

KENNETH C. BALDWIN

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Hartford, CT 06103-3597
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kbaldwin@rc.com
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Also admitted in Massachusetts
and New York

June 16, 2021

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
11 Francis J. Clark Circle, Bethel, 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 related equipment on the ground, near the base of the tower. The tower was approved by the Town for SBA Inc. in 1999. Cellco’s use of the tower was approved by the Council in December 2005 (EM-VER-009-051004). A copy of the Town’s approval and Cellco’s exempt modification approval are included in [Attachment 1](#).

Cellco now intends to modify its facility by removing six (6) of its existing antennas and installing six (6) MX06FIT665-02 antennas and three (3) Samsung MT6407-77A (64T64R) antennas on its existing antenna platform. Cellco also intends to replace all of its remote radio heads (“RRHs”) with six (6) new RRHs on the same platform. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRHs specifications 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 Bethel’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
June 16, 2021
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. A Cumulative General Power Density table for the modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounting device, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4. Also included in Attachment 4 is a separate letter prepared by the consulting engineer responsible for the preparation of the MA verifying that the antenna model described in the MA as a VZS01 Antenna, is the Samsung 64T64R model antenna and RRH that will be installed on the tower.

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.
June 16, 2021
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:

Matthew Knickerbocker, Bethel First Selectman
Beth Cavagna, Director Land Use/Town Planner
Costa Stergue, Property Owner
Aleksey Tyurin

ATTACHMENT 1



PLANNING & ZONING COMMISSION

Bethel Municipal Center
1 School Street, Bethel, Connecticut 06801 *(203) 794-8519

April 16, 1999

Esther McNany
SBA, Inc./Nextel Communications/Sprint PCS
125 Shaw Street
New London, CT 06320

RE: SBA, Inc./Nextel Communications/Sprint PCS

Dear Ms. McNany:


At the April 13, 1999 meeting of the Planning & Zoning Commission it was voted to **APPROVE** your application for a special permit and site plan, 11 Francis J. Clarke Industrial Park, on maps dated C-1 dated 2/17/98 last revised 1/22/99, C-2 dated 2/17/98 last revised 1/22/99, C-3 dated 6/20/98 last revised 4/16/99, and C-4 dated 6/20/98 with the following stipulations:

1. Applicant will submit the approved site plan to the Economic Development Commission for their review prior to applying for a building permit.
2. Any changes to the plan or in the field will require a resubmission the Commission before making any changes.
3. Reason for approval is that it meets the Planning & Zoning regulations.

Work is to commence within (1) one year and completed in (5) five years.

If you have any questions please call. I have also attached a copy of the legal notice for you review.

Sincerely,


Denis J. Riordan
Chairman

DJR: cpc



PLANNING & ZONING COMMISSION

Bethel Municipal Center
1 School Street, Bethel, Connecticut 06801 *(203) 794-8519

November 15, 2000

Esther McNany
SBA, Inc./ Nextel Communications/Sprint PCS
125 Shaw Street
New London, CT 06320

RE: SBA, Inc. - 11 Francis J. Clarke Circle

Dear Ms. McNany,

At the November 14, 2000 meeting of the Planning & Zoning Commission it was voted to approve your revised site plan application for 11 Francis Clarke Circle on maps dated 2/17/98 last revised 11/5/00 with the following stipulations:

- 1) The resolution granting the original approval, dated 4/16/99, including all stipulations must be adhered to.
- 2) Any further changes in the site plan must be submitted to this Commission.

I have attached a copy of the legal notice for your review. Please be advised that work is not to commence until bonds are submitted and maps are signed and filed

Sincerely,

Denis J. Riordan
Denis J. Riordan
Chairman

SITE # 4276
FILE TYPE Construction
SECTION Permits



PLANNING & ZONING COMMISSION

Bethel Municipal Center
1 School Street, Bethel, Connecticut 06801 *(203) 794-8519

April 15, 2002

RTP
FINAL

Attorney Susan A. Hays
One State St
P.O. Box 231277
Hartford Ct 06123-1277

RE: SBA Telecommunications Tower
11 Francis J. Clarke Circle

Dear Ms. Hays,

At the April 9, 2002 meeting of the Planning & Zoning Commission it was voted to **APPROVE** your request for reinstatement of the terms and conditions of the original the Site Plan for the proposed SBA, Inc. telecommunications facility and antennas for Sprint and Nextel at 11 Francis J. Clarke Circle with the following stipulations:

1. Except as modified by this approval, improvements shall be constructed as shown on drawings prepared by Gesick & Associates, P.C., Robert J. Grabarek, P.E. (CT Lic # 13441), as follows:
 - a) "SBA, Inc., #4276 Bethel (Costa Property II), 11 Francis J. Clarke Circle, Bethel, Connecticut," Sheet T-1, last revised 1/22/99;
 - b) "Comprehensive Site Plan," Sheet C-1, last revised 1/22/99 (Note: the northerly setback is shown correctly at 212.5 feet, but the arrow is shown only to the 25-foot rear setback line and should be extended to the property line.);
 - c) "Site Plan and Elevations," Sheet C-2, last revised 1/22/99 (added Sprint);
 - d) "Site Details," Sheet C-3, last revised 4/6/99;
 - e) "General Notes and Erosion Control Narrative," Sheet C-4, dated 6/20/98.
2. Applicant shall furnish the Economic Development Commission of the Town of Bethel with a copy of the plans, and shall furnish proof of transmittal to the Planning and Zoning Commission prior to the issuance of any zoning and building permits for the project.
3. Any changes in the approved plan shall require the approval of the Planning and Zoning Commission.
4. It is the applicant's responsibility to secure any and all permits and approvals required by the Connecticut Siting Council.

5. Pursuant to Sec. 118-22 of the Zoning Regulations, "The approval of any site plan shall be void and shall be of no effect unless construction of the proposed buildings or structures is commenced within one (1) year of the effective date of said approval and is substantially completed within (5) years of the effective date of said approval."

Reasons: The reinstated plan is in substantial compliance with Sec. 118-47.3, "Telecommunications towers and antennas," of the Zoning Regulations of the Town of Bethel and was previously approved by the Commission on 11/14/00, and further by Settlement Agreement dated 8/24/00-9/22/00. In granting the reinstatement of the Site Plan for this application, the Commission makes no decision regarding the property owner's right to apply for additional buildings or structures on the site, in accordance with Bethel zoning regulations in effect at the time of the application.

Sincerely,



Michael J. Mannion
Chairman

MJM: cpc



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

www.ct.gov/csc

October 20, 2005

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

RE: **EM-VER-009-051004** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 11 Francis J. Clarke Circle, Bethel, Connecticut.

Dear Attorney Baldwin:

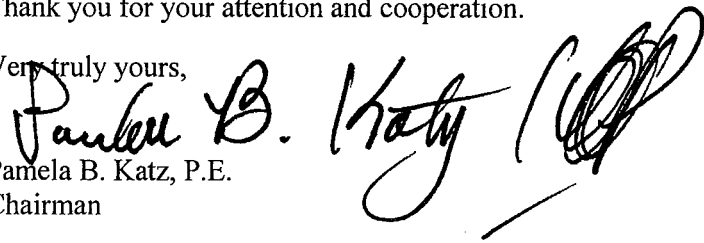
At a public meeting held on October 19, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated October 4, 2005, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of 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.

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.
Chairman

PBK/laf

- c: The Honorable Alice M. Hutchinson, First Selectman, Town of Bethel
- Steve Palmer, Planning & Zoning Official, Town of Bethel
- Sheila R. Becker, Regional Director of Compliance, SBA, Inc.
- Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Thomas F. Flynn III, Esq., Nextel Communications, Inc.

ATTACHMENT 2

verizon

WIRELESS COMMUNICATIONS FACILITY

BETHEL WEST CT

11 FRANCIS J. CLARKE CIRCLE

BETHEL, CT 06801

DRAWING INDEX

- T-1 TITLE SHEET
- C-1 COMPOUND PLAN, TOWER ELEVATION & NOTES
- C-2 EXISTING & NEW EQUIPMENT MOUNTING CONFIGURATIONS
- B-1 RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS.
- N-1 NOTES & SPECIFICATIONS

