Mx	.018	2.25
55	MP2A	X	40.505	1
56	MP2A	Z	23.385	1
57	MP2A	Mx	.02	1
58	MP2B	X	57.467	1
59	MP2B	Z	33.178	1
60	MP2B	Mx	0	1
61	MP2C	X	40.505	1
62	MP2C	Z	23.385	1



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	-.02	1
64	MP2A	X	16.128	4
65	MP2A	Z	9.311	4
66	MP2A	Mx	.008	4
67	MP2B	X	26.694	4
68	MP2B	Z	15.412	4
69	MP2B	Mx	0	4
70	MP2C	X	16.128	4
71	MP2C	Z	9.311	4
72	MP2C	Mx	-.008	4
73	MP3A	X	96.396	.25
74	MP3A	Z	55.654	.25
75	MP3A	Mx	.048	.25
76	MP3B	X	117.529	.25
77	MP3B	Z	67.855	.25
78	MP3B	Mx	0	.25
79	MP1B	X	114.007	.25
80	MP1B	Z	65.822	.25
81	MP1B	Mx	0	.25
82	MP1B	X	114.007	2.25
83	MP1B	Z	65.822	2.25
84	MP1B	Mx	0	2.25
85	MP1C	X	103.922	.25
86	MP1C	Z	59.999	.25
87	MP1C	Mx	.052	.25
88	MP1C	X	103.922	2.25
89	MP1C	Z	59.999	2.25
90	MP1C	Mx	.052	2.25
91	MP1A	X	63.512	.25
92	MP1A	Z	36.669	.25
93	MP1A	Mx	-.032	.25
94	MP1A	X	63.512	2.25
95	MP1A	Z	36.669	2.25
96	MP1A	Mx	-.032	2.25
97	MP1A	X	43.285	2.75
98	MP1A	Z	24.991	2.75
99	MP1A	Mx	.022	2.75
100	MP1B	X	57.467	2.75
101	MP1B	Z	33.178	2.75
102	MP1B	Mx	0	2.75
103	MP1C	X	43.285	2.75
104	MP1C	Z	24.991	2.75
105	MP1C	Mx	-.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	49.821	.5
2	MP2A	Z	86.293	.5
3	MP2A	Mx	.033	.5
4	MP2A	X	49.821	6
5	MP2A	Z	86.293	6
6	MP2A	Mx	.033	6
7	MP2B	X	49.821	.5
8	MP2B	Z	86.293	.5
9	MP2B	Mx	-.082	.5
10	MP2B	X	49.821	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
11	MP2B	Z	86.293	6
12	MP2B	Mx	-.082	6
13	MP2C	X	24.937	.5
14	MP2C	Z	43.193	.5
15	MP2C	Mx	.025	.5
16	MP2C	X	24.937	6
17	MP2C	Z	43.193	6
18	MP2C	Mx	.025	6
19	MP2A	X	78.91	.5
20	MP2A	Z	136.677	.5
21	MP2A	Mx	-.131	.5
22	MP2A	X	78.91	6
23	MP2A	Z	136.677	6
24	MP2A	Mx	-.131	6
25	MP2B	X	78.91	.5
26	MP2B	Z	136.677	.5
27	MP2B	Mx	.052	.5
28	MP2B	X	78.91	6
29	MP2B	Z	136.677	6
30	MP2B	Mx	.052	6
31	MP2C	X	57.17	.5
32	MP2C	Z	99.022	.5
33	MP2C	Mx	.057	.5
34	MP2C	X	57.17	6
35	MP2C	Z	99.022	6
36	MP2C	Mx	.057	6
37	MP4A	X	35.078	.25
38	MP4A	Z	60.757	.25
39	MP4A	Mx	-.018	.25
40	MP4A	X	35.078	2.25
41	MP4A	Z	60.757	2.25
42	MP4A	Mx	-.018	2.25
43	MP4B	X	35.078	.25
44	MP4B	Z	60.757	.25
45	MP4B	Mx	-.018	.25
46	MP4B	X	35.078	2.25
47	MP4B	Z	60.757	2.25
48	MP4B	Mx	-.018	2.25
49	MP4C	X	14.449	.25
50	MP4C	Z	25.026	.25
51	MP4C	Mx	.014	.25
52	MP4C	X	14.449	2.25
53	MP4C	Z	25.026	2.25
54	MP4C	Mx	.014	2.25
55	MP2A	X	29.914	1
56	MP2A	Z	51.813	1
57	MP2A	Mx	.015	1
58	MP2B	X	29.914	1
59	MP2B	Z	51.813	1
60	MP2B	Mx	.015	1
61	MP2C	X	20.121	1
62	MP2C	Z	34.851	1
63	MP2C	Mx	-.02	1
64	MP2A	X	13.378	4
65	MP2A	Z	23.172	4
66	MP2A	Mx	.007	4
67	MP2B	X	13.378	4



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2B	Z	23.172	4
69	MP2B	Mx	.007	4
70	MP2C	X	7.278	4
71	MP2C	Z	12.606	4
72	MP2C	Mx	-.007	4
73	MP3A	X	63.788	.25
74	MP3A	Z	110.484	.25
75	MP3A	Mx	.032	.25
76	MP3B	X	63.788	.25
77	MP3B	Z	110.484	.25
78	MP3B	Mx	.032	.25
79	MP1B	X	63.881	.25
80	MP1B	Z	110.645	.25
81	MP1B	Mx	-.032	.25
82	MP1B	X	63.881	2.25
83	MP1B	Z	110.645	2.25
84	MP1B	Mx	-.032	2.25
85	MP1C	X	58.059	.25
86	MP1C	Z	100.561	.25
87	MP1C	Mx	.058	.25
88	MP1C	X	58.059	2.25
89	MP1C	Z	100.561	2.25
90	MP1C	Mx	.058	2.25
91	MP1A	X	32.629	.25
92	MP1A	Z	56.516	.25
93	MP1A	Mx	-.016	.25
94	MP1A	X	32.629	2.25
95	MP1A	Z	56.516	2.25
96	MP1A	Mx	-.016	2.25
97	MP1A	X	30.449	2.75
98	MP1A	Z	52.74	2.75
99	MP1A	Mx	.015	2.75
100	MP1B	X	30.449	2.75
101	MP1B	Z	52.74	2.75
102	MP1B	Mx	.015	2.75
103	MP1C	X	22.262	2.75
104	MP1C	Z	38.558	2.75
105	MP1C	Mx	-.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	116.232	.5
3	MP2A	Mx	.077	.5
4	MP2A	X	0	6
5	MP2A	Z	116.232	6
6	MP2A	Mx	.077	6
7	MP2B	X	0	.5
8	MP2B	Z	66.464	.5
9	MP2B	Mx	-.051	.5
10	MP2B	X	0	6
11	MP2B	Z	66.464	6
12	MP2B	Mx	-.051	6
13	MP2C	X	0	.5
14	MP2C	Z	66.464	.5
15	MP2C	Mx	.007	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	0	6
17	MP2C	Z	66.464	6
18	MP2C	Mx	.007	6
19	MP2A	X	0	.5
20	MP2A	Z	172.314	.5
21	MP2A	Mx	-.115	.5
22	MP2A	X	0	6
23	MP2A	Z	172.314	6
24	MP2A	Mx	-.115	6
25	MP2B	X	0	.5
26	MP2B	Z	128.834	.5
27	MP2B	Mx	-.013	.5
28	MP2B	X	0	6
29	MP2B	Z	128.834	6
30	MP2B	Mx	-.013	6
31	MP2C	X	0	.5
32	MP2C	Z	128.834	.5
33	MP2C	Mx	.099	.5
34	MP2C	X	0	6
35	MP2C	Z	128.834	6
36	MP2C	Mx	.099	6
37	MP4A	X	0	.25
38	MP4A	Z	83.909	.25
39	MP4A	Mx	0	.25
40	MP4A	X	0	2.25
41	MP4A	Z	83.909	2.25
42	MP4A	Mx	0	2.25
43	MP4B	X	0	.25
44	MP4B	Z	42.65	.25
45	MP4B	Mx	-.018	.25
46	MP4B	X	0	2.25
47	MP4B	Z	42.65	2.25
48	MP4B	Mx	-.018	2.25
49	MP4C	X	0	.25
50	MP4C	Z	42.65	.25
51	MP4C	Mx	.018	.25
52	MP4C	X	0	2.25
53	MP4C	Z	42.65	2.25
54	MP4C	Mx	.018	2.25
55	MP2A	X	0	1
56	MP2A	Z	66.357	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	46.771	1
60	MP2B	Mx	.02	1
61	MP2C	X	0	1
62	MP2C	Z	46.771	1
63	MP2C	Mx	-.02	1
64	MP2A	X	0	4
65	MP2A	Z	30.824	4
66	MP2A	Mx	0	4
67	MP2B	X	0	4
68	MP2B	Z	18.623	4
69	MP2B	Mx	.008	4
70	MP2C	X	0	4
71	MP2C	Z	18.623	4
72	MP2C	Mx	-.008	4



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	0	.25
74	MP3A	Z	135.711	.25
75	MP3A	Mx	0	.25
76	MP3B	X	0	.25
77	MP3B	Z	111.308	.25
78	MP3B	Mx	.048	.25
79	MP1B	X	0	.25
80	MP1B	Z	119.999	.25
81	MP1B	Mx	-.052	.25
82	MP1B	X	0	2.25
83	MP1B	Z	119.999	2.25
84	MP1B	Mx	-.052	2.25
85	MP1C	X	0	.25
86	MP1C	Z	119.999	.25
87	MP1C	Mx	.052	.25
88	MP1C	X	0	2.25
89	MP1C	Z	119.999	2.25
90	MP1C	Mx	.052	2.25
91	MP1A	X	0	.25
92	MP1A	Z	61.22	.25
93	MP1A	Mx	0	.25
94	MP1A	X	0	2.25
95	MP1A	Z	61.22	2.25
96	MP1A	Mx	0	2.25
97	MP1A	X	0	2.75
98	MP1A	Z	66.357	2.75
99	MP1A	Mx	0	2.75
100	MP1B	X	0	2.75
101	MP1B	Z	49.982	2.75
102	MP1B	Mx	.022	2.75
103	MP1C	X	0	2.75
104	MP1C	Z	49.982	2.75
105	MP1C	Mx	-.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-49.821	.5
2	MP2A	Z	86.293	.5
3	MP2A	Mx	.082	.5
4	MP2A	X	-49.821	6
5	MP2A	Z	86.293	6
6	MP2A	Mx	.082	6
7	MP2B	X	-24.937	.5
8	MP2B	Z	43.193	.5
9	MP2B	Mx	-.025	.5
10	MP2B	X	-24.937	6
11	MP2B	Z	43.193	6
12	MP2B	Mx	-.025	6
13	MP2C	X	-49.821	.5
14	MP2C	Z	86.293	.5
15	MP2C	Mx	-.033	.5
16	MP2C	X	-49.821	6
17	MP2C	Z	86.293	6
18	MP2C	Mx	-.033	6
19	MP2A	X	-78.91	.5
20	MP2A	Z	136.677	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	-.052	.5
22	MP2A	X	-78.91	6
23	MP2A	Z	136.677	6
24	MP2A	Mx	-.052	6
25	MP2B	X	-57.17	.5
26	MP2B	Z	99.022	.5
27	MP2B	Mx	-.057	.5
28	MP2B	X	-57.17	6
29	MP2B	Z	99.022	6
30	MP2B	Mx	-.057	6
31	MP2C	X	-78.91	.5
32	MP2C	Z	136.677	.5
33	MP2C	Mx	.131	.5
34	MP2C	X	-78.91	6
35	MP2C	Z	136.677	6
36	MP2C	Mx	.131	6
37	MP4A	X	-35.078	.25
38	MP4A	Z	60.757	.25
39	MP4A	Mx	.018	.25
40	MP4A	X	-35.078	2.25
41	MP4A	Z	60.757	2.25
42	MP4A	Mx	.018	2.25
43	MP4B	X	-14.449	.25
44	MP4B	Z	25.026	.25
45	MP4B	Mx	-.014	.25
46	MP4B	X	-14.449	2.25
47	MP4B	Z	25.026	2.25
48	MP4B	Mx	-.014	2.25
49	MP4C	X	-35.078	.25
50	MP4C	Z	60.757	.25
51	MP4C	Mx	.018	.25
52	MP4C	X	-35.078	2.25
53	MP4C	Z	60.757	2.25
54	MP4C	Mx	.018	2.25
55	MP2A	X	-29.914	1
56	MP2A	Z	51.813	1
57	MP2A	Mx	-.015	1
58	MP2B	X	-20.121	1
59	MP2B	Z	34.851	1
60	MP2B	Mx	.02	1
61	MP2C	X	-29.914	1
62	MP2C	Z	51.813	1
63	MP2C	Mx	-.015	1
64	MP2A	X	-13.378	4
65	MP2A	Z	23.172	4
66	MP2A	Mx	-.007	4
67	MP2B	X	-7.278	4
68	MP2B	Z	12.606	4
69	MP2B	Mx	.007	4
70	MP2C	X	-13.378	4
71	MP2C	Z	23.172	4
72	MP2C	Mx	-.007	4
73	MP3A	X	-63.788	.25
74	MP3A	Z	110.484	.25
75	MP3A	Mx	-.032	.25
76	MP3B	X	-51.587	.25
77	MP3B	Z	89.352	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3B	Mx	.052	.25
79	MP1B	X	-58.059	.25
80	MP1B	Z	100.561	.25
81	MP1B	Mx	-.058	.25
82	MP1B	X	-58.059	2.25
83	MP1B	Z	100.561	2.25
84	MP1B	Mx	-.058	2.25
85	MP1C	X	-63.881	.25
86	MP1C	Z	110.645	.25
87	MP1C	Mx	.032	.25
88	MP1C	X	-63.881	2.25
89	MP1C	Z	110.645	2.25
90	MP1C	Mx	.032	2.25
91	MP1A	X	-32.629	.25
92	MP1A	Z	56.516	.25
93	MP1A	Mx	.016	.25
94	MP1A	X	-32.629	2.25
95	MP1A	Z	56.516	2.25
96	MP1A	Mx	.016	2.25
97	MP1A	X	-30.449	2.75
98	MP1A	Z	52.74	2.75
99	MP1A	Mx	-.015	2.75
100	MP1B	X	-22.262	2.75
101	MP1B	Z	38.558	2.75
102	MP1B	Mx	.022	2.75
103	MP1C	X	-30.449	2.75
104	MP1C	Z	52.74	2.75
105	MP1C	Mx	-.015	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-57.559	.5
2	MP2A	Z	33.232	.5
3	MP2A	Mx	.051	.5
4	MP2A	X	-57.559	6
5	MP2A	Z	33.232	6
6	MP2A	Mx	.051	6
7	MP2B	X	-57.559	.5
8	MP2B	Z	33.232	.5
9	MP2B	Mx	-.007	.5
10	MP2B	X	-57.559	6
11	MP2B	Z	33.232	6
12	MP2B	Mx	-.007	6
13	MP2C	X	-100.66	.5
14	MP2C	Z	58.116	.5
15	MP2C	Mx	-.077	.5
16	MP2C	X	-100.66	6
17	MP2C	Z	58.116	6
18	MP2C	Mx	-.077	6
19	MP2A	X	-111.574	.5
20	MP2A	Z	64.417	.5
21	MP2A	Mx	.013	.5
22	MP2A	X	-111.574	6
23	MP2A	Z	64.417	6
24	MP2A	Mx	.013	6
25	MP2B	X	-111.574	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2B	Z	64.417	.5
27	MP2B	Mx	-.099	.5
28	MP2B	X	-111.574	6
29	MP2B	Z	64.417	6
30	MP2B	Mx	-.099	6
31	MP2C	X	-149.228	.5
32	MP2C	Z	86.157	.5
33	MP2C	Mx	.115	.5
34	MP2C	X	-149.228	6
35	MP2C	Z	86.157	6
36	MP2C	Mx	.115	6
37	MP4A	X	-36.936	.25
38	MP4A	Z	21.325	.25
39	MP4A	Mx	.018	.25
40	MP4A	X	-36.936	2.25
41	MP4A	Z	21.325	2.25
42	MP4A	Mx	.018	2.25
43	MP4B	X	-36.936	.25
44	MP4B	Z	21.325	.25
45	MP4B	Mx	-.018	.25
46	MP4B	X	-36.936	2.25
47	MP4B	Z	21.325	2.25
48	MP4B	Mx	-.018	2.25
49	MP4C	X	-72.668	.25
50	MP4C	Z	41.955	.25
51	MP4C	Mx	0	.25
52	MP4C	X	-72.668	2.25
53	MP4C	Z	41.955	2.25
54	MP4C	Mx	0	2.25
55	MP2A	X	-40.505	1
56	MP2A	Z	23.385	1
57	MP2A	Mx	-.02	1
58	MP2B	X	-40.505	1
59	MP2B	Z	23.385	1
60	MP2B	Mx	.02	1
61	MP2C	X	-57.467	1
62	MP2C	Z	33.178	1
63	MP2C	Mx	0	1
64	MP2A	X	-16.128	4
65	MP2A	Z	9.311	4
66	MP2A	Mx	-.008	4
67	MP2B	X	-16.128	4
68	MP2B	Z	9.311	4
69	MP2B	Mx	.008	4
70	MP2C	X	-26.694	4
71	MP2C	Z	15.412	4
72	MP2C	Mx	0	4
73	MP3A	X	-96.396	.25
74	MP3A	Z	55.654	.25
75	MP3A	Mx	-.048	.25
76	MP3B	X	-96.396	.25
77	MP3B	Z	55.654	.25
78	MP3B	Mx	.048	.25
79	MP1B	X	-103.922	.25
80	MP1B	Z	59.999	.25
81	MP1B	Mx	-.052	.25
82	MP1B	X	-103.922	2.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP1B	Z	59.999	2.25
84	MP1B	Mx	-.052	2.25
85	MP1C	X	-114.007	.25
86	MP1C	Z	65.822	.25
87	MP1C	Mx	0	.25
88	MP1C	X	-114.007	2.25
89	MP1C	Z	65.822	2.25
90	MP1C	Mx	0	2.25
91	MP1A	X	-63.512	.25
92	MP1A	Z	36.669	.25
93	MP1A	Mx	.032	.25
94	MP1A	X	-63.512	2.25
95	MP1A	Z	36.669	2.25
96	MP1A	Mx	.032	2.25
97	MP1A	X	-43.285	2.75
98	MP1A	Z	24.991	2.75
99	MP1A	Mx	-.022	2.75
100	MP1B	X	-43.285	2.75
101	MP1B	Z	24.991	2.75
102	MP1B	Mx	.022	2.75
103	MP1C	X	-57.467	2.75
104	MP1C	Z	33.178	2.75
105	MP1C	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-49.875	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.025	.5
4	MP2A	X	-49.875	6
5	MP2A	Z	0	6
6	MP2A	Mx	.025	6
7	MP2B	X	-99.642	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.033	.5
10	MP2B	X	-99.642	6
11	MP2B	Z	0	6
12	MP2B	Mx	.033	6
13	MP2C	X	-99.642	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.082	.5
16	MP2C	X	-99.642	6
17	MP2C	Z	0	6
18	MP2C	Mx	-.082	6
19	MP2A	X	-114.341	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.057	.5
22	MP2A	X	-114.341	6
23	MP2A	Z	0	6
24	MP2A	Mx	.057	6
25	MP2B	X	-157.821	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.131	.5
28	MP2B	X	-157.821	6
29	MP2B	Z	0	6
30	MP2B	Mx	-.131	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
31	MP2C	X	-157.821	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.052	.5
34	MP2C	X	-157.821	6
35	MP2C	Z	0	6
36	MP2C	Mx	.052	6
37	MP4A	X	-28.897	.25
38	MP4A	Z	0	.25
39	MP4A	Mx	.014	.25
40	MP4A	X	-28.897	2.25
41	MP4A	Z	0	2.25
42	MP4A	Mx	.014	2.25
43	MP4B	X	-70.156	.25
44	MP4B	Z	0	.25
45	MP4B	Mx	-.018	.25
46	MP4B	X	-70.156	2.25
47	MP4B	Z	0	2.25
48	MP4B	Mx	-.018	2.25
49	MP4C	X	-70.156	.25
50	MP4C	Z	0	.25
51	MP4C	Mx	-.018	.25
52	MP4C	X	-70.156	2.25
53	MP4C	Z	0	2.25
54	MP4C	Mx	-.018	2.25
55	MP2A	X	-40.242	1
56	MP2A	Z	0	1
57	MP2A	Mx	-.02	1
58	MP2B	X	-59.828	1
59	MP2B	Z	0	1
60	MP2B	Mx	.015	1
61	MP2C	X	-59.828	1
62	MP2C	Z	0	1
63	MP2C	Mx	.015	1
64	MP2A	X	-14.556	4
65	MP2A	Z	0	4
66	MP2A	Mx	-.007	4
67	MP2B	X	-26.757	4
68	MP2B	Z	0	4
69	MP2B	Mx	.007	4
70	MP2C	X	-26.757	4
71	MP2C	Z	0	4
72	MP2C	Mx	.007	4
73	MP3A	X	-103.174	.25
74	MP3A	Z	0	.25
75	MP3A	Mx	-.052	.25
76	MP3B	X	-127.576	.25
77	MP3B	Z	0	.25
78	MP3B	Mx	.032	.25
79	MP1B	X	-127.762	.25
80	MP1B	Z	0	.25
81	MP1B	Mx	-.032	.25
82	MP1B	X	-127.762	2.25
83	MP1B	Z	0	2.25
84	MP1B	Mx	-.032	2.25
85	MP1C	X	-127.762	.25
86	MP1C	Z	0	.25
87	MP1C	Mx	-.032	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP1C	X	-127.762	2.25
89	MP1C	Z	0	2.25
90	MP1C	Mx	-.032	2.25
91	MP1A	X	-77.377	.25
92	MP1A	Z	0	.25
93	MP1A	Mx	.039	.25
94	MP1A	X	-77.377	2.25
95	MP1A	Z	0	2.25
96	MP1A	Mx	.039	2.25
97	MP1A	X	-44.523	2.75
98	MP1A	Z	0	2.75
99	MP1A	Mx	-.022	2.75
100	MP1B	X	-60.898	2.75
101	MP1B	Z	0	2.75
102	MP1B	Mx	.015	2.75
103	MP1C	X	-60.898	2.75
104	MP1C	Z	0	2.75
105	MP1C	Mx	.015	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-57.559	.5
2	MP2A	Z	-33.232	.5
3	MP2A	Mx	.007	.5
4	MP2A	X	-57.559	6
5	MP2A	Z	-33.232	6
6	MP2A	Mx	.007	6
7	MP2B	X	-100.66	.5
8	MP2B	Z	-58.116	.5
9	MP2B	Mx	.077	.5
10	MP2B	X	-100.66	6
11	MP2B	Z	-58.116	6
12	MP2B	Mx	.077	6
13	MP2C	X	-57.559	.5
14	MP2C	Z	-33.232	.5
15	MP2C	Mx	-.051	.5
16	MP2C	X	-57.559	6
17	MP2C	Z	-33.232	6
18	MP2C	Mx	-.051	6
19	MP2A	X	-111.574	.5
20	MP2A	Z	-64.417	.5
21	MP2A	Mx	.099	.5
22	MP2A	X	-111.574	6
23	MP2A	Z	-64.417	6
24	MP2A	Mx	.099	6
25	MP2B	X	-149.228	.5
26	MP2B	Z	-86.157	.5
27	MP2B	Mx	-.115	.5
28	MP2B	X	-149.228	6
29	MP2B	Z	-86.157	6
30	MP2B	Mx	-.115	6
31	MP2C	X	-111.574	.5
32	MP2C	Z	-64.417	.5
33	MP2C	Mx	-.013	.5
34	MP2C	X	-111.574	6
35	MP2C	Z	-64.417	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.013	6
37	MP4A	X	-36.936	.25
38	MP4A	Z	-21.325	.25
39	MP4A	Mx	.018	.25
40	MP4A	X	-36.936	2.25
41	MP4A	Z	-21.325	2.25
42	MP4A	Mx	.018	2.25
43	MP4B	X	-72.668	.25
44	MP4B	Z	-41.955	.25
45	MP4B	Mx	0	.25
46	MP4B	X	-72.668	2.25
47	MP4B	Z	-41.955	2.25
48	MP4B	Mx	0	2.25
49	MP4C	X	-36.936	.25
50	MP4C	Z	-21.325	.25
51	MP4C	Mx	-.018	.25
52	MP4C	X	-36.936	2.25
53	MP4C	Z	-21.325	2.25
54	MP4C	Mx	-.018	2.25
55	MP2A	X	-40.505	1
56	MP2A	Z	-23.385	1
57	MP2A	Mx	-.02	1
58	MP2B	X	-57.467	1
59	MP2B	Z	-33.178	1
60	MP2B	Mx	0	1
61	MP2C	X	-40.505	1
62	MP2C	Z	-23.385	1
63	MP2C	Mx	.02	1
64	MP2A	X	-16.128	4
65	MP2A	Z	-9.311	4
66	MP2A	Mx	-.008	4
67	MP2B	X	-26.694	4
68	MP2B	Z	-15.412	4
69	MP2B	Mx	0	4
70	MP2C	X	-16.128	4
71	MP2C	Z	-9.311	4
72	MP2C	Mx	.008	4
73	MP3A	X	-96.396	.25
74	MP3A	Z	-55.654	.25
75	MP3A	Mx	-.048	.25
76	MP3B	X	-117.529	.25
77	MP3B	Z	-67.855	.25
78	MP3B	Mx	0	.25
79	MP1B	X	-114.007	.25
80	MP1B	Z	-65.822	.25
81	MP1B	Mx	0	.25
82	MP1B	X	-114.007	2.25
83	MP1B	Z	-65.822	2.25
84	MP1B	Mx	0	2.25
85	MP1C	X	-103.922	.25
86	MP1C	Z	-59.999	.25
87	MP1C	Mx	-.052	.25
88	MP1C	X	-103.922	2.25
89	MP1C	Z	-59.999	2.25
90	MP1C	Mx	-.052	2.25
91	MP1A	X	-63.512	.25
92	MP1A	Z	-36.669	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP1A	Mx	.032	.25
94	MP1A	X	-63.512	2.25
95	MP1A	Z	-36.669	2.25
96	MP1A	Mx	.032	2.25
97	MP1A	X	-43.285	2.75
98	MP1A	Z	-24.991	2.75
99	MP1A	Mx	-.022	2.75
100	MP1B	X	-57.467	2.75
101	MP1B	Z	-33.178	2.75
102	MP1B	Mx	0	2.75
103	MP1C	X	-43.285	2.75
104	MP1C	Z	-24.991	2.75
105	MP1C	Mx	.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-49.821	.5
2	MP2A	Z	-86.293	.5
3	MP2A	Mx	-.033	.5
4	MP2A	X	-49.821	6
5	MP2A	Z	-86.293	6
6	MP2A	Mx	-.033	6
7	MP2B	X	-49.821	.5
8	MP2B	Z	-86.293	.5
9	MP2B	Mx	.082	.5
10	MP2B	X	-49.821	6
11	MP2B	Z	-86.293	6
12	MP2B	Mx	.082	6
13	MP2C	X	-24.937	.5
14	MP2C	Z	-43.193	.5
15	MP2C	Mx	-.025	.5
16	MP2C	X	-24.937	6
17	MP2C	Z	-43.193	6
18	MP2C	Mx	-.025	6
19	MP2A	X	-78.91	.5
20	MP2A	Z	-136.677	.5
21	MP2A	Mx	.131	.5
22	MP2A	X	-78.91	6
23	MP2A	Z	-136.677	6
24	MP2A	Mx	.131	6
25	MP2B	X	-78.91	.5
26	MP2B	Z	-136.677	.5
27	MP2B	Mx	-.052	.5
28	MP2B	X	-78.91	6
29	MP2B	Z	-136.677	6
30	MP2B	Mx	-.052	6
31	MP2C	X	-57.17	.5
32	MP2C	Z	-99.022	.5
33	MP2C	Mx	-.057	.5
34	MP2C	X	-57.17	6
35	MP2C	Z	-99.022	6
36	MP2C	Mx	-.057	6
37	MP4A	X	-35.078	.25
38	MP4A	Z	-60.757	.25
39	MP4A	Mx	.018	.25
40	MP4A	X	-35.078	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP4A	Z	-60.757	2.25
42	MP4A	Mx	.018	2.25
43	MP4B	X	-35.078	.25
44	MP4B	Z	-60.757	.25
45	MP4B	Mx	.018	.25
46	MP4B	X	-35.078	2.25
47	MP4B	Z	-60.757	2.25
48	MP4B	Mx	.018	2.25
49	MP4C	X	-14.449	.25
50	MP4C	Z	-25.026	.25
51	MP4C	Mx	-.014	.25
52	MP4C	X	-14.449	2.25
53	MP4C	Z	-25.026	2.25
54	MP4C	Mx	-.014	2.25
55	MP2A	X	-29.914	1
56	MP2A	Z	-51.813	1
57	MP2A	Mx	-.015	1
58	MP2B	X	-29.914	1
59	MP2B	Z	-51.813	1
60	MP2B	Mx	-.015	1
61	MP2C	X	-20.121	1
62	MP2C	Z	-34.851	1
63	MP2C	Mx	.02	1
64	MP2A	X	-13.378	4
65	MP2A	Z	-23.172	4
66	MP2A	Mx	-.007	4
67	MP2B	X	-13.378	4
68	MP2B	Z	-23.172	4
69	MP2B	Mx	-.007	4
70	MP2C	X	-7.278	4
71	MP2C	Z	-12.606	4
72	MP2C	Mx	.007	4
73	MP3A	X	-63.788	.25
74	MP3A	Z	-110.484	.25
75	MP3A	Mx	-.032	.25
76	MP3B	X	-63.788	.25
77	MP3B	Z	-110.484	.25
78	MP3B	Mx	-.032	.25
79	MP1B	X	-63.881	.25
80	MP1B	Z	-110.645	.25
81	MP1B	Mx	.032	.25
82	MP1B	X	-63.881	2.25
83	MP1B	Z	-110.645	2.25
84	MP1B	Mx	.032	2.25
85	MP1C	X	-58.059	.25
86	MP1C	Z	-100.561	.25
87	MP1C	Mx	-.058	.25
88	MP1C	X	-58.059	2.25
89	MP1C	Z	-100.561	2.25
90	MP1C	Mx	-.058	2.25
91	MP1A	X	-32.629	.25
92	MP1A	Z	-56.516	.25
93	MP1A	Mx	.016	.25
94	MP1A	X	-32.629	2.25
95	MP1A	Z	-56.516	2.25
96	MP1A	Mx	.016	2.25
97	MP1A	X	-30.449	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP1A	Z	-52.74	2.75
99	MP1A	Mx	-.015	2.75
100	MP1B	X	-30.449	2.75
101	MP1B	Z	-52.74	2.75
102	MP1B	Mx	-.015	2.75
103	MP1C	X	-22.262	2.75
104	MP1C	Z	-38.558	2.75
105	MP1C	Mx	.022	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-35.463	.5
3	MP2A	Mx	-.024	.5
4	MP2A	X	0	6
5	MP2A	Z	-35.463	6
6	MP2A	Mx	-.024	6
7	MP2B	X	0	.5
8	MP2B	Z	-27.584	.5
9	MP2B	Mx	.021	.5
10	MP2B	X	0	6
11	MP2B	Z	-27.584	6
12	MP2B	Mx	.021	6
13	MP2C	X	0	.5
14	MP2C	Z	-27.584	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	0	6
17	MP2C	Z	-27.584	6
18	MP2C	Mx	-.003	6
19	MP2A	X	0	.5
20	MP2A	Z	-35.463	.5
21	MP2A	Mx	.024	.5
22	MP2A	X	0	6
23	MP2A	Z	-35.463	6
24	MP2A	Mx	.024	6
25	MP2B	X	0	.5
26	MP2B	Z	-27.584	.5
27	MP2B	Mx	.003	.5
28	MP2B	X	0	6
29	MP2B	Z	-27.584	6
30	MP2B	Mx	.003	6
31	MP2C	X	0	.5
32	MP2C	Z	-27.584	.5
33	MP2C	Mx	-.021	.5
34	MP2C	X	0	6
35	MP2C	Z	-27.584	6
36	MP2C	Mx	-.021	6
37	MP4A	X	0	.25
38	MP4A	Z	-21.336	.25
39	MP4A	Mx	0	.25
40	MP4A	X	0	2.25
41	MP4A	Z	-21.336	2.25
42	MP4A	Mx	0	2.25
43	MP4B	X	0	.25
44	MP4B	Z	-12.456	.25
45	MP4B	Mx	.005	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP4B	X	0	2.25
47	MP4B	Z	-12.456	2.25
48	MP4B	Mx	.005	2.25
49	MP4C	X	0	.25
50	MP4C	Z	-12.456	.25
51	MP4C	Mx	-.005	.25
52	MP4C	X	0	2.25
53	MP4C	Z	-12.456	2.25
54	MP4C	Mx	-.005	2.25
55	MP2A	X	0	1
56	MP2A	Z	-18.508	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	-13.755	1
60	MP2B	Mx	-.006	1
61	MP2C	X	0	1
62	MP2C	Z	-13.755	1
63	MP2C	Mx	.006	1
64	MP2A	X	0	4
65	MP2A	Z	-10.896	4
66	MP2A	Mx	0	4
67	MP2B	X	0	4
68	MP2B	Z	-7.58	4
69	MP2B	Mx	-.003	4
70	MP2C	X	0	4
71	MP2C	Z	-7.58	4
72	MP2C	Mx	.003	4
73	MP3A	X	0	.25
74	MP3A	Z	-37.064	.25
75	MP3A	Mx	0	.25
76	MP3B	X	0	.25
77	MP3B	Z	-31.251	.25
78	MP3B	Mx	-.014	.25
79	MP1B	X	0	.25
80	MP1B	Z	-25.036	.25
81	MP1B	Mx	.011	.25
82	MP1B	X	0	2.25
83	MP1B	Z	-25.036	2.25
84	MP1B	Mx	.011	2.25
85	MP1C	X	0	.25
86	MP1C	Z	-25.036	.25
87	MP1C	Mx	-.011	.25
88	MP1C	X	0	2.25
89	MP1C	Z	-25.036	2.25
90	MP1C	Mx	-.011	2.25
91	MP1A	X	0	.25
92	MP1A	Z	-14.112	.25
93	MP1A	Mx	0	.25
94	MP1A	X	0	2.25
95	MP1A	Z	-14.112	2.25
96	MP1A	Mx	0	2.25
97	MP1A	X	0	2.75
98	MP1A	Z	-18.508	2.75
99	MP1A	Mx	0	2.75
100	MP1B	X	0	2.75
101	MP1B	Z	-14.48	2.75
102	MP1B	Mx	-.006	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP1C	X	0	2.75
104	MP1C	Z	-14.48	2.75
105	MP1C	Mx	.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.418	.5
2	MP2A	Z	-28.438	.5
3	MP2A	Mx	-.027	.5
4	MP2A	X	16.418	6
5	MP2A	Z	-28.438	6
6	MP2A	Mx	-.027	6
7	MP2B	X	12.479	.5
8	MP2B	Z	-21.614	.5
9	MP2B	Mx	.012	.5
10	MP2B	X	12.479	6
11	MP2B	Z	-21.614	6
12	MP2B	Mx	.012	6
13	MP2C	X	16.418	.5
14	MP2C	Z	-28.438	.5
15	MP2C	Mx	.011	.5
16	MP2C	X	16.418	6
17	MP2C	Z	-28.438	6
18	MP2C	Mx	.011	6
19	MP2A	X	16.418	.5
20	MP2A	Z	-28.438	.5
21	MP2A	Mx	.011	.5
22	MP2A	X	16.418	6
23	MP2A	Z	-28.438	6
24	MP2A	Mx	.011	6
25	MP2B	X	12.479	.5
26	MP2B	Z	-21.614	.5
27	MP2B	Mx	.012	.5
28	MP2B	X	12.479	6
29	MP2B	Z	-21.614	6
30	MP2B	Mx	.012	6
31	MP2C	X	16.418	.5
32	MP2C	Z	-28.438	.5
33	MP2C	Mx	-.027	.5
34	MP2C	X	16.418	6
35	MP2C	Z	-28.438	6
36	MP2C	Mx	-.027	6
37	MP4A	X	9.188	.25
38	MP4A	Z	-15.914	.25
39	MP4A	Mx	-.005	.25
40	MP4A	X	9.188	2.25
41	MP4A	Z	-15.914	2.25
42	MP4A	Mx	-.005	2.25
43	MP4B	X	4.748	.25
44	MP4B	Z	-8.224	.25
45	MP4B	Mx	.005	.25
46	MP4B	X	4.748	2.25
47	MP4B	Z	-8.224	2.25
48	MP4B	Mx	.005	2.25
49	MP4C	X	9.188	.25
50	MP4C	Z	-15.914	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP4C	Mx	-.005	.25
52	MP4C	X	9.188	2.25
53	MP4C	Z	-15.914	2.25
54	MP4C	Mx	-.005	2.25
55	MP2A	X	8.462	1
56	MP2A	Z	-14.657	1
57	MP2A	Mx	.004	1
58	MP2B	X	6.085	1
59	MP2B	Z	-10.54	1
60	MP2B	Mx	-.006	1
61	MP2C	X	8.462	1
62	MP2C	Z	-14.657	1
63	MP2C	Mx	.004	1
64	MP2A	X	4.895	4
65	MP2A	Z	-8.479	4
66	MP2A	Mx	.002	4
67	MP2B	X	3.237	4
68	MP2B	Z	-5.607	4
69	MP2B	Mx	-.003	4
70	MP2C	X	4.895	4
71	MP2C	Z	-8.479	4
72	MP2C	Mx	.002	4
73	MP3A	X	17.563	.25
74	MP3A	Z	-30.42	.25
75	MP3A	Mx	.009	.25
76	MP3B	X	14.657	.25
77	MP3B	Z	-25.386	.25
78	MP3B	Mx	-.015	.25
79	MP1B	X	12.161	.25
80	MP1B	Z	-21.063	.25
81	MP1B	Mx	.012	.25
82	MP1B	X	12.161	2.25
83	MP1B	Z	-21.063	2.25
84	MP1B	Mx	.012	2.25
85	MP1C	X	13.233	.25
86	MP1C	Z	-22.92	.25
87	MP1C	Mx	-.007	.25
88	MP1C	X	13.233	2.25
89	MP1C	Z	-22.92	2.25
90	MP1C	Mx	-.007	2.25
91	MP1A	X	7.426	.25
92	MP1A	Z	-12.861	.25
93	MP1A	Mx	-.004	.25
94	MP1A	X	7.426	2.25
95	MP1A	Z	-12.861	2.25
96	MP1A	Mx	-.004	2.25
97	MP1A	X	8.583	2.75
98	MP1A	Z	-14.866	2.75
99	MP1A	Mx	.004	2.75
100	MP1B	X	6.569	2.75
101	MP1B	Z	-11.378	2.75
102	MP1B	Mx	-.007	2.75
103	MP1C	X	8.583	2.75
104	MP1C	Z	-14.866	2.75
105	MP1C	Mx	.004	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	23.889	.5
2	MP2A	Z	-13.792	.5
3	MP2A	Mx	-.021	.5
4	MP2A	X	23.889	6
5	MP2A	Z	-13.792	6
6	MP2A	Mx	-.021	6
7	MP2B	X	23.889	.5
8	MP2B	Z	-13.792	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	23.889	6
11	MP2B	Z	-13.792	6
12	MP2B	Mx	.003	6
13	MP2C	X	30.712	.5
14	MP2C	Z	-17.732	.5
15	MP2C	Mx	.024	.5
16	MP2C	X	30.712	6
17	MP2C	Z	-17.732	6
18	MP2C	Mx	.024	6
19	MP2A	X	23.889	.5
20	MP2A	Z	-13.792	.5
21	MP2A	Mx	-.003	.5
22	MP2A	X	23.889	6
23	MP2A	Z	-13.792	6
24	MP2A	Mx	-.003	6
25	MP2B	X	23.889	.5
26	MP2B	Z	-13.792	.5
27	MP2B	Mx	.021	.5
28	MP2B	X	23.889	6
29	MP2B	Z	-13.792	6
30	MP2B	Mx	.021	6
31	MP2C	X	30.712	.5
32	MP2C	Z	-17.732	.5
33	MP2C	Mx	-.024	.5
34	MP2C	X	30.712	6
35	MP2C	Z	-17.732	6
36	MP2C	Mx	-.024	6
37	MP4A	X	10.787	.25
38	MP4A	Z	-6.228	.25
39	MP4A	Mx	-.005	.25
40	MP4A	X	10.787	2.25
41	MP4A	Z	-6.228	2.25
42	MP4A	Mx	-.005	2.25
43	MP4B	X	10.787	.25
44	MP4B	Z	-6.228	.25
45	MP4B	Mx	.005	.25
46	MP4B	X	10.787	2.25
47	MP4B	Z	-6.228	2.25
48	MP4B	Mx	.005	2.25
49	MP4C	X	18.478	.25
50	MP4C	Z	-10.668	.25
51	MP4C	Mx	0	.25
52	MP4C	X	18.478	2.25
53	MP4C	Z	-10.668	2.25
54	MP4C	Mx	0	2.25
55	MP2A	X	11.912	1
56	MP2A	Z	-6.878	1
57	MP2A	Mx	.006	1



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	11.912	1
59	MP2B	Z	-6.878	1
60	MP2B	Mx	-.006	1
61	MP2C	X	16.029	1
62	MP2C	Z	-9.254	1
63	MP2C	Mx	0	1
64	MP2A	X	6.564	4
65	MP2A	Z	-3.79	4
66	MP2A	Mx	.003	4
67	MP2B	X	6.564	4
68	MP2B	Z	-3.79	4
69	MP2B	Mx	-.003	4
70	MP2C	X	9.436	4
71	MP2C	Z	-5.448	4
72	MP2C	Mx	0	4
73	MP3A	X	27.064	.25
74	MP3A	Z	-15.626	.25
75	MP3A	Mx	.014	.25
76	MP3B	X	27.064	.25
77	MP3B	Z	-15.626	.25
78	MP3B	Mx	-.014	.25
79	MP1B	X	21.682	.25
80	MP1B	Z	-12.518	.25
81	MP1B	Mx	.011	.25
82	MP1B	X	21.682	2.25
83	MP1B	Z	-12.518	2.25
84	MP1B	Mx	.011	2.25
85	MP1C	X	23.54	.25
86	MP1C	Z	-13.591	.25
87	MP1C	Mx	0	.25
88	MP1C	X	23.54	2.25
89	MP1C	Z	-13.591	2.25
90	MP1C	Mx	0	2.25
91	MP1A	X	14.141	.25
92	MP1A	Z	-8.164	.25
93	MP1A	Mx	-.007	.25
94	MP1A	X	14.141	2.25
95	MP1A	Z	-8.164	2.25
96	MP1A	Mx	-.007	2.25
97	MP1A	X	12.54	2.75
98	MP1A	Z	-7.24	2.75
99	MP1A	Mx	.006	2.75
100	MP1B	X	12.54	2.75
101	MP1B	Z	-7.24	2.75
102	MP1B	Mx	-.006	2.75
103	MP1C	X	16.029	2.75
104	MP1C	Z	-9.254	2.75
105	MP1C	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	24.958	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.012	.5
4	MP2A	X	24.958	6
5	MP2A	Z	0	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	-.012	6
7	MP2B	X	32.837	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.011	.5
10	MP2B	X	32.837	6
11	MP2B	Z	0	6
12	MP2B	Mx	-.011	6
13	MP2C	X	32.837	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.027	.5
16	MP2C	X	32.837	6
17	MP2C	Z	0	6
18	MP2C	Mx	.027	6
19	MP2A	X	24.958	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.012	.5
22	MP2A	X	24.958	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.012	6
25	MP2B	X	32.837	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.027	.5
28	MP2B	X	32.837	6
29	MP2B	Z	0	6
30	MP2B	Mx	.027	6
31	MP2C	X	32.837	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.011	.5
34	MP2C	X	32.837	6
35	MP2C	Z	0	6
36	MP2C	Mx	-.011	6
37	MP4A	X	9.496	.25
38	MP4A	Z	0	.25
39	MP4A	Mx	-.005	.25
40	MP4A	X	9.496	2.25
41	MP4A	Z	0	2.25
42	MP4A	Mx	-.005	2.25
43	MP4B	X	18.376	.25
44	MP4B	Z	0	.25
45	MP4B	Mx	.005	.25
46	MP4B	X	18.376	2.25
47	MP4B	Z	0	2.25
48	MP4B	Mx	.005	2.25
49	MP4C	X	18.376	.25
50	MP4C	Z	0	.25
51	MP4C	Mx	.005	.25
52	MP4C	X	18.376	2.25
53	MP4C	Z	0	2.25
54	MP4C	Mx	.005	2.25
55	MP2A	X	12.171	1
56	MP2A	Z	0	1
57	MP2A	Mx	.006	1
58	MP2B	X	16.924	1
59	MP2B	Z	0	1
60	MP2B	Mx	-.004	1
61	MP2C	X	16.924	1
62	MP2C	Z	0	1



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	-.004	1
64	MP2A	X	6.474	4
65	MP2A	Z	0	4
66	MP2A	Mx	.003	4
67	MP2B	X	9.79	4
68	MP2B	Z	0	4
69	MP2B	Mx	-.002	4
70	MP2C	X	9.79	4
71	MP2C	Z	0	4
72	MP2C	Mx	-.002	4
73	MP3A	X	29.313	.25
74	MP3A	Z	0	.25
75	MP3A	Mx	.015	.25
76	MP3B	X	35.126	.25
77	MP3B	Z	0	.25
78	MP3B	Mx	-.009	.25
79	MP1B	X	26.466	.25
80	MP1B	Z	0	.25
81	MP1B	Mx	.007	.25
82	MP1B	X	26.466	2.25
83	MP1B	Z	0	2.25
84	MP1B	Mx	.007	2.25
85	MP1C	X	26.466	.25
86	MP1C	Z	0	.25
87	MP1C	Mx	.007	.25
88	MP1C	X	26.466	2.25
89	MP1C	Z	0	2.25
90	MP1C	Mx	.007	2.25
91	MP1A	X	17.067	.25
92	MP1A	Z	0	.25
93	MP1A	Mx	-.009	.25
94	MP1A	X	17.067	2.25
95	MP1A	Z	0	2.25
96	MP1A	Mx	-.009	2.25
97	MP1A	X	13.138	2.75
98	MP1A	Z	0	2.75
99	MP1A	Mx	.007	2.75
100	MP1B	X	17.166	2.75
101	MP1B	Z	0	2.75
102	MP1B	Mx	-.004	2.75
103	MP1C	X	17.166	2.75
104	MP1C	Z	0	2.75
105	MP1C	Mx	-.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	23.889	.5
2	MP2A	Z	13.792	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	23.889	6
5	MP2A	Z	13.792	6
6	MP2A	Mx	-.003	6
7	MP2B	X	30.712	.5
8	MP2B	Z	17.732	.5
9	MP2B	Mx	-.024	.5
10	MP2B	X	30.712	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	17.732	6
12	MP2B	Mx	-.024	6
13	MP2C	X	23.889	.5
14	MP2C	Z	13.792	.5
15	MP2C	Mx	.021	.5
16	MP2C	X	23.889	6
17	MP2C	Z	13.792	6
18	MP2C	Mx	.021	6
19	MP2A	X	23.889	.5
20	MP2A	Z	13.792	.5
21	MP2A	Mx	-.021	.5
22	MP2A	X	23.889	6
23	MP2A	Z	13.792	6
24	MP2A	Mx	-.021	6
25	MP2B	X	30.712	.5
26	MP2B	Z	17.732	.5
27	MP2B	Mx	.024	.5
28	MP2B	X	30.712	6
29	MP2B	Z	17.732	6
30	MP2B	Mx	.024	6
31	MP2C	X	23.889	.5
32	MP2C	Z	13.792	.5
33	MP2C	Mx	.003	.5
34	MP2C	X	23.889	6
35	MP2C	Z	13.792	6
36	MP2C	Mx	.003	6
37	MP4A	X	10.787	.25
38	MP4A	Z	6.228	.25
39	MP4A	Mx	-.005	.25
40	MP4A	X	10.787	2.25
41	MP4A	Z	6.228	2.25
42	MP4A	Mx	-.005	2.25
43	MP4B	X	18.478	.25
44	MP4B	Z	10.668	.25
45	MP4B	Mx	0	.25
46	MP4B	X	18.478	2.25
47	MP4B	Z	10.668	2.25
48	MP4B	Mx	0	2.25
49	MP4C	X	10.787	.25
50	MP4C	Z	6.228	.25
51	MP4C	Mx	.005	.25
52	MP4C	X	10.787	2.25
53	MP4C	Z	6.228	2.25
54	MP4C	Mx	.005	2.25
55	MP2A	X	11.912	1
56	MP2A	Z	6.878	1
57	MP2A	Mx	.006	1
58	MP2B	X	16.029	1
59	MP2B	Z	9.254	1
60	MP2B	Mx	0	1
61	MP2C	X	11.912	1
62	MP2C	Z	6.878	1
63	MP2C	Mx	-.006	1
64	MP2A	X	6.564	4
65	MP2A	Z	3.79	4
66	MP2A	Mx	.003	4
67	MP2B	X	9.436	4



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2B	Z	5.448	4
69	MP2B	Mx	0	4
70	MP2C	X	6.564	4
71	MP2C	Z	3.79	4
72	MP2C	Mx	-.003	4
73	MP3A	X	27.064	.25
74	MP3A	Z	15.626	.25
75	MP3A	Mx	.014	.25
76	MP3B	X	32.098	.25
77	MP3B	Z	18.532	.25
78	MP3B	Mx	0	.25
79	MP1B	X	23.54	.25
80	MP1B	Z	13.591	.25
81	MP1B	Mx	0	.25
82	MP1B	X	23.54	2.25
83	MP1B	Z	13.591	2.25
84	MP1B	Mx	0	2.25
85	MP1C	X	21.682	.25
86	MP1C	Z	12.518	.25
87	MP1C	Mx	.011	.25
88	MP1C	X	21.682	2.25
89	MP1C	Z	12.518	2.25
90	MP1C	Mx	.011	2.25
91	MP1A	X	14.141	.25
92	MP1A	Z	8.164	.25
93	MP1A	Mx	-.007	.25
94	MP1A	X	14.141	2.25
95	MP1A	Z	8.164	2.25
96	MP1A	Mx	-.007	2.25
97	MP1A	X	12.54	2.75
98	MP1A	Z	7.24	2.75
99	MP1A	Mx	.006	2.75
100	MP1B	X	16.029	2.75
101	MP1B	Z	9.254	2.75
102	MP1B	Mx	0	2.75
103	MP1C	X	12.54	2.75
104	MP1C	Z	7.24	2.75
105	MP1C	Mx	-.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.418	.5
2	MP2A	Z	28.438	.5
3	MP2A	Mx	.011	.5
4	MP2A	X	16.418	6
5	MP2A	Z	28.438	6
6	MP2A	Mx	.011	6
7	MP2B	X	16.418	.5
8	MP2B	Z	28.438	.5
9	MP2B	Mx	-.027	.5
10	MP2B	X	16.418	6
11	MP2B	Z	28.438	6
12	MP2B	Mx	-.027	6
13	MP2C	X	12.479	.5
14	MP2C	Z	21.614	.5
15	MP2C	Mx	.012	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	12.479	6
17	MP2C	Z	21.614	6
18	MP2C	Mx	.012	6
19	MP2A	X	16.418	.5
20	MP2A	Z	28.438	.5
21	MP2A	Mx	-.027	.5
22	MP2A	X	16.418	6
23	MP2A	Z	28.438	6
24	MP2A	Mx	-.027	6
25	MP2B	X	16.418	.5
26	MP2B	Z	28.438	.5
27	MP2B	Mx	.011	.5
28	MP2B	X	16.418	6
29	MP2B	Z	28.438	6
30	MP2B	Mx	.011	6
31	MP2C	X	12.479	.5
32	MP2C	Z	21.614	.5
33	MP2C	Mx	.012	.5
34	MP2C	X	12.479	6
35	MP2C	Z	21.614	6
36	MP2C	Mx	.012	6
37	MP4A	X	9.188	.25
38	MP4A	Z	15.914	.25
39	MP4A	Mx	-.005	.25
40	MP4A	X	9.188	2.25
41	MP4A	Z	15.914	2.25
42	MP4A	Mx	-.005	2.25
43	MP4B	X	9.188	.25
44	MP4B	Z	15.914	.25
45	MP4B	Mx	-.005	.25
46	MP4B	X	9.188	2.25
47	MP4B	Z	15.914	2.25
48	MP4B	Mx	-.005	2.25
49	MP4C	X	4.748	.25
50	MP4C	Z	8.224	.25
51	MP4C	Mx	.005	.25
52	MP4C	X	4.748	2.25
53	MP4C	Z	8.224	2.25
54	MP4C	Mx	.005	2.25
55	MP2A	X	8.462	1
56	MP2A	Z	14.657	1
57	MP2A	Mx	.004	1
58	MP2B	X	8.462	1
59	MP2B	Z	14.657	1
60	MP2B	Mx	.004	1
61	MP2C	X	6.085	1
62	MP2C	Z	10.54	1
63	MP2C	Mx	-.006	1
64	MP2A	X	4.895	4
65	MP2A	Z	8.479	4
66	MP2A	Mx	.002	4
67	MP2B	X	4.895	4
68	MP2B	Z	8.479	4
69	MP2B	Mx	.002	4
70	MP2C	X	3.237	4
71	MP2C	Z	5.607	4
72	MP2C	Mx	-.003	4



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	17.563	.25
74	MP3A	Z	30.42	.25
75	MP3A	Mx	.009	.25
76	MP3B	X	17.563	.25
77	MP3B	Z	30.42	.25
78	MP3B	Mx	.009	.25
79	MP1B	X	13.233	.25
80	MP1B	Z	22.92	.25
81	MP1B	Mx	-.007	.25
82	MP1B	X	13.233	2.25
83	MP1B	Z	22.92	2.25
84	MP1B	Mx	-.007	2.25
85	MP1C	X	12.161	.25
86	MP1C	Z	21.063	.25
87	MP1C	Mx	.012	.25
88	MP1C	X	12.161	2.25
89	MP1C	Z	21.063	2.25
90	MP1C	Mx	.012	2.25
91	MP1A	X	7.426	.25
92	MP1A	Z	12.861	.25
93	MP1A	Mx	-.004	.25
94	MP1A	X	7.426	2.25
95	MP1A	Z	12.861	2.25
96	MP1A	Mx	-.004	2.25
97	MP1A	X	8.583	2.75
98	MP1A	Z	14.866	2.75
99	MP1A	Mx	.004	2.75
100	MP1B	X	8.583	2.75
101	MP1B	Z	14.866	2.75
102	MP1B	Mx	.004	2.75
103	MP1C	X	6.569	2.75
104	MP1C	Z	11.378	2.75
105	MP1C	Mx	-.007	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	35.463	.5
3	MP2A	Mx	.024	.5
4	MP2A	X	0	6
5	MP2A	Z	35.463	6
6	MP2A	Mx	.024	6
7	MP2B	X	0	.5
8	MP2B	Z	27.584	.5
9	MP2B	Mx	-.021	.5
10	MP2B	X	0	6
11	MP2B	Z	27.584	6
12	MP2B	Mx	-.021	6
13	MP2C	X	0	.5
14	MP2C	Z	27.584	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	0	6
17	MP2C	Z	27.584	6
18	MP2C	Mx	.003	6
19	MP2A	X	0	.5
20	MP2A	Z	35.463	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	-.024	.5
22	MP2A	X	0	6
23	MP2A	Z	35.463	6
24	MP2A	Mx	-.024	6
25	MP2B	X	0	.5
26	MP2B	Z	27.584	.5
27	MP2B	Mx	-.003	.5
28	MP2B	X	0	6
29	MP2B	Z	27.584	6
30	MP2B	Mx	-.003	6
31	MP2C	X	0	.5
32	MP2C	Z	27.584	.5
33	MP2C	Mx	.021	.5
34	MP2C	X	0	6
35	MP2C	Z	27.584	6
36	MP2C	Mx	.021	6
37	MP4A	X	0	.25
38	MP4A	Z	21.336	.25
39	MP4A	Mx	0	.25
40	MP4A	X	0	2.25
41	MP4A	Z	21.336	2.25
42	MP4A	Mx	0	2.25
43	MP4B	X	0	.25
44	MP4B	Z	12.456	.25
45	MP4B	Mx	-.005	.25
46	MP4B	X	0	2.25
47	MP4B	Z	12.456	2.25
48	MP4B	Mx	-.005	2.25
49	MP4C	X	0	.25
50	MP4C	Z	12.456	.25
51	MP4C	Mx	.005	.25
52	MP4C	X	0	2.25
53	MP4C	Z	12.456	2.25
54	MP4C	Mx	.005	2.25
55	MP2A	X	0	1
56	MP2A	Z	18.508	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	13.755	1
60	MP2B	Mx	.006	1
61	MP2C	X	0	1
62	MP2C	Z	13.755	1
63	MP2C	Mx	-.006	1
64	MP2A	X	0	4
65	MP2A	Z	10.896	4
66	MP2A	Mx	0	4
67	MP2B	X	0	4
68	MP2B	Z	7.58	4
69	MP2B	Mx	.003	4
70	MP2C	X	0	4
71	MP2C	Z	7.58	4
72	MP2C	Mx	-.003	4
73	MP3A	X	0	.25
74	MP3A	Z	37.064	.25
75	MP3A	Mx	0	.25
76	MP3B	X	0	.25
77	MP3B	Z	31.251	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3B	Mx	.014	.25
79	MP1B	X	0	.25
80	MP1B	Z	25.036	.25
81	MP1B	Mx	-.011	.25
82	MP1B	X	0	2.25
83	MP1B	Z	25.036	2.25
84	MP1B	Mx	-.011	2.25
85	MP1C	X	0	.25
86	MP1C	Z	25.036	.25
87	MP1C	Mx	.011	.25
88	MP1C	X	0	2.25
89	MP1C	Z	25.036	2.25
90	MP1C	Mx	.011	2.25
91	MP1A	X	0	.25
92	MP1A	Z	14.112	.25
93	MP1A	Mx	0	.25
94	MP1A	X	0	2.25
95	MP1A	Z	14.112	2.25
96	MP1A	Mx	0	2.25
97	MP1A	X	0	2.75
98	MP1A	Z	18.508	2.75
99	MP1A	Mx	0	2.75
100	MP1B	X	0	2.75
101	MP1B	Z	14.48	2.75
102	MP1B	Mx	.006	2.75
103	MP1C	X	0	2.75
104	MP1C	Z	14.48	2.75
105	MP1C	Mx	-.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.418	.5
2	MP2A	Z	28.438	.5
3	MP2A	Mx	.027	.5
4	MP2A	X	-16.418	6
5	MP2A	Z	28.438	6
6	MP2A	Mx	.027	6
7	MP2B	X	-12.479	.5
8	MP2B	Z	21.614	.5
9	MP2B	Mx	-.012	.5
10	MP2B	X	-12.479	6
11	MP2B	Z	21.614	6
12	MP2B	Mx	-.012	6
13	MP2C	X	-16.418	.5
14	MP2C	Z	28.438	.5
15	MP2C	Mx	-.011	.5
16	MP2C	X	-16.418	6
17	MP2C	Z	28.438	6
18	MP2C	Mx	-.011	6
19	MP2A	X	-16.418	.5
20	MP2A	Z	28.438	.5
21	MP2A	Mx	-.011	.5
22	MP2A	X	-16.418	6
23	MP2A	Z	28.438	6
24	MP2A	Mx	-.011	6
25	MP2B	X	-12.479	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2B	Z	21.614	.5
27	MP2B	Mx	-.012	.5
28	MP2B	X	-12.479	6
29	MP2B	Z	21.614	6
30	MP2B	Mx	-.012	6
31	MP2C	X	-16.418	.5
32	MP2C	Z	28.438	.5
33	MP2C	Mx	.027	.5
34	MP2C	X	-16.418	6
35	MP2C	Z	28.438	6
36	MP2C	Mx	.027	6
37	MP4A	X	-9.188	.25
38	MP4A	Z	15.914	.25
39	MP4A	Mx	.005	.25
40	MP4A	X	-9.188	2.25
41	MP4A	Z	15.914	2.25
42	MP4A	Mx	.005	2.25
43	MP4B	X	-4.748	.25
44	MP4B	Z	8.224	.25
45	MP4B	Mx	-.005	.25
46	MP4B	X	-4.748	2.25
47	MP4B	Z	8.224	2.25
48	MP4B	Mx	-.005	2.25
49	MP4C	X	-9.188	.25
50	MP4C	Z	15.914	.25
51	MP4C	Mx	.005	.25
52	MP4C	X	-9.188	2.25
53	MP4C	Z	15.914	2.25
54	MP4C	Mx	.005	2.25
55	MP2A	X	-8.462	1
56	MP2A	Z	14.657	1
57	MP2A	Mx	-.004	1
58	MP2B	X	-6.085	1
59	MP2B	Z	10.54	1
60	MP2B	Mx	.006	1
61	MP2C	X	-8.462	1
62	MP2C	Z	14.657	1
63	MP2C	Mx	-.004	1
64	MP2A	X	-4.895	4
65	MP2A	Z	8.479	4
66	MP2A	Mx	-.002	4
67	MP2B	X	-3.237	4
68	MP2B	Z	5.607	4
69	MP2B	Mx	.003	4
70	MP2C	X	-4.895	4
71	MP2C	Z	8.479	4
72	MP2C	Mx	-.002	4
73	MP3A	X	-17.563	.25
74	MP3A	Z	30.42	.25
75	MP3A	Mx	-.009	.25
76	MP3B	X	-14.657	.25
77	MP3B	Z	25.386	.25
78	MP3B	Mx	.015	.25
79	MP1B	X	-12.161	.25
80	MP1B	Z	21.063	.25
81	MP1B	Mx	-.012	.25
82	MP1B	X	-12.161	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP1B	Z	21.063	2.25
84	MP1B	Mx	-.012	2.25
85	MP1C	X	-13.233	.25
86	MP1C	Z	22.92	.25
87	MP1C	Mx	.007	.25
88	MP1C	X	-13.233	2.25
89	MP1C	Z	22.92	2.25
90	MP1C	Mx	.007	2.25
91	MP1A	X	-7.426	.25
92	MP1A	Z	12.861	.25
93	MP1A	Mx	.004	.25
94	MP1A	X	-7.426	2.25
95	MP1A	Z	12.861	2.25
96	MP1A	Mx	.004	2.25
97	MP1A	X	-8.583	2.75
98	MP1A	Z	14.866	2.75
99	MP1A	Mx	-.004	2.75
100	MP1B	X	-6.569	2.75
101	MP1B	Z	11.378	2.75
102	MP1B	Mx	.007	2.75
103	MP1C	X	-8.583	2.75
104	MP1C	Z	14.866	2.75
105	MP1C	Mx	-.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-23.889	.5
2	MP2A	Z	13.792	.5
3	MP2A	Mx	.021	.5
4	MP2A	X	-23.889	6
5	MP2A	Z	13.792	6
6	MP2A	Mx	.021	6
7	MP2B	X	-23.889	.5
8	MP2B	Z	13.792	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	-23.889	6
11	MP2B	Z	13.792	6
12	MP2B	Mx	-.003	6
13	MP2C	X	-30.712	.5
14	MP2C	Z	17.732	.5
15	MP2C	Mx	-.024	.5
16	MP2C	X	-30.712	6
17	MP2C	Z	17.732	6
18	MP2C	Mx	-.024	6
19	MP2A	X	-23.889	.5
20	MP2A	Z	13.792	.5
21	MP2A	Mx	.003	.5
22	MP2A	X	-23.889	6
23	MP2A	Z	13.792	6
24	MP2A	Mx	.003	6
25	MP2B	X	-23.889	.5
26	MP2B	Z	13.792	.5
27	MP2B	Mx	-.021	.5
28	MP2B	X	-23.889	6
29	MP2B	Z	13.792	6
30	MP2B	Mx	-.021	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
31	MP2C	X	-30.712	.5
32	MP2C	Z	17.732	.5
33	MP2C	Mx	.024	.5
34	MP2C	X	-30.712	6
35	MP2C	Z	17.732	6
36	MP2C	Mx	.024	6
37	MP4A	X	-10.787	.25
38	MP4A	Z	6.228	.25
39	MP4A	Mx	.005	.25
40	MP4A	X	-10.787	2.25
41	MP4A	Z	6.228	2.25
42	MP4A	Mx	.005	2.25
43	MP4B	X	-10.787	.25
44	MP4B	Z	6.228	.25
45	MP4B	Mx	-.005	.25
46	MP4B	X	-10.787	2.25
47	MP4B	Z	6.228	2.25
48	MP4B	Mx	-.005	2.25
49	MP4C	X	-18.478	.25
50	MP4C	Z	10.668	.25
51	MP4C	Mx	0	.25
52	MP4C	X	-18.478	2.25
53	MP4C	Z	10.668	2.25
54	MP4C	Mx	0	2.25
55	MP2A	X	-11.912	1
56	MP2A	Z	6.878	1
57	MP2A	Mx	-.006	1
58	MP2B	X	-11.912	1
59	MP2B	Z	6.878	1
60	MP2B	Mx	.006	1
61	MP2C	X	-16.029	1
62	MP2C	Z	9.254	1
63	MP2C	Mx	0	1
64	MP2A	X	-6.564	4
65	MP2A	Z	3.79	4
66	MP2A	Mx	-.003	4
67	MP2B	X	-6.564	4
68	MP2B	Z	3.79	4
69	MP2B	Mx	.003	4
70	MP2C	X	-9.436	4
71	MP2C	Z	5.448	4
72	MP2C	Mx	0	4
73	MP3A	X	-27.064	.25
74	MP3A	Z	15.626	.25
75	MP3A	Mx	-.014	.25
76	MP3B	X	-27.064	.25
77	MP3B	Z	15.626	.25
78	MP3B	Mx	.014	.25
79	MP1B	X	-21.682	.25
80	MP1B	Z	12.518	.25
81	MP1B	Mx	-.011	.25
82	MP1B	X	-21.682	2.25
83	MP1B	Z	12.518	2.25
84	MP1B	Mx	-.011	2.25
85	MP1C	X	-23.54	.25
86	MP1C	Z	13.591	.25
87	MP1C	Mx	0	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP1C	X	-23.54	2.25
89	MP1C	Z	13.591	2.25
90	MP1C	Mx	0	2.25
91	MP1A	X	-14.141	.25
92	MP1A	Z	8.164	.25
93	MP1A	Mx	.007	.25
94	MP1A	X	-14.141	2.25
95	MP1A	Z	8.164	2.25
96	MP1A	Mx	.007	2.25
97	MP1A	X	-12.54	2.75
98	MP1A	Z	7.24	2.75
99	MP1A	Mx	-.006	2.75
100	MP1B	X	-12.54	2.75
101	MP1B	Z	7.24	2.75
102	MP1B	Mx	.006	2.75
103	MP1C	X	-16.029	2.75
104	MP1C	Z	9.254	2.75
105	MP1C	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-24.958	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.012	.5
4	MP2A	X	-24.958	6
5	MP2A	Z	0	6
6	MP2A	Mx	.012	6
7	MP2B	X	-32.837	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.011	.5
10	MP2B	X	-32.837	6
11	MP2B	Z	0	6
12	MP2B	Mx	.011	6
13	MP2C	X	-32.837	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.027	.5
16	MP2C	X	-32.837	6
17	MP2C	Z	0	6
18	MP2C	Mx	-.027	6
19	MP2A	X	-24.958	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.012	.5
22	MP2A	X	-24.958	6
23	MP2A	Z	0	6
24	MP2A	Mx	.012	6
25	MP2B	X	-32.837	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.027	.5
28	MP2B	X	-32.837	6
29	MP2B	Z	0	6
30	MP2B	Mx	-.027	6
31	MP2C	X	-32.837	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.011	.5
34	MP2C	X	-32.837	6
35	MP2C	Z	0	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	.011	6
37	MP4A	X	-9.496	.25
38	MP4A	Z	0	.25
39	MP4A	Mx	.005	.25
40	MP4A	X	-9.496	2.25
41	MP4A	Z	0	2.25
42	MP4A	Mx	.005	2.25
43	MP4B	X	-18.376	.25
44	MP4B	Z	0	.25
45	MP4B	Mx	-.005	.25
46	MP4B	X	-18.376	2.25
47	MP4B	Z	0	2.25
48	MP4B	Mx	-.005	2.25
49	MP4C	X	-18.376	.25
50	MP4C	Z	0	.25
51	MP4C	Mx	-.005	.25
52	MP4C	X	-18.376	2.25
53	MP4C	Z	0	2.25
54	MP4C	Mx	-.005	2.25
55	MP2A	X	-12.171	1
56	MP2A	Z	0	1
57	MP2A	Mx	-.006	1
58	MP2B	X	-16.924	1
59	MP2B	Z	0	1
60	MP2B	Mx	.004	1
61	MP2C	X	-16.924	1
62	MP2C	Z	0	1
63	MP2C	Mx	.004	1
64	MP2A	X	-6.474	4
65	MP2A	Z	0	4
66	MP2A	Mx	-.003	4
67	MP2B	X	-9.79	4
68	MP2B	Z	0	4
69	MP2B	Mx	.002	4
70	MP2C	X	-9.79	4
71	MP2C	Z	0	4
72	MP2C	Mx	.002	4
73	MP3A	X	-29.313	.25
74	MP3A	Z	0	.25
75	MP3A	Mx	-.015	.25
76	MP3B	X	-35.126	.25
77	MP3B	Z	0	.25
78	MP3B	Mx	.009	.25
79	MP1B	X	-26.466	.25
80	MP1B	Z	0	.25
81	MP1B	Mx	-.007	.25
82	MP1B	X	-26.466	2.25
83	MP1B	Z	0	2.25
84	MP1B	Mx	-.007	2.25
85	MP1C	X	-26.466	.25
86	MP1C	Z	0	.25
87	MP1C	Mx	-.007	.25
88	MP1C	X	-26.466	2.25
89	MP1C	Z	0	2.25
90	MP1C	Mx	-.007	2.25
91	MP1A	X	-17.067	.25
92	MP1A	Z	0	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP1A	Mx	.009	.25
94	MP1A	X	-17.067	2.25
95	MP1A	Z	0	2.25
96	MP1A	Mx	.009	2.25
97	MP1A	X	-13.138	2.75
98	MP1A	Z	0	2.75
99	MP1A	Mx	-.007	2.75
100	MP1B	X	-17.166	2.75
101	MP1B	Z	0	2.75
102	MP1B	Mx	.004	2.75
103	MP1C	X	-17.166	2.75
104	MP1C	Z	0	2.75
105	MP1C	Mx	.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-23.889	.5
2	MP2A	Z	-13.792	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	-23.889	6
5	MP2A	Z	-13.792	6
6	MP2A	Mx	.003	6
7	MP2B	X	-30.712	.5
8	MP2B	Z	-17.732	.5
9	MP2B	Mx	.024	.5
10	MP2B	X	-30.712	6
11	MP2B	Z	-17.732	6
12	MP2B	Mx	.024	6
13	MP2C	X	-23.889	.5
14	MP2C	Z	-13.792	.5
15	MP2C	Mx	-.021	.5
16	MP2C	X	-23.889	6
17	MP2C	Z	-13.792	6
18	MP2C	Mx	-.021	6
19	MP2A	X	-23.889	.5
20	MP2A	Z	-13.792	.5
21	MP2A	Mx	.021	.5
22	MP2A	X	-23.889	6
23	MP2A	Z	-13.792	6
24	MP2A	Mx	.021	6
25	MP2B	X	-30.712	.5
26	MP2B	Z	-17.732	.5
27	MP2B	Mx	-.024	.5
28	MP2B	X	-30.712	6
29	MP2B	Z	-17.732	6
30	MP2B	Mx	-.024	6
31	MP2C	X	-23.889	.5
32	MP2C	Z	-13.792	.5
33	MP2C	Mx	-.003	.5
34	MP2C	X	-23.889	6
35	MP2C	Z	-13.792	6
36	MP2C	Mx	-.003	6
37	MP4A	X	-10.787	.25
38	MP4A	Z	-6.228	.25
39	MP4A	Mx	.005	.25
40	MP4A	X	-10.787	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
41	MP4A	Z	-6.228	2.25
42	MP4A	Mx	.005	2.25
43	MP4B	X	-18.478	.25
44	MP4B	Z	-10.668	.25
45	MP4B	Mx	0	.25
46	MP4B	X	-18.478	2.25
47	MP4B	Z	-10.668	2.25
48	MP4B	Mx	0	2.25
49	MP4C	X	-10.787	.25
50	MP4C	Z	-6.228	.25
51	MP4C	Mx	-.005	.25
52	MP4C	X	-10.787	2.25
53	MP4C	Z	-6.228	2.25
54	MP4C	Mx	-.005	2.25
55	MP2A	X	-11.912	1
56	MP2A	Z	-6.878	1
57	MP2A	Mx	-.006	1
58	MP2B	X	-16.029	1
59	MP2B	Z	-9.254	1
60	MP2B	Mx	0	1
61	MP2C	X	-11.912	1
62	MP2C	Z	-6.878	1
63	MP2C	Mx	.006	1
64	MP2A	X	-6.564	4
65	MP2A	Z	-3.79	4
66	MP2A	Mx	-.003	4
67	MP2B	X	-9.436	4
68	MP2B	Z	-5.448	4
69	MP2B	Mx	0	4
70	MP2C	X	-6.564	4
71	MP2C	Z	-3.79	4
72	MP2C	Mx	.003	4
73	MP3A	X	-27.064	.25
74	MP3A	Z	-15.626	.25
75	MP3A	Mx	-.014	.25
76	MP3B	X	-32.098	.25
77	MP3B	Z	-18.532	.25
78	MP3B	Mx	0	.25
79	MP1B	X	-23.54	.25
80	MP1B	Z	-13.591	.25
81	MP1B	Mx	0	.25
82	MP1B	X	-23.54	2.25
83	MP1B	Z	-13.591	2.25
84	MP1B	Mx	0	2.25
85	MP1C	X	-21.682	.25
86	MP1C	Z	-12.518	.25
87	MP1C	Mx	-.011	.25
88	MP1C	X	-21.682	2.25
89	MP1C	Z	-12.518	2.25
90	MP1C	Mx	-.011	2.25
91	MP1A	X	-14.141	.25
92	MP1A	Z	-8.164	.25
93	MP1A	Mx	.007	.25
94	MP1A	X	-14.141	2.25
95	MP1A	Z	-8.164	2.25
96	MP1A	Mx	.007	2.25
97	MP1A	X	-12.54	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP1A	Z	-7.24	2.75
99	MP1A	Mx	-.006	2.75
100	MP1B	X	-16.029	2.75
101	MP1B	Z	-9.254	2.75
102	MP1B	Mx	0	2.75
103	MP1C	X	-12.54	2.75
104	MP1C	Z	-7.24	2.75
105	MP1C	Mx	.006	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-16.418	.5
2	MP2A	Z	-28.438	.5
3	MP2A	Mx	-.011	.5
4	MP2A	X	-16.418	6
5	MP2A	Z	-28.438	6
6	MP2A	Mx	-.011	6
7	MP2B	X	-16.418	.5
8	MP2B	Z	-28.438	.5
9	MP2B	Mx	.027	.5
10	MP2B	X	-16.418	6
11	MP2B	Z	-28.438	6
12	MP2B	Mx	.027	6
13	MP2C	X	-12.479	.5
14	MP2C	Z	-21.614	.5
15	MP2C	Mx	-.012	.5
16	MP2C	X	-12.479	6
17	MP2C	Z	-21.614	6
18	MP2C	Mx	-.012	6
19	MP2A	X	-16.418	.5
20	MP2A	Z	-28.438	.5
21	MP2A	Mx	.027	.5
22	MP2A	X	-16.418	6
23	MP2A	Z	-28.438	6
24	MP2A	Mx	.027	6
25	MP2B	X	-16.418	.5
26	MP2B	Z	-28.438	.5
27	MP2B	Mx	-.011	.5
28	MP2B	X	-16.418	6
29	MP2B	Z	-28.438	6
30	MP2B	Mx	-.011	6
31	MP2C	X	-12.479	.5
32	MP2C	Z	-21.614	.5
33	MP2C	Mx	-.012	.5
34	MP2C	X	-12.479	6
35	MP2C	Z	-21.614	6
36	MP2C	Mx	-.012	6
37	MP4A	X	-9.188	.25
38	MP4A	Z	-15.914	.25
39	MP4A	Mx	.005	.25
40	MP4A	X	-9.188	2.25
41	MP4A	Z	-15.914	2.25
42	MP4A	Mx	.005	2.25
43	MP4B	X	-9.188	.25
44	MP4B	Z	-15.914	.25
45	MP4B	Mx	.005	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
46	MP4B	X	-9.188	2.25
47	MP4B	Z	-15.914	2.25
48	MP4B	Mx	.005	2.25
49	MP4C	X	-4.748	.25
50	MP4C	Z	-8.224	.25
51	MP4C	Mx	-.005	.25
52	MP4C	X	-4.748	2.25
53	MP4C	Z	-8.224	2.25
54	MP4C	Mx	-.005	2.25
55	MP2A	X	-8.462	1
56	MP2A	Z	-14.657	1
57	MP2A	Mx	-.004	1
58	MP2B	X	-8.462	1
59	MP2B	Z	-14.657	1
60	MP2B	Mx	-.004	1
61	MP2C	X	-6.085	1
62	MP2C	Z	-10.54	1
63	MP2C	Mx	.006	1
64	MP2A	X	-4.895	4
65	MP2A	Z	-8.479	4
66	MP2A	Mx	-.002	4
67	MP2B	X	-4.895	4
68	MP2B	Z	-8.479	4
69	MP2B	Mx	-.002	4
70	MP2C	X	-3.237	4
71	MP2C	Z	-5.607	4
72	MP2C	Mx	.003	4
73	MP3A	X	-17.563	.25
74	MP3A	Z	-30.42	.25
75	MP3A	Mx	-.009	.25
76	MP3B	X	-17.563	.25
77	MP3B	Z	-30.42	.25
78	MP3B	Mx	-.009	.25
79	MP1B	X	-13.233	.25
80	MP1B	Z	-22.92	.25
81	MP1B	Mx	.007	.25
82	MP1B	X	-13.233	2.25
83	MP1B	Z	-22.92	2.25
84	MP1B	Mx	.007	2.25
85	MP1C	X	-12.161	.25
86	MP1C	Z	-21.063	.25
87	MP1C	Mx	-.012	.25
88	MP1C	X	-12.161	2.25
89	MP1C	Z	-21.063	2.25
90	MP1C	Mx	-.012	2.25
91	MP1A	X	-7.426	.25
92	MP1A	Z	-12.861	.25
93	MP1A	Mx	.004	.25
94	MP1A	X	-7.426	2.25
95	MP1A	Z	-12.861	2.25
96	MP1A	Mx	.004	2.25
97	MP1A	X	-8.583	2.75
98	MP1A	Z	-14.866	2.75
99	MP1A	Mx	-.004	2.75
100	MP1B	X	-8.583	2.75
101	MP1B	Z	-14.866	2.75
102	MP1B	Mx	-.004	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP1C	X	-6.569	2.75
104	MP1C	Z	-11.378	2.75
105	MP1C	Mx	.007	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-7.387	.5
3	MP2A	Mx	-.005	.5
4	MP2A	X	0	6
5	MP2A	Z	-7.387	6
6	MP2A	Mx	-.005	6
7	MP2B	X	0	.5
8	MP2B	Z	-4.224	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	0	6
11	MP2B	Z	-4.224	6
12	MP2B	Mx	.003	6
13	MP2C	X	0	.5
14	MP2C	Z	-4.224	.5
15	MP2C	Mx	-.000421	.5
16	MP2C	X	0	6
17	MP2C	Z	-4.224	6
18	MP2C	Mx	-.000421	6
19	MP2A	X	0	.5
20	MP2A	Z	-10.951	.5
21	MP2A	Mx	.007	.5
22	MP2A	X	0	6
23	MP2A	Z	-10.951	6
24	MP2A	Mx	.007	6
25	MP2B	X	0	.5
26	MP2B	Z	-8.188	.5
27	MP2B	Mx	.000816	.5
28	MP2B	X	0	6
29	MP2B	Z	-8.188	6
30	MP2B	Mx	.000816	6
31	MP2C	X	0	.5
32	MP2C	Z	-8.188	.5
33	MP2C	Mx	-.006	.5
34	MP2C	X	0	6
35	MP2C	Z	-8.188	6
36	MP2C	Mx	-.006	6
37	MP4A	X	0	.25
38	MP4A	Z	-5.333	.25
39	MP4A	Mx	0	.25
40	MP4A	X	0	2.25
41	MP4A	Z	-5.333	2.25
42	MP4A	Mx	0	2.25
43	MP4B	X	0	.25
44	MP4B	Z	-2.711	.25
45	MP4B	Mx	.001	.25
46	MP4B	X	0	2.25
47	MP4B	Z	-2.711	2.25
48	MP4B	Mx	.001	2.25
49	MP4C	X	0	.25
50	MP4C	Z	-2.711	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP4C	Mx	-.001	.25
52	MP4C	X	0	2.25
53	MP4C	Z	-2.711	2.25
54	MP4C	Mx	-.001	2.25
55	MP2A	X	0	1
56	MP2A	Z	-4.217	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	-2.973	1
60	MP2B	Mx	-.001	1
61	MP2C	X	0	1
62	MP2C	Z	-2.973	1
63	MP2C	Mx	.001	1
64	MP2A	X	0	4
65	MP2A	Z	-1.959	4
66	MP2A	Mx	0	4
67	MP2B	X	0	4
68	MP2B	Z	-1.184	4
69	MP2B	Mx	-.000513	4
70	MP2C	X	0	4
71	MP2C	Z	-1.184	4
72	MP2C	Mx	.000513	4
73	MP3A	X	0	.25
74	MP3A	Z	-8.625	.25
75	MP3A	Mx	0	.25
76	MP3B	X	0	.25
77	MP3B	Z	-7.074	.25
78	MP3B	Mx	-.003	.25
79	MP1B	X	0	.25
80	MP1B	Z	-7.627	.25
81	MP1B	Mx	.003	.25
82	MP1B	X	0	2.25
83	MP1B	Z	-7.627	2.25
84	MP1B	Mx	.003	2.25
85	MP1C	X	0	.25
86	MP1C	Z	-7.627	.25
87	MP1C	Mx	-.003	.25
88	MP1C	X	0	2.25
89	MP1C	Z	-7.627	2.25
90	MP1C	Mx	-.003	2.25
91	MP1A	X	0	.25
92	MP1A	Z	-3.891	.25
93	MP1A	Mx	0	.25
94	MP1A	X	0	2.25
95	MP1A	Z	-3.891	2.25
96	MP1A	Mx	0	2.25
97	MP1A	X	0	2.75
98	MP1A	Z	-4.217	2.75
99	MP1A	Mx	0	2.75
100	MP1B	X	0	2.75
101	MP1B	Z	-3.177	2.75
102	MP1B	Mx	-.001	2.75
103	MP1C	X	0	2.75
104	MP1C	Z	-3.177	2.75
105	MP1C	Mx	.001	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	3.166	.5
2	MP2A	Z	-5.484	.5
3	MP2A	Mx	-.005	.5
4	MP2A	X	3.166	6
5	MP2A	Z	-5.484	6
6	MP2A	Mx	-.005	6
7	MP2B	X	1.585	.5
8	MP2B	Z	-2.745	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	1.585	6
11	MP2B	Z	-2.745	6
12	MP2B	Mx	.002	6
13	MP2C	X	3.166	.5
14	MP2C	Z	-5.484	.5
15	MP2C	Mx	.002	.5
16	MP2C	X	3.166	6
17	MP2C	Z	-5.484	6
18	MP2C	Mx	.002	6
19	MP2A	X	5.015	.5
20	MP2A	Z	-8.686	.5
21	MP2A	Mx	.003	.5
22	MP2A	X	5.015	6
23	MP2A	Z	-8.686	6
24	MP2A	Mx	.003	6
25	MP2B	X	3.633	.5
26	MP2B	Z	-6.293	.5
27	MP2B	Mx	.004	.5
28	MP2B	X	3.633	6
29	MP2B	Z	-6.293	6
30	MP2B	Mx	.004	6
31	MP2C	X	5.015	.5
32	MP2C	Z	-8.686	.5
33	MP2C	Mx	-.008	.5
34	MP2C	X	5.015	6
35	MP2C	Z	-8.686	6
36	MP2C	Mx	-.008	6
37	MP4A	X	2.229	.25
38	MP4A	Z	-3.861	.25
39	MP4A	Mx	-.001	.25
40	MP4A	X	2.229	2.25
41	MP4A	Z	-3.861	2.25
42	MP4A	Mx	-.001	2.25
43	MP4B	X	.918	.25
44	MP4B	Z	-1.591	.25
45	MP4B	Mx	.000918	.25
46	MP4B	X	.918	2.25
47	MP4B	Z	-1.591	2.25
48	MP4B	Mx	.000918	2.25
49	MP4C	X	2.229	.25
50	MP4C	Z	-3.861	.25
51	MP4C	Mx	-.001	.25
52	MP4C	X	2.229	2.25
53	MP4C	Z	-3.861	2.25
54	MP4C	Mx	-.001	2.25
55	MP2A	X	1.901	1
56	MP2A	Z	-3.293	1
57	MP2A	Mx	.000951	1