SITE DIRECTIONS

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

**END: 11 FRANCIS J. CLARKE CIRCLE
BETHEL, CT 06801**

- | | |
|--|---------|
| 1. HEAD SOUTH TOWARDS ALEXANDER DRIVE | 279 FT |
| 2. SLIGHT RIGHT TOWARDS ALEXANDER DRIVE | 289 FT |
| 3. TURN RIGHT TOWARDS ALEXANDER DRIVE | 167 FT |
| 4. TURN RIGHT ONTO ALEXANDER DRIVE | 0.3 MI |
| 5. TURN RIGHT ONTO BARNES INDUSTRIAL RD S. | 0.1 MI |
| 6. TURN RIGHT ONTO CT-68 W | 0.4 MI |
| 7. TURN RIGHT ONTO N. COLONY RD | 0.3 MI |
| 8. TURN RIGHT ONTO CT-15 N | 0.5 MI |
| 9. CONTINUE ONTO CT-15 N | 3.1 MI |
| 10. TAKE EXIT 68 W TO 1-691 W | 7.9 MI |
| 11. TAKE EXIT 1 TO I-84 W | 1.0 MI |
| 12. CONTINUE ON I-84 W TO EXIT 8 | 31.1 MI |
| 13. TAKE EXIT 8 TO MERGE ONTO NEWTOWN RD | 0.2 MI |
| 14. CONTINUE ON NEWTOWN RD | 1.4 MI |
| 15. TURN LEFT ONTO OLD SHELTER RD | 0.6 MI |
| 16. TURN SLIGHTLY LEFT ONTO CROSS ST | 0.2 MI |
| 17. TURN LEFT ONTO SHELTER ROCK RD | 240 FT |
| 18. TURN SLIGHT RIGHT ONTO SHELTER ROCK LN | 0.4 MI |
| 19. TURN RIGHT ONTO GREAT PASTURE RD | 0.2 MI |
| 20. TURN LEFT ONTO CT-53 S / SOUTH ST | 1.9 MI |
| 21. TURN RIGHT ONTO FRANCIS J. CLARKE CIR (DESTINATION ON RIGHT) | 0.3 MI |



LOCATION MAP
SCALE: 1" = 500'-0"

SITE INFORMATION

VZ SITE NAME: BETHEL WEST CT
 VZ PROJ FUZE I.D.: 16244640
 VZ LOCATION CODE: 467991
 VZ PROJECT CODE: 20202219526
 LOCATION: 11 FRANCIS J. CLARKE CIRCLE
 BETHEL, CT 06801

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

MAP/BLOCK/LOT: 09/23/150-05

ZONING DISTRICT: IP (INDUSTRIAL PARK)

LATITUDE: 41° 21' 36.32" N (41.38300361° N)

LONGITUDE: 73° 25' 30.08" W (73.42216972° W)

GROUND ELEVATION: 412'± AMSL

PROPERTY OWNER: ESTATE OF STERGUE COSTA
 2 BLANCHARD STREET
 AVON, MA 02322

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

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

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORP., P.C.
 567 VAUXHALL STREET EXTENSION - SUITE 311
 WATERFORD, CT 06385
 (860) 663-1697

VERIZON SMART TOOL PROJECT # 10032207; 10041402

SITE COORDINATES AND GROUND ELEVATION
 OBTAINED FROM GOOGLE EARTH.

Cellco Partnership d/b/a



20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492



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

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	02/18/21	FOR REVIEW: JRM
1	02/19/21	PER VZW COMMENTS: JRM
2	03/17/21	PER VZW COMMENTS: JRM
3	06/02/21	REV. FOR FILING: JRM
4	06/14/21	REV. FOR FILING: JRM
5		
6		

DESIGN PROFESSIONALS OF RECORD

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

OWNER: ESTATE OF STERGUE COSTA
 ADDRESS: 2 BLANCHARD STREET
 AVON, MA 02322

BETHEL WEST CT

SITE 11 FRANCIS J. CLARKE CIRCLE
 ADDRESS: BETHEL, CT 06801

APT FILING NUMBER: CT141_11910

DRAWN BY: THK

DATE: 01/28/21 CHECKED BY: JRM

VZ PROJECT CODE: 20202219526

VZ LOCATION CODE: 467991

VZ FUZE ID: 16244640

SHEET TITLE:

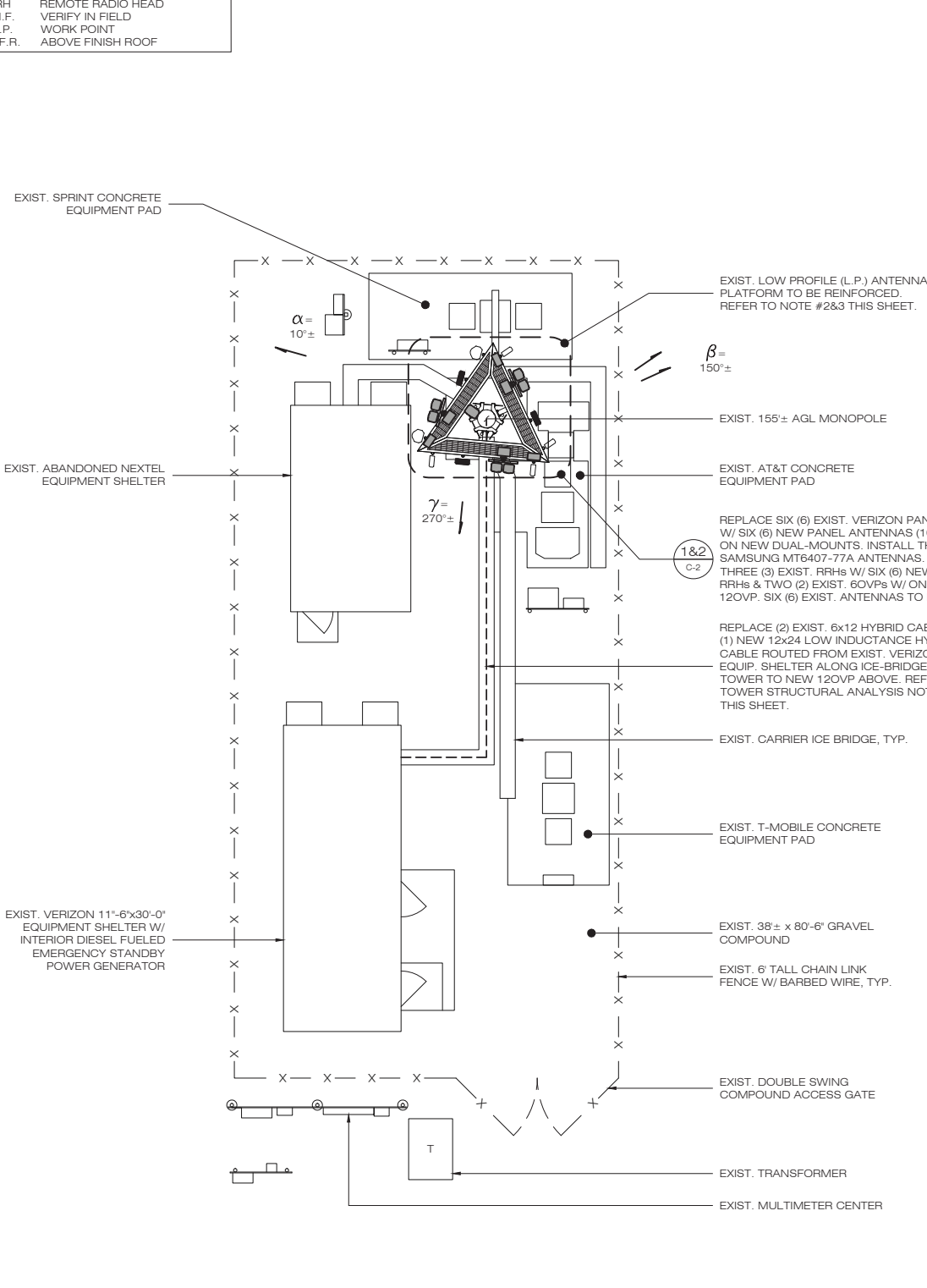
TITLE SHEET

SHEET NUMBER:

T-1

GENERAL ABBREVIATION LIST:

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



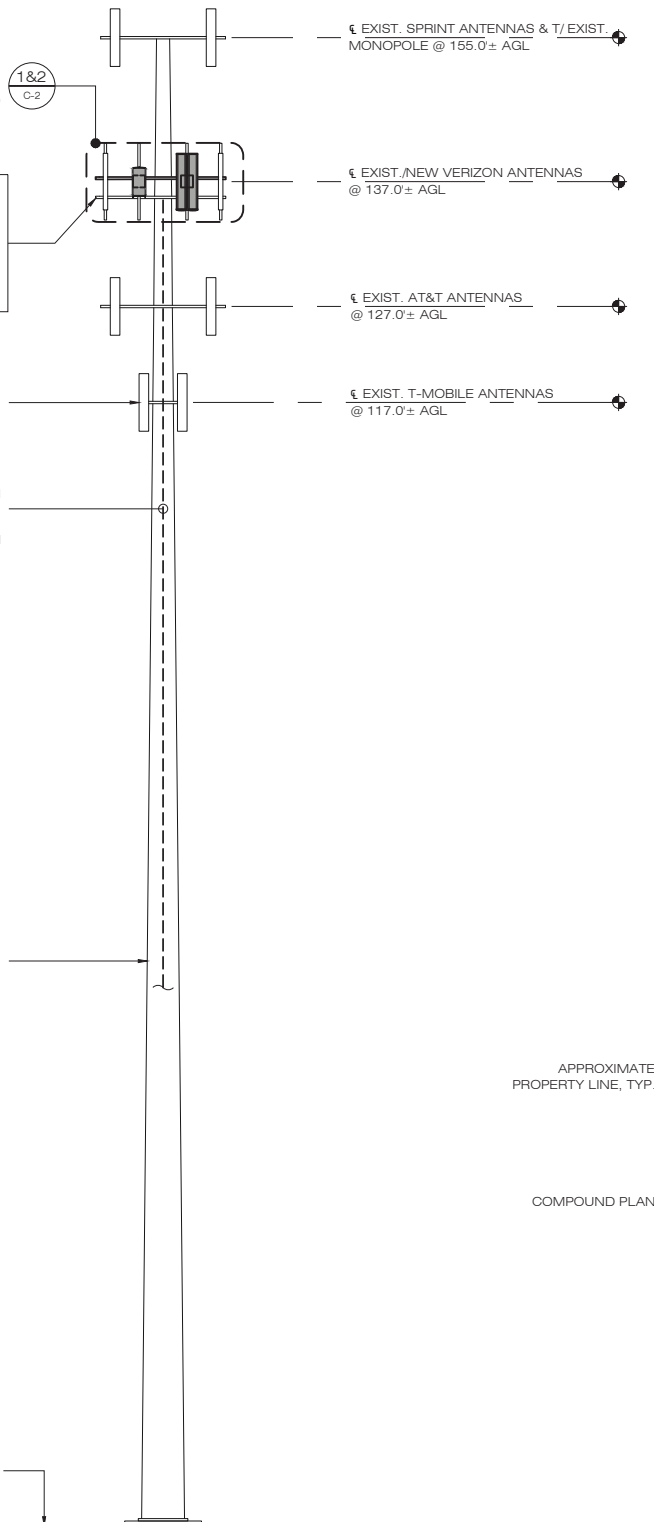
REPLACE SIX (6) EXIST. VERIZON PANEL ANTENNAS W/ SIX (6) NEW PANEL ANTENNAS (10°, 150°, 270°) ON NEW DUAL-MOUNTS. INSTALL THREE (3) NEW SAMSUNG MT6407-77A ANTENNAS. REPLACE THREE (3) EXIST. RRHs W/ SIX (6) NEW DUAL BAND RRHs & TWO (2) EXIST. 6OVPS W/ ONE (1) NEW 12OVP. SIX (6) EXIST. ANTENNAS TO REMAIN.

MOUNT REINFORCEMENT NOTE:
EXIST. LOW PROFILE (L.P.) PLATFORM REQUIRES REINFORCEMENT PRIOR TO THE INSTALLATION OF THE NEW EQUIPMENT. REFER TO MOUNT ANALYSIS, POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWING NOTES 2 & 3 THIS SHEET FOR INFORMATION.

REPLACE (2) EXIST. 6x12 HYBRID CABLES W/ (1) NEW 12x24 LOW INDUCTANCE HYBRID CABLE ROUTED FROM EXIST. VERIZON EQUIP. SHELTER ALONG ICE-BRIDGE UP TOWER TO NEW 12OVP ABOVE. REFER TO TOWER STRUCTURAL ANALYSIS NOTE #1 THIS SHEET.

EXIST. 155± AGL MONOPOLE REFER TO TOWER STRUCTURAL ANALYSIS NOTE #1 THIS SHEET.

APPROX. EXIST. GRADE 412± AMSL



- NOTES:**
- REFER TO MONOPOLE TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY SBA COMMUNICATION CORPORATION, DATED 03/23/21. AVAILABLE UNDER SEPARATE COVER.
 - REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A., PROJECT #20777631A MARKED REV0, DATED 01/28/21. AVAILABLE UNDER SEPARATE COVER.
 - REFER TO POST-MOD ANTENNA MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A. PROJECT #20777631A MARKED REV0, DATED 06/03/21 & MOUNT MODIFICATION DRAWINGS DATED 02/25/21 AVAILABLE UNDER SEPARATE COVER.
 - BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 01/18/21.
 - PROJECT SCOPE INCLUDES THE FOLLOWING:
 - REPLACEMENT OF SIX (6) EXIST. PANEL ANTENNAS W/ SIX (6) NEW PANEL ANTENNAS
 - INSTALLATION OF THREE (3) NEW SAMSUNG MT6407-77A ANTENNAS.
 - REPLACEMENT OF THREE (3) EXIST. RRHs W/ SIX (6) NEW DUAL BAND RRHs.
 - REPLACEMENT OF TWO (2) EXIST. 6OVPS W/ ONE (1) NEW 12OVP.
 - REPLACEMENT OF TWO (2) EXIST. 6x12 HYBRID CABLES W/ ONE (1) NEW 12x24 LOW-INDUCTANCE HYBRID CABLE.
 - ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE)
 - CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
 - MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
 - SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
 - CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MASTS REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.
 - ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
 - ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
 - REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
 - APPLY 3M FILM OVER ALL EXPOSED MMWAVE ANTENNAS COLOR TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE WITH VERIZON CONSTRUCTION MANAGER AND LL.
 - PAINT ALL NON SAMSUNG MT6407-77A ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.