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2B	X	1.279	1
59	MP2B	Z	-2.215	1
60	MP2B	Mx	-.001	1
61	MP2C	X	1.901	1
62	MP2C	Z	-3.293	1
63	MP2C	Mx	.000951	1
64	MP2A	X	.85	4
65	MP2A	Z	-1.473	4
66	MP2A	Mx	.000425	4
67	MP2B	X	.463	4
68	MP2B	Z	-.801	4
69	MP2B	Mx	-.000463	4
70	MP2C	X	.85	4
71	MP2C	Z	-1.473	4
72	MP2C	Mx	.000425	4
73	MP3A	X	4.054	.25
74	MP3A	Z	-7.022	.25
75	MP3A	Mx	.002	.25
76	MP3B	X	3.279	.25
77	MP3B	Z	-5.679	.25
78	MP3B	Mx	-.003	.25
79	MP1B	X	3.69	.25
80	MP1B	Z	-6.391	.25
81	MP1B	Mx	.004	.25
82	MP1B	X	3.69	2.25
83	MP1B	Z	-6.391	2.25
84	MP1B	Mx	.004	2.25
85	MP1C	X	4.06	.25
86	MP1C	Z	-7.032	.25
87	MP1C	Mx	-.002	.25
88	MP1C	X	4.06	2.25
89	MP1C	Z	-7.032	2.25
90	MP1C	Mx	-.002	2.25
91	MP1A	X	2.074	.25
92	MP1A	Z	-3.592	.25
93	MP1A	Mx	-.001	.25
94	MP1A	X	2.074	2.25
95	MP1A	Z	-3.592	2.25
96	MP1A	Mx	-.001	2.25
97	MP1A	X	1.935	2.75
98	MP1A	Z	-3.352	2.75
99	MP1A	Mx	.000967	2.75
100	MP1B	X	1.415	2.75
101	MP1B	Z	-2.451	2.75
102	MP1B	Mx	-.001	2.75
103	MP1C	X	1.935	2.75
104	MP1C	Z	-3.352	2.75
105	MP1C	Mx	.000968	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.658	.5
2	MP2A	Z	-2.112	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	3.658	6
5	MP2A	Z	-2.112	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	-.003	6
7	MP2B	X	3.658	.5
8	MP2B	Z	-2.112	.5
9	MP2B	Mx	.000421	.5
10	MP2B	X	3.658	6
11	MP2B	Z	-2.112	6
12	MP2B	Mx	.000421	6
13	MP2C	X	6.397	.5
14	MP2C	Z	-3.694	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	6.397	6
17	MP2C	Z	-3.694	6
18	MP2C	Mx	.005	6
19	MP2A	X	7.091	.5
20	MP2A	Z	-4.094	.5
21	MP2A	Mx	-.000816	.5
22	MP2A	X	7.091	6
23	MP2A	Z	-4.094	6
24	MP2A	Mx	-.000816	6
25	MP2B	X	7.091	.5
26	MP2B	Z	-4.094	.5
27	MP2B	Mx	.006	.5
28	MP2B	X	7.091	6
29	MP2B	Z	-4.094	6
30	MP2B	Mx	.006	6
31	MP2C	X	9.484	.5
32	MP2C	Z	-5.476	.5
33	MP2C	Mx	-.007	.5
34	MP2C	X	9.484	6
35	MP2C	Z	-5.476	6
36	MP2C	Mx	-.007	6
37	MP4A	X	2.347	.25
38	MP4A	Z	-1.355	.25
39	MP4A	Mx	-.001	.25
40	MP4A	X	2.347	2.25
41	MP4A	Z	-1.355	2.25
42	MP4A	Mx	-.001	2.25
43	MP4B	X	2.347	.25
44	MP4B	Z	-1.355	.25
45	MP4B	Mx	.001	.25
46	MP4B	X	2.347	2.25
47	MP4B	Z	-1.355	2.25
48	MP4B	Mx	.001	2.25
49	MP4C	X	4.618	.25
50	MP4C	Z	-2.666	.25
51	MP4C	Mx	0	.25
52	MP4C	X	4.618	2.25
53	MP4C	Z	-2.666	2.25
54	MP4C	Mx	0	2.25
55	MP2A	X	2.574	1
56	MP2A	Z	-1.486	1
57	MP2A	Mx	.001	1
58	MP2B	X	2.574	1
59	MP2B	Z	-1.486	1
60	MP2B	Mx	-.001	1
61	MP2C	X	3.652	1
62	MP2C	Z	-2.109	1



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	0	1
64	MP2A	X	1.025	4
65	MP2A	Z	-.592	4
66	MP2A	Mx	.000512	4
67	MP2B	X	1.025	4
68	MP2B	Z	-.592	4
69	MP2B	Mx	-.000513	4
70	MP2C	X	1.697	4
71	MP2C	Z	-.98	4
72	MP2C	Mx	0	4
73	MP3A	X	6.126	.25
74	MP3A	Z	-3.537	.25
75	MP3A	Mx	.003	.25
76	MP3B	X	6.126	.25
77	MP3B	Z	-3.537	.25
78	MP3B	Mx	-.003	.25
79	MP1B	X	6.605	.25
80	MP1B	Z	-3.813	.25
81	MP1B	Mx	.003	.25
82	MP1B	X	6.605	2.25
83	MP1B	Z	-3.813	2.25
84	MP1B	Mx	.003	2.25
85	MP1C	X	7.246	.25
86	MP1C	Z	-4.183	.25
87	MP1C	Mx	0	.25
88	MP1C	X	7.246	2.25
89	MP1C	Z	-4.183	2.25
90	MP1C	Mx	0	2.25
91	MP1A	X	4.037	.25
92	MP1A	Z	-2.33	.25
93	MP1A	Mx	-.002	.25
94	MP1A	X	4.037	2.25
95	MP1A	Z	-2.33	2.25
96	MP1A	Mx	-.002	2.25
97	MP1A	X	2.751	2.75
98	MP1A	Z	-1.588	2.75
99	MP1A	Mx	.001	2.75
100	MP1B	X	2.751	2.75
101	MP1B	Z	-1.588	2.75
102	MP1B	Mx	-.001	2.75
103	MP1C	X	3.652	2.75
104	MP1C	Z	-2.109	2.75
105	MP1C	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.17	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.002	.5
4	MP2A	X	3.17	6
5	MP2A	Z	0	6
6	MP2A	Mx	-.002	6
7	MP2B	X	6.333	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	6.333	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	0	6
12	MP2B	Mx	-.002	6
13	MP2C	X	6.333	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	6.333	6
17	MP2C	Z	0	6
18	MP2C	Mx	.005	6
19	MP2A	X	7.267	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	7.267	6
23	MP2A	Z	0	6
24	MP2A	Mx	-.004	6
25	MP2B	X	10.03	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.008	.5
28	MP2B	X	10.03	6
29	MP2B	Z	0	6
30	MP2B	Mx	.008	6
31	MP2C	X	10.03	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.003	.5
34	MP2C	X	10.03	6
35	MP2C	Z	0	6
36	MP2C	Mx	-.003	6
37	MP4A	X	1.837	.25
38	MP4A	Z	0	.25
39	MP4A	Mx	-.000918	.25
40	MP4A	X	1.837	2.25
41	MP4A	Z	0	2.25
42	MP4A	Mx	-.000918	2.25
43	MP4B	X	4.459	.25
44	MP4B	Z	0	.25
45	MP4B	Mx	.001	.25
46	MP4B	X	4.459	2.25
47	MP4B	Z	0	2.25
48	MP4B	Mx	.001	2.25
49	MP4C	X	4.459	.25
50	MP4C	Z	0	.25
51	MP4C	Mx	.001	.25
52	MP4C	X	4.459	2.25
53	MP4C	Z	0	2.25
54	MP4C	Mx	.001	2.25
55	MP2A	X	2.558	1
56	MP2A	Z	0	1
57	MP2A	Mx	.001	1
58	MP2B	X	3.802	1
59	MP2B	Z	0	1
60	MP2B	Mx	-.000951	1
61	MP2C	X	3.802	1
62	MP2C	Z	0	1
63	MP2C	Mx	-.000951	1
64	MP2A	X	.925	4
65	MP2A	Z	0	4
66	MP2A	Mx	.000463	4
67	MP2B	X	1.701	4



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2B	Z	0	4
69	MP2B	Mx	-.000425	4
70	MP2C	X	1.701	4
71	MP2C	Z	0	4
72	MP2C	Mx	-.000425	4
73	MP3A	X	6.557	.25
74	MP3A	Z	0	.25
75	MP3A	Mx	.003	.25
76	MP3B	X	8.108	.25
77	MP3B	Z	0	.25
78	MP3B	Mx	-.002	.25
79	MP1B	X	8.12	.25
80	MP1B	Z	0	.25
81	MP1B	Mx	.002	.25
82	MP1B	X	8.12	2.25
83	MP1B	Z	0	2.25
84	MP1B	Mx	.002	2.25
85	MP1C	X	8.12	.25
86	MP1C	Z	0	.25
87	MP1C	Mx	.002	.25
88	MP1C	X	8.12	2.25
89	MP1C	Z	0	2.25
90	MP1C	Mx	.002	2.25
91	MP1A	X	4.918	.25
92	MP1A	Z	0	.25
93	MP1A	Mx	-.002	.25
94	MP1A	X	4.918	2.25
95	MP1A	Z	0	2.25
96	MP1A	Mx	-.002	2.25
97	MP1A	X	2.83	2.75
98	MP1A	Z	0	2.75
99	MP1A	Mx	.001	2.75
100	MP1B	X	3.87	2.75
101	MP1B	Z	0	2.75
102	MP1B	Mx	-.000967	2.75
103	MP1C	X	3.87	2.75
104	MP1C	Z	0	2.75
105	MP1C	Mx	-.000967	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.658	.5
2	MP2A	Z	2.112	.5
3	MP2A	Mx	-.000421	.5
4	MP2A	X	3.658	6
5	MP2A	Z	2.112	6
6	MP2A	Mx	-.000421	6
7	MP2B	X	6.397	.5
8	MP2B	Z	3.694	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	6.397	6
11	MP2B	Z	3.694	6
12	MP2B	Mx	-.005	6
13	MP2C	X	3.658	.5
14	MP2C	Z	2.112	.5
15	MP2C	Mx	.003	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	3.658	6
17	MP2C	Z	2.112	6
18	MP2C	Mx	.003	6
19	MP2A	X	7.091	.5
20	MP2A	Z	4.094	.5
21	MP2A	Mx	-.006	.5
22	MP2A	X	7.091	6
23	MP2A	Z	4.094	6
24	MP2A	Mx	-.006	6
25	MP2B	X	9.484	.5
26	MP2B	Z	5.476	.5
27	MP2B	Mx	.007	.5
28	MP2B	X	9.484	6
29	MP2B	Z	5.476	6
30	MP2B	Mx	.007	6
31	MP2C	X	7.091	.5
32	MP2C	Z	4.094	.5
33	MP2C	Mx	.000816	.5
34	MP2C	X	7.091	6
35	MP2C	Z	4.094	6
36	MP2C	Mx	.000816	6
37	MP4A	X	2.347	.25
38	MP4A	Z	1.355	.25
39	MP4A	Mx	-.001	.25
40	MP4A	X	2.347	2.25
41	MP4A	Z	1.355	2.25
42	MP4A	Mx	-.001	2.25
43	MP4B	X	4.618	.25
44	MP4B	Z	2.666	.25
45	MP4B	Mx	0	.25
46	MP4B	X	4.618	2.25
47	MP4B	Z	2.666	2.25
48	MP4B	Mx	0	2.25
49	MP4C	X	2.347	.25
50	MP4C	Z	1.355	.25
51	MP4C	Mx	.001	.25
52	MP4C	X	2.347	2.25
53	MP4C	Z	1.355	2.25
54	MP4C	Mx	.001	2.25
55	MP2A	X	2.574	1
56	MP2A	Z	1.486	1
57	MP2A	Mx	.001	1
58	MP2B	X	3.652	1
59	MP2B	Z	2.109	1
60	MP2B	Mx	0	1
61	MP2C	X	2.574	1
62	MP2C	Z	1.486	1
63	MP2C	Mx	-.001	1
64	MP2A	X	1.025	4
65	MP2A	Z	.592	4
66	MP2A	Mx	.000512	4
67	MP2B	X	1.697	4
68	MP2B	Z	.98	4
69	MP2B	Mx	0	4
70	MP2C	X	1.025	4
71	MP2C	Z	.592	4
72	MP2C	Mx	-.000513	4



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	6.126	.25
74	MP3A	Z	3.537	.25
75	MP3A	Mx	.003	.25
76	MP3B	X	7.47	.25
77	MP3B	Z	4.313	.25
78	MP3B	Mx	0	.25
79	MP1B	X	7.246	.25
80	MP1B	Z	4.183	.25
81	MP1B	Mx	0	.25
82	MP1B	X	7.246	2.25
83	MP1B	Z	4.183	2.25
84	MP1B	Mx	0	2.25
85	MP1C	X	6.605	.25
86	MP1C	Z	3.813	.25
87	MP1C	Mx	.003	.25
88	MP1C	X	6.605	2.25
89	MP1C	Z	3.813	2.25
90	MP1C	Mx	.003	2.25
91	MP1A	X	4.037	.25
92	MP1A	Z	2.33	.25
93	MP1A	Mx	-.002	.25
94	MP1A	X	4.037	2.25
95	MP1A	Z	2.33	2.25
96	MP1A	Mx	-.002	2.25
97	MP1A	X	2.751	2.75
98	MP1A	Z	1.588	2.75
99	MP1A	Mx	.001	2.75
100	MP1B	X	3.652	2.75
101	MP1B	Z	2.109	2.75
102	MP1B	Mx	0	2.75
103	MP1C	X	2.751	2.75
104	MP1C	Z	1.588	2.75
105	MP1C	Mx	-.001	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.166	.5
2	MP2A	Z	5.484	.5
3	MP2A	Mx	.002	.5
4	MP2A	X	3.166	6
5	MP2A	Z	5.484	6
6	MP2A	Mx	.002	6
7	MP2B	X	3.166	.5
8	MP2B	Z	5.484	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	3.166	6
11	MP2B	Z	5.484	6
12	MP2B	Mx	-.005	6
13	MP2C	X	1.585	.5
14	MP2C	Z	2.745	.5
15	MP2C	Mx	.002	.5
16	MP2C	X	1.585	6
17	MP2C	Z	2.745	6
18	MP2C	Mx	.002	6
19	MP2A	X	5.015	.5
20	MP2A	Z	8.686	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Mx	-.008	.5
22	MP2A	X	5.015	6
23	MP2A	Z	8.686	6
24	MP2A	Mx	-.008	6
25	MP2B	X	5.015	.5
26	MP2B	Z	8.686	.5
27	MP2B	Mx	.003	.5
28	MP2B	X	5.015	6
29	MP2B	Z	8.686	6
30	MP2B	Mx	.003	6
31	MP2C	X	3.633	.5
32	MP2C	Z	6.293	.5
33	MP2C	Mx	.004	.5
34	MP2C	X	3.633	6
35	MP2C	Z	6.293	6
36	MP2C	Mx	.004	6
37	MP4A	X	2.229	.25
38	MP4A	Z	3.861	.25
39	MP4A	Mx	-.001	.25
40	MP4A	X	2.229	2.25
41	MP4A	Z	3.861	2.25
42	MP4A	Mx	-.001	2.25
43	MP4B	X	2.229	.25
44	MP4B	Z	3.861	.25
45	MP4B	Mx	-.001	.25
46	MP4B	X	2.229	2.25
47	MP4B	Z	3.861	2.25
48	MP4B	Mx	-.001	2.25
49	MP4C	X	.918	.25
50	MP4C	Z	1.591	.25
51	MP4C	Mx	.000918	.25
52	MP4C	X	.918	2.25
53	MP4C	Z	1.591	2.25
54	MP4C	Mx	.000918	2.25
55	MP2A	X	1.901	1
56	MP2A	Z	3.293	1
57	MP2A	Mx	.000951	1
58	MP2B	X	1.901	1
59	MP2B	Z	3.293	1
60	MP2B	Mx	.000951	1
61	MP2C	X	1.279	1
62	MP2C	Z	2.215	1
63	MP2C	Mx	-.001	1
64	MP2A	X	.85	4
65	MP2A	Z	1.473	4
66	MP2A	Mx	.000425	4
67	MP2B	X	.85	4
68	MP2B	Z	1.473	4
69	MP2B	Mx	.000425	4
70	MP2C	X	.463	4
71	MP2C	Z	.801	4
72	MP2C	Mx	-.000463	4
73	MP3A	X	4.054	.25
74	MP3A	Z	7.022	.25
75	MP3A	Mx	.002	.25
76	MP3B	X	4.054	.25
77	MP3B	Z	7.022	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3B	Mx	.002	.25
79	MP1B	X	4.06	.25
80	MP1B	Z	7.032	.25
81	MP1B	Mx	-.002	.25
82	MP1B	X	4.06	2.25
83	MP1B	Z	7.032	2.25
84	MP1B	Mx	-.002	2.25
85	MP1C	X	3.69	.25
86	MP1C	Z	6.391	.25
87	MP1C	Mx	.004	.25
88	MP1C	X	3.69	2.25
89	MP1C	Z	6.391	2.25
90	MP1C	Mx	.004	2.25
91	MP1A	X	2.074	.25
92	MP1A	Z	3.592	.25
93	MP1A	Mx	-.001	.25
94	MP1A	X	2.074	2.25
95	MP1A	Z	3.592	2.25
96	MP1A	Mx	-.001	2.25
97	MP1A	X	1.935	2.75
98	MP1A	Z	3.352	2.75
99	MP1A	Mx	.000967	2.75
100	MP1B	X	1.935	2.75
101	MP1B	Z	3.352	2.75
102	MP1B	Mx	.000968	2.75
103	MP1C	X	1.415	2.75
104	MP1C	Z	2.451	2.75
105	MP1C	Mx	-.001	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	7.387	.5
3	MP2A	Mx	.005	.5
4	MP2A	X	0	6
5	MP2A	Z	7.387	6
6	MP2A	Mx	.005	6
7	MP2B	X	0	.5
8	MP2B	Z	4.224	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	0	6
11	MP2B	Z	4.224	6
12	MP2B	Mx	-.003	6
13	MP2C	X	0	.5
14	MP2C	Z	4.224	.5
15	MP2C	Mx	.000421	.5
16	MP2C	X	0	6
17	MP2C	Z	4.224	6
18	MP2C	Mx	.000421	6
19	MP2A	X	0	.5
20	MP2A	Z	10.951	.5
21	MP2A	Mx	-.007	.5
22	MP2A	X	0	6
23	MP2A	Z	10.951	6
24	MP2A	Mx	-.007	6
25	MP2B	X	0	.5



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2B	Z	8.188	.5
27	MP2B	Mx	-.000816	.5
28	MP2B	X	0	6
29	MP2B	Z	8.188	6
30	MP2B	Mx	-.000816	6
31	MP2C	X	0	.5
32	MP2C	Z	8.188	.5
33	MP2C	Mx	.006	.5
34	MP2C	X	0	6
35	MP2C	Z	8.188	6
36	MP2C	Mx	.006	6
37	MP4A	X	0	.25
38	MP4A	Z	5.333	.25
39	MP4A	Mx	0	.25
40	MP4A	X	0	2.25
41	MP4A	Z	5.333	2.25
42	MP4A	Mx	0	2.25
43	MP4B	X	0	.25
44	MP4B	Z	2.711	.25
45	MP4B	Mx	-.001	.25
46	MP4B	X	0	2.25
47	MP4B	Z	2.711	2.25
48	MP4B	Mx	-.001	2.25
49	MP4C	X	0	.25
50	MP4C	Z	2.711	.25
51	MP4C	Mx	.001	.25
52	MP4C	X	0	2.25
53	MP4C	Z	2.711	2.25
54	MP4C	Mx	.001	2.25
55	MP2A	X	0	1
56	MP2A	Z	4.217	1
57	MP2A	Mx	0	1
58	MP2B	X	0	1
59	MP2B	Z	2.973	1
60	MP2B	Mx	.001	1
61	MP2C	X	0	1
62	MP2C	Z	2.973	1
63	MP2C	Mx	-.001	1
64	MP2A	X	0	4
65	MP2A	Z	1.959	4
66	MP2A	Mx	0	4
67	MP2B	X	0	4
68	MP2B	Z	1.184	4
69	MP2B	Mx	.000513	4
70	MP2C	X	0	4
71	MP2C	Z	1.184	4
72	MP2C	Mx	-.000513	4
73	MP3A	X	0	.25
74	MP3A	Z	8.625	.25
75	MP3A	Mx	0	.25
76	MP3B	X	0	.25
77	MP3B	Z	7.074	.25
78	MP3B	Mx	.003	.25
79	MP1B	X	0	.25
80	MP1B	Z	7.627	.25
81	MP1B	Mx	-.003	.25
82	MP1B	X	0	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP1B	Z	7.627	2.25
84	MP1B	Mx	-.003	2.25
85	MP1C	X	0	.25
86	MP1C	Z	7.627	.25
87	MP1C	Mx	.003	.25
88	MP1C	X	0	2.25
89	MP1C	Z	7.627	2.25
90	MP1C	Mx	.003	2.25
91	MP1A	X	0	.25
92	MP1A	Z	3.891	.25
93	MP1A	Mx	0	.25
94	MP1A	X	0	2.25
95	MP1A	Z	3.891	2.25
96	MP1A	Mx	0	2.25
97	MP1A	X	0	2.75
98	MP1A	Z	4.217	2.75
99	MP1A	Mx	0	2.75
100	MP1B	X	0	2.75
101	MP1B	Z	3.177	2.75
102	MP1B	Mx	.001	2.75
103	MP1C	X	0	2.75
104	MP1C	Z	3.177	2.75
105	MP1C	Mx	-.001	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.166	.5
2	MP2A	Z	5.484	.5
3	MP2A	Mx	.005	.5
4	MP2A	X	-3.166	6
5	MP2A	Z	5.484	6
6	MP2A	Mx	.005	6
7	MP2B	X	-1.585	.5
8	MP2B	Z	2.745	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	-1.585	6
11	MP2B	Z	2.745	6
12	MP2B	Mx	-.002	6
13	MP2C	X	-3.166	.5
14	MP2C	Z	5.484	.5
15	MP2C	Mx	-.002	.5
16	MP2C	X	-3.166	6
17	MP2C	Z	5.484	6
18	MP2C	Mx	-.002	6
19	MP2A	X	-5.015	.5
20	MP2A	Z	8.686	.5
21	MP2A	Mx	-.003	.5
22	MP2A	X	-5.015	6
23	MP2A	Z	8.686	6
24	MP2A	Mx	-.003	6
25	MP2B	X	-3.633	.5
26	MP2B	Z	6.293	.5
27	MP2B	Mx	-.004	.5
28	MP2B	X	-3.633	6
29	MP2B	Z	6.293	6
30	MP2B	Mx	-.004	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	-5.015	.5
32	MP2C	Z	8.686	.5
33	MP2C	Mx	.008	.5
34	MP2C	X	-5.015	6
35	MP2C	Z	8.686	6
36	MP2C	Mx	.008	6
37	MP4A	X	-2.229	.25
38	MP4A	Z	3.861	.25
39	MP4A	Mx	.001	.25
40	MP4A	X	-2.229	2.25
41	MP4A	Z	3.861	2.25
42	MP4A	Mx	.001	2.25
43	MP4B	X	-.918	.25
44	MP4B	Z	1.591	.25
45	MP4B	Mx	-.000918	.25
46	MP4B	X	-.918	2.25
47	MP4B	Z	1.591	2.25
48	MP4B	Mx	-.000918	2.25
49	MP4C	X	-2.229	.25
50	MP4C	Z	3.861	.25
51	MP4C	Mx	.001	.25
52	MP4C	X	-2.229	2.25
53	MP4C	Z	3.861	2.25
54	MP4C	Mx	.001	2.25
55	MP2A	X	-1.901	1
56	MP2A	Z	3.293	1
57	MP2A	Mx	-.000951	1
58	MP2B	X	-1.279	1
59	MP2B	Z	2.215	1
60	MP2B	Mx	.001	1
61	MP2C	X	-1.901	1
62	MP2C	Z	3.293	1
63	MP2C	Mx	-.000951	1
64	MP2A	X	-.85	4
65	MP2A	Z	1.473	4
66	MP2A	Mx	-.000425	4
67	MP2B	X	-.463	4
68	MP2B	Z	.801	4
69	MP2B	Mx	.000463	4
70	MP2C	X	-.85	4
71	MP2C	Z	1.473	4
72	MP2C	Mx	-.000425	4
73	MP3A	X	-4.054	.25
74	MP3A	Z	7.022	.25
75	MP3A	Mx	-.002	.25
76	MP3B	X	-3.279	.25
77	MP3B	Z	5.679	.25
78	MP3B	Mx	.003	.25
79	MP1B	X	-3.69	.25
80	MP1B	Z	6.391	.25
81	MP1B	Mx	-.004	.25
82	MP1B	X	-3.69	2.25
83	MP1B	Z	6.391	2.25
84	MP1B	Mx	-.004	2.25
85	MP1C	X	-4.06	.25
86	MP1C	Z	7.032	.25
87	MP1C	Mx	.002	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP1C	X	-4.06	2.25
89	MP1C	Z	7.032	2.25
90	MP1C	Mx	.002	2.25
91	MP1A	X	-2.074	.25
92	MP1A	Z	3.592	.25
93	MP1A	Mx	.001	.25
94	MP1A	X	-2.074	2.25
95	MP1A	Z	3.592	2.25
96	MP1A	Mx	.001	2.25
97	MP1A	X	-1.935	2.75
98	MP1A	Z	3.352	2.75
99	MP1A	Mx	-.000967	2.75
100	MP1B	X	-1.415	2.75
101	MP1B	Z	2.451	2.75
102	MP1B	Mx	.001	2.75
103	MP1C	X	-1.935	2.75
104	MP1C	Z	3.352	2.75
105	MP1C	Mx	-.000968	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.658	.5
2	MP2A	Z	2.112	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	-3.658	6
5	MP2A	Z	2.112	6
6	MP2A	Mx	.003	6
7	MP2B	X	-3.658	.5
8	MP2B	Z	2.112	.5
9	MP2B	Mx	-.000421	.5
10	MP2B	X	-3.658	6
11	MP2B	Z	2.112	6
12	MP2B	Mx	-.000421	6
13	MP2C	X	-6.397	.5
14	MP2C	Z	3.694	.5
15	MP2C	Mx	-.005	.5
16	MP2C	X	-6.397	6
17	MP2C	Z	3.694	6
18	MP2C	Mx	-.005	6
19	MP2A	X	-7.091	.5
20	MP2A	Z	4.094	.5
21	MP2A	Mx	.000816	.5
22	MP2A	X	-7.091	6
23	MP2A	Z	4.094	6
24	MP2A	Mx	.000816	6
25	MP2B	X	-7.091	.5
26	MP2B	Z	4.094	.5
27	MP2B	Mx	-.006	.5
28	MP2B	X	-7.091	6
29	MP2B	Z	4.094	6
30	MP2B	Mx	-.006	6
31	MP2C	X	-9.484	.5
32	MP2C	Z	5.476	.5
33	MP2C	Mx	.007	.5
34	MP2C	X	-9.484	6
35	MP2C	Z	5.476	6



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	.007	6
37	MP4A	X	-2.347	.25
38	MP4A	Z	1.355	.25
39	MP4A	Mx	.001	.25
40	MP4A	X	-2.347	2.25
41	MP4A	Z	1.355	2.25
42	MP4A	Mx	.001	2.25
43	MP4B	X	-2.347	.25
44	MP4B	Z	1.355	.25
45	MP4B	Mx	-.001	.25
46	MP4B	X	-2.347	2.25
47	MP4B	Z	1.355	2.25
48	MP4B	Mx	-.001	2.25
49	MP4C	X	-4.618	.25
50	MP4C	Z	2.666	.25
51	MP4C	Mx	0	.25
52	MP4C	X	-4.618	2.25
53	MP4C	Z	2.666	2.25
54	MP4C	Mx	0	2.25
55	MP2A	X	-2.574	1
56	MP2A	Z	1.486	1
57	MP2A	Mx	-.001	1
58	MP2B	X	-2.574	1
59	MP2B	Z	1.486	1
60	MP2B	Mx	.001	1
61	MP2C	X	-3.652	1
62	MP2C	Z	2.109	1
63	MP2C	Mx	0	1
64	MP2A	X	-1.025	4
65	MP2A	Z	.592	4
66	MP2A	Mx	-.000512	4
67	MP2B	X	-1.025	4
68	MP2B	Z	.592	4
69	MP2B	Mx	.000513	4
70	MP2C	X	-1.697	4
71	MP2C	Z	.98	4
72	MP2C	Mx	0	4
73	MP3A	X	-6.126	.25
74	MP3A	Z	3.537	.25
75	MP3A	Mx	-.003	.25
76	MP3B	X	-6.126	.25
77	MP3B	Z	3.537	.25
78	MP3B	Mx	.003	.25
79	MP1B	X	-6.605	.25
80	MP1B	Z	3.813	.25
81	MP1B	Mx	-.003	.25
82	MP1B	X	-6.605	2.25
83	MP1B	Z	3.813	2.25
84	MP1B	Mx	-.003	2.25
85	MP1C	X	-7.246	.25
86	MP1C	Z	4.183	.25
87	MP1C	Mx	0	.25
88	MP1C	X	-7.246	2.25
89	MP1C	Z	4.183	2.25
90	MP1C	Mx	0	2.25
91	MP1A	X	-4.037	.25
92	MP1A	Z	2.33	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP1A	Mx	.002	.25
94	MP1A	X	-4.037	2.25
95	MP1A	Z	2.33	2.25
96	MP1A	Mx	.002	2.25
97	MP1A	X	-2.751	2.75
98	MP1A	Z	1.588	2.75
99	MP1A	Mx	-.001	2.75
100	MP1B	X	-2.751	2.75
101	MP1B	Z	1.588	2.75
102	MP1B	Mx	.001	2.75
103	MP1C	X	-3.652	2.75
104	MP1C	Z	2.109	2.75
105	MP1C	Mx	0	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.17	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.002	.5
4	MP2A	X	-3.17	6
5	MP2A	Z	0	6
6	MP2A	Mx	.002	6
7	MP2B	X	-6.333	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	-6.333	6
11	MP2B	Z	0	6
12	MP2B	Mx	.002	6
13	MP2C	X	-6.333	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.005	.5
16	MP2C	X	-6.333	6
17	MP2C	Z	0	6
18	MP2C	Mx	-.005	6
19	MP2A	X	-7.267	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	-7.267	6
23	MP2A	Z	0	6
24	MP2A	Mx	.004	6
25	MP2B	X	-10.03	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.008	.5
28	MP2B	X	-10.03	6
29	MP2B	Z	0	6
30	MP2B	Mx	-.008	6
31	MP2C	X	-10.03	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.003	.5
34	MP2C	X	-10.03	6
35	MP2C	Z	0	6
36	MP2C	Mx	.003	6
37	MP4A	X	-1.837	.25
38	MP4A	Z	0	.25
39	MP4A	Mx	.000918	.25
40	MP4A	X	-1.837	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP4A	Z	0	2.25
42	MP4A	Mx	.000918	2.25
43	MP4B	X	-4.459	.25
44	MP4B	Z	0	.25
45	MP4B	Mx	-.001	.25
46	MP4B	X	-4.459	2.25
47	MP4B	Z	0	2.25
48	MP4B	Mx	-.001	2.25
49	MP4C	X	-4.459	.25
50	MP4C	Z	0	.25
51	MP4C	Mx	-.001	.25
52	MP4C	X	-4.459	2.25
53	MP4C	Z	0	2.25
54	MP4C	Mx	-.001	2.25
55	MP2A	X	-2.558	1
56	MP2A	Z	0	1
57	MP2A	Mx	-.001	1
58	MP2B	X	-3.802	1
59	MP2B	Z	0	1
60	MP2B	Mx	.000951	1
61	MP2C	X	-3.802	1
62	MP2C	Z	0	1
63	MP2C	Mx	.000951	1
64	MP2A	X	-.925	4
65	MP2A	Z	0	4
66	MP2A	Mx	-.000463	4
67	MP2B	X	-1.701	4
68	MP2B	Z	0	4
69	MP2B	Mx	.000425	4
70	MP2C	X	-1.701	4
71	MP2C	Z	0	4
72	MP2C	Mx	.000425	4
73	MP3A	X	-6.557	.25
74	MP3A	Z	0	.25
75	MP3A	Mx	-.003	.25
76	MP3B	X	-8.108	.25
77	MP3B	Z	0	.25
78	MP3B	Mx	.002	.25
79	MP1B	X	-8.12	.25
80	MP1B	Z	0	.25
81	MP1B	Mx	-.002	.25
82	MP1B	X	-8.12	2.25
83	MP1B	Z	0	2.25
84	MP1B	Mx	-.002	2.25
85	MP1C	X	-8.12	.25
86	MP1C	Z	0	.25
87	MP1C	Mx	-.002	.25
88	MP1C	X	-8.12	2.25
89	MP1C	Z	0	2.25
90	MP1C	Mx	-.002	2.25
91	MP1A	X	-4.918	.25
92	MP1A	Z	0	.25
93	MP1A	Mx	.002	.25
94	MP1A	X	-4.918	2.25
95	MP1A	Z	0	2.25
96	MP1A	Mx	.002	2.25
97	MP1A	X	-2.83	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP1A	Z	0	2.75
99	MP1A	Mx	-.001	2.75
100	MP1B	X	-3.87	2.75
101	MP1B	Z	0	2.75
102	MP1B	Mx	.000967	2.75
103	MP1C	X	-3.87	2.75
104	MP1C	Z	0	2.75
105	MP1C	Mx	.000967	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.658	.5
2	MP2A	Z	-2.112	.5
3	MP2A	Mx	.000421	.5
4	MP2A	X	-3.658	6
5	MP2A	Z	-2.112	6
6	MP2A	Mx	.000421	6
7	MP2B	X	-6.397	.5
8	MP2B	Z	-3.694	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	-6.397	6
11	MP2B	Z	-3.694	6
12	MP2B	Mx	.005	6
13	MP2C	X	-3.658	.5
14	MP2C	Z	-2.112	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	-3.658	6
17	MP2C	Z	-2.112	6
18	MP2C	Mx	-.003	6
19	MP2A	X	-7.091	.5
20	MP2A	Z	-4.094	.5
21	MP2A	Mx	.006	.5
22	MP2A	X	-7.091	6
23	MP2A	Z	-4.094	6
24	MP2A	Mx	.006	6
25	MP2B	X	-9.484	.5
26	MP2B	Z	-5.476	.5
27	MP2B	Mx	-.007	.5
28	MP2B	X	-9.484	6
29	MP2B	Z	-5.476	6
30	MP2B	Mx	-.007	6
31	MP2C	X	-7.091	.5
32	MP2C	Z	-4.094	.5
33	MP2C	Mx	-.000816	.5
34	MP2C	X	-7.091	6
35	MP2C	Z	-4.094	6
36	MP2C	Mx	-.000816	6
37	MP4A	X	-2.347	.25
38	MP4A	Z	-1.355	.25
39	MP4A	Mx	.001	.25
40	MP4A	X	-2.347	2.25
41	MP4A	Z	-1.355	2.25
42	MP4A	Mx	.001	2.25
43	MP4B	X	-4.618	.25
44	MP4B	Z	-2.666	.25
45	MP4B	Mx	0	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP4B	X	-4.618	2.25
47	MP4B	Z	-2.666	2.25
48	MP4B	Mx	0	2.25
49	MP4C	X	-2.347	.25
50	MP4C	Z	-1.355	.25
51	MP4C	Mx	-.001	.25
52	MP4C	X	-2.347	2.25
53	MP4C	Z	-1.355	2.25
54	MP4C	Mx	-.001	2.25
55	MP2A	X	-2.574	1
56	MP2A	Z	-1.486	1
57	MP2A	Mx	-.001	1
58	MP2B	X	-3.652	1
59	MP2B	Z	-2.109	1
60	MP2B	Mx	0	1
61	MP2C	X	-2.574	1
62	MP2C	Z	-1.486	1
63	MP2C	Mx	.001	1
64	MP2A	X	-1.025	4
65	MP2A	Z	-.592	4
66	MP2A	Mx	-.000512	4
67	MP2B	X	-1.697	4
68	MP2B	Z	-.98	4
69	MP2B	Mx	0	4
70	MP2C	X	-1.025	4
71	MP2C	Z	-.592	4
72	MP2C	Mx	.000513	4
73	MP3A	X	-6.126	.25
74	MP3A	Z	-3.537	.25
75	MP3A	Mx	-.003	.25
76	MP3B	X	-7.47	.25
77	MP3B	Z	-4.313	.25
78	MP3B	Mx	0	.25
79	MP1B	X	-7.246	.25
80	MP1B	Z	-4.183	.25
81	MP1B	Mx	0	.25
82	MP1B	X	-7.246	2.25
83	MP1B	Z	-4.183	2.25
84	MP1B	Mx	0	2.25
85	MP1C	X	-6.605	.25
86	MP1C	Z	-3.813	.25
87	MP1C	Mx	-.003	.25
88	MP1C	X	-6.605	2.25
89	MP1C	Z	-3.813	2.25
90	MP1C	Mx	-.003	2.25
91	MP1A	X	-4.037	.25
92	MP1A	Z	-2.33	.25
93	MP1A	Mx	.002	.25
94	MP1A	X	-4.037	2.25
95	MP1A	Z	-2.33	2.25
96	MP1A	Mx	.002	2.25
97	MP1A	X	-2.751	2.75
98	MP1A	Z	-1.588	2.75
99	MP1A	Mx	-.001	2.75
100	MP1B	X	-3.652	2.75
101	MP1B	Z	-2.109	2.75
102	MP1B	Mx	0	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP1C	X	-2.751	2.75
104	MP1C	Z	-1.588	2.75
105	MP1C	Mx	.001	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.166	.5
2	MP2A	Z	-5.484	.5
3	MP2A	Mx	-.002	.5
4	MP2A	X	-3.166	6
5	MP2A	Z	-5.484	6
6	MP2A	Mx	-.002	6
7	MP2B	X	-3.166	.5
8	MP2B	Z	-5.484	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	-3.166	6
11	MP2B	Z	-5.484	6
12	MP2B	Mx	.005	6
13	MP2C	X	-1.585	.5
14	MP2C	Z	-2.745	.5
15	MP2C	Mx	-.002	.5
16	MP2C	X	-1.585	6
17	MP2C	Z	-2.745	6
18	MP2C	Mx	-.002	6
19	MP2A	X	-5.015	.5
20	MP2A	Z	-8.686	.5
21	MP2A	Mx	.008	.5
22	MP2A	X	-5.015	6
23	MP2A	Z	-8.686	6
24	MP2A	Mx	.008	6
25	MP2B	X	-5.015	.5
26	MP2B	Z	-8.686	.5
27	MP2B	Mx	-.003	.5
28	MP2B	X	-5.015	6
29	MP2B	Z	-8.686	6
30	MP2B	Mx	-.003	6
31	MP2C	X	-3.633	.5
32	MP2C	Z	-6.293	.5
33	MP2C	Mx	-.004	.5
34	MP2C	X	-3.633	6
35	MP2C	Z	-6.293	6
36	MP2C	Mx	-.004	6
37	MP4A	X	-2.229	.25
38	MP4A	Z	-3.861	.25
39	MP4A	Mx	.001	.25
40	MP4A	X	-2.229	2.25
41	MP4A	Z	-3.861	2.25
42	MP4A	Mx	.001	2.25
43	MP4B	X	-2.229	.25
44	MP4B	Z	-3.861	.25
45	MP4B	Mx	.001	.25
46	MP4B	X	-2.229	2.25
47	MP4B	Z	-3.861	2.25
48	MP4B	Mx	.001	2.25
49	MP4C	X	-.918	.25
50	MP4C	Z	-1.591	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP4C	Mx	-0.00918	.25
52	MP4C	X	-.918	2.25
53	MP4C	Z	-1.591	2.25
54	MP4C	Mx	-0.00918	2.25
55	MP2A	X	-1.901	1
56	MP2A	Z	-3.293	1
57	MP2A	Mx	-0.00951	1
58	MP2B	X	-1.901	1
59	MP2B	Z	-3.293	1
60	MP2B	Mx	-0.00951	1
61	MP2C	X	-1.279	1
62	MP2C	Z	-2.215	1
63	MP2C	Mx	.001	1
64	MP2A	X	-.85	4
65	MP2A	Z	-1.473	4
66	MP2A	Mx	-0.00425	4
67	MP2B	X	-.85	4
68	MP2B	Z	-1.473	4
69	MP2B	Mx	-0.00425	4
70	MP2C	X	-.463	4
71	MP2C	Z	-.801	4
72	MP2C	Mx	.000463	4
73	MP3A	X	-4.054	.25
74	MP3A	Z	-7.022	.25
75	MP3A	Mx	-.002	.25
76	MP3B	X	-4.054	.25
77	MP3B	Z	-7.022	.25
78	MP3B	Mx	-.002	.25
79	MP1B	X	-4.06	.25
80	MP1B	Z	-7.032	.25
81	MP1B	Mx	.002	.25
82	MP1B	X	-4.06	2.25
83	MP1B	Z	-7.032	2.25
84	MP1B	Mx	.002	2.25
85	MP1C	X	-3.69	.25
86	MP1C	Z	-6.391	.25
87	MP1C	Mx	-.004	.25
88	MP1C	X	-3.69	2.25
89	MP1C	Z	-6.391	2.25
90	MP1C	Mx	-.004	2.25
91	MP1A	X	-2.074	.25
92	MP1A	Z	-3.592	.25
93	MP1A	Mx	.001	.25
94	MP1A	X	-2.074	2.25
95	MP1A	Z	-3.592	2.25
96	MP1A	Mx	.001	2.25
97	MP1A	X	-1.935	2.75
98	MP1A	Z	-3.352	2.75
99	MP1A	Mx	-0.00967	2.75
100	MP1B	X	-1.935	2.75
101	MP1B	Z	-3.352	2.75
102	MP1B	Mx	-0.00968	2.75
103	MP1C	X	-1.415	2.75
104	MP1C	Z	-2.451	2.75
105	MP1C	Mx	.001	2.75



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M10	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M29	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-.946	.5
2	MP2A	My	-.000473	.5
3	MP2A	Mz	.000631	.5
4	MP2A	Y	-.946	6
5	MP2A	My	-.000473	6
6	MP2A	Mz	.000631	6
7	MP2B	Y	-.946	.5
8	MP2B	My	-.00031	.5
9	MP2B	Mz	-.000725	.5
10	MP2B	Y	-.946	6
11	MP2B	My	-.00031	6
12	MP2B	Mz	-.000725	6
13	MP2C	Y	-.946	.5
14	MP2C	My	.000783	.5
15	MP2C	Mz	9.4e-5	.5
16	MP2C	Y	-.946	6
17	MP2C	My	.000783	6
18	MP2C	Mz	9.4e-5	6
19	MP2A	Y	-1.399	.5
20	MP2A	My	-.000699	.5
21	MP2A	Mz	-.000933	.5
22	MP2A	Y	-1.399	6
23	MP2A	My	-.000699	6
24	MP2A	Mz	-.000933	6
25	MP2B	Y	-1.399	.5
26	MP2B	My	.001	.5
27	MP2B	Mz	-.000139	.5
28	MP2B	Y	-1.399	6
29	MP2B	My	.001	6
30	MP2B	Mz	-.000139	6
31	MP2C	Y	-1.399	.5
32	MP2C	My	-.000458	.5
33	MP2C	Mz	.001	.5
34	MP2C	Y	-1.399	6
35	MP2C	My	-.000458	6
36	MP2C	Mz	.001	6
37	MP4A	Y	-1.886	.25
38	MP4A	My	-.000943	.25
39	MP4A	Mz	0	.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP4A	Y	-1.886	2.25
41	MP4A	My	-.000943	2.25
42	MP4A	Mz	0	2.25
43	MP4B	Y	-1.886	.25
44	MP4B	My	.000472	.25
45	MP4B	Mz	-.000817	.25
46	MP4B	Y	-1.886	2.25
47	MP4B	My	.000472	2.25
48	MP4B	Mz	-.000817	2.25
49	MP4C	Y	-1.886	.25
50	MP4C	My	.000472	.25
51	MP4C	Mz	.000817	.25
52	MP4C	Y	-1.886	2.25
53	MP4C	My	.000472	2.25
54	MP4C	Mz	.000817	2.25
55	MP2A	Y	-3.044	1
56	MP2A	My	.002	1
57	MP2A	Mz	0	1
58	MP2B	Y	-3.044	1
59	MP2B	My	-.000761	1
60	MP2B	Mz	.001	1
61	MP2C	Y	-3.044	1
62	MP2C	My	-.000761	1
63	MP2C	Mz	-.001	1
64	MP2A	Y	-.81	4
65	MP2A	My	.000405	4
66	MP2A	Mz	0	4
67	MP2B	Y	-.81	4
68	MP2B	My	-.000202	4
69	MP2B	Mz	.000351	4
70	MP2C	Y	-.81	4
71	MP2C	My	-.000202	4
72	MP2C	Mz	-.000351	4
73	MP3A	Y	-1.386	.25
74	MP3A	My	.000693	.25
75	MP3A	Mz	0	.25
76	MP3B	Y	-1.386	.25
77	MP3B	My	-.000346	.25
78	MP3B	Mz	.0006	.25
79	MP1B	Y	-.433	.25
80	MP1B	My	.000108	.25
81	MP1B	Mz	-.000188	.25
82	MP1B	Y	-.433	2.25
83	MP1B	My	.000108	2.25
84	MP1B	Mz	-.000188	2.25
85	MP1C	Y	-.433	.25
86	MP1C	My	.000108	.25
87	MP1C	Mz	.000188	.25
88	MP1C	Y	-.433	2.25
89	MP1C	My	.000108	2.25
90	MP1C	Mz	.000188	2.25
91	MP1A	Y	-.136	.25
92	MP1A	My	-6.8e-5	.25
93	MP1A	Mz	0	.25
94	MP1A	Y	-.136	2.25
95	MP1A	My	-6.8e-5	2.25
96	MP1A	Mz	0	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
97	MP1A	Y	-3.235	2.75
98	MP1A	My	.002	2.75
99	MP1A	Mz	0	2.75
100	MP1B	Y	-3.235	2.75
101	MP1B	My	-.000809	2.75
102	MP1B	Mz	.001	2.75
103	MP1C	Y	-3.235	2.75
104	MP1C	My	-.000809	2.75
105	MP1C	Mz	-.001	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Z	-2.366	.5
2	MP2A	Mx	-.002	.5
3	MP2A	Z	-2.366	6
4	MP2A	Mx	-.002	6
5	MP2B	Z	-2.366	.5
6	MP2B	Mx	.002	.5
7	MP2B	Z	-2.366	6
8	MP2B	Mx	.002	6
9	MP2C	Z	-2.366	.5
10	MP2C	Mx	-.000236	.5
11	MP2C	Z	-2.366	6
12	MP2C	Mx	-.000236	6
13	MP2A	Z	-3.497	.5
14	MP2A	Mx	.002	.5
15	MP2A	Z	-3.497	6
16	MP2A	Mx	.002	6
17	MP2B	Z	-3.497	.5
18	MP2B	Mx	.000349	.5
19	MP2B	Z	-3.497	6
20	MP2B	Mx	.000349	6
21	MP2C	Z	-3.497	.5
22	MP2C	Mx	-.003	.5
23	MP2C	Z	-3.497	6
24	MP2C	Mx	-.003	6
25	MP4A	Z	-4.715	.25
26	MP4A	Mx	0	.25
27	MP4A	Z	-4.715	2.25
28	MP4A	Mx	0	2.25
29	MP4B	Z	-4.715	.25
30	MP4B	Mx	.002	.25
31	MP4B	Z	-4.715	2.25
32	MP4B	Mx	.002	2.25
33	MP4C	Z	-4.715	.25
34	MP4C	Mx	-.002	.25
35	MP4C	Z	-4.715	2.25
36	MP4C	Mx	-.002	2.25
37	MP2A	Z	-7.611	1
38	MP2A	Mx	0	1
39	MP2B	Z	-7.611	1
40	MP2B	Mx	-.003	1
41	MP2C	Z	-7.611	1
42	MP2C	Mx	.003	1
43	MP2A	Z	-2.025	4
44	MP2A	Mx	0	4



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Z	-2.025	4
46	MP2B	Mx	-.000877	4
47	MP2C	Z	-2.025	4
48	MP2C	Mx	.000877	4
49	MP3A	Z	-3.465	.25
50	MP3A	Mx	0	.25
51	MP3B	Z	-3.465	.25
52	MP3B	Mx	-.002	.25
53	MP1B	Z	-1.083	.25
54	MP1B	Mx	.000469	.25
55	MP1B	Z	-1.083	2.25
56	MP1B	Mx	.000469	2.25
57	MP1C	Z	-1.083	.25
58	MP1C	Mx	-.000469	.25
59	MP1C	Z	-1.083	2.25
60	MP1C	Mx	-.000469	2.25
61	MP1A	Z	-.341	.25
62	MP1A	Mx	0	.25
63	MP1A	Z	-.341	2.25
64	MP1A	Mx	0	2.25
65	MP1A	Z	-8.088	2.75
66	MP1A	Mx	0	2.75
67	MP1B	Z	-8.088	2.75
68	MP1B	Mx	-.004	2.75
69	MP1C	Z	-8.088	2.75
70	MP1C	Mx	.004	2.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.366	.5
2	MP2A	Mx	-.001	.5
3	MP2A	X	2.366	6
4	MP2A	Mx	-.001	6
5	MP2B	X	2.366	.5
6	MP2B	Mx	-.000774	.5
7	MP2B	X	2.366	6
8	MP2B	Mx	-.000774	6
9	MP2C	X	2.366	.5
10	MP2C	Mx	.002	.5
11	MP2C	X	2.366	6
12	MP2C	Mx	.002	6
13	MP2A	X	3.497	.5
14	MP2A	Mx	-.002	.5
15	MP2A	X	3.497	6
16	MP2A	Mx	-.002	6
17	MP2B	X	3.497	.5
18	MP2B	Mx	.003	.5
19	MP2B	X	3.497	6
20	MP2B	Mx	.003	6
21	MP2C	X	3.497	.5
22	MP2C	Mx	-.001	.5
23	MP2C	X	3.497	6
24	MP2C	Mx	-.001	6
25	MP4A	X	4.715	.25
26	MP4A	Mx	-.002	.25
27	MP4A	X	4.715	2.25



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP4A	Mx	-.002	2.25
29	MP4B	X	4.715	.25
30	MP4B	Mx	.001	.25
31	MP4B	X	4.715	2.25
32	MP4B	Mx	.001	2.25
33	MP4C	X	4.715	.25
34	MP4C	Mx	.001	.25
35	MP4C	X	4.715	2.25
36	MP4C	Mx	.001	2.25
37	MP2A	X	7.611	1
38	MP2A	Mx	.004	1
39	MP2B	X	7.611	1
40	MP2B	Mx	-.002	1
41	MP2C	X	7.611	1
42	MP2C	Mx	-.002	1
43	MP2A	X	2.025	4
44	MP2A	Mx	.001	4
45	MP2B	X	2.025	4
46	MP2B	Mx	-.000506	4
47	MP2C	X	2.025	4
48	MP2C	Mx	-.000506	4
49	MP3A	X	3.465	.25
50	MP3A	Mx	.002	.25
51	MP3B	X	3.465	.25
52	MP3B	Mx	-.000866	.25
53	MP1B	X	1.083	.25
54	MP1B	Mx	.000271	.25
55	MP1B	X	1.083	2.25
56	MP1B	Mx	.000271	2.25
57	MP1C	X	1.083	.25
58	MP1C	Mx	.000271	.25
59	MP1C	X	1.083	2.25
60	MP1C	Mx	.000271	2.25
61	MP1A	X	.341	.25
62	MP1A	Mx	-.000171	.25
63	MP1A	X	.341	2.25
64	MP1A	Mx	-.000171	2.25
65	MP1A	X	8.088	2.75
66	MP1A	Mx	.004	2.75
67	MP1B	X	8.088	2.75
68	MP1B	Mx	-.002	2.75
69	MP1C	X	8.088	2.75
70	MP1C	Mx	-.002	2.75