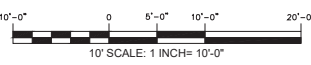


LOCATION PLAN
SCALE: 1" = 300'

1 COMPOUND PLAN
SCALE: 1/8" = 1'-0"



2 TOWER ELEVATION
SCALE: 1" = 10'-0"



Cellco Partnership d/b/a
verizon

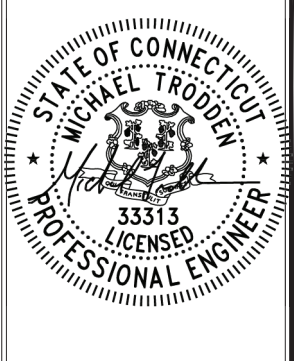
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS
TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-953-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-953-0935

CONSTRUCTION DOCUMENTS

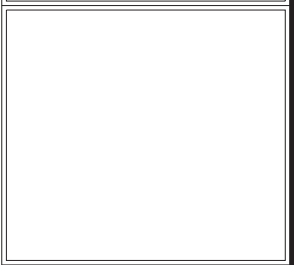
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2	03/17/21	PER VZW COMMENTS: JRM
3	06/02/21	REV. FOR FILING: JRM
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5		
6		



DESIGN PROFESSIONALS OF RECORD

PROF. MICHAEL S. TRODDEN P.E.
COMP. ALL-POINTS TECHNOLOGY CORPORATION, P.C.
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OWNER: ESTATE OF STERGEO COSTA
ADDRESS: 2 BLANCHARD STREET AVON, MA 02322



BETHEL WEST CT

SITE 11 FRANCIS J. CLARKE CIRCLE
ADDRESS: BETHEL, CT 06801

APT FILING NUMBER: CT141_11910

DRAWN BY: THK
CHECKED BY: JRM

VZ PROJECT CODE: 20202219526
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VZ FUZE ID: 16244640

SHEET TITLE:

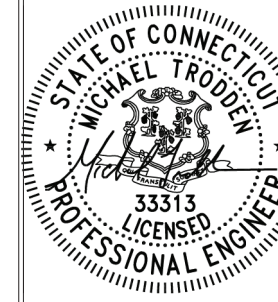
COMPOUND PLAN, TOWER ELEVATION & NOTES

SHEET NUMBER:

C-1

CONSTRUCTION DOCUMENTS

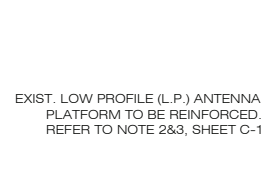
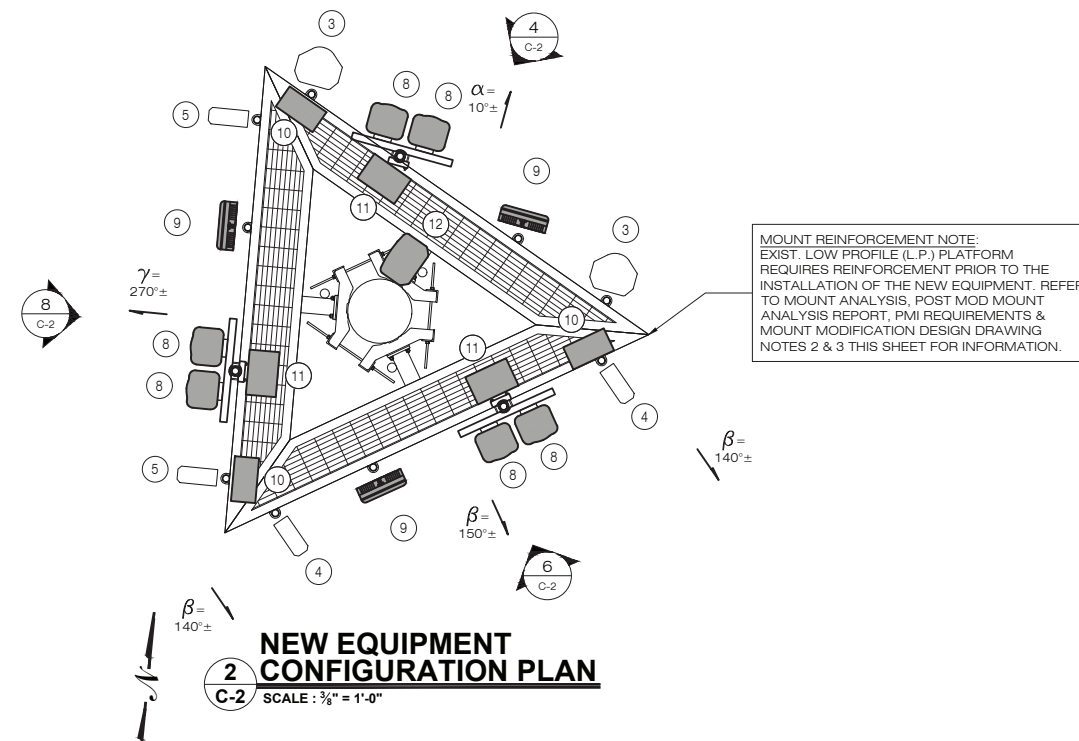
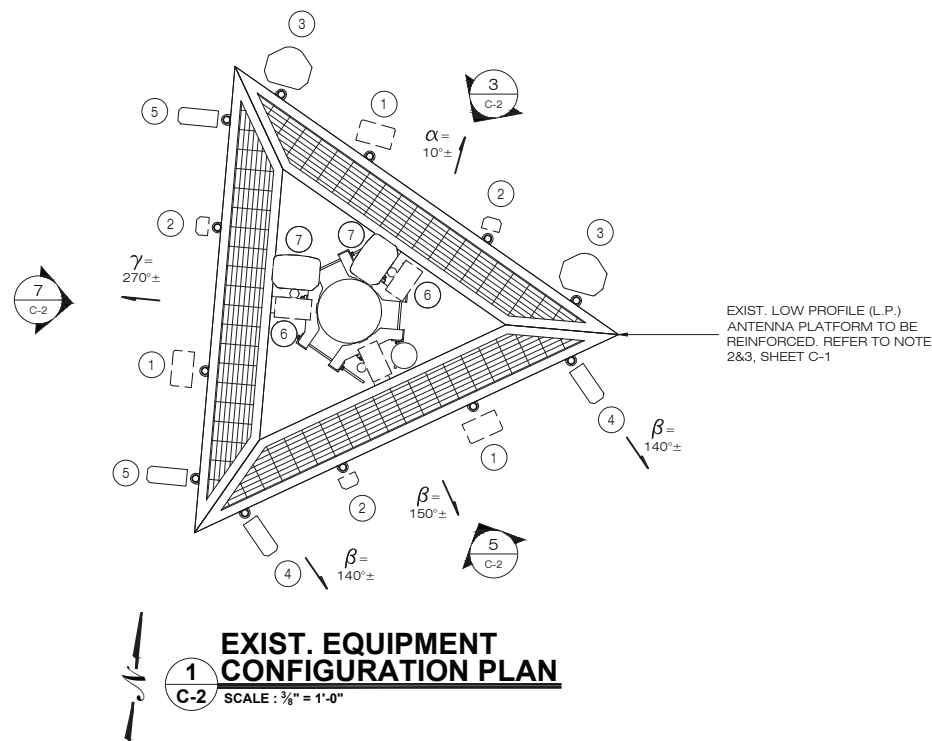
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1	02/19/21	PER VZW COMMENTS: JRM
2	03/17/21	PER VZW COMMENTS: JRM
3	06/02/21	REV. FOR FILING: JRM
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5		
6		



DESIGN PROFESSIONALS OF RECORD

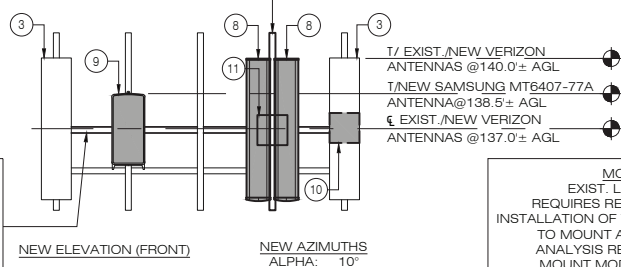
PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385

OWNER: ESTATE OF STERGUE COSTA
ADDRESS: 2 BLANCHARD STREET AVON, MA 02322



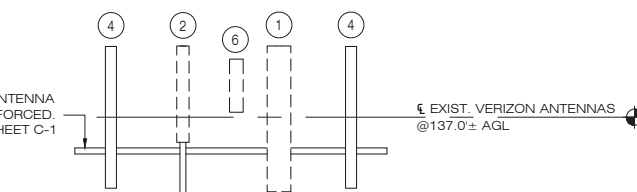
3 EXIST. EQUIP. MOUNTING CONFIG. (ALPHA)
SCALE: 1/4" = 1'-0"

REPLACE EXIST. P2.0 STD. X7'-0" LG. PIPE MAST w/ NEW P2.5 STD. (O.D. = 2.875") X 7'-0" LG GALV. ANTENNA PIPE MAST UTILIZING NEW GALV. HARDWARE REFER TO NOTE #9 SHEET C-1.