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	-15.958	-15.958	0	%100
2	M2	Y	-17.479	-17.479	0	%100
3	M5	Y	-16.696	-16.696	0	%100
4	M6	Y	-16.696	-16.696	0	%100
5	M7	Y	-16.696	-16.696	0	%100
6	M6A	Y	-12.915	-12.915	0	%100
7	M7A	Y	-12.915	-12.915	0	%100
8	MP4A	Y	-8.897	-8.897	0	%100
9	M23A	Y	-12.915	-12.915	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
10	M24	Y	-12.915	-12.915	0	%100
11	M38	Y	-15.958	-15.958	0	%100
12	M39A	Y	-12.915	-12.915	0	%100
13	M40	Y	-12.915	-12.915	0	%100
14	M54	Y	-15.958	-15.958	0	%100
15	M55	Y	-17.479	-17.479	0	%100
16	M56	Y	-17.479	-17.479	0	%100
17	MP3A	Y	-8.897	-8.897	0	%100
18	MP2A	Y	-8.897	-8.897	0	%100
19	MP1A	Y	-8.897	-8.897	0	%100
20	MP4C	Y	-8.897	-8.897	0	%100
21	MP3C	Y	-8.897	-8.897	0	%100
22	MP2C	Y	-8.897	-8.897	0	%100
23	MP1C	Y	-8.897	-8.897	0	%100
24	MP4B	Y	-8.897	-8.897	0	%100
25	MP3B	Y	-8.897	-8.897	0	%100
26	MP2B	Y	-8.897	-8.897	0	%100
27	MP1B	Y	-8.897	-8.897	0	%100
28	M40A	Y	-9.973	-9.973	0	%100
29	M47A	Y	-9.973	-9.973	0	%100
30	M54A	Y	-9.973	-9.973	0	%100
31	M61	Y	-12.915	-12.915	0	%100
32	M62	Y	-12.915	-12.915	0	%100
33	M63	Y	-12.915	-12.915	0	%100
34	M64	Y	-18.309	-18.309	0	%100
35	M65	Y	-18.309	-18.309	0	%100
36	M66	Y	-18.309	-18.309	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-13.646	-13.646	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-13.646	-13.646	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-21.405	-21.405	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-21.405	-21.405	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	-10.168	-10.168	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	-5.351	-5.351	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	-5.351	-5.351	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	-9.175	-9.175	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	-5.351	-5.351	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	-5.351	-5.351	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	0	0	0	%100
28	M54	Z	-9.175	-9.175	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	-11.951	-11.951	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	-11.951	-11.951	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-10.168	-10.168	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-10.168	-10.168	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-10.168	-10.168	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-10.168	-10.168	0	%100
41	MP3C	X	0	0	0	%100
42	MP3C	Z	-10.168	-10.168	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-10.168	-10.168	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	-10.168	-10.168	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-10.168	-10.168	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	-10.168	-10.168	0	%100
51	MP2B	X	0	0	0	%100
52	MP2B	Z	-10.168	-10.168	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-10.168	-10.168	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	-12.308	-12.308	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	-3.077	-3.077	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	-3.077	-3.077	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	-15.436	-15.436	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	-3.859	-3.859	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-3.859	-3.859	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	-8.517	-8.517	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	-18.183	-18.183	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	-18.183	-18.183	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.529	1.529	0	%100
2	M1	Z	-2.649	-2.649	0	%100
3	M2	X	1.992	1.992	0	%100
4	M2	Z	-3.45	-3.45	0	%100
5	M5	X	2.274	2.274	0	%100
6	M5	Z	-3.939	-3.939	0	%100
7	M6	X	2.274	2.274	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	-3.939	-3.939	0	%100
9	M7	X	9.097	9.097	0	%100
10	M7	Z	-15.757	-15.757	0	%100
11	M6A	X	8.027	8.027	0	%100
12	M6A	Z	-13.903	-13.903	0	%100
13	M7A	X	8.027	8.027	0	%100
14	M7A	Z	-13.903	-13.903	0	%100
15	MP4A	X	5.084	5.084	0	%100
16	MP4A	Z	-8.805	-8.805	0	%100
17	M23A	X	8.027	8.027	0	%100
18	M23A	Z	-13.903	-13.903	0	%100
19	M24	X	8.027	8.027	0	%100
20	M24	Z	-13.903	-13.903	0	%100
21	M38	X	1.529	1.529	0	%100
22	M38	Z	-2.649	-2.649	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	0	0	0	%100
27	M54	X	6.117	6.117	0	%100
28	M54	Z	-10.594	-10.594	0	%100
29	M55	X	1.992	1.992	0	%100
30	M55	Z	-3.45	-3.45	0	%100
31	M56	X	7.968	7.968	0	%100
32	M56	Z	-13.8	-13.8	0	%100
33	MP3A	X	5.084	5.084	0	%100
34	MP3A	Z	-8.805	-8.805	0	%100
35	MP2A	X	5.084	5.084	0	%100
36	MP2A	Z	-8.805	-8.805	0	%100
37	MP1A	X	5.084	5.084	0	%100
38	MP1A	Z	-8.805	-8.805	0	%100
39	MP4C	X	5.084	5.084	0	%100
40	MP4C	Z	-8.805	-8.805	0	%100
41	MP3C	X	5.084	5.084	0	%100
42	MP3C	Z	-8.805	-8.805	0	%100
43	MP2C	X	5.084	5.084	0	%100
44	MP2C	Z	-8.805	-8.805	0	%100
45	MP1C	X	5.084	5.084	0	%100
46	MP1C	Z	-8.805	-8.805	0	%100
47	MP4B	X	5.084	5.084	0	%100
48	MP4B	Z	-8.805	-8.805	0	%100
49	MP3B	X	5.084	5.084	0	%100
50	MP3B	Z	-8.805	-8.805	0	%100
51	MP2B	X	5.084	5.084	0	%100
52	MP2B	Z	-8.805	-8.805	0	%100
53	MP1B	X	5.084	5.084	0	%100
54	MP1B	Z	-8.805	-8.805	0	%100
55	M40A	X	4.616	4.616	0	%100
56	M40A	Z	-7.994	-7.994	0	%100
57	M47A	X	4.616	4.616	0	%100
58	M47A	Z	-7.994	-7.994	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	5.789	5.789	0	%100
62	M61	Z	-10.026	-10.026	0	%100
63	M62	X	5.789	5.789	0	%100
64	M62	Z	-10.026	-10.026	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	5.87	5.87	0	%100
68	M64	Z	-10.167	-10.167	0	%100
69	M65	X	5.87	5.87	0	%100
70	M65	Z	-10.167	-10.167	0	%100
71	M66	X	10.703	10.703	0	%100
72	M66	Z	-18.538	-18.538	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	7.946	7.946	0	%100
2	M1	Z	-4.587	-4.587	0	%100
3	M2	X	10.35	10.35	0	%100
4	M2	Z	-5.976	-5.976	0	%100
5	M5	X	11.818	11.818	0	%100
6	M5	Z	-6.823	-6.823	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	11.818	11.818	0	%100
10	M7	Z	-6.823	-6.823	0	%100
11	M6A	X	4.634	4.634	0	%100
12	M6A	Z	-2.676	-2.676	0	%100
13	M7A	X	4.634	4.634	0	%100
14	M7A	Z	-2.676	-2.676	0	%100
15	MP4A	X	8.805	8.805	0	%100
16	MP4A	Z	-5.084	-5.084	0	%100
17	M23A	X	18.538	18.538	0	%100
18	M23A	Z	-10.703	-10.703	0	%100
19	M24	X	18.538	18.538	0	%100
20	M24	Z	-10.703	-10.703	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	4.634	4.634	0	%100
24	M39A	Z	-2.676	-2.676	0	%100
25	M40	X	4.634	4.634	0	%100
26	M40	Z	-2.676	-2.676	0	%100
27	M54	X	7.946	7.946	0	%100
28	M54	Z	-4.587	-4.587	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	10.35	10.35	0	%100
32	M56	Z	-5.976	-5.976	0	%100
33	MP3A	X	8.805	8.805	0	%100
34	MP3A	Z	-5.084	-5.084	0	%100
35	MP2A	X	8.805	8.805	0	%100
36	MP2A	Z	-5.084	-5.084	0	%100
37	MP1A	X	8.805	8.805	0	%100
38	MP1A	Z	-5.084	-5.084	0	%100
39	MP4C	X	8.805	8.805	0	%100
40	MP4C	Z	-5.084	-5.084	0	%100
41	MP3C	X	8.805	8.805	0	%100
42	MP3C	Z	-5.084	-5.084	0	%100
43	MP2C	X	8.805	8.805	0	%100
44	MP2C	Z	-5.084	-5.084	0	%100
45	MP1C	X	8.805	8.805	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	-5.084	-5.084	0	%100
47	MP4B	X	8.805	8.805	0	%100
48	MP4B	Z	-5.084	-5.084	0	%100
49	MP3B	X	8.805	8.805	0	%100
50	MP3B	Z	-5.084	-5.084	0	%100
51	MP2B	X	8.805	8.805	0	%100
52	MP2B	Z	-5.084	-5.084	0	%100
53	MP1B	X	8.805	8.805	0	%100
54	MP1B	Z	-5.084	-5.084	0	%100
55	M40A	X	2.665	2.665	0	%100
56	M40A	Z	-1.539	-1.539	0	%100
57	M47A	X	10.659	10.659	0	%100
58	M47A	Z	-6.154	-6.154	0	%100
59	M54A	X	2.665	2.665	0	%100
60	M54A	Z	-1.539	-1.539	0	%100
61	M61	X	3.342	3.342	0	%100
62	M61	Z	-1.93	-1.93	0	%100
63	M62	X	13.368	13.368	0	%100
64	M62	Z	-7.718	-7.718	0	%100
65	M63	X	3.342	3.342	0	%100
66	M63	Z	-1.93	-1.93	0	%100
67	M64	X	15.747	15.747	0	%100
68	M64	Z	-9.092	-9.092	0	%100
69	M65	X	7.376	7.376	0	%100
70	M65	Z	-4.259	-4.259	0	%100
71	M66	X	15.747	15.747	0	%100
72	M66	Z	-9.092	-9.092	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	12.233	12.233	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	15.935	15.935	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	18.195	18.195	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	4.549	4.549	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	4.549	4.549	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	MP4A	X	10.168	10.168	0	%100
16	MP4A	Z	0	0	0	%100
17	M23A	X	16.054	16.054	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	16.054	16.054	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	3.058	3.058	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	16.054	16.054	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	16.054	16.054	0	%100
26	M40	Z	0	0	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	3.058	3.058	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	3.984	3.984	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	3.984	3.984	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	10.168	10.168	0	%100
34	MP3A	Z	0	0	0	%100
35	MP2A	X	10.168	10.168	0	%100
36	MP2A	Z	0	0	0	%100
37	MP1A	X	10.168	10.168	0	%100
38	MP1A	Z	0	0	0	%100
39	MP4C	X	10.168	10.168	0	%100
40	MP4C	Z	0	0	0	%100
41	MP3C	X	10.168	10.168	0	%100
42	MP3C	Z	0	0	0	%100
43	MP2C	X	10.168	10.168	0	%100
44	MP2C	Z	0	0	0	%100
45	MP1C	X	10.168	10.168	0	%100
46	MP1C	Z	0	0	0	%100
47	MP4B	X	10.168	10.168	0	%100
48	MP4B	Z	0	0	0	%100
49	MP3B	X	10.168	10.168	0	%100
50	MP3B	Z	0	0	0	%100
51	MP2B	X	10.168	10.168	0	%100
52	MP2B	Z	0	0	0	%100
53	MP1B	X	10.168	10.168	0	%100
54	MP1B	Z	0	0	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	0	0	0	%100
57	M47A	X	9.231	9.231	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	9.231	9.231	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	11.577	11.577	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	11.577	11.577	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	21.405	21.405	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	11.739	11.739	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	11.739	11.739	0	%100
72	M66	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	7.946	7.946	0	%100
2	M1	Z	4.587	4.587	0	%100
3	M2	X	10.35	10.35	0	%100
4	M2	Z	5.976	5.976	0	%100
5	M5	X	11.818	11.818	0	%100
6	M5	Z	6.823	6.823	0	%100
7	M6	X	11.818	11.818	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	6.823	6.823	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	4.634	4.634	0	%100
12	M6A	Z	2.676	2.676	0	%100
13	M7A	X	4.634	4.634	0	%100
14	M7A	Z	2.676	2.676	0	%100
15	MP4A	X	8.805	8.805	0	%100
16	MP4A	Z	5.084	5.084	0	%100
17	M23A	X	4.634	4.634	0	%100
18	M23A	Z	2.676	2.676	0	%100
19	M24	X	4.634	4.634	0	%100
20	M24	Z	2.676	2.676	0	%100
21	M38	X	7.946	7.946	0	%100
22	M38	Z	4.587	4.587	0	%100
23	M39A	X	18.538	18.538	0	%100
24	M39A	Z	10.703	10.703	0	%100
25	M40	X	18.538	18.538	0	%100
26	M40	Z	10.703	10.703	0	%100
27	M54	X	0	0	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	10.35	10.35	0	%100
30	M55	Z	5.976	5.976	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	8.805	8.805	0	%100
34	MP3A	Z	5.084	5.084	0	%100
35	MP2A	X	8.805	8.805	0	%100
36	MP2A	Z	5.084	5.084	0	%100
37	MP1A	X	8.805	8.805	0	%100
38	MP1A	Z	5.084	5.084	0	%100
39	MP4C	X	8.805	8.805	0	%100
40	MP4C	Z	5.084	5.084	0	%100
41	MP3C	X	8.805	8.805	0	%100
42	MP3C	Z	5.084	5.084	0	%100
43	MP2C	X	8.805	8.805	0	%100
44	MP2C	Z	5.084	5.084	0	%100
45	MP1C	X	8.805	8.805	0	%100
46	MP1C	Z	5.084	5.084	0	%100
47	MP4B	X	8.805	8.805	0	%100
48	MP4B	Z	5.084	5.084	0	%100
49	MP3B	X	8.805	8.805	0	%100
50	MP3B	Z	5.084	5.084	0	%100
51	MP2B	X	8.805	8.805	0	%100
52	MP2B	Z	5.084	5.084	0	%100
53	MP1B	X	8.805	8.805	0	%100
54	MP1B	Z	5.084	5.084	0	%100
55	M40A	X	2.665	2.665	0	%100
56	M40A	Z	1.539	1.539	0	%100
57	M47A	X	2.665	2.665	0	%100
58	M47A	Z	1.539	1.539	0	%100
59	M54A	X	10.659	10.659	0	%100
60	M54A	Z	6.154	6.154	0	%100
61	M61	X	3.342	3.342	0	%100
62	M61	Z	1.93	1.93	0	%100
63	M62	X	3.342	3.342	0	%100
64	M62	Z	1.93	1.93	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	13.368	13.368	0	%100
66	M63	Z	7.718	7.718	0	%100
67	M64	X	15.747	15.747	0	%100
68	M64	Z	9.092	9.092	0	%100
69	M65	X	15.747	15.747	0	%100
70	M65	Z	9.092	9.092	0	%100
71	M66	X	7.376	7.376	0	%100
72	M66	Z	4.259	4.259	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.529	1.529	0	%100
2	M1	Z	2.649	2.649	0	%100
3	M2	X	1.992	1.992	0	%100
4	M2	Z	3.45	3.45	0	%100
5	M5	X	2.274	2.274	0	%100
6	M5	Z	3.939	3.939	0	%100
7	M6	X	9.097	9.097	0	%100
8	M6	Z	15.757	15.757	0	%100
9	M7	X	2.274	2.274	0	%100
10	M7	Z	3.939	3.939	0	%100
11	M6A	X	8.027	8.027	0	%100
12	M6A	Z	13.903	13.903	0	%100
13	M7A	X	8.027	8.027	0	%100
14	M7A	Z	13.903	13.903	0	%100
15	MP4A	X	5.084	5.084	0	%100
16	MP4A	Z	8.805	8.805	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	6.117	6.117	0	%100
22	M38	Z	10.594	10.594	0	%100
23	M39A	X	8.027	8.027	0	%100
24	M39A	Z	13.903	13.903	0	%100
25	M40	X	8.027	8.027	0	%100
26	M40	Z	13.903	13.903	0	%100
27	M54	X	1.529	1.529	0	%100
28	M54	Z	2.649	2.649	0	%100
29	M55	X	7.968	7.968	0	%100
30	M55	Z	13.8	13.8	0	%100
31	M56	X	1.992	1.992	0	%100
32	M56	Z	3.45	3.45	0	%100
33	MP3A	X	5.084	5.084	0	%100
34	MP3A	Z	8.805	8.805	0	%100
35	MP2A	X	5.084	5.084	0	%100
36	MP2A	Z	8.805	8.805	0	%100
37	MP1A	X	5.084	5.084	0	%100
38	MP1A	Z	8.805	8.805	0	%100
39	MP4C	X	5.084	5.084	0	%100
40	MP4C	Z	8.805	8.805	0	%100
41	MP3C	X	5.084	5.084	0	%100
42	MP3C	Z	8.805	8.805	0	%100
43	MP2C	X	5.084	5.084	0	%100
44	MP2C	Z	8.805	8.805	0	%100
45	MP1C	X	5.084	5.084	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
46	MP1C	Z	8.805	8.805	0	%100
47	MP4B	X	5.084	5.084	0	%100
48	MP4B	Z	8.805	8.805	0	%100
49	MP3B	X	5.084	5.084	0	%100
50	MP3B	Z	8.805	8.805	0	%100
51	MP2B	X	5.084	5.084	0	%100
52	MP2B	Z	8.805	8.805	0	%100
53	MP1B	X	5.084	5.084	0	%100
54	MP1B	Z	8.805	8.805	0	%100
55	M40A	X	4.616	4.616	0	%100
56	M40A	Z	7.994	7.994	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	4.616	4.616	0	%100
60	M54A	Z	7.994	7.994	0	%100
61	M61	X	5.789	5.789	0	%100
62	M61	Z	10.026	10.026	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	5.789	5.789	0	%100
66	M63	Z	10.026	10.026	0	%100
67	M64	X	5.87	5.87	0	%100
68	M64	Z	10.167	10.167	0	%100
69	M65	X	10.703	10.703	0	%100
70	M65	Z	18.538	18.538	0	%100
71	M66	X	5.87	5.87	0	%100
72	M66	Z	10.167	10.167	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	13.646	13.646	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	13.646	13.646	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	21.405	21.405	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	21.405	21.405	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	10.168	10.168	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	5.351	5.351	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	5.351	5.351	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	9.175	9.175	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	5.351	5.351	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	5.351	5.351	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	0	0	0	%100
28	M54	Z	9.175	9.175	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	11.951	11.951	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	11.951	11.951	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	10.168	10.168	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	10.168	10.168	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	10.168	10.168	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	10.168	10.168	0	%100
41	MP3C	X	0	0	0	%100
42	MP3C	Z	10.168	10.168	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	10.168	10.168	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	10.168	10.168	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	10.168	10.168	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	10.168	10.168	0	%100
51	MP2B	X	0	0	0	%100
52	MP2B	Z	10.168	10.168	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	10.168	10.168	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	12.308	12.308	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	3.077	3.077	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	3.077	3.077	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	15.436	15.436	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	3.859	3.859	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	3.859	3.859	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	8.517	8.517	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	18.183	18.183	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	18.183	18.183	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.529	-1.529	0	%100
2	M1	Z	2.649	2.649	0	%100
3	M2	X	-1.992	-1.992	0	%100
4	M2	Z	3.45	3.45	0	%100
5	M5	X	-2.274	-2.274	0	%100
6	M5	Z	3.939	3.939	0	%100
7	M6	X	-2.274	-2.274	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	3.939	3.939	0	%100
9	M7	X	-9.097	-9.097	0	%100
10	M7	Z	15.757	15.757	0	%100
11	M6A	X	-8.027	-8.027	0	%100
12	M6A	Z	13.903	13.903	0	%100
13	M7A	X	-8.027	-8.027	0	%100
14	M7A	Z	13.903	13.903	0	%100
15	MP4A	X	-5.084	-5.084	0	%100
16	MP4A	Z	8.805	8.805	0	%100
17	M23A	X	-8.027	-8.027	0	%100
18	M23A	Z	13.903	13.903	0	%100
19	M24	X	-8.027	-8.027	0	%100
20	M24	Z	13.903	13.903	0	%100
21	M38	X	-1.529	-1.529	0	%100
22	M38	Z	2.649	2.649	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	0	0	0	%100
27	M54	X	-6.117	-6.117	0	%100
28	M54	Z	10.594	10.594	0	%100
29	M55	X	-1.992	-1.992	0	%100
30	M55	Z	3.45	3.45	0	%100
31	M56	X	-7.968	-7.968	0	%100
32	M56	Z	13.8	13.8	0	%100
33	MP3A	X	-5.084	-5.084	0	%100
34	MP3A	Z	8.805	8.805	0	%100
35	MP2A	X	-5.084	-5.084	0	%100
36	MP2A	Z	8.805	8.805	0	%100
37	MP1A	X	-5.084	-5.084	0	%100
38	MP1A	Z	8.805	8.805	0	%100
39	MP4C	X	-5.084	-5.084	0	%100
40	MP4C	Z	8.805	8.805	0	%100
41	MP3C	X	-5.084	-5.084	0	%100
42	MP3C	Z	8.805	8.805	0	%100
43	MP2C	X	-5.084	-5.084	0	%100
44	MP2C	Z	8.805	8.805	0	%100
45	MP1C	X	-5.084	-5.084	0	%100
46	MP1C	Z	8.805	8.805	0	%100
47	MP4B	X	-5.084	-5.084	0	%100
48	MP4B	Z	8.805	8.805	0	%100
49	MP3B	X	-5.084	-5.084	0	%100
50	MP3B	Z	8.805	8.805	0	%100
51	MP2B	X	-5.084	-5.084	0	%100
52	MP2B	Z	8.805	8.805	0	%100
53	MP1B	X	-5.084	-5.084	0	%100
54	MP1B	Z	8.805	8.805	0	%100
55	M40A	X	-4.616	-4.616	0	%100
56	M40A	Z	7.994	7.994	0	%100
57	M47A	X	-4.616	-4.616	0	%100
58	M47A	Z	7.994	7.994	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	-5.789	-5.789	0	%100
62	M61	Z	10.026	10.026	0	%100
63	M62	X	-5.789	-5.789	0	%100
64	M62	Z	10.026	10.026	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	-5.87	-5.87	0	%100
68	M64	Z	10.167	10.167	0	%100
69	M65	X	-5.87	-5.87	0	%100
70	M65	Z	10.167	10.167	0	%100
71	M66	X	-10.703	-10.703	0	%100
72	M66	Z	18.538	18.538	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	-7.946	-7.946	0	%100
2	M1	Z	4.587	4.587	0	%100
3	M2	X	-10.35	-10.35	0	%100
4	M2	Z	5.976	5.976	0	%100
5	M5	X	-11.818	-11.818	0	%100
6	M5	Z	6.823	6.823	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-11.818	-11.818	0	%100
10	M7	Z	6.823	6.823	0	%100
11	M6A	X	-4.634	-4.634	0	%100
12	M6A	Z	2.676	2.676	0	%100
13	M7A	X	-4.634	-4.634	0	%100
14	M7A	Z	2.676	2.676	0	%100
15	MP4A	X	-8.805	-8.805	0	%100
16	MP4A	Z	5.084	5.084	0	%100
17	M23A	X	-18.538	-18.538	0	%100
18	M23A	Z	10.703	10.703	0	%100
19	M24	X	-18.538	-18.538	0	%100
20	M24	Z	10.703	10.703	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	-4.634	-4.634	0	%100
24	M39A	Z	2.676	2.676	0	%100
25	M40	X	-4.634	-4.634	0	%100
26	M40	Z	2.676	2.676	0	%100
27	M54	X	-7.946	-7.946	0	%100
28	M54	Z	4.587	4.587	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	-10.35	-10.35	0	%100
32	M56	Z	5.976	5.976	0	%100
33	MP3A	X	-8.805	-8.805	0	%100
34	MP3A	Z	5.084	5.084	0	%100
35	MP2A	X	-8.805	-8.805	0	%100
36	MP2A	Z	5.084	5.084	0	%100
37	MP1A	X	-8.805	-8.805	0	%100
38	MP1A	Z	5.084	5.084	0	%100
39	MP4C	X	-8.805	-8.805	0	%100
40	MP4C	Z	5.084	5.084	0	%100
41	MP3C	X	-8.805	-8.805	0	%100
42	MP3C	Z	5.084	5.084	0	%100
43	MP2C	X	-8.805	-8.805	0	%100
44	MP2C	Z	5.084	5.084	0	%100
45	MP1C	X	-8.805	-8.805	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	5.084	5.084	0	%100
47	MP4B	X	-8.805	-8.805	0	%100
48	MP4B	Z	5.084	5.084	0	%100
49	MP3B	X	-8.805	-8.805	0	%100
50	MP3B	Z	5.084	5.084	0	%100
51	MP2B	X	-8.805	-8.805	0	%100
52	MP2B	Z	5.084	5.084	0	%100
53	MP1B	X	-8.805	-8.805	0	%100
54	MP1B	Z	5.084	5.084	0	%100
55	M40A	X	-2.665	-2.665	0	%100
56	M40A	Z	1.539	1.539	0	%100
57	M47A	X	-10.659	-10.659	0	%100
58	M47A	Z	6.154	6.154	0	%100
59	M54A	X	-2.665	-2.665	0	%100
60	M54A	Z	1.539	1.539	0	%100
61	M61	X	-3.342	-3.342	0	%100
62	M61	Z	1.93	1.93	0	%100
63	M62	X	-13.368	-13.368	0	%100
64	M62	Z	7.718	7.718	0	%100
65	M63	X	-3.342	-3.342	0	%100
66	M63	Z	1.93	1.93	0	%100
67	M64	X	-15.747	-15.747	0	%100
68	M64	Z	9.092	9.092	0	%100
69	M65	X	-7.376	-7.376	0	%100
70	M65	Z	4.259	4.259	0	%100
71	M66	X	-15.747	-15.747	0	%100
72	M66	Z	9.092	9.092	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	-12.233	-12.233	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-15.935	-15.935	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-18.195	-18.195	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-4.549	-4.549	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-4.549	-4.549	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	MP4A	X	-10.168	-10.168	0	%100
16	MP4A	Z	0	0	0	%100
17	M23A	X	-16.054	-16.054	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	-16.054	-16.054	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	-3.058	-3.058	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	-16.054	-16.054	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	-16.054	-16.054	0	%100
26	M40	Z	0	0	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	-3.058	-3.058	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	-3.984	-3.984	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	-3.984	-3.984	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	-10.168	-10.168	0	%100
34	MP3A	Z	0	0	0	%100
35	MP2A	X	-10.168	-10.168	0	%100
36	MP2A	Z	0	0	0	%100
37	MP1A	X	-10.168	-10.168	0	%100
38	MP1A	Z	0	0	0	%100
39	MP4C	X	-10.168	-10.168	0	%100
40	MP4C	Z	0	0	0	%100
41	MP3C	X	-10.168	-10.168	0	%100
42	MP3C	Z	0	0	0	%100
43	MP2C	X	-10.168	-10.168	0	%100
44	MP2C	Z	0	0	0	%100
45	MP1C	X	-10.168	-10.168	0	%100
46	MP1C	Z	0	0	0	%100
47	MP4B	X	-10.168	-10.168	0	%100
48	MP4B	Z	0	0	0	%100
49	MP3B	X	-10.168	-10.168	0	%100
50	MP3B	Z	0	0	0	%100
51	MP2B	X	-10.168	-10.168	0	%100
52	MP2B	Z	0	0	0	%100
53	MP1B	X	-10.168	-10.168	0	%100
54	MP1B	Z	0	0	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	0	0	0	%100
57	M47A	X	-9.231	-9.231	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	-9.231	-9.231	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	-11.577	-11.577	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	-11.577	-11.577	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	-21.405	-21.405	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-11.739	-11.739	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	-11.739	-11.739	0	%100
72	M66	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	-7.946	-7.946	0	%100
2	M1	Z	-4.587	-4.587	0	%100
3	M2	X	-10.35	-10.35	0	%100
4	M2	Z	-5.976	-5.976	0	%100
5	M5	X	-11.818	-11.818	0	%100
6	M5	Z	-6.823	-6.823	0	%100
7	M6	X	-11.818	-11.818	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	-6.823	-6.823	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-4.634	-4.634	0	%100
12	M6A	Z	-2.676	-2.676	0	%100
13	M7A	X	-4.634	-4.634	0	%100
14	M7A	Z	-2.676	-2.676	0	%100
15	MP4A	X	-8.805	-8.805	0	%100
16	MP4A	Z	-5.084	-5.084	0	%100
17	M23A	X	-4.634	-4.634	0	%100
18	M23A	Z	-2.676	-2.676	0	%100
19	M24	X	-4.634	-4.634	0	%100
20	M24	Z	-2.676	-2.676	0	%100
21	M38	X	-7.946	-7.946	0	%100
22	M38	Z	-4.587	-4.587	0	%100
23	M39A	X	-18.538	-18.538	0	%100
24	M39A	Z	-10.703	-10.703	0	%100
25	M40	X	-18.538	-18.538	0	%100
26	M40	Z	-10.703	-10.703	0	%100
27	M54	X	0	0	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	-10.35	-10.35	0	%100
30	M55	Z	-5.976	-5.976	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	-8.805	-8.805	0	%100
34	MP3A	Z	-5.084	-5.084	0	%100
35	MP2A	X	-8.805	-8.805	0	%100
36	MP2A	Z	-5.084	-5.084	0	%100
37	MP1A	X	-8.805	-8.805	0	%100
38	MP1A	Z	-5.084	-5.084	0	%100
39	MP4C	X	-8.805	-8.805	0	%100
40	MP4C	Z	-5.084	-5.084	0	%100
41	MP3C	X	-8.805	-8.805	0	%100
42	MP3C	Z	-5.084	-5.084	0	%100
43	MP2C	X	-8.805	-8.805	0	%100
44	MP2C	Z	-5.084	-5.084	0	%100
45	MP1C	X	-8.805	-8.805	0	%100
46	MP1C	Z	-5.084	-5.084	0	%100
47	MP4B	X	-8.805	-8.805	0	%100
48	MP4B	Z	-5.084	-5.084	0	%100
49	MP3B	X	-8.805	-8.805	0	%100
50	MP3B	Z	-5.084	-5.084	0	%100
51	MP2B	X	-8.805	-8.805	0	%100
52	MP2B	Z	-5.084	-5.084	0	%100
53	MP1B	X	-8.805	-8.805	0	%100
54	MP1B	Z	-5.084	-5.084	0	%100
55	M40A	X	-2.665	-2.665	0	%100
56	M40A	Z	-1.539	-1.539	0	%100
57	M47A	X	-2.665	-2.665	0	%100
58	M47A	Z	-1.539	-1.539	0	%100
59	M54A	X	-10.659	-10.659	0	%100
60	M54A	Z	-6.154	-6.154	0	%100
61	M61	X	-3.342	-3.342	0	%100
62	M61	Z	-1.93	-1.93	0	%100
63	M62	X	-3.342	-3.342	0	%100
64	M62	Z	-1.93	-1.93	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	-13.368	-13.368	0	%100
66	M63	Z	-7.718	-7.718	0	%100
67	M64	X	-15.747	-15.747	0	%100
68	M64	Z	-9.092	-9.092	0	%100
69	M65	X	-15.747	-15.747	0	%100
70	M65	Z	-9.092	-9.092	0	%100
71	M66	X	-7.376	-7.376	0	%100
72	M66	Z	-4.259	-4.259	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.529	-1.529	0	%100
2	M1	Z	-2.649	-2.649	0	%100
3	M2	X	-1.992	-1.992	0	%100
4	M2	Z	-3.45	-3.45	0	%100
5	M5	X	-2.274	-2.274	0	%100
6	M5	Z	-3.939	-3.939	0	%100
7	M6	X	-9.097	-9.097	0	%100
8	M6	Z	-15.757	-15.757	0	%100
9	M7	X	-2.274	-2.274	0	%100
10	M7	Z	-3.939	-3.939	0	%100
11	M6A	X	-8.027	-8.027	0	%100
12	M6A	Z	-13.903	-13.903	0	%100
13	M7A	X	-8.027	-8.027	0	%100
14	M7A	Z	-13.903	-13.903	0	%100
15	MP4A	X	-5.084	-5.084	0	%100
16	MP4A	Z	-8.805	-8.805	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	-6.117	-6.117	0	%100
22	M38	Z	-10.594	-10.594	0	%100
23	M39A	X	-8.027	-8.027	0	%100
24	M39A	Z	-13.903	-13.903	0	%100
25	M40	X	-8.027	-8.027	0	%100
26	M40	Z	-13.903	-13.903	0	%100
27	M54	X	-1.529	-1.529	0	%100
28	M54	Z	-2.649	-2.649	0	%100
29	M55	X	-7.968	-7.968	0	%100
30	M55	Z	-13.8	-13.8	0	%100
31	M56	X	-1.992	-1.992	0	%100
32	M56	Z	-3.45	-3.45	0	%100
33	MP3A	X	-5.084	-5.084	0	%100
34	MP3A	Z	-8.805	-8.805	0	%100
35	MP2A	X	-5.084	-5.084	0	%100
36	MP2A	Z	-8.805	-8.805	0	%100
37	MP1A	X	-5.084	-5.084	0	%100
38	MP1A	Z	-8.805	-8.805	0	%100
39	MP4C	X	-5.084	-5.084	0	%100
40	MP4C	Z	-8.805	-8.805	0	%100
41	MP3C	X	-5.084	-5.084	0	%100
42	MP3C	Z	-8.805	-8.805	0	%100
43	MP2C	X	-5.084	-5.084	0	%100
44	MP2C	Z	-8.805	-8.805	0	%100
45	MP1C	X	-5.084	-5.084	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	-8.805	-8.805	0	%100
47	MP4B	X	-5.084	-5.084	0	%100
48	MP4B	Z	-8.805	-8.805	0	%100
49	MP3B	X	-5.084	-5.084	0	%100
50	MP3B	Z	-8.805	-8.805	0	%100
51	MP2B	X	-5.084	-5.084	0	%100
52	MP2B	Z	-8.805	-8.805	0	%100
53	MP1B	X	-5.084	-5.084	0	%100
54	MP1B	Z	-8.805	-8.805	0	%100
55	M40A	X	-4.616	-4.616	0	%100
56	M40A	Z	-7.994	-7.994	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	-4.616	-4.616	0	%100
60	M54A	Z	-7.994	-7.994	0	%100
61	M61	X	-5.789	-5.789	0	%100
62	M61	Z	-10.026	-10.026	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	-5.789	-5.789	0	%100
66	M63	Z	-10.026	-10.026	0	%100
67	M64	X	-5.87	-5.87	0	%100
68	M64	Z	-10.167	-10.167	0	%100
69	M65	X	-10.703	-10.703	0	%100
70	M65	Z	-18.538	-18.538	0	%100
71	M66	X	-5.87	-5.87	0	%100
72	M66	Z	-10.167	-10.167	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-3.985	-3.985	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-3.985	-3.985	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-6.441	-6.441	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-6.441	-6.441	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	-4.232	-4.232	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	-1.61	-1.61	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	-1.61	-1.61	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	-2.824	-2.824	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	-1.61	-1.61	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	-1.61	-1.61	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	0	0	0	%100
28	M54	Z	-2.824	-2.824	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	-3.434	-3.434	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	-3.434	-3.434	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-4.232	-4.232	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-4.457	-4.457	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-4.232	-4.232	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-4.232	-4.232	0	%100
41	MP3C	X	0	0	0	%100
42	MP3C	Z	-4.232	-4.232	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-4.457	-4.457	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	-4.232	-4.232	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-4.232	-4.232	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	-4.232	-4.232	0	%100
51	MP2B	X	0	0	0	%100
52	MP2B	Z	-4.457	-4.457	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-4.232	-4.232	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	-4.835	-4.835	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	-1.209	-1.209	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	-1.209	-1.209	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	-4.502	-4.502	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	-1.125	-1.125	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-1.125	-1.125	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	-2.074	-2.074	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	-5.213	-5.213	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	-5.213	-5.213	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	.471	.471	0	%100
2	M1	Z	-.815	-.815	0	%100
3	M2	X	.572	.572	0	%100
4	M2	Z	-.991	-.991	0	%100
5	M5	X	.664	.664	0	%100
6	M5	Z	-1.15	-1.15	0	%100
7	M6	X	.664	.664	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
8	M6	Z	-1.15	-1.15	0	%100
9	M7	X	2.657	2.657	0	%100
10	M7	Z	-4.601	-4.601	0	%100
11	M6A	X	2.415	2.415	0	%100
12	M6A	Z	-4.183	-4.183	0	%100
13	M7A	X	2.415	2.415	0	%100
14	M7A	Z	-4.183	-4.183	0	%100
15	MP4A	X	2.116	2.116	0	%100
16	MP4A	Z	-3.665	-3.665	0	%100
17	M23A	X	2.415	2.415	0	%100
18	M23A	Z	-4.183	-4.183	0	%100
19	M24	X	2.415	2.415	0	%100
20	M24	Z	-4.183	-4.183	0	%100
21	M38	X	.471	.471	0	%100
22	M38	Z	-.815	-.815	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	0	0	0	%100
27	M54	X	1.883	1.883	0	%100
28	M54	Z	-3.261	-3.261	0	%100
29	M55	X	.572	.572	0	%100
30	M55	Z	-.991	-.991	0	%100
31	M56	X	2.289	2.289	0	%100
32	M56	Z	-3.965	-3.965	0	%100
33	MP3A	X	2.116	2.116	0	%100
34	MP3A	Z	-3.665	-3.665	0	%100
35	MP2A	X	2.228	2.228	0	%100
36	MP2A	Z	-3.86	-3.86	0	%100
37	MP1A	X	2.116	2.116	0	%100
38	MP1A	Z	-3.665	-3.665	0	%100
39	MP4C	X	2.116	2.116	0	%100
40	MP4C	Z	-3.665	-3.665	0	%100
41	MP3C	X	2.116	2.116	0	%100
42	MP3C	Z	-3.665	-3.665	0	%100
43	MP2C	X	2.228	2.228	0	%100
44	MP2C	Z	-3.86	-3.86	0	%100
45	MP1C	X	2.116	2.116	0	%100
46	MP1C	Z	-3.665	-3.665	0	%100
47	MP4B	X	2.116	2.116	0	%100
48	MP4B	Z	-3.665	-3.665	0	%100
49	MP3B	X	2.116	2.116	0	%100
50	MP3B	Z	-3.665	-3.665	0	%100
51	MP2B	X	2.228	2.228	0	%100
52	MP2B	Z	-3.86	-3.86	0	%100
53	MP1B	X	2.116	2.116	0	%100
54	MP1B	Z	-3.665	-3.665	0	%100
55	M40A	X	1.813	1.813	0	%100
56	M40A	Z	-3.14	-3.14	0	%100
57	M47A	X	1.813	1.813	0	%100
58	M47A	Z	-3.14	-3.14	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	1.688	1.688	0	%100
62	M61	Z	-2.924	-2.924	0	%100
63	M62	X	1.688	1.688	0	%100
64	M62	Z	-2.924	-2.924	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	1.56	1.56	0	%100
68	M64	Z	-2.702	-2.702	0	%100
69	M65	X	1.56	1.56	0	%100
70	M65	Z	-2.702	-2.702	0	%100
71	M66	X	3.129	3.129	0	%100
72	M66	Z	-5.42	-5.42	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	2.446	2.446	0	%100
2	M1	Z	-1.412	-1.412	0	%100
3	M2	X	2.974	2.974	0	%100
4	M2	Z	-1.717	-1.717	0	%100
5	M5	X	3.451	3.451	0	%100
6	M5	Z	-1.992	-1.992	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	3.451	3.451	0	%100
10	M7	Z	-1.992	-1.992	0	%100
11	M6A	X	1.394	1.394	0	%100
12	M6A	Z	-0.805	-0.805	0	%100
13	M7A	X	1.394	1.394	0	%100
14	M7A	Z	-0.805	-0.805	0	%100
15	MP4A	X	3.665	3.665	0	%100
16	MP4A	Z	-2.116	-2.116	0	%100
17	M23A	X	5.578	5.578	0	%100
18	M23A	Z	-3.22	-3.22	0	%100
19	M24	X	5.578	5.578	0	%100
20	M24	Z	-3.22	-3.22	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	1.394	1.394	0	%100
24	M39A	Z	-0.805	-0.805	0	%100
25	M40	X	1.394	1.394	0	%100
26	M40	Z	-0.805	-0.805	0	%100
27	M54	X	2.446	2.446	0	%100
28	M54	Z	-1.412	-1.412	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	2.974	2.974	0	%100
32	M56	Z	-1.717	-1.717	0	%100
33	MP3A	X	3.665	3.665	0	%100
34	MP3A	Z	-2.116	-2.116	0	%100
35	MP2A	X	3.86	3.86	0	%100
36	MP2A	Z	-2.228	-2.228	0	%100
37	MP1A	X	3.665	3.665	0	%100
38	MP1A	Z	-2.116	-2.116	0	%100
39	MP4C	X	3.665	3.665	0	%100
40	MP4C	Z	-2.116	-2.116	0	%100
41	MP3C	X	3.665	3.665	0	%100
42	MP3C	Z	-2.116	-2.116	0	%100
43	MP2C	X	3.86	3.86	0	%100
44	MP2C	Z	-2.228	-2.228	0	%100
45	MP1C	X	3.665	3.665	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	-2.116	-2.116	0	%100
47	MP4B	X	3.665	3.665	0	%100
48	MP4B	Z	-2.116	-2.116	0	%100
49	MP3B	X	3.665	3.665	0	%100
50	MP3B	Z	-2.116	-2.116	0	%100
51	MP2B	X	3.86	3.86	0	%100
52	MP2B	Z	-2.228	-2.228	0	%100
53	MP1B	X	3.665	3.665	0	%100
54	MP1B	Z	-2.116	-2.116	0	%100
55	M40A	X	1.047	1.047	0	%100
56	M40A	Z	-.604	-.604	0	%100
57	M47A	X	4.187	4.187	0	%100
58	M47A	Z	-2.417	-2.417	0	%100
59	M54A	X	1.047	1.047	0	%100
60	M54A	Z	-.604	-.604	0	%100
61	M61	X	.975	.975	0	%100
62	M61	Z	-.563	-.563	0	%100
63	M62	X	3.899	3.899	0	%100
64	M62	Z	-2.251	-2.251	0	%100
65	M63	X	.975	.975	0	%100
66	M63	Z	-.563	-.563	0	%100
67	M64	X	4.514	4.514	0	%100
68	M64	Z	-2.606	-2.606	0	%100
69	M65	X	1.796	1.796	0	%100
70	M65	Z	-1.037	-1.037	0	%100
71	M66	X	4.514	4.514	0	%100
72	M66	Z	-2.606	-2.606	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	3.765	3.765	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	4.579	4.579	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	5.313	5.313	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	1.328	1.328	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	1.328	1.328	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	MP4A	X	4.232	4.232	0	%100
16	MP4A	Z	0	0	0	%100
17	M23A	X	4.83	4.83	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	4.83	4.83	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	.941	.941	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	4.83	4.83	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	4.83	4.83	0	%100
26	M40	Z	0	0	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	.941	.941	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	1.145	1.145	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	1.145	1.145	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	4.232	4.232	0	%100
34	MP3A	Z	0	0	0	%100
35	MP2A	X	4.457	4.457	0	%100
36	MP2A	Z	0	0	0	%100
37	MP1A	X	4.232	4.232	0	%100
38	MP1A	Z	0	0	0	%100
39	MP4C	X	4.232	4.232	0	%100
40	MP4C	Z	0	0	0	%100
41	MP3C	X	4.232	4.232	0	%100
42	MP3C	Z	0	0	0	%100
43	MP2C	X	4.457	4.457	0	%100
44	MP2C	Z	0	0	0	%100
45	MP1C	X	4.232	4.232	0	%100
46	MP1C	Z	0	0	0	%100
47	MP4B	X	4.232	4.232	0	%100
48	MP4B	Z	0	0	0	%100
49	MP3B	X	4.232	4.232	0	%100
50	MP3B	Z	0	0	0	%100
51	MP2B	X	4.457	4.457	0	%100
52	MP2B	Z	0	0	0	%100
53	MP1B	X	4.232	4.232	0	%100
54	MP1B	Z	0	0	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	0	0	0	%100
57	M47A	X	3.626	3.626	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	3.626	3.626	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	3.376	3.376	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	3.376	3.376	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	6.259	6.259	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	3.12	3.12	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	3.12	3.12	0	%100
72	M66	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.446	2.446	0	%100
2	M1	Z	1.412	1.412	0	%100
3	M2	X	2.974	2.974	0	%100
4	M2	Z	1.717	1.717	0	%100
5	M5	X	3.451	3.451	0	%100
6	M5	Z	1.992	1.992	0	%100
7	M6	X	3.451	3.451	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	1.992	1.992	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	1.394	1.394	0	%100
12	M6A	Z	.805	.805	0	%100
13	M7A	X	1.394	1.394	0	%100
14	M7A	Z	.805	.805	0	%100
15	MP4A	X	3.665	3.665	0	%100
16	MP4A	Z	2.116	2.116	0	%100
17	M23A	X	1.394	1.394	0	%100
18	M23A	Z	.805	.805	0	%100
19	M24	X	1.394	1.394	0	%100
20	M24	Z	.805	.805	0	%100
21	M38	X	2.446	2.446	0	%100
22	M38	Z	1.412	1.412	0	%100
23	M39A	X	5.578	5.578	0	%100
24	M39A	Z	3.22	3.22	0	%100
25	M40	X	5.578	5.578	0	%100
26	M40	Z	3.22	3.22	0	%100
27	M54	X	0	0	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	2.974	2.974	0	%100
30	M55	Z	1.717	1.717	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	3.665	3.665	0	%100
34	MP3A	Z	2.116	2.116	0	%100
35	MP2A	X	3.86	3.86	0	%100
36	MP2A	Z	2.228	2.228	0	%100
37	MP1A	X	3.665	3.665	0	%100
38	MP1A	Z	2.116	2.116	0	%100
39	MP4C	X	3.665	3.665	0	%100
40	MP4C	Z	2.116	2.116	0	%100
41	MP3C	X	3.665	3.665	0	%100
42	MP3C	Z	2.116	2.116	0	%100
43	MP2C	X	3.86	3.86	0	%100
44	MP2C	Z	2.228	2.228	0	%100
45	MP1C	X	3.665	3.665	0	%100
46	MP1C	Z	2.116	2.116	0	%100
47	MP4B	X	3.665	3.665	0	%100
48	MP4B	Z	2.116	2.116	0	%100
49	MP3B	X	3.665	3.665	0	%100
50	MP3B	Z	2.116	2.116	0	%100
51	MP2B	X	3.86	3.86	0	%100
52	MP2B	Z	2.228	2.228	0	%100
53	MP1B	X	3.665	3.665	0	%100
54	MP1B	Z	2.116	2.116	0	%100
55	M40A	X	1.047	1.047	0	%100
56	M40A	Z	.604	.604	0	%100
57	M47A	X	1.047	1.047	0	%100
58	M47A	Z	.604	.604	0	%100
59	M54A	X	4.187	4.187	0	%100
60	M54A	Z	2.417	2.417	0	%100
61	M61	X	.975	.975	0	%100
62	M61	Z	.563	.563	0	%100
63	M62	X	.975	.975	0	%100
64	M62	Z	.563	.563	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	3.899	3.899	0	%100
66	M63	Z	2.251	2.251	0	%100
67	M64	X	4.514	4.514	0	%100
68	M64	Z	2.606	2.606	0	%100
69	M65	X	4.514	4.514	0	%100
70	M65	Z	2.606	2.606	0	%100
71	M66	X	1.796	1.796	0	%100
72	M66	Z	1.037	1.037	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	.471	.471	0	%100
2	M1	Z	.815	.815	0	%100
3	M2	X	.572	.572	0	%100
4	M2	Z	.991	.991	0	%100
5	M5	X	.664	.664	0	%100
6	M5	Z	1.15	1.15	0	%100
7	M6	X	2.657	2.657	0	%100
8	M6	Z	4.601	4.601	0	%100
9	M7	X	.664	.664	0	%100
10	M7	Z	1.15	1.15	0	%100
11	M6A	X	2.415	2.415	0	%100
12	M6A	Z	4.183	4.183	0	%100
13	M7A	X	2.415	2.415	0	%100
14	M7A	Z	4.183	4.183	0	%100
15	MP4A	X	2.116	2.116	0	%100
16	MP4A	Z	3.665	3.665	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	1.883	1.883	0	%100
22	M38	Z	3.261	3.261	0	%100
23	M39A	X	2.415	2.415	0	%100
24	M39A	Z	4.183	4.183	0	%100
25	M40	X	2.415	2.415	0	%100
26	M40	Z	4.183	4.183	0	%100
27	M54	X	.471	.471	0	%100
28	M54	Z	.815	.815	0	%100
29	M55	X	2.289	2.289	0	%100
30	M55	Z	3.965	3.965	0	%100
31	M56	X	.572	.572	0	%100
32	M56	Z	.991	.991	0	%100
33	MP3A	X	2.116	2.116	0	%100
34	MP3A	Z	3.665	3.665	0	%100
35	MP2A	X	2.228	2.228	0	%100
36	MP2A	Z	3.86	3.86	0	%100
37	MP1A	X	2.116	2.116	0	%100
38	MP1A	Z	3.665	3.665	0	%100
39	MP4C	X	2.116	2.116	0	%100
40	MP4C	Z	3.665	3.665	0	%100
41	MP3C	X	2.116	2.116	0	%100
42	MP3C	Z	3.665	3.665	0	%100
43	MP2C	X	2.228	2.228	0	%100
44	MP2C	Z	3.86	3.86	0	%100
45	MP1C	X	2.116	2.116	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	3.665	3.665	0	%100
47	MP4B	X	2.116	2.116	0	%100
48	MP4B	Z	3.665	3.665	0	%100
49	MP3B	X	2.116	2.116	0	%100
50	MP3B	Z	3.665	3.665	0	%100
51	MP2B	X	2.228	2.228	0	%100
52	MP2B	Z	3.86	3.86	0	%100
53	MP1B	X	2.116	2.116	0	%100
54	MP1B	Z	3.665	3.665	0	%100
55	M40A	X	1.813	1.813	0	%100
56	M40A	Z	3.14	3.14	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	1.813	1.813	0	%100
60	M54A	Z	3.14	3.14	0	%100
61	M61	X	1.688	1.688	0	%100
62	M61	Z	2.924	2.924	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	1.688	1.688	0	%100
66	M63	Z	2.924	2.924	0	%100
67	M64	X	1.56	1.56	0	%100
68	M64	Z	2.702	2.702	0	%100
69	M65	X	3.129	3.129	0	%100
70	M65	Z	5.42	5.42	0	%100
71	M66	X	1.56	1.56	0	%100
72	M66	Z	2.702	2.702	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	3.985	3.985	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	3.985	3.985	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	6.441	6.441	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	6.441	6.441	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	4.232	4.232	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	1.61	1.61	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	1.61	1.61	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	2.824	2.824	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	1.61	1.61	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	1.61	1.61	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	0	0	0	%100
28	M54	Z	2.824	2.824	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	3.434	3.434	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	3.434	3.434	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	4.232	4.232	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	4.457	4.457	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	4.232	4.232	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	4.232	4.232	0	%100
41	MP3C	X	0	0	0	%100
42	MP3C	Z	4.232	4.232	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	4.457	4.457	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	4.232	4.232	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	4.232	4.232	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	4.232	4.232	0	%100
51	MP2B	X	0	0	0	%100
52	MP2B	Z	4.457	4.457	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	4.232	4.232	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	4.835	4.835	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	1.209	1.209	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	1.209	1.209	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	4.502	4.502	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	1.125	1.125	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	1.125	1.125	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	2.074	2.074	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	5.213	5.213	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	5.213	5.213	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	-.471	-.471	0	%100
2	M1	Z	.815	.815	0	%100
3	M2	X	-.572	-.572	0	%100
4	M2	Z	.991	.991	0	%100
5	M5	X	-.664	-.664	0	%100
6	M5	Z	1.15	1.15	0	%100
7	M6	X	-.664	-.664	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	1.15	1.15	0	%100
9	M7	X	-2.657	-2.657	0	%100
10	M7	Z	4.601	4.601	0	%100
11	M6A	X	-2.415	-2.415	0	%100
12	M6A	Z	4.183	4.183	0	%100
13	M7A	X	-2.415	-2.415	0	%100
14	M7A	Z	4.183	4.183	0	%100
15	MP4A	X	-2.116	-2.116	0	%100
16	MP4A	Z	3.665	3.665	0	%100
17	M23A	X	-2.415	-2.415	0	%100
18	M23A	Z	4.183	4.183	0	%100
19	M24	X	-2.415	-2.415	0	%100
20	M24	Z	4.183	4.183	0	%100
21	M38	X	-.471	-.471	0	%100
22	M38	Z	.815	.815	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	0	0	0	%100
27	M54	X	-1.883	-1.883	0	%100
28	M54	Z	3.261	3.261	0	%100
29	M55	X	-.572	-.572	0	%100
30	M55	Z	.991	.991	0	%100
31	M56	X	-2.289	-2.289	0	%100
32	M56	Z	3.965	3.965	0	%100
33	MP3A	X	-2.116	-2.116	0	%100
34	MP3A	Z	3.665	3.665	0	%100
35	MP2A	X	-2.228	-2.228	0	%100
36	MP2A	Z	3.86	3.86	0	%100
37	MP1A	X	-2.116	-2.116	0	%100
38	MP1A	Z	3.665	3.665	0	%100
39	MP4C	X	-2.116	-2.116	0	%100
40	MP4C	Z	3.665	3.665	0	%100
41	MP3C	X	-2.116	-2.116	0	%100
42	MP3C	Z	3.665	3.665	0	%100
43	MP2C	X	-2.228	-2.228	0	%100
44	MP2C	Z	3.86	3.86	0	%100
45	MP1C	X	-2.116	-2.116	0	%100
46	MP1C	Z	3.665	3.665	0	%100
47	MP4B	X	-2.116	-2.116	0	%100
48	MP4B	Z	3.665	3.665	0	%100
49	MP3B	X	-2.116	-2.116	0	%100
50	MP3B	Z	3.665	3.665	0	%100
51	MP2B	X	-2.228	-2.228	0	%100
52	MP2B	Z	3.86	3.86	0	%100
53	MP1B	X	-2.116	-2.116	0	%100
54	MP1B	Z	3.665	3.665	0	%100
55	M40A	X	-1.813	-1.813	0	%100
56	M40A	Z	3.14	3.14	0	%100
57	M47A	X	-1.813	-1.813	0	%100
58	M47A	Z	3.14	3.14	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	-1.688	-1.688	0	%100
62	M61	Z	2.924	2.924	0	%100
63	M62	X	-1.688	-1.688	0	%100
64	M62	Z	2.924	2.924	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	-1.56	-1.56	0	%100
68	M64	Z	2.702	2.702	0	%100
69	M65	X	-1.56	-1.56	0	%100
70	M65	Z	2.702	2.702	0	%100
71	M66	X	-3.129	-3.129	0	%100
72	M66	Z	5.42	5.42	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	-2.446	-2.446	0	%100
2	M1	Z	1.412	1.412	0	%100
3	M2	X	-2.974	-2.974	0	%100
4	M2	Z	1.717	1.717	0	%100
5	M5	X	-3.451	-3.451	0	%100
6	M5	Z	1.992	1.992	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-3.451	-3.451	0	%100
10	M7	Z	1.992	1.992	0	%100
11	M6A	X	-1.394	-1.394	0	%100
12	M6A	Z	.805	.805	0	%100
13	M7A	X	-1.394	-1.394	0	%100
14	M7A	Z	.805	.805	0	%100
15	MP4A	X	-3.665	-3.665	0	%100
16	MP4A	Z	2.116	2.116	0	%100
17	M23A	X	-5.578	-5.578	0	%100
18	M23A	Z	3.22	3.22	0	%100
19	M24	X	-5.578	-5.578	0	%100
20	M24	Z	3.22	3.22	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	-1.394	-1.394	0	%100
24	M39A	Z	.805	.805	0	%100
25	M40	X	-1.394	-1.394	0	%100
26	M40	Z	.805	.805	0	%100
27	M54	X	-2.446	-2.446	0	%100
28	M54	Z	1.412	1.412	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	-2.974	-2.974	0	%100
32	M56	Z	1.717	1.717	0	%100
33	MP3A	X	-3.665	-3.665	0	%100
34	MP3A	Z	2.116	2.116	0	%100
35	MP2A	X	-3.86	-3.86	0	%100
36	MP2A	Z	2.228	2.228	0	%100
37	MP1A	X	-3.665	-3.665	0	%100
38	MP1A	Z	2.116	2.116	0	%100
39	MP4C	X	-3.665	-3.665	0	%100
40	MP4C	Z	2.116	2.116	0	%100
41	MP3C	X	-3.665	-3.665	0	%100
42	MP3C	Z	2.116	2.116	0	%100
43	MP2C	X	-3.86	-3.86	0	%100
44	MP2C	Z	2.228	2.228	0	%100
45	MP1C	X	-3.665	-3.665	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	2.116	2.116	0	%100
47	MP4B	X	-3.665	-3.665	0	%100
48	MP4B	Z	2.116	2.116	0	%100
49	MP3B	X	-3.665	-3.665	0	%100
50	MP3B	Z	2.116	2.116	0	%100
51	MP2B	X	-3.86	-3.86	0	%100
52	MP2B	Z	2.228	2.228	0	%100
53	MP1B	X	-3.665	-3.665	0	%100
54	MP1B	Z	2.116	2.116	0	%100
55	M40A	X	-1.047	-1.047	0	%100
56	M40A	Z	.604	.604	0	%100
57	M47A	X	-4.187	-4.187	0	%100
58	M47A	Z	2.417	2.417	0	%100
59	M54A	X	-1.047	-1.047	0	%100
60	M54A	Z	.604	.604	0	%100
61	M61	X	-.975	-.975	0	%100
62	M61	Z	.563	.563	0	%100
63	M62	X	-3.899	-3.899	0	%100
64	M62	Z	2.251	2.251	0	%100
65	M63	X	-.975	-.975	0	%100
66	M63	Z	.563	.563	0	%100
67	M64	X	-4.514	-4.514	0	%100
68	M64	Z	2.606	2.606	0	%100
69	M65	X	-1.796	-1.796	0	%100
70	M65	Z	1.037	1.037	0	%100
71	M66	X	-4.514	-4.514	0	%100
72	M66	Z	2.606	2.606	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	-3.765	-3.765	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-4.579	-4.579	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-5.313	-5.313	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-1.328	-1.328	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-1.328	-1.328	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	MP4A	X	-4.232	-4.232	0	%100
16	MP4A	Z	0	0	0	%100
17	M23A	X	-4.83	-4.83	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	-4.83	-4.83	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	-.941	-.941	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	-4.83	-4.83	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	-4.83	-4.83	0	%100
26	M40	Z	0	0	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	-0.941	-0.941	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	-1.145	-1.145	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	-1.145	-1.145	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	-4.232	-4.232	0	%100
34	MP3A	Z	0	0	0	%100
35	MP2A	X	-4.457	-4.457	0	%100
36	MP2A	Z	0	0	0	%100
37	MP1A	X	-4.232	-4.232	0	%100
38	MP1A	Z	0	0	0	%100
39	MP4C	X	-4.232	-4.232	0	%100
40	MP4C	Z	0	0	0	%100
41	MP3C	X	-4.232	-4.232	0	%100
42	MP3C	Z	0	0	0	%100
43	MP2C	X	-4.457	-4.457	0	%100
44	MP2C	Z	0	0	0	%100
45	MP1C	X	-4.232	-4.232	0	%100
46	MP1C	Z	0	0	0	%100
47	MP4B	X	-4.232	-4.232	0	%100
48	MP4B	Z	0	0	0	%100
49	MP3B	X	-4.232	-4.232	0	%100
50	MP3B	Z	0	0	0	%100
51	MP2B	X	-4.457	-4.457	0	%100
52	MP2B	Z	0	0	0	%100
53	MP1B	X	-4.232	-4.232	0	%100
54	MP1B	Z	0	0	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	0	0	0	%100
57	M47A	X	-3.626	-3.626	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	-3.626	-3.626	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	-3.376	-3.376	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	-3.376	-3.376	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	-6.259	-6.259	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	-3.12	-3.12	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	-3.12	-3.12	0	%100
72	M66	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	-2.446	-2.446	0	%100
2	M1	Z	-1.412	-1.412	0	%100
3	M2	X	-2.974	-2.974	0	%100
4	M2	Z	-1.717	-1.717	0	%100
5	M5	X	-3.451	-3.451	0	%100
6	M5	Z	-1.992	-1.992	0	%100
7	M6	X	-3.451	-3.451	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	-1.992	-1.992	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-1.394	-1.394	0	%100
12	M6A	Z	-.805	-.805	0	%100
13	M7A	X	-1.394	-1.394	0	%100
14	M7A	Z	-.805	-.805	0	%100
15	MP4A	X	-3.665	-3.665	0	%100
16	MP4A	Z	-2.116	-2.116	0	%100
17	M23A	X	-1.394	-1.394	0	%100
18	M23A	Z	-.805	-.805	0	%100
19	M24	X	-1.394	-1.394	0	%100
20	M24	Z	-.805	-.805	0	%100
21	M38	X	-2.446	-2.446	0	%100
22	M38	Z	-1.412	-1.412	0	%100
23	M39A	X	-5.578	-5.578	0	%100
24	M39A	Z	-3.22	-3.22	0	%100
25	M40	X	-5.578	-5.578	0	%100
26	M40	Z	-3.22	-3.22	0	%100
27	M54	X	0	0	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	-2.974	-2.974	0	%100
30	M55	Z	-1.717	-1.717	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	-3.665	-3.665	0	%100
34	MP3A	Z	-2.116	-2.116	0	%100
35	MP2A	X	-3.86	-3.86	0	%100
36	MP2A	Z	-2.228	-2.228	0	%100
37	MP1A	X	-3.665	-3.665	0	%100
38	MP1A	Z	-2.116	-2.116	0	%100
39	MP4C	X	-3.665	-3.665	0	%100
40	MP4C	Z	-2.116	-2.116	0	%100
41	MP3C	X	-3.665	-3.665	0	%100
42	MP3C	Z	-2.116	-2.116	0	%100
43	MP2C	X	-3.86	-3.86	0	%100
44	MP2C	Z	-2.228	-2.228	0	%100
45	MP1C	X	-3.665	-3.665	0	%100
46	MP1C	Z	-2.116	-2.116	0	%100
47	MP4B	X	-3.665	-3.665	0	%100
48	MP4B	Z	-2.116	-2.116	0	%100
49	MP3B	X	-3.665	-3.665	0	%100
50	MP3B	Z	-2.116	-2.116	0	%100
51	MP2B	X	-3.86	-3.86	0	%100
52	MP2B	Z	-2.228	-2.228	0	%100
53	MP1B	X	-3.665	-3.665	0	%100
54	MP1B	Z	-2.116	-2.116	0	%100
55	M40A	X	-1.047	-1.047	0	%100
56	M40A	Z	-.604	-.604	0	%100
57	M47A	X	-1.047	-1.047	0	%100
58	M47A	Z	-.604	-.604	0	%100
59	M54A	X	-4.187	-4.187	0	%100
60	M54A	Z	-2.417	-2.417	0	%100
61	M61	X	-.975	-.975	0	%100
62	M61	Z	-.563	-.563	0	%100
63	M62	X	-.975	-.975	0	%100
64	M62	Z	-.563	-.563	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	-3.899	-3.899	0	%100
66	M63	Z	-2.251	-2.251	0	%100
67	M64	X	-4.514	-4.514	0	%100
68	M64	Z	-2.606	-2.606	0	%100
69	M65	X	-4.514	-4.514	0	%100
70	M65	Z	-2.606	-2.606	0	%100
71	M66	X	-1.796	-1.796	0	%100
72	M66	Z	-1.037	-1.037	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	-471	-471	0	%100
2	M1	Z	-815	-815	0	%100
3	M2	X	-572	-572	0	%100
4	M2	Z	-991	-991	0	%100
5	M5	X	-664	-664	0	%100
6	M5	Z	-1.15	-1.15	0	%100
7	M6	X	-2.657	-2.657	0	%100
8	M6	Z	-4.601	-4.601	0	%100
9	M7	X	-664	-664	0	%100
10	M7	Z	-1.15	-1.15	0	%100
11	M6A	X	-2.415	-2.415	0	%100
12	M6A	Z	-4.183	-4.183	0	%100
13	M7A	X	-2.415	-2.415	0	%100
14	M7A	Z	-4.183	-4.183	0	%100
15	MP4A	X	-2.116	-2.116	0	%100
16	MP4A	Z	-3.665	-3.665	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	-1.883	-1.883	0	%100
22	M38	Z	-3.261	-3.261	0	%100
23	M39A	X	-2.415	-2.415	0	%100
24	M39A	Z	-4.183	-4.183	0	%100
25	M40	X	-2.415	-2.415	0	%100
26	M40	Z	-4.183	-4.183	0	%100
27	M54	X	-471	-471	0	%100
28	M54	Z	-815	-815	0	%100
29	M55	X	-2.289	-2.289	0	%100
30	M55	Z	-3.965	-3.965	0	%100
31	M56	X	-572	-572	0	%100
32	M56	Z	-991	-991	0	%100
33	MP3A	X	-2.116	-2.116	0	%100
34	MP3A	Z	-3.665	-3.665	0	%100
35	MP2A	X	-2.228	-2.228	0	%100
36	MP2A	Z	-3.86	-3.86	0	%100
37	MP1A	X	-2.116	-2.116	0	%100
38	MP1A	Z	-3.665	-3.665	0	%100
39	MP4C	X	-2.116	-2.116	0	%100
40	MP4C	Z	-3.665	-3.665	0	%100
41	MP3C	X	-2.116	-2.116	0	%100
42	MP3C	Z	-3.665	-3.665	0	%100
43	MP2C	X	-2.228	-2.228	0	%100
44	MP2C	Z	-3.86	-3.86	0	%100
45	MP1C	X	-2.116	-2.116	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	-3.665	-3.665	0	%100
47	MP4B	X	-2.116	-2.116	0	%100
48	MP4B	Z	-3.665	-3.665	0	%100
49	MP3B	X	-2.116	-2.116	0	%100
50	MP3B	Z	-3.665	-3.665	0	%100
51	MP2B	X	-2.228	-2.228	0	%100
52	MP2B	Z	-3.86	-3.86	0	%100
53	MP1B	X	-2.116	-2.116	0	%100
54	MP1B	Z	-3.665	-3.665	0	%100
55	M40A	X	-1.813	-1.813	0	%100
56	M40A	Z	-3.14	-3.14	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	-1.813	-1.813	0	%100
60	M54A	Z	-3.14	-3.14	0	%100
61	M61	X	-1.688	-1.688	0	%100
62	M61	Z	-2.924	-2.924	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	-1.688	-1.688	0	%100
66	M63	Z	-2.924	-2.924	0	%100
67	M64	X	-1.56	-1.56	0	%100
68	M64	Z	-2.702	-2.702	0	%100
69	M65	X	-3.129	-3.129	0	%100
70	M65	Z	-5.42	-5.42	0	%100
71	M66	X	-1.56	-1.56	0	%100
72	M66	Z	-2.702	-2.702	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-.867	-.867	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-.867	-.867	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-1.36	-1.36	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-1.36	-1.36	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	-.646	-.646	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	-.34	-.34	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	-.34	-.34	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	-.583	-.583	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	-.34	-.34	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	-.34	-.34	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	0	0	0	%100
28	M54	Z	-.583	-.583	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	-.76	-.76	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	-.76	-.76	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-.646	-.646	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-.646	-.646	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-.646	-.646	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	-.646	-.646	0	%100
41	MP3C	X	0	0	0	%100
42	MP3C	Z	-.646	-.646	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	-.646	-.646	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	-.646	-.646	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-.646	-.646	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	-.646	-.646	0	%100
51	MP2B	X	0	0	0	%100
52	MP2B	Z	-.646	-.646	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-.646	-.646	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	-.782	-.782	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	-.196	-.196	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	-.196	-.196	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	-.981	-.981	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	-.245	-.245	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	-.245	-.245	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	-.541	-.541	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	-1.156	-1.156	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	-1.156	-1.156	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	.097	.097	0	%100
2	M1	Z	-.168	-.168	0	%100
3	M2	X	.127	.127	0	%100
4	M2	Z	-.219	-.219	0	%100
5	M5	X	.145	.145	0	%100
6	M5	Z	-.25	-.25	0	%100
7	M6	X	.145	.145	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	-.25	-.25	0	%100
9	M7	X	.578	.578	0	%100
10	M7	Z	-1.001	-1.001	0	%100
11	M6A	X	.51	.51	0	%100
12	M6A	Z	-.884	-.884	0	%100
13	M7A	X	.51	.51	0	%100
14	M7A	Z	-.884	-.884	0	%100
15	MP4A	X	.323	.323	0	%100
16	MP4A	Z	-.56	-.56	0	%100
17	M23A	X	.51	.51	0	%100
18	M23A	Z	-.884	-.884	0	%100
19	M24	X	.51	.51	0	%100
20	M24	Z	-.884	-.884	0	%100
21	M38	X	.097	.097	0	%100
22	M38	Z	-.168	-.168	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	0	0	0	%100
27	M54	X	.389	.389	0	%100
28	M54	Z	-.673	-.673	0	%100
29	M55	X	.127	.127	0	%100
30	M55	Z	-.219	-.219	0	%100
31	M56	X	.506	.506	0	%100
32	M56	Z	-.877	-.877	0	%100
33	MP3A	X	.323	.323	0	%100
34	MP3A	Z	-.56	-.56	0	%100
35	MP2A	X	.323	.323	0	%100
36	MP2A	Z	-.56	-.56	0	%100
37	MP1A	X	.323	.323	0	%100
38	MP1A	Z	-.56	-.56	0	%100
39	MP4C	X	.323	.323	0	%100
40	MP4C	Z	-.56	-.56	0	%100
41	MP3C	X	.323	.323	0	%100
42	MP3C	Z	-.56	-.56	0	%100
43	MP2C	X	.323	.323	0	%100
44	MP2C	Z	-.56	-.56	0	%100
45	MP1C	X	.323	.323	0	%100
46	MP1C	Z	-.56	-.56	0	%100
47	MP4B	X	.323	.323	0	%100
48	MP4B	Z	-.56	-.56	0	%100
49	MP3B	X	.323	.323	0	%100
50	MP3B	Z	-.56	-.56	0	%100
51	MP2B	X	.323	.323	0	%100
52	MP2B	Z	-.56	-.56	0	%100
53	MP1B	X	.323	.323	0	%100
54	MP1B	Z	-.56	-.56	0	%100
55	M40A	X	.293	.293	0	%100
56	M40A	Z	-.508	-.508	0	%100
57	M47A	X	.293	.293	0	%100
58	M47A	Z	-.508	-.508	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	.368	.368	0	%100
62	M61	Z	-.637	-.637	0	%100
63	M62	X	.368	.368	0	%100
64	M62	Z	-.637	-.637	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	.373	.373	0	%100
68	M64	Z	-.646	-.646	0	%100
69	M65	X	.373	.373	0	%100
70	M65	Z	-.646	-.646	0	%100
71	M66	X	.68	.68	0	%100
72	M66	Z	-1.178	-1.178	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	.505	.505	0	%100
2	M1	Z	-.292	-.292	0	%100
3	M2	X	.658	.658	0	%100
4	M2	Z	-.38	-.38	0	%100
5	M5	X	.751	.751	0	%100
6	M5	Z	-.434	-.434	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.751	.751	0	%100
10	M7	Z	-.434	-.434	0	%100
11	M6A	X	.295	.295	0	%100
12	M6A	Z	-.17	-.17	0	%100
13	M7A	X	.295	.295	0	%100
14	M7A	Z	-.17	-.17	0	%100
15	MP4A	X	.56	.56	0	%100
16	MP4A	Z	-.323	-.323	0	%100
17	M23A	X	1.178	1.178	0	%100
18	M23A	Z	-.68	-.68	0	%100
19	M24	X	1.178	1.178	0	%100
20	M24	Z	-.68	-.68	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	.295	.295	0	%100
24	M39A	Z	-.17	-.17	0	%100
25	M40	X	.295	.295	0	%100
26	M40	Z	-.17	-.17	0	%100
27	M54	X	.505	.505	0	%100
28	M54	Z	-.292	-.292	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	.658	.658	0	%100
32	M56	Z	-.38	-.38	0	%100
33	MP3A	X	.56	.56	0	%100
34	MP3A	Z	-.323	-.323	0	%100
35	MP2A	X	.56	.56	0	%100
36	MP2A	Z	-.323	-.323	0	%100
37	MP1A	X	.56	.56	0	%100
38	MP1A	Z	-.323	-.323	0	%100
39	MP4C	X	.56	.56	0	%100
40	MP4C	Z	-.323	-.323	0	%100
41	MP3C	X	.56	.56	0	%100
42	MP3C	Z	-.323	-.323	0	%100
43	MP2C	X	.56	.56	0	%100
44	MP2C	Z	-.323	-.323	0	%100
45	MP1C	X	.56	.56	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	-.323	-.323	0	%100
47	MP4B	X	.56	.56	0	%100
48	MP4B	Z	-.323	-.323	0	%100
49	MP3B	X	.56	.56	0	%100
50	MP3B	Z	-.323	-.323	0	%100
51	MP2B	X	.56	.56	0	%100
52	MP2B	Z	-.323	-.323	0	%100
53	MP1B	X	.56	.56	0	%100
54	MP1B	Z	-.323	-.323	0	%100
55	M40A	X	.169	.169	0	%100
56	M40A	Z	-.098	-.098	0	%100
57	M47A	X	.677	.677	0	%100
58	M47A	Z	-.391	-.391	0	%100
59	M54A	X	.169	.169	0	%100
60	M54A	Z	-.098	-.098	0	%100
61	M61	X	.212	.212	0	%100
62	M61	Z	-.123	-.123	0	%100
63	M62	X	.85	.85	0	%100
64	M62	Z	-.491	-.491	0	%100
65	M63	X	.212	.212	0	%100
66	M63	Z	-.123	-.123	0	%100
67	M64	X	1.001	1.001	0	%100
68	M64	Z	-.578	-.578	0	%100
69	M65	X	.469	.469	0	%100
70	M65	Z	-.271	-.271	0	%100
71	M66	X	1.001	1.001	0	%100
72	M66	Z	-.578	-.578	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	.777	.777	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	1.013	1.013	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	1.156	1.156	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.289	.289	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.289	.289	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	MP4A	X	.646	.646	0	%100
16	MP4A	Z	0	0	0	%100
17	M23A	X	1.02	1.02	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	1.02	1.02	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	.194	.194	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	1.02	1.02	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	1.02	1.02	0	%100
26	M40	Z	0	0	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	.194	.194	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	.253	.253	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	.253	.253	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	.646	.646	0	%100
34	MP3A	Z	0	0	0	%100
35	MP2A	X	.646	.646	0	%100
36	MP2A	Z	0	0	0	%100
37	MP1A	X	.646	.646	0	%100
38	MP1A	Z	0	0	0	%100
39	MP4C	X	.646	.646	0	%100
40	MP4C	Z	0	0	0	%100
41	MP3C	X	.646	.646	0	%100
42	MP3C	Z	0	0	0	%100
43	MP2C	X	.646	.646	0	%100
44	MP2C	Z	0	0	0	%100
45	MP1C	X	.646	.646	0	%100
46	MP1C	Z	0	0	0	%100
47	MP4B	X	.646	.646	0	%100
48	MP4B	Z	0	0	0	%100
49	MP3B	X	.646	.646	0	%100
50	MP3B	Z	0	0	0	%100
51	MP2B	X	.646	.646	0	%100
52	MP2B	Z	0	0	0	%100
53	MP1B	X	.646	.646	0	%100
54	MP1B	Z	0	0	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	0	0	0	%100
57	M47A	X	.587	.587	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	.587	.587	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	.736	.736	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	.736	.736	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	1.36	1.36	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	.746	.746	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	.746	.746	0	%100
72	M66	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	.505	.505	0	%100
2	M1	Z	.292	.292	0	%100
3	M2	X	.658	.658	0	%100
4	M2	Z	.38	.38	0	%100
5	M5	X	.751	.751	0	%100
6	M5	Z	.434	.434	0	%100
7	M6	X	.751	.751	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	.434	.434	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	.295	.295	0	%100
12	M6A	Z	.17	.17	0	%100
13	M7A	X	.295	.295	0	%100
14	M7A	Z	.17	.17	0	%100
15	MP4A	X	.56	.56	0	%100
16	MP4A	Z	.323	.323	0	%100
17	M23A	X	.295	.295	0	%100
18	M23A	Z	.17	.17	0	%100
19	M24	X	.295	.295	0	%100
20	M24	Z	.17	.17	0	%100
21	M38	X	.505	.505	0	%100
22	M38	Z	.292	.292	0	%100
23	M39A	X	1.178	1.178	0	%100
24	M39A	Z	.68	.68	0	%100
25	M40	X	1.178	1.178	0	%100
26	M40	Z	.68	.68	0	%100
27	M54	X	0	0	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	.658	.658	0	%100
30	M55	Z	.38	.38	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	.56	.56	0	%100
34	MP3A	Z	.323	.323	0	%100
35	MP2A	X	.56	.56	0	%100
36	MP2A	Z	.323	.323	0	%100
37	MP1A	X	.56	.56	0	%100
38	MP1A	Z	.323	.323	0	%100
39	MP4C	X	.56	.56	0	%100
40	MP4C	Z	.323	.323	0	%100
41	MP3C	X	.56	.56	0	%100
42	MP3C	Z	.323	.323	0	%100
43	MP2C	X	.56	.56	0	%100
44	MP2C	Z	.323	.323	0	%100
45	MP1C	X	.56	.56	0	%100
46	MP1C	Z	.323	.323	0	%100
47	MP4B	X	.56	.56	0	%100
48	MP4B	Z	.323	.323	0	%100
49	MP3B	X	.56	.56	0	%100
50	MP3B	Z	.323	.323	0	%100
51	MP2B	X	.56	.56	0	%100
52	MP2B	Z	.323	.323	0	%100
53	MP1B	X	.56	.56	0	%100
54	MP1B	Z	.323	.323	0	%100
55	M40A	X	.169	.169	0	%100
56	M40A	Z	.098	.098	0	%100
57	M47A	X	.169	.169	0	%100
58	M47A	Z	.098	.098	0	%100
59	M54A	X	.677	.677	0	%100
60	M54A	Z	.391	.391	0	%100
61	M61	X	.212	.212	0	%100
62	M61	Z	.123	.123	0	%100
63	M62	X	.212	.212	0	%100
64	M62	Z	.123	.123	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	.85	.85	0	%100
66	M63	Z	.491	.491	0	%100
67	M64	X	1.001	1.001	0	%100
68	M64	Z	.578	.578	0	%100
69	M65	X	1.001	1.001	0	%100
70	M65	Z	.578	.578	0	%100
71	M66	X	.469	.469	0	%100
72	M66	Z	.271	.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.097	.097	0	%100
2	M1	Z	.168	.168	0	%100
3	M2	X	.127	.127	0	%100
4	M2	Z	.219	.219	0	%100
5	M5	X	.145	.145	0	%100
6	M5	Z	.25	.25	0	%100
7	M6	X	.578	.578	0	%100
8	M6	Z	1.001	1.001	0	%100
9	M7	X	.145	.145	0	%100
10	M7	Z	.25	.25	0	%100
11	M6A	X	.51	.51	0	%100
12	M6A	Z	.884	.884	0	%100
13	M7A	X	.51	.51	0	%100
14	M7A	Z	.884	.884	0	%100
15	MP4A	X	.323	.323	0	%100
16	MP4A	Z	.56	.56	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	.389	.389	0	%100
22	M38	Z	.673	.673	0	%100
23	M39A	X	.51	.51	0	%100
24	M39A	Z	.884	.884	0	%100
25	M40	X	.51	.51	0	%100
26	M40	Z	.884	.884	0	%100
27	M54	X	.097	.097	0	%100
28	M54	Z	.168	.168	0	%100
29	M55	X	.506	.506	0	%100
30	M55	Z	.877	.877	0	%100
31	M56	X	.127	.127	0	%100
32	M56	Z	.219	.219	0	%100
33	MP3A	X	.323	.323	0	%100
34	MP3A	Z	.56	.56	0	%100
35	MP2A	X	.323	.323	0	%100
36	MP2A	Z	.56	.56	0	%100
37	MP1A	X	.323	.323	0	%100
38	MP1A	Z	.56	.56	0	%100
39	MP4C	X	.323	.323	0	%100
40	MP4C	Z	.56	.56	0	%100
41	MP3C	X	.323	.323	0	%100
42	MP3C	Z	.56	.56	0	%100
43	MP2C	X	.323	.323	0	%100
44	MP2C	Z	.56	.56	0	%100
45	MP1C	X	.323	.323	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	.56	.56	0	%100
47	MP4B	X	.323	.323	0	%100
48	MP4B	Z	.56	.56	0	%100
49	MP3B	X	.323	.323	0	%100
50	MP3B	Z	.56	.56	0	%100
51	MP2B	X	.323	.323	0	%100
52	MP2B	Z	.56	.56	0	%100
53	MP1B	X	.323	.323	0	%100
54	MP1B	Z	.56	.56	0	%100
55	M40A	X	.293	.293	0	%100
56	M40A	Z	.508	.508	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	.293	.293	0	%100
60	M54A	Z	.508	.508	0	%100
61	M61	X	.368	.368	0	%100
62	M61	Z	.637	.637	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	.368	.368	0	%100
66	M63	Z	.637	.637	0	%100
67	M64	X	.373	.373	0	%100
68	M64	Z	.646	.646	0	%100
69	M65	X	.68	.68	0	%100
70	M65	Z	1.178	1.178	0	%100
71	M66	X	.373	.373	0	%100
72	M66	Z	.646	.646	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.867	.867	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.867	.867	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	1.36	1.36	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	1.36	1.36	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	.646	.646	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	.34	.34	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	.34	.34	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	.583	.583	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	.34	.34	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	.34	.34	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	0	0	0	%100
28	M54	Z	.583	.583	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	.76	.76	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	.76	.76	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	.646	.646	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	.646	.646	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	.646	.646	0	%100
39	MP4C	X	0	0	0	%100
40	MP4C	Z	.646	.646	0	%100
41	MP3C	X	0	0	0	%100
42	MP3C	Z	.646	.646	0	%100
43	MP2C	X	0	0	0	%100
44	MP2C	Z	.646	.646	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	.646	.646	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	.646	.646	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	.646	.646	0	%100
51	MP2B	X	0	0	0	%100
52	MP2B	Z	.646	.646	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	.646	.646	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	.782	.782	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	.196	.196	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	.196	.196	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	.981	.981	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	.245	.245	0	%100
65	M63	X	0	0	0	%100
66	M63	Z	.245	.245	0	%100
67	M64	X	0	0	0	%100
68	M64	Z	.541	.541	0	%100
69	M65	X	0	0	0	%100
70	M65	Z	1.156	1.156	0	%100
71	M66	X	0	0	0	%100
72	M66	Z	1.156	1.156	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	-.097	-.097	0	%100
2	M1	Z	.168	.168	0	%100
3	M2	X	-.127	-.127	0	%100
4	M2	Z	.219	.219	0	%100
5	M5	X	-.145	-.145	0	%100
6	M5	Z	.25	.25	0	%100
7	M6	X	-.145	-.145	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
8	M6	Z	.25	.25	0	%100
9	M7	X	-.578	-.578	0	%100
10	M7	Z	1.001	1.001	0	%100
11	M6A	X	-.51	-.51	0	%100
12	M6A	Z	.884	.884	0	%100
13	M7A	X	-.51	-.51	0	%100
14	M7A	Z	.884	.884	0	%100
15	MP4A	X	-.323	-.323	0	%100
16	MP4A	Z	.56	.56	0	%100
17	M23A	X	-.51	-.51	0	%100
18	M23A	Z	.884	.884	0	%100
19	M24	X	-.51	-.51	0	%100
20	M24	Z	.884	.884	0	%100
21	M38	X	-.097	-.097	0	%100
22	M38	Z	.168	.168	0	%100
23	M39A	X	0	0	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	0	0	0	%100
26	M40	Z	0	0	0	%100
27	M54	X	-.389	-.389	0	%100
28	M54	Z	.673	.673	0	%100
29	M55	X	-.127	-.127	0	%100
30	M55	Z	.219	.219	0	%100
31	M56	X	-.506	-.506	0	%100
32	M56	Z	.877	.877	0	%100
33	MP3A	X	-.323	-.323	0	%100
34	MP3A	Z	.56	.56	0	%100
35	MP2A	X	-.323	-.323	0	%100
36	MP2A	Z	.56	.56	0	%100
37	MP1A	X	-.323	-.323	0	%100
38	MP1A	Z	.56	.56	0	%100
39	MP4C	X	-.323	-.323	0	%100
40	MP4C	Z	.56	.56	0	%100
41	MP3C	X	-.323	-.323	0	%100
42	MP3C	Z	.56	.56	0	%100
43	MP2C	X	-.323	-.323	0	%100
44	MP2C	Z	.56	.56	0	%100
45	MP1C	X	-.323	-.323	0	%100
46	MP1C	Z	.56	.56	0	%100
47	MP4B	X	-.323	-.323	0	%100
48	MP4B	Z	.56	.56	0	%100
49	MP3B	X	-.323	-.323	0	%100
50	MP3B	Z	.56	.56	0	%100
51	MP2B	X	-.323	-.323	0	%100
52	MP2B	Z	.56	.56	0	%100
53	MP1B	X	-.323	-.323	0	%100
54	MP1B	Z	.56	.56	0	%100
55	M40A	X	-.293	-.293	0	%100
56	M40A	Z	.508	.508	0	%100
57	M47A	X	-.293	-.293	0	%100
58	M47A	Z	.508	.508	0	%100
59	M54A	X	0	0	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	-.368	-.368	0	%100
62	M61	Z	.637	.637	0	%100
63	M62	X	-.368	-.368	0	%100
64	M62	Z	.637	.637	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	0	0	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	-.373	-.373	0	%100
68	M64	Z	.646	.646	0	%100
69	M65	X	-.373	-.373	0	%100
70	M65	Z	.646	.646	0	%100
71	M66	X	-.68	-.68	0	%100
72	M66	Z	1.178	1.178	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	-.505	-.505	0	%100
2	M1	Z	.292	.292	0	%100
3	M2	X	-.658	-.658	0	%100
4	M2	Z	.38	.38	0	%100
5	M5	X	-.751	-.751	0	%100
6	M5	Z	.434	.434	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.751	-.751	0	%100
10	M7	Z	.434	.434	0	%100
11	M6A	X	-.295	-.295	0	%100
12	M6A	Z	.17	.17	0	%100
13	M7A	X	-.295	-.295	0	%100
14	M7A	Z	.17	.17	0	%100
15	MP4A	X	-.56	-.56	0	%100
16	MP4A	Z	.323	.323	0	%100
17	M23A	X	-1.178	-1.178	0	%100
18	M23A	Z	.68	.68	0	%100
19	M24	X	-1.178	-1.178	0	%100
20	M24	Z	.68	.68	0	%100
21	M38	X	0	0	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	-.295	-.295	0	%100
24	M39A	Z	.17	.17	0	%100
25	M40	X	-.295	-.295	0	%100
26	M40	Z	.17	.17	0	%100
27	M54	X	-.505	-.505	0	%100
28	M54	Z	.292	.292	0	%100
29	M55	X	0	0	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	-.658	-.658	0	%100
32	M56	Z	.38	.38	0	%100
33	MP3A	X	-.56	-.56	0	%100
34	MP3A	Z	.323	.323	0	%100
35	MP2A	X	-.56	-.56	0	%100
36	MP2A	Z	.323	.323	0	%100
37	MP1A	X	-.56	-.56	0	%100
38	MP1A	Z	.323	.323	0	%100
39	MP4C	X	-.56	-.56	0	%100
40	MP4C	Z	.323	.323	0	%100
41	MP3C	X	-.56	-.56	0	%100
42	MP3C	Z	.323	.323	0	%100
43	MP2C	X	-.56	-.56	0	%100
44	MP2C	Z	.323	.323	0	%100
45	MP1C	X	-.56	-.56	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
46	MP1C	Z	.323	.323	0	%100
47	MP4B	X	-.56	-.56	0	%100
48	MP4B	Z	.323	.323	0	%100
49	MP3B	X	-.56	-.56	0	%100
50	MP3B	Z	.323	.323	0	%100
51	MP2B	X	-.56	-.56	0	%100
52	MP2B	Z	.323	.323	0	%100
53	MP1B	X	-.56	-.56	0	%100
54	MP1B	Z	.323	.323	0	%100
55	M40A	X	-.169	-.169	0	%100
56	M40A	Z	.098	.098	0	%100
57	M47A	X	-.677	-.677	0	%100
58	M47A	Z	.391	.391	0	%100
59	M54A	X	-.169	-.169	0	%100
60	M54A	Z	.098	.098	0	%100
61	M61	X	-.212	-.212	0	%100
62	M61	Z	.123	.123	0	%100
63	M62	X	-.85	-.85	0	%100
64	M62	Z	.491	.491	0	%100
65	M63	X	-.212	-.212	0	%100
66	M63	Z	.123	.123	0	%100
67	M64	X	-1.001	-1.001	0	%100
68	M64	Z	.578	.578	0	%100
69	M65	X	-.469	-.469	0	%100
70	M65	Z	.271	.271	0	%100
71	M66	X	-1.001	-1.001	0	%100
72	M66	Z	.578	.578	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	-.777	-.777	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-1.013	-1.013	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-1.156	-1.156	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.289	-.289	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.289	-.289	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	MP4A	X	-.646	-.646	0	%100
16	MP4A	Z	0	0	0	%100
17	M23A	X	-1.02	-1.02	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	-1.02	-1.02	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	-.194	-.194	0	%100
22	M38	Z	0	0	0	%100
23	M39A	X	-1.02	-1.02	0	%100
24	M39A	Z	0	0	0	%100
25	M40	X	-1.02	-1.02	0	%100
26	M40	Z	0	0	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
27	M54	X	- .194	- .194	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	- .253	- .253	0	%100
30	M55	Z	0	0	0	%100
31	M56	X	- .253	- .253	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	- .646	- .646	0	%100
34	MP3A	Z	0	0	0	%100
35	MP2A	X	- .646	- .646	0	%100
36	MP2A	Z	0	0	0	%100
37	MP1A	X	- .646	- .646	0	%100
38	MP1A	Z	0	0	0	%100
39	MP4C	X	- .646	- .646	0	%100
40	MP4C	Z	0	0	0	%100
41	MP3C	X	- .646	- .646	0	%100
42	MP3C	Z	0	0	0	%100
43	MP2C	X	- .646	- .646	0	%100
44	MP2C	Z	0	0	0	%100
45	MP1C	X	- .646	- .646	0	%100
46	MP1C	Z	0	0	0	%100
47	MP4B	X	- .646	- .646	0	%100
48	MP4B	Z	0	0	0	%100
49	MP3B	X	- .646	- .646	0	%100
50	MP3B	Z	0	0	0	%100
51	MP2B	X	- .646	- .646	0	%100
52	MP2B	Z	0	0	0	%100
53	MP1B	X	- .646	- .646	0	%100
54	MP1B	Z	0	0	0	%100
55	M40A	X	0	0	0	%100
56	M40A	Z	0	0	0	%100
57	M47A	X	- .587	- .587	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	- .587	- .587	0	%100
60	M54A	Z	0	0	0	%100
61	M61	X	0	0	0	%100
62	M61	Z	0	0	0	%100
63	M62	X	- .736	- .736	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	- .736	- .736	0	%100
66	M63	Z	0	0	0	%100
67	M64	X	- 1.36	- 1.36	0	%100
68	M64	Z	0	0	0	%100
69	M65	X	- .746	- .746	0	%100
70	M65	Z	0	0	0	%100
71	M66	X	- .746	- .746	0	%100
72	M66	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	- .505	- .505	0	%100
2	M1	Z	- .292	- .292	0	%100
3	M2	X	- .658	- .658	0	%100
4	M2	Z	- .38	- .38	0	%100
5	M5	X	- .751	- .751	0	%100
6	M5	Z	- .434	- .434	0	%100
7	M6	X	- .751	- .751	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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,%]
8	M6	Z	-0.434	-0.434	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-0.295	-0.295	0	%100
12	M6A	Z	-0.17	-0.17	0	%100
13	M7A	X	-0.295	-0.295	0	%100
14	M7A	Z	-0.17	-0.17	0	%100
15	MP4A	X	-0.56	-0.56	0	%100
16	MP4A	Z	-0.323	-0.323	0	%100
17	M23A	X	-0.295	-0.295	0	%100
18	M23A	Z	-0.17	-0.17	0	%100
19	M24	X	-0.295	-0.295	0	%100
20	M24	Z	-0.17	-0.17	0	%100
21	M38	X	-0.505	-0.505	0	%100
22	M38	Z	-0.292	-0.292	0	%100
23	M39A	X	-1.178	-1.178	0	%100
24	M39A	Z	-0.68	-0.68	0	%100
25	M40	X	-1.178	-1.178	0	%100
26	M40	Z	-0.68	-0.68	0	%100
27	M54	X	0	0	0	%100
28	M54	Z	0	0	0	%100
29	M55	X	-0.658	-0.658	0	%100
30	M55	Z	-0.38	-0.38	0	%100
31	M56	X	0	0	0	%100
32	M56	Z	0	0	0	%100
33	MP3A	X	-0.56	-0.56	0	%100
34	MP3A	Z	-0.323	-0.323	0	%100
35	MP2A	X	-0.56	-0.56	0	%100
36	MP2A	Z	-0.323	-0.323	0	%100
37	MP1A	X	-0.56	-0.56	0	%100
38	MP1A	Z	-0.323	-0.323	0	%100
39	MP4C	X	-0.56	-0.56	0	%100
40	MP4C	Z	-0.323	-0.323	0	%100
41	MP3C	X	-0.56	-0.56	0	%100
42	MP3C	Z	-0.323	-0.323	0	%100
43	MP2C	X	-0.56	-0.56	0	%100
44	MP2C	Z	-0.323	-0.323	0	%100
45	MP1C	X	-0.56	-0.56	0	%100
46	MP1C	Z	-0.323	-0.323	0	%100
47	MP4B	X	-0.56	-0.56	0	%100
48	MP4B	Z	-0.323	-0.323	0	%100
49	MP3B	X	-0.56	-0.56	0	%100
50	MP3B	Z	-0.323	-0.323	0	%100
51	MP2B	X	-0.56	-0.56	0	%100
52	MP2B	Z	-0.323	-0.323	0	%100
53	MP1B	X	-0.56	-0.56	0	%100
54	MP1B	Z	-0.323	-0.323	0	%100
55	M40A	X	-0.169	-0.169	0	%100
56	M40A	Z	-0.098	-0.098	0	%100
57	M47A	X	-0.169	-0.169	0	%100
58	M47A	Z	-0.098	-0.098	0	%100
59	M54A	X	-0.677	-0.677	0	%100
60	M54A	Z	-0.391	-0.391	0	%100
61	M61	X	-0.212	-0.212	0	%100
62	M61	Z	-0.123	-0.123	0	%100
63	M62	X	-0.212	-0.212	0	%100
64	M62	Z	-0.123	-0.123	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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, %]
65	M63	X	-0.85	-0.85	0	%100
66	M63	Z	-0.491	-0.491	0	%100
67	M64	X	-1.001	-1.001	0	%100
68	M64	Z	-0.578	-0.578	0	%100
69	M65	X	-1.001	-1.001	0	%100
70	M65	Z	-0.578	-0.578	0	%100
71	M66	X	-0.469	-0.469	0	%100
72	M66	Z	-0.271	-0.271	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	-0.097	-0.097	0	%100
2	M1	Z	-0.168	-0.168	0	%100
3	M2	X	-0.127	-0.127	0	%100
4	M2	Z	-0.219	-0.219	0	%100
5	M5	X	-0.145	-0.145	0	%100
6	M5	Z	-0.25	-0.25	0	%100
7	M6	X	-0.578	-0.578	0	%100
8	M6	Z	-1.001	-1.001	0	%100
9	M7	X	-0.145	-0.145	0	%100
10	M7	Z	-0.25	-0.25	0	%100
11	M6A	X	-0.51	-0.51	0	%100
12	M6A	Z	-0.884	-0.884	0	%100
13	M7A	X	-0.51	-0.51	0	%100
14	M7A	Z	-0.884	-0.884	0	%100
15	MP4A	X	-0.323	-0.323	0	%100
16	MP4A	Z	-0.56	-0.56	0	%100
17	M23A	X	0	0	0	%100
18	M23A	Z	0	0	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	0	0	0	%100
21	M38	X	-0.389	-0.389	0	%100
22	M38	Z	-0.673	-0.673	0	%100
23	M39A	X	-0.51	-0.51	0	%100
24	M39A	Z	-0.884	-0.884	0	%100
25	M40	X	-0.51	-0.51	0	%100
26	M40	Z	-0.884	-0.884	0	%100
27	M54	X	-0.097	-0.097	0	%100
28	M54	Z	-0.168	-0.168	0	%100
29	M55	X	-0.506	-0.506	0	%100
30	M55	Z	-0.877	-0.877	0	%100
31	M56	X	-0.127	-0.127	0	%100
32	M56	Z	-0.219	-0.219	0	%100
33	MP3A	X	-0.323	-0.323	0	%100
34	MP3A	Z	-0.56	-0.56	0	%100
35	MP2A	X	-0.323	-0.323	0	%100
36	MP2A	Z	-0.56	-0.56	0	%100
37	MP1A	X	-0.323	-0.323	0	%100
38	MP1A	Z	-0.56	-0.56	0	%100
39	MP4C	X	-0.323	-0.323	0	%100
40	MP4C	Z	-0.56	-0.56	0	%100
41	MP3C	X	-0.323	-0.323	0	%100
42	MP3C	Z	-0.56	-0.56	0	%100
43	MP2C	X	-0.323	-0.323	0	%100
44	MP2C	Z	-0.56	-0.56	0	%100
45	MP1C	X	-0.323	-0.323	0	%100



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 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, %]
46	MP1C	Z	-56	-56	0	%100
47	MP4B	X	-.323	-.323	0	%100
48	MP4B	Z	-.56	-.56	0	%100
49	MP3B	X	-.323	-.323	0	%100
50	MP3B	Z	-.56	-.56	0	%100
51	MP2B	X	-.323	-.323	0	%100
52	MP2B	Z	-.56	-.56	0	%100
53	MP1B	X	-.323	-.323	0	%100
54	MP1B	Z	-.56	-.56	0	%100
55	M40A	X	-.293	-.293	0	%100
56	M40A	Z	-.508	-.508	0	%100
57	M47A	X	0	0	0	%100
58	M47A	Z	0	0	0	%100
59	M54A	X	-.293	-.293	0	%100
60	M54A	Z	-.508	-.508	0	%100
61	M61	X	-.368	-.368	0	%100
62	M61	Z	-.637	-.637	0	%100
63	M62	X	0	0	0	%100
64	M62	Z	0	0	0	%100
65	M63	X	-.368	-.368	0	%100
66	M63	Z	-.637	-.637	0	%100
67	M64	X	-.373	-.373	0	%100
68	M64	Z	-.646	-.646	0	%100
69	M65	X	-.68	-.68	0	%100
70	M65	Z	-1.178	-1.178	0	%100
71	M66	X	-.373	-.373	0	%100
72	M66	Z	-.646	-.646	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M2	Y	-9.499	-9.499	0	2
2	M6	Y	-1.126	-5.212	0	2
3	M6	Y	-5.212	-9.298	2	4
4	M7	Y	-1.126	-5.212	0	2
5	M7	Y	-5.212	-9.298	2	4
6	M6A	Y	-3.98	-3.98	.037	7.397
7	M7A	Y	-1.192	-2.79	0	2.394
8	M7A	Y	-2.79	-3.82	2.394	4.787
9	M7A	Y	-3.82	-4.052	4.787	7.181
10	M7A	Y	-4.052	-3.82	7.181	9.574
11	M7A	Y	-3.82	-2.79	9.574	11.968
12	M7A	Y	-2.79	-1.192	11.968	14.362
13	M5	Y	-1.126	-5.212	0	2
14	M5	Y	-5.212	-9.298	2	4
15	M23A	Y	-3.98	-3.98	.037	7.397
16	M24	Y	-1.192	-2.79	0	2.394
17	M24	Y	-2.79	-3.82	2.394	4.787
18	M24	Y	-3.82	-4.052	4.787	7.181
19	M24	Y	-4.052	-3.82	7.181	9.574
20	M24	Y	-3.82	-2.79	9.574	11.968
21	M24	Y	-2.79	-1.192	11.968	14.362
22	M55	Y	-9.499	-9.499	0	2
23	M39A	Y	-3.98	-3.98	.037	7.397
24	M40	Y	-1.192	-2.79	0	2.394
25	M40	Y	-2.79	-3.82	2.394	4.787
26	M40	Y	-3.82	-4.052	4.787	7.181