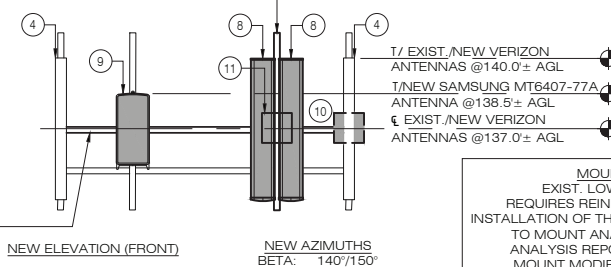
4 NEW EQUIP. MOUNTING CONFIG. (ALPHA)
SCALE: 1/4" = 1'-0"

T/ EXIST./NEW VERIZON ANTENNAS @140.0± AGL
T/NEW SAMSUNG MT6407-77A ANTENNA @138.5± AGL
E EXIST./NEW VERIZON ANTENNAS @137.0± AGL



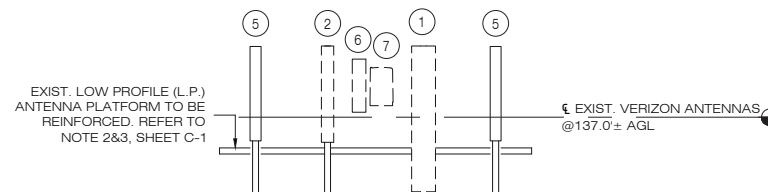
5 EXIST. EQUIP. MOUNTING CONFIG. (BETA)
SCALE: 1/4" = 1'-0"

REPLACE EXIST. P2.0 STD. X7' LG. PIPE MAST w/ NEW P2.5 STD. (O.D. = 2.875") X 7'-0" LG GALV. ANTENNA PIPE MAST UTILIZING NEW GALV. HARDWARE REFER TO NOTE #9 SHEET C-1.



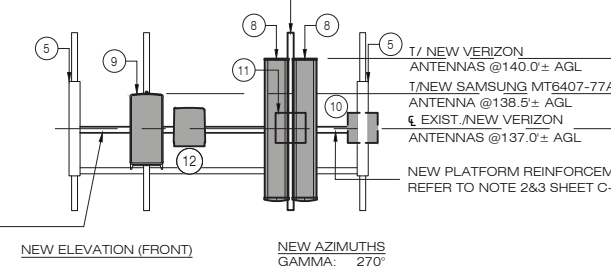
6 NEW EQUIP. MOUNTING CONFIG. (BETA)
SCALE: 1/4" = 1'-0"

T/ EXIST./NEW VERIZON ANTENNAS @140.0± AGL
T/NEW SAMSUNG MT6407-77A ANTENNA @138.5± AGL
E EXIST./NEW VERIZON ANTENNAS @137.0± AGL



7 EXIST. EQUIP. MOUNTING CONFIG. (GAMMA)
SCALE: 1/4" = 1'-0"

REPLACE EXIST. P2.0 STD. X7'-0" LG. PIPE MAST w/ NEW P2.5 STD. (O.D. = 2.875") X 7'-0" LG GALV. ANTENNA PIPE MAST UTILIZING NEW GALV. HARDWARE REFER TO NOTE #9 SHEET C-1.



8 NEW EQUIP. MOUNTING CONFIG. (GAMMA)
SCALE: 1/4" = 1'-0"

T/ NEW VERIZON ANTENNAS @140.0± AGL
T/NEW SAMSUNG MT6407-77A ANTENNA @138.5± AGL
E EXIST./NEW VERIZON ANTENNAS @137.0± AGL

NEW PLATFORM REINFORCEMENT REFER TO NOTE 2&3 SHEET C-1

NOTES:

- ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
- ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
- REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
- APPLY 3M FILM OVER ALL EXPOSED mmWAVE ANTENNAS COLOR TO MATCH EXIST. FRP ENCLOSURES COORDINATE WITH VERIZON CONSTRUCTION MANAGER AND LL.

GENERAL ABBREVIATION LIST:

- ABP ABOVE BASE PLATE
- AGL ABOVE GROUND LEVEL
- AMSL ABOVE