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
27	M40	Y	-4.052	-3.82	7.181	9.574
28	M40	Y	-3.82	-2.79	9.574	11.968
29	M40	Y	-2.79	-1.192	11.968	14.362
30	M56	Y	-9.499	-9.499	3.364e-14	2

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M2	Y	-23.536	-23.536	0	2
2	M6	Y	-2.789	-12.913	0	2
3	M6	Y	-12.913	-23.036	2	4
4	M7	Y	-2.789	-12.913	0	2
5	M7	Y	-12.913	-23.036	2	4
6	M6A	Y	-9.861	-9.861	.037	7.397
7	M7A	Y	-2.954	-6.912	0	2.394
8	M7A	Y	-6.912	-9.466	2.394	4.787
9	M7A	Y	-9.466	-10.039	4.787	7.181
10	M7A	Y	-10.039	-9.466	7.181	9.574
11	M7A	Y	-9.466	-6.912	9.574	11.968
12	M7A	Y	-6.912	-2.954	11.968	14.362
13	M5	Y	-2.789	-12.913	0	2
14	M5	Y	-12.913	-23.036	2	4
15	M23A	Y	-9.861	-9.861	.037	7.397
16	M24	Y	-2.954	-6.912	0	2.394
17	M24	Y	-6.912	-9.466	2.394	4.787
18	M24	Y	-9.466	-10.039	4.787	7.181
19	M24	Y	-10.039	-9.466	7.181	9.574
20	M24	Y	-9.466	-6.912	9.574	11.968
21	M24	Y	-6.912	-2.954	11.968	14.362
22	M55	Y	-23.536	-23.536	0	2
23	M39A	Y	-9.861	-9.861	.037	7.397
24	M40	Y	-2.954	-6.912	0	2.394
25	M40	Y	-6.912	-9.466	2.394	4.787
26	M40	Y	-9.466	-10.039	4.787	7.181
27	M40	Y	-10.039	-9.466	7.181	9.574
28	M40	Y	-9.466	-6.912	9.574	11.968
29	M40	Y	-6.912	-2.954	11.968	14.362
30	M56	Y	-23.536	-23.536	3.364e-14	2

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M2	Y	-.411	-.411	0	2
2	M6	Y	-.049	-.225	0	2
3	M6	Y	-.225	-.402	2	4
4	M7	Y	-.049	-.225	0	2
5	M7	Y	-.225	-.402	2	4
6	M6A	Y	-.172	-.172	.037	7.397
7	M7A	Y	-.052	-.121	0	2.394
8	M7A	Y	-.121	-.165	2.394	4.787
9	M7A	Y	-.165	-.175	4.787	7.181
10	M7A	Y	-.175	-.165	7.181	9.574
11	M7A	Y	-.165	-.121	9.574	11.968
12	M7A	Y	-.121	-.052	11.968	14.362
13	M5	Y	-.049	-.225	0	2
14	M5	Y	-.225	-.402	2	4
15	M23A	Y	-.172	-.172	.037	7.397
16	M24	Y	-.052	-.121	0	2.394



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
17	M24	Y	-1.121	-1.165	2.394	4.787
18	M24	Y	-1.165	-1.175	4.787	7.181
19	M24	Y	-1.175	-1.165	7.181	9.574
20	M24	Y	-1.165	-1.121	9.574	11.968
21	M24	Y	-1.121	-0.052	11.968	14.362
22	M55	Y	-0.411	-0.411	0	2
23	M39A	Y	-0.172	-0.172	.037	7.397
24	M40	Y	-0.052	-0.121	0	2.394
25	M40	Y	-0.121	-0.165	2.394	4.787
26	M40	Y	-0.165	-0.175	4.787	7.181
27	M40	Y	-0.175	-0.165	7.181	9.574
28	M40	Y	-0.165	-0.121	9.574	11.968
29	M40	Y	-0.121	-0.052	11.968	14.362
30	M56	Y	-0.411	-0.411	3.364e-14	2

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M2	Z	-1.028	-1.028	0	2
2	M6	Z	-0.122	-0.564	0	2
3	M6	Z	-0.564	-1.007	2	4
4	M7	Z	-0.122	-0.564	0	2
5	M7	Z	-0.564	-1.007	2	4
6	M6A	Z	-0.431	-0.431	.037	7.397
7	M7A	Z	-0.129	-0.302	0	2.394
8	M7A	Z	-0.302	-0.414	2.394	4.787
9	M7A	Z	-0.414	-0.439	4.787	7.181
10	M7A	Z	-0.439	-0.414	7.181	9.574
11	M7A	Z	-0.414	-0.302	9.574	11.968
12	M7A	Z	-0.302	-0.129	11.968	14.362
13	M5	Z	-0.122	-0.564	0	2
14	M5	Z	-0.564	-1.007	2	4
15	M23A	Z	-0.431	-0.431	.037	7.397
16	M24	Z	-0.129	-0.302	0	2.394
17	M24	Z	-0.302	-0.414	2.394	4.787
18	M24	Z	-0.414	-0.439	4.787	7.181
19	M24	Z	-0.439	-0.414	7.181	9.574
20	M24	Z	-0.414	-0.302	9.574	11.968
21	M24	Z	-0.302	-0.129	11.968	14.362
22	M55	Z	-1.028	-1.028	0	2
23	M39A	Z	-0.431	-0.431	.037	7.397
24	M40	Z	-0.129	-0.302	0	2.394
25	M40	Z	-0.302	-0.414	2.394	4.787
26	M40	Z	-0.414	-0.439	4.787	7.181
27	M40	Z	-0.439	-0.414	7.181	9.574
28	M40	Z	-0.414	-0.302	9.574	11.968
29	M40	Z	-0.302	-0.129	11.968	14.362
30	M56	Z	-1.028	-1.028	3.364e-14	2

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M2	X	1.028	1.028	0	2
2	M6	X	.122	.564	0	2
3	M6	X	.564	1.007	2	4
4	M7	X	.122	.564	0	2
5	M7	X	.564	1.007	2	4
6	M6A	X	.431	.431	.037	7.397

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
7	M7A	X	.129	.302	0	2.394
8	M7A	X	.302	.414	2.394	4.787
9	M7A	X	.414	.439	4.787	7.181
10	M7A	X	.439	.414	7.181	9.574
11	M7A	X	.414	.302	9.574	11.968
12	M7A	X	.302	.129	11.968	14.362
13	M5	X	.122	.564	0	2
14	M5	X	.564	1.007	2	4
15	M23A	X	.431	.431	.037	7.397
16	M24	X	.129	.302	0	2.394
17	M24	X	.302	.414	2.394	4.787
18	M24	X	.414	.439	4.787	7.181
19	M24	X	.439	.414	7.181	9.574
20	M24	X	.414	.302	9.574	11.968
21	M24	X	.302	.129	11.968	14.362
22	M55	X	1.028	1.028	0	2
23	M39A	X	.431	.431	.037	7.397
24	M40	X	.129	.302	0	2.394
25	M40	X	.302	.414	2.394	4.787
26	M40	X	.414	.439	4.787	7.181
27	M40	X	.439	.414	7.181	9.574
28	M40	X	.414	.302	9.574	11.968
29	M40	X	.302	.129	11.968	14.362
30	M56	X	1.028	1.028	3.364e-14	2

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.005
2	N18	N17	N10	N14	Y	Two Way	-.005
3	N14	N10	N15	N16	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.013
2	N18	N17	N10	N14	Y	Two Way	-.013
3	N14	N10	N15	N16	Y	Two Way	-.013

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.000225
2	N18	N17	N10	N14	Y	Two Way	-.000225
3	N14	N10	N15	N16	Y	Two Way	-.000225

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Z	Two Way	-.000563
2	N18	N17	N10	N14	Z	Two Way	-.000563
3	N14	N10	N15	N16	Z	Two Way	-.000563

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	X	Two Way	.000563
2	N18	N17	N10	N14	X	Two Way	.000563



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
3	N14	N10	N15	N16	X	Two Way	.000563

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N2	max 4636.054	10	1183.418	24	616.259	1	-.763	68	3.463	11	.417	46
2		min -4521.357	4	209.663	6	-566.688	7	-3.359	23	-3.379	5	-.168	4
3	N77	max 2420.934	11	1150.335	20	3977.476	12	2.003	18	3.394	5	2.613	20
4		min -2345.068	5	207.83	2	-3930.315	6	.248	12	-3.471	11	.608	65
5	N109	max 2477.92	9	1193.043	16	4124.358	2	1.421	19	3.677	1	-.622	9
6		min -2515.867	3	206.754	10	-4153.401	8	.315	64	-3.7	7	-3.158	15
7	N129	max 65.819	10	2518.943	13	937.024	7	0	75	0	8	0	14
8		min -66.025	4	-499.73	7	-4450.676	13	0	1	0	14	0	8
9	N130	max 809.593	3	2550.348	21	2254.179	21	0	10	0	28	0	28
10		min -3904.287	21	-498.499	3	-467.293	3	0	28	0	10	0	10
11	N131	max 3493.998	17	2292.06	17	2017.276	17	0	12	0	12	0	12
12		min -896.254	11	-553.342	11	-517.45	11	0	42	0	42	0	42
13	Totals:	max 5232.114	10	9668.671	13	5184.787	1						
14		min -5232.117	4	2337.659	71	-5184.79	7						

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

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	M7A	L3X3X4	.872	0	9	.173	7.181	y	1	3748.406	46656	1.688	3.078	2.... H2-1
2	M24	L3X3X4	.866	0	5	.174	7.181	y	9	3748.406	46656	1.688	2.983	2.... H2-1
3	M40	L3X3X4	.862	0	1	.181	7.181	y	5	3748.406	46656	1.688	2.992	2.... H2-1
4	M62	L3X3X4	.689	0	11	.067	.151	y	12	42442.942	46656	1.688	3.756	2.... H2-1
5	MP2B	PIPE 2.0	.675	6.25	2	.284	6.25		9	14916.096	32130	1.872	1.872	1.... H1-1b
6	M61	L3X3X4	.653	0	3	.067	.043	y	4	42442.942	46656	1.688	3.756	2.... H2-1
7	MP2A	PIPE 2.0	.650	6.25	10	.283	6.25		5	14916.096	32130	1.872	1.872	1.... H1-1b
8	MP2C	PIPE 2.0	.648	6.25	6	.262	6.25		1	14916.096	32130	1.872	1.872	1.... H1-1b
9	M63	L3X3X4	.625	0	7	.056	.797	y	8	42442.942	46656	1.688	3.756	2.... H2-1
10	MP1B	PIPE 2.0	.551	4.25	8	.191	1.25		5	20866.733	32130	1.872	1.872	2.... H1-1b
11	MP1A	PIPE 2.0	.523	4.25	4	.185	1.25		1	20866.733	32130	1.872	1.872	2.... H1-1b
12	MP1C	PIPE 2.0	.513	4.25	12	.178	1.25		9	20866.733	32130	1.872	1.872	2.... H1-1b
13	MP3B	PIPE 2.0	.491	1.25	2	.186	1.25		5	20866.733	32130	1.872	1.872	2.... H1-1b
14	MP3C	PIPE 2.0	.480	1.25	6	.169	4.25		4	20866.733	32130	1.872	1.872	2.... H1-1b
15	MP3A	PIPE 2.0	.468	1.25	10	.179	4.25		12	20866.733	32130	1.872	1.872	2.... H1-1b
16	M6	LL3x3x4x0	.424	0	21	.070	1.708	y	21	76288.155	93312	6.48	4.357	1.... H1-1b
17	M5	LL3x3x4x0	.420	0	13	.069	1.708	y	13	76288.155	93312	6.48	4.357	2.... H1-1b
18	M54A	PIPE 2.5	.390	2.505	2	.194	11.413		10	12741.753	50715	3.596	3.596	1.... H1-1b
19	M40A	PIPE 2.5	.387	2.505	10	.196	11.274		6	12741.753	50715	3.596	3.596	1.... H1-1b
20	M47A	PIPE 2.5	.375	2.505	6	.177	11.413		3	12741.753	50715	3.596	3.596	1.... H1-1b
21	M7	LL3x3x4x0	.372	0	17	.063	1.708	y	17	76288.155	93312	6.48	4.357	1.... H1-1b
22	M39A	L3X3X4	.344	7.433	7	.018	0	z	21	13991.953	46656	1.688	3.41	1.... H2-1
23	M23A	L3X3X4	.344	7.433	11	.017	0	z	13	13991.953	46656	1.688	3.54	2.... H2-1
24	M6A	L3X3X4	.343	0	11	.018	7.433	z	21	13991.953	46656	1.688	3.382	1.... H2-1
25	MP4B	PIPE 2.0	.336	4.25	3	.170	1.25		4	20866.733	32130	1.872	1.872	2.... H1-1b
26	MP4A	PIPE 2.0	.326	4.25	11	.168	1.25		12	20866.733	32130	1.872	1.872	2.... H1-1b
27	M54	HSS4X4X4	.311	0	3	.154	0	z	2	138875.2...	139518	16.181	16.181	1.... H1-1b
28	MP4C	PIPE 2.0	.307	4.25	6	.150	1.25		8	20866.733	32130	1.872	1.872	2.... H1-1b
29	M1	HSS4X4X4	.299	0	11	.150	0	z	10	138875.2...	139518	16.181	16.181	1.... H1-1b
30	M38	HSS4X4X4	.287	0	5	.147	0	z	6	138875.2...	139518	16.181	16.181	1.... H1-1b
31	M2	HSS4.5X4.5X3	.164	0	22	.067	0	y	21	119784.8...	121302	16.25	16.25	1.... H1-1b
32	M56	HSS4.5X4.5X3	.158	0	14	.070	0	y	13	119784.8...	121302	16.25	16.25	1.... H1-1b
33	M55	HSS4.5X4.5X3	.157	0	24	.072	0	y	17	119784.8...	121302	16.25	16.25	1.... H1-1b



Company :
 Designer :
 Job Number : Project No. 10160182
 Model Name : 468152-VZW_MT_LO_H

Aug 24, 2022
 1:22 PM
 Checked By: _____

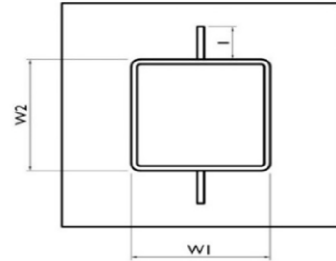
Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

Member	Shape	Code C...	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
34	M65	LL3x3x3x6	.113	6.254 21	.005	0	y	22 46027.034	70632	6.362	3.751	1 H1-1b*
35	M64	LL3x3x3x6	.111	6.254 13	.005	0	y	14 46027.034	70632	6.362	3.751	1 H1-1b*
36	M66	LL3x3x3x6	.101	6.254 17	.005	0	y	18 46027.034	70632	6.362	3.751	1 H1-1b*

Tower Connection Weld Checks

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

Yes
Rectangle
(1) Stiffener on top/bottom
No
4
4
4
4
32.00
67.56
21.33
362.67
6
6
1.77
5.57
31.7%



BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1		VZWSMART-FLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGM-1.	291	291
1		VZWSMART-FLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
3		VZWSMART-P40-2385096	96" LONG, PIPE 2 SCH-40 (2.375" O.D. X 0.154" THK)		29	87
12		VZWSMART-MSK2	CROSSOVER PLATE		15	180
3	VZWSMART	VZWSMART-FLK3	SUPPORT RAIL CORNER BRACKET		30	90

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3			162" LONG, PIPE 2 1/2 SCH-40	GALVANIZED	78	234
3			30" LONG, L3X2X1/4	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGM-1.	15	45
6			8' LONG HSSX2X1/4	GALVANIZED	12	72
-			1/2" GR-1 U-BOLTS	GALVANIZED	-	-

SECTION 3 - REQUIRED SAFETY CLIMB PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	PERFECT VISION	PV-SCRB-RPLU	ROUTING BRACKET	OR EOR APPROVED EQUAL. CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	-	-
1	PERFECT VISION	PV-CHK-CG-BO	ROUTING BRACKET	OR EOR APPROVED EQUAL. CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.	-	-
TOTAL:						1149

NOTES:

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

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

VZWSMART KITS - APPROVED VENDORS

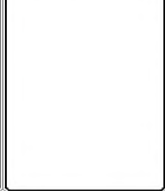
COMMSCOPE	
CONTACT	SALVADOR ANGIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECTVISION.COM
WEBSITE	WWW.PERFECTVISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 528-6937
EMAIL	AKWELC@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESOLUTIONS.COM

SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM
NEWAVE	
CONTACT	NEWAVE SALES TEAM
PHONE	(971) 239-4762
EMAIL	SALES@NEWAVETC.COM
WEBSITE	WWW.NEWAVETC.COM

BETTER METAL, LLC	
CONTACT	DAVID STANSBERRY
PHONE	(615) 535-0990 (O), (615) 631-2520 (M)
EMAIL	DLS@BETTERMETAL.COM
WEBSITE	WWW.BETTERMETAL.COM

Colliers Engineering & Design
www.colliersengineering.com
Doing business as **MASER**



FOR THIS PROJECT, CONTACT MASER CONSULTING FOR APPROVAL OF SUBSTITUTION.
WWW.MASER-CT.COM

AS SHOWN	27770 LLA		
REV	DATE	DESCRIPTION	BY

Deal Staff

UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE IN FEET AND INCHES.

SITE NAME:
E GLASTONBURY 2 CT
468152
175 DICKINSON RD.
GLASTONBURY CT 06033
HARTFORD COUNTY

Colliers Engineering & Design
27770 LLA
175 DICKINSON RD.
GLASTONBURY CT 06033
HARTFORD COUNTY

BILL OF MATERIALS
SBOM-1

GENERAL NOTES

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

STRUCTURAL STEEL

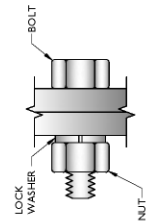
1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
 - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36)
 - STEEL PIPE ASTM A53 (GR 35)
 - BOLTS ASTM A563
 - NUTS ASTM A563
 - LOCK WASHERS LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR EXISTING UTILITIES. THE PROTECTION SHALL BE SUITABLE FOR USE AND MEET ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE NOTED. BY MATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING REDESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - a. SUBMIT SHOP DRAWINGS TO PETER.ALMAN@COLLIERENGINEERING.COM
 - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-322-H SECTION 4.9.2 REQUIREMENTS.
9. 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.
10. 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.
11. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
12. ALL NEW STEEL SHALL BE HOT DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
13. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB WORK SHALL BE REPAIRED TO MATCH EXISTING FINISH (IF APPLICABLE). CLEAN, REPAIRED BY COLD GALVANIZING (ZINCA OR ZINC COAT), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
14. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

BOLT SCHEDULE (IN.)

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



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

TYP. BOLT ASSEMBLY



Colliers Engineering & Design
www.colliersengineering.com
10000 302 Street, Houston, TX 77055
PH: 281.488.1111 FAX: 281.488.1112
www.colliersengineering.com

verizon

811
Call before you dig
FOR THE 811 SERVICE, VISIT WWW.811.COM

AS SHOWN 27770-01A

REV	DATE	DESCRIPTION	BY	CHK
0		ISSUED FOR CONSTRUCTION		
1		REVISED		

Deal Staff

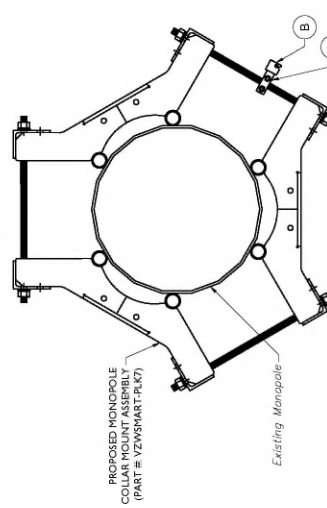
UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, THE FOLLOWING INDIVIDUALS LISTED IN THIS DOCUMENT ARE NOT ENGINEERS:

SITE NAME:
E GLASTONBURY 2 CT
768152
175 DICKINSON RD.
GLASTONBURY CT 06033
HARTFORD COUNTY

MODIFICATION NOTES

SGN-1

NOTED NOT SCALE DRAWINGS FOR CONSTRUCTION

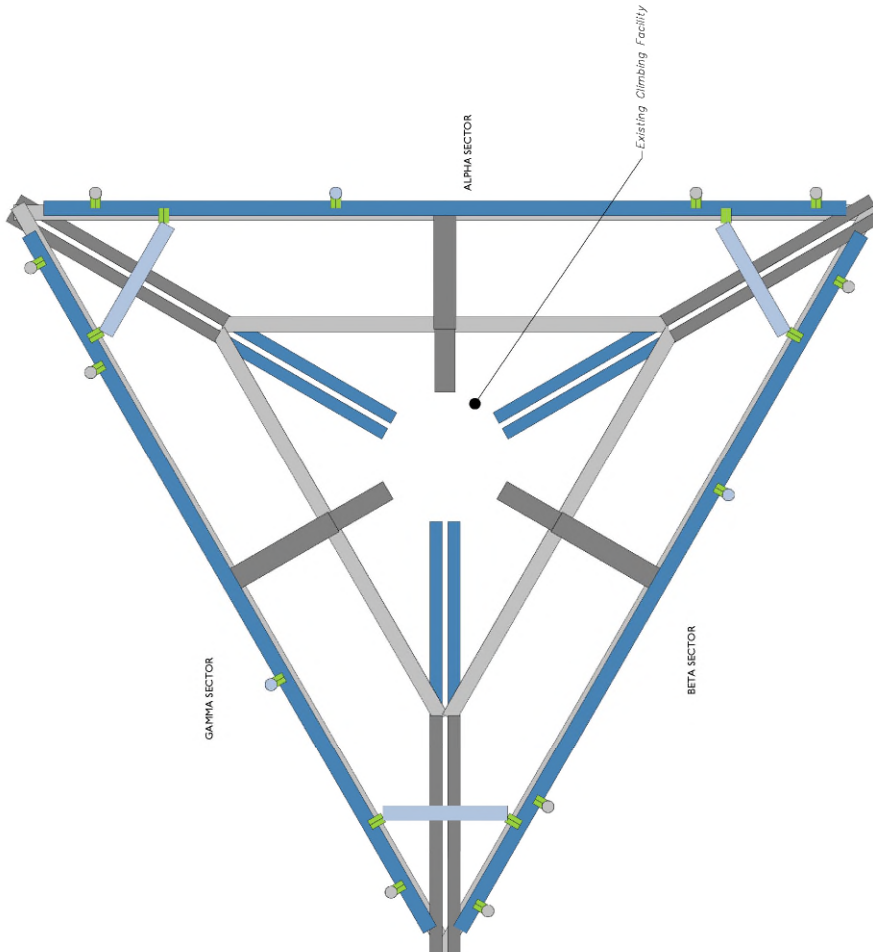


ITEM #	QTY	PART NUMBER	DESCRIPTIONS
A	1	PV-SCRB-RM-U	WIRE ROPE GUIDE (PERFECT VISION OR EOR APPROVED EQ)
B	1	PV-CHK-CG-BO	WIRE ROPE GUIDE (PERFECT VISION OR EOR APPROVED EQ)

2 PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW
SCALE: N.T.S.
NOTE: CONTRACTOR SHALL ENSURE THAT WIRE ROPE GUIDE DOES NOT PUSH THE WIRE ROPE OUTSIDE OF THE VERTICAL PLANE OF THE SAFETY CLIMB. CONTRACTOR WITH PHOTOS OF SAFETY CLIMB AND COLLAR FOR FURTHER DIRECTION IF NEEDED.



CLIMBING FACILITY PHOTO



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

- STRUCTURAL NOTES:**
- PER THE MOUNT MAPPING COMPLETED BY TOWER ENGINEERING PROFESSIONALS ON 6/28/2022, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (164'-0") ARE IN GOOD CONDITION. COLLIER'S ENGINEERING & DESIGN 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.

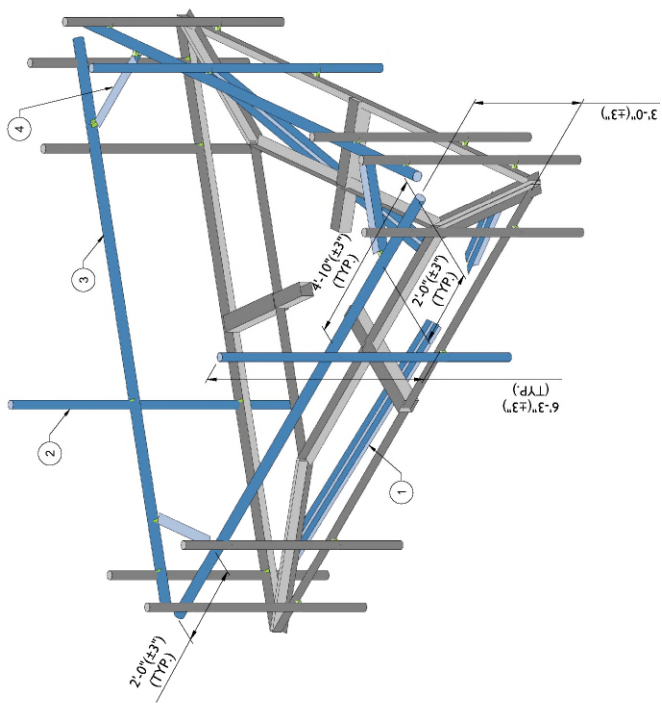
LEGEND:

- PROPOSED
- RELOCATED
- EXISTING

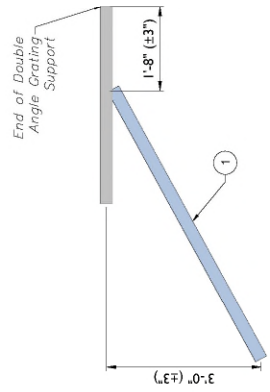
MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1		1	PROPOSED KICKER KIT (PART #: VZWSMART-FLKS)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET SGN-I. CONNECT TO THE EXISTING ANCHORS WITH PROVIDED HARDWARE. UTILIZE THE PROPOSED 30" LONG GASKING ANCHORS WITH PROVIDED HARDWARE. TRIM GRATING AND RELOCATE EXISTING CONNECTION PLATES. TRIM GRATING AND RELOCATE EXISTING STITCH BOLTING AS NEEDED. SEE GENERAL NOTE A.
2	164'-0"	3	PROPOSED 96" LONG, PIPE 2 SCH40 (PART #: VZWSMART-P40-218X096)	REPLACE EXISTING MOUNT PIPE WITH NEW 96" LONG P2 SCH 40 PIPE. CONNECT TO THE EXISTING WELDED PLATE ON THE FACE HORIZONTAL WITH NEW 1/2" DIA. U-BOLTS. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO MAINTAIN THE 162" FACE HORIZONTAL.
3		3	162" LONG, PIPE 2 1/2 SCH40 FACE HORIZONTAL	EXISTING AND PROPOSED VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-HSK).
4		3	30" LONG, L3X3X1/4	CONTRACTOR SHALL CONNECT PROPOSED ANGLES TO VZWSMART-PLK3 SUPPORT RAIL CORNER BRACKETS USING THE PROVIDED (6) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.

GENERAL NOTES:
 A. THREADED ROD FROM PROPOSED KITS SHALL BE TRIMMED TO EXTEND NO MORE THAN 3" BEYOND THE LOCK NUT. TREAT ALL CUT ENDS WITH (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC NOTE).
 B. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1 PROPOSED ISOMETRIC VIEW
SCALE: N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)
SCALE: N.T.S.

Colliers Engineering & Design
 www.colliersengineering.com
 2000-01-22 10:45:00 AM
 175 DICKINSON RD.
 GLASTONBURY CT 06033
 HARTFORD COUNTY

verizon

811
 Call before you dig
 1-800-4-A-DAWG
 www.811.com

PROTECT YOURSELF
 ALL STATE REQUIREMENTS FOR PROTECTIVE SHIELDING SHALL BE OBSERVED TO PROTECT THE WORKERS AND THE PUBLIC FROM THE HAZARD OF EXCAVATION.
 AS SHOWN ON THIS PLAN, THE PROTECTIVE SHIELDING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF CONNECTICUT.

NO.	REV.	DATE	DESCRIPTION	BY	CHKD	APP'D
1						

Deal Shift

STATE OF CONNECTICUT
 PROFESSIONAL ENGINEER
 LICENSE NO. 37160
 DATE: 08/24/15
 EXPIRES: 08/24/18

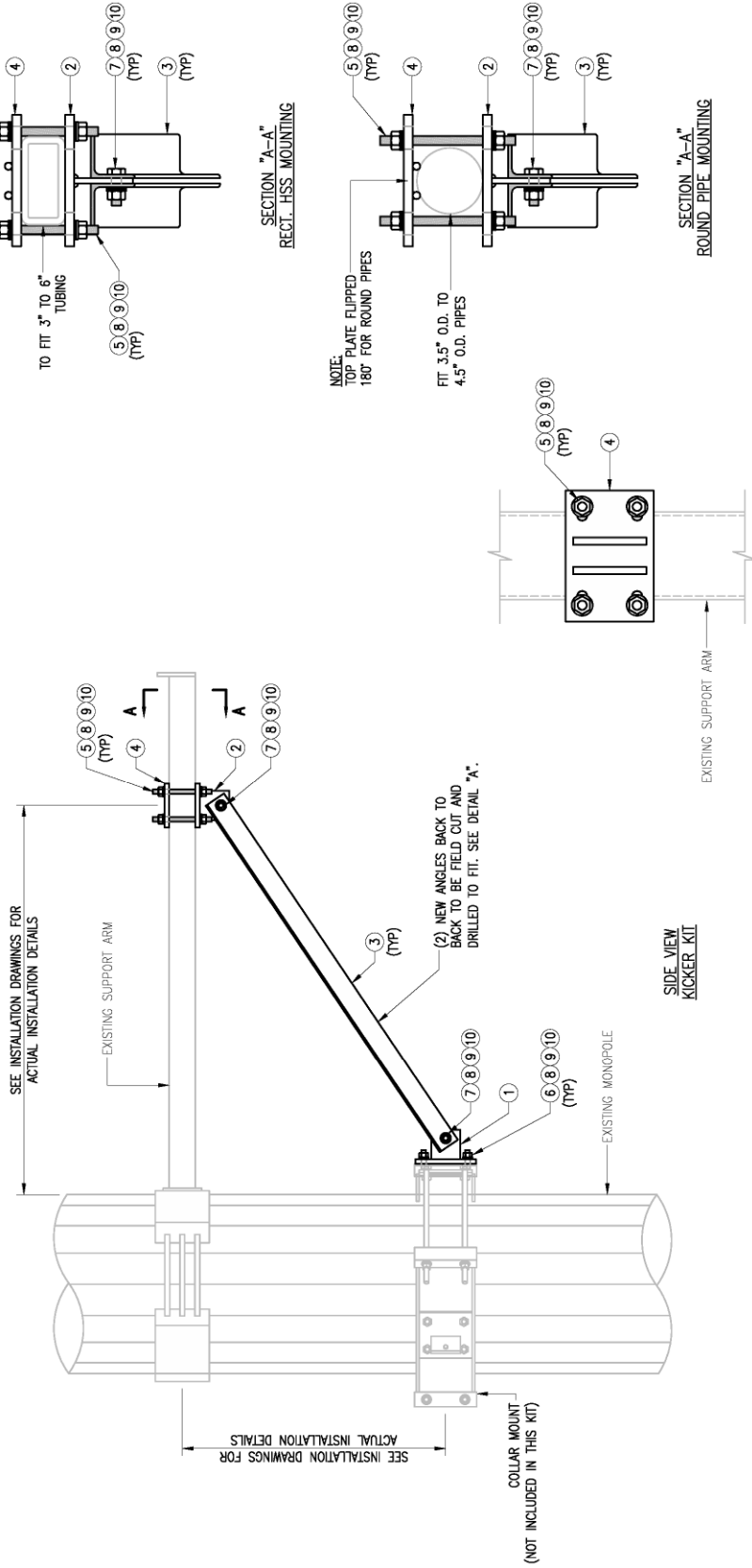
UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE NOTED.

SITE NAME:
 E GLASTONBURY 2 CT
 768152
 175 DICKINSON RD.
 GLASTONBURY CT 06033
 HARTFORD COUNTY

Colliers Engineering & Design
 2000-01-22 10:45:00 AM
 175 DICKINSON RD.
 GLASTONBURY CT 06033
 HARTFORD COUNTY

MODIFICATION DETAILS
 SS-1

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

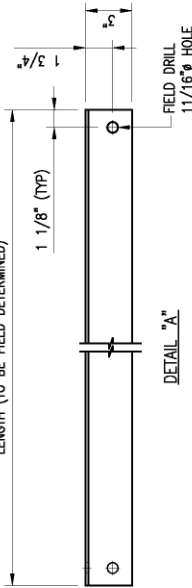


SECTION "B-B"

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

VZSMART-PLK5 (KICKER KIT)

LENGTH (TO BE FIELD DETERMINED)



NOTES:

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

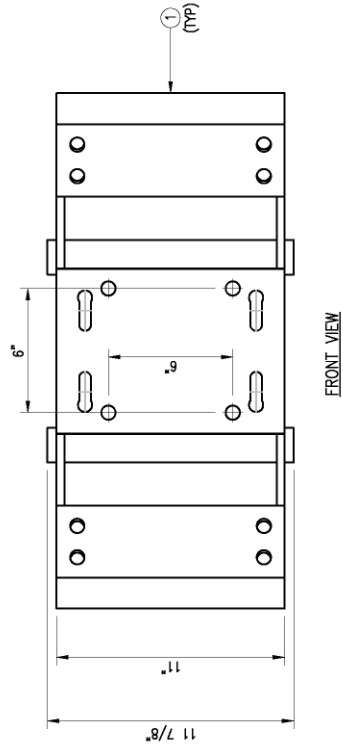
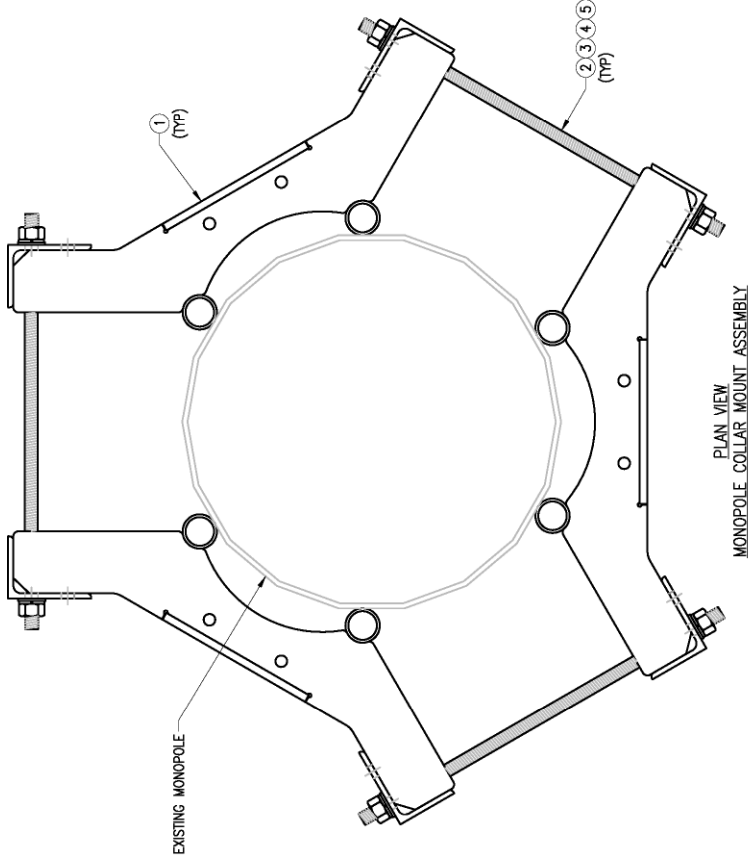
DRAWN BY: MN	CHECKED BY: HAW/OW
REV. DESCRIPTION	OR DATE
1 FIRST ISSUE	MN 05/08/20
2	
3	
4	
5	
SHEET TITLE:	
VZSMART-PLK5 KICKER KIT	
SHEET NUMBER:	
REV #:	
VZSMART-PLK5 0	

VzW
 SMART Tool[®]
 Vendor



DRAWN BY: BT
 DESCRIPTION:
 CHECKED BY: HMA/SW
 DATE: 05/11/20

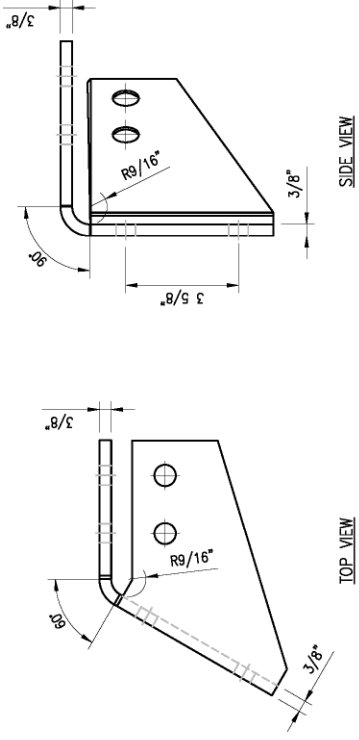
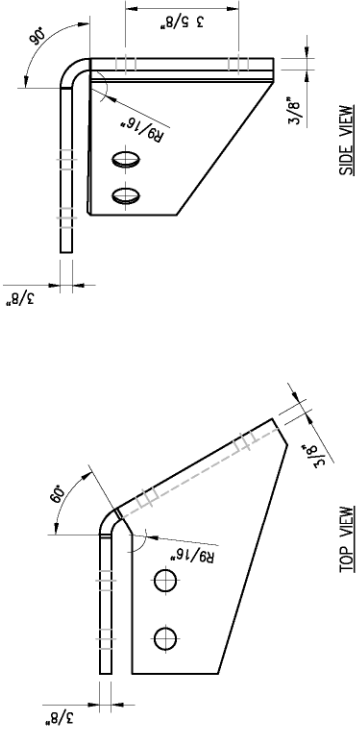
SHEET TITLE:
 VZSMART-PLK7
 MONOPOLE COLLAR
 MOUNT ASSEMBLY
 REV #:
 VZSMART-PLK7 0



VZSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

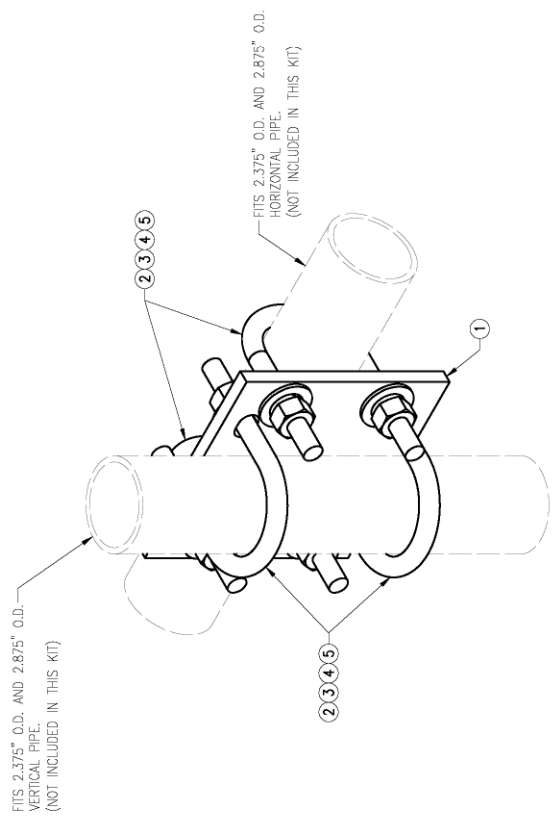
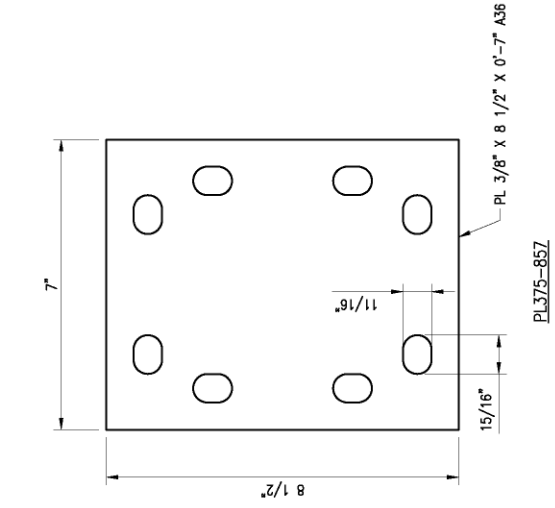
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	1.47
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	---
3	12	FW-625	5/8" HDC USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDC LOCK WASHER	---	0
5	12	NUT-625	5/8" HDC HEX NUT	---	1
				GALVANIZED WT	150

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



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

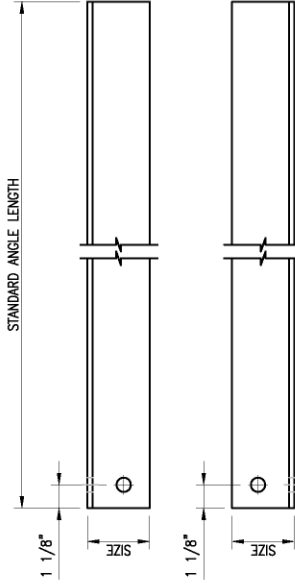
VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)						
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9	
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9	
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" LW X 5" I.L. A36 (OR EQUIV.)	R00-1	5	
4	8	---	BOLT 5/8" X 2" A325	---	3	
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



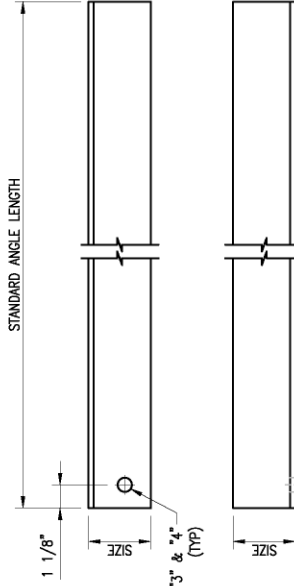
VZWSMART—MSK1 (CROSSOVER PLATE)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL-375-857	PL 3/8" X 8 1/2" X 7" A36	MSK1-F1	6
2	4	MSD2-625-300-500	RU-BOLT 5/8" X 3" LW X 5" LL 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	NUJ-625	5/8" HDG HEX NUT	---	1
GALVANIZED				WT	14

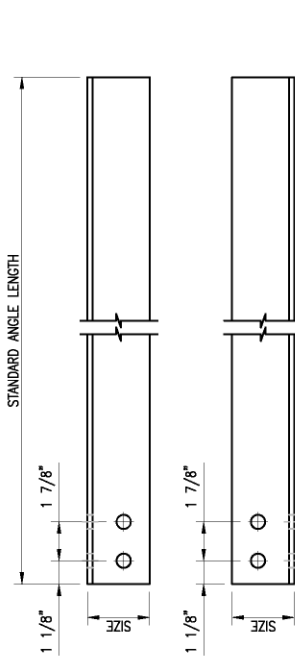
NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.



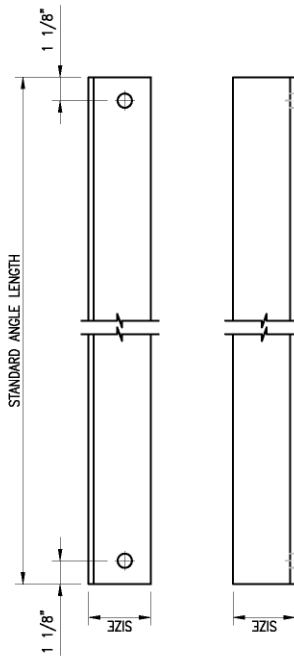
HOLE STYLE "B"



HOLE STYLE "D"



HOLE STYLE "A"



HOLE STYLE "C"

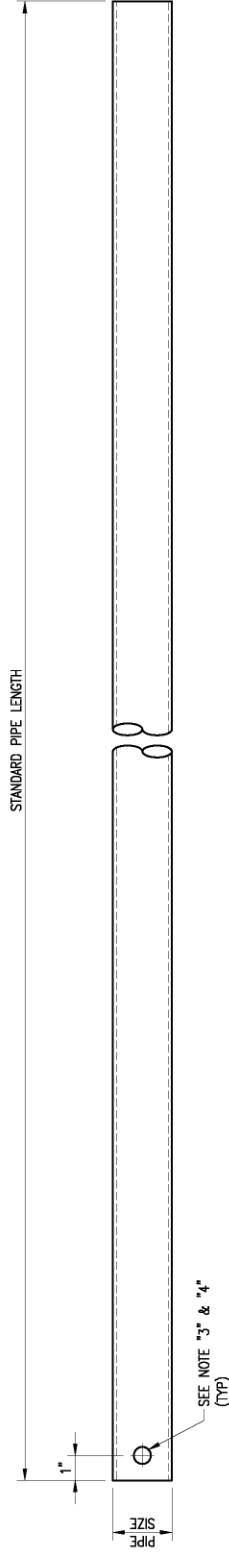
SEE NOTE "3" & "4"
(HP)

VZWSMART Standard Angle

VZWSMART Number	Size	Length	Hole Style	Hole Gauge	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, -PIK6, & -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"	

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 UNLO.
 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 MANUFACTURE'S RECOMMENDATIONS.

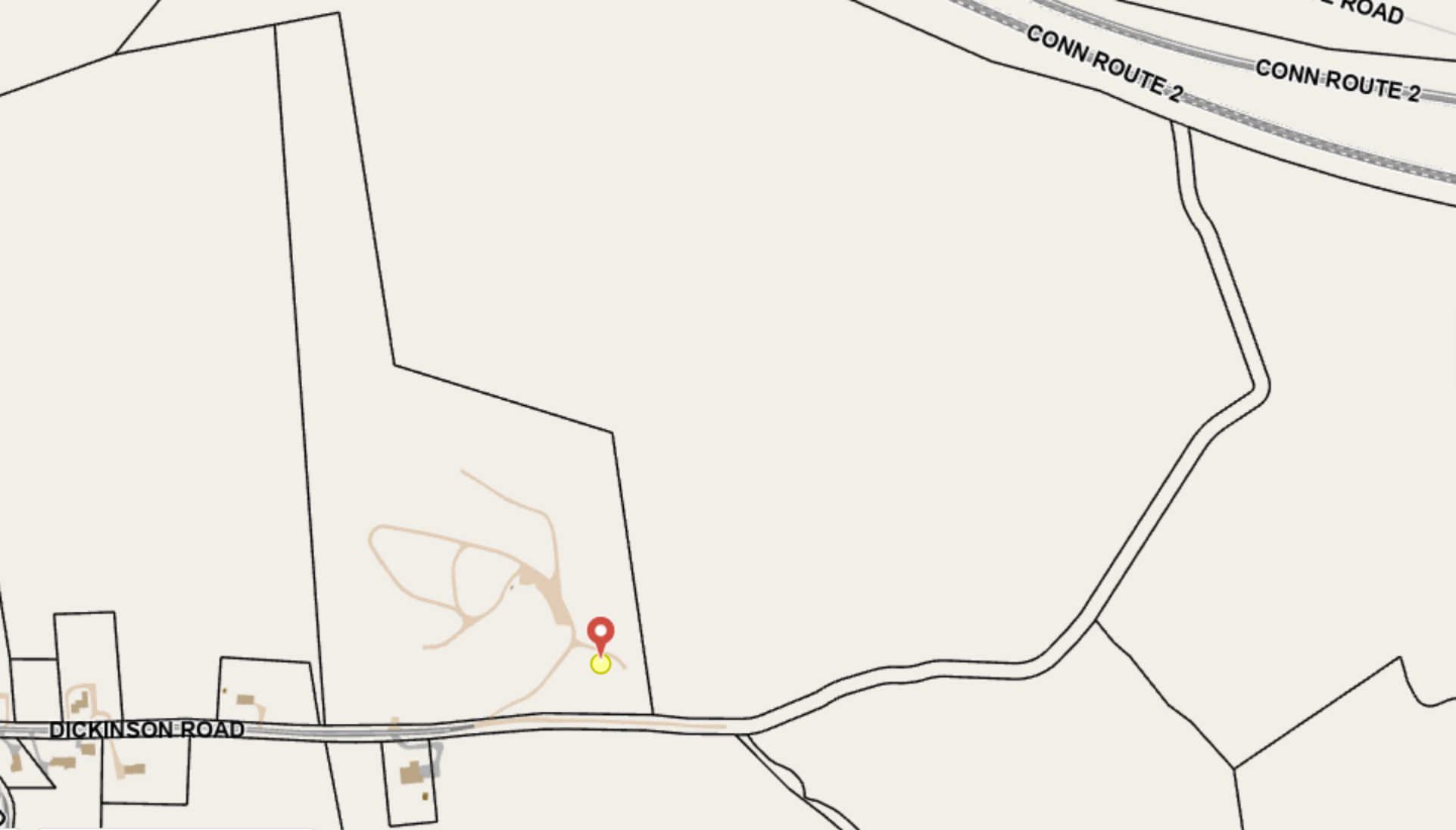


VZWSMART Standard Pipe		
VZWSMART Number	Size	Length
P40-238X048	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	48"
P40-238X072	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	72"
P40-238X096	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	96"
P40-238X120	PIPE 2 SCH40 (2.375" OD x 0.154" THK)	120"
P40-238X126	PIPE 2 SCH40 (2.375" 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. UNO.
 4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
 5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COATE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

ATTACHMENT 5



ROAD

CONN ROUTE 2

CONN ROUTE 2

DICKINSON ROAD



Owner of Record

GIS ID: 18600175
Owner: CHAPMAN RANDALL S+
Co-Owner: BRONZI KARRIE-LYNNE
Address: PO BOX 7
City, State ZIP: TROY, ME 04987-0007

Account Number: 18600175

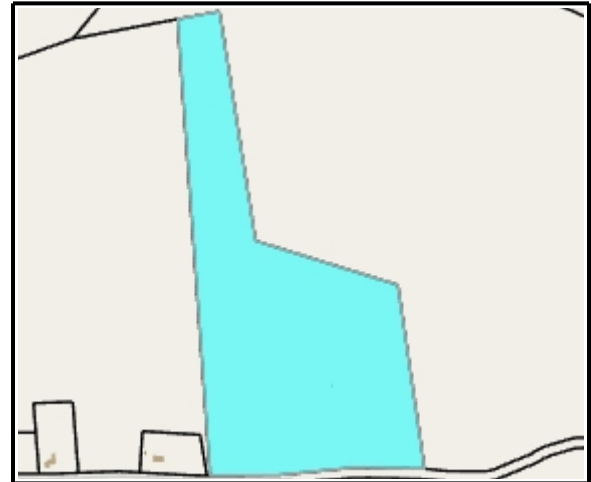
Property Address: 175 DICKINSON RD

Parcel Information

Map/Street/Lot J12 / 1860 / N0003 Property ID: 1492
Developer Lot ID: Water: Well
Parcel Acreage: 30.35 Sewer: Septic
Zoning Code: RR Census: 5205.02

Valuation Summary

Table with 3 columns: Item, Appraised Value, Assessed Value. Rows include Buildings, Land, Appurtenances, and Total.



Property highlighted in blue

Owner of Record

Deed / Page Sale Date Sale Price

Table listing owner records with columns: Owner of Record, Deed / Page, Sale Date, Sale Price.

Building Picture Not Applicable

Building Information

Building ID 0

Year Constructed : Number of Rooms :
Building Type : Number of Bedrooms :
Style : Number of Bathrooms :
Occupany : Number of Half-Baths :
Stories : Exterior Wall :
Building Zone : Interior Wall :
Roof Type : Interior Floor :
Roof Material : Interior Floor #2 :
Est. Gross S.F. : Air Conditioning Type :
Est. Living S.F. : Heat Type :
Fuel Type :



Building Sketch Not Applicable

Table with 5 columns: Subarea Type, Est. Gross S.F., Est. Living S.F., Outbuilding Type, Est. Gross S.F., Comments

ATTACHMENT 6



EAST GLASTONBURY 2
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 3	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here <i>Postmark with Date of Receipt.</i> neopost [®] 10/11/2022 US POSTAGE \$003.09⁰  ZIP 06103 041L12203937			
	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.	Richard Johnson, Town Manager Town of Glastonbury 2155 Main Street Glastonbury, CT 06033				
2.	Jonathan Mullen, Planner Town of Glastonbury 2155 Main Street Glastonbury, CT 06033				
3.	Randall Chapman and Karrie-Lynne Bronzi P.O. Box 7 Troy, ME 04987-0007				
4.					
5.					
6.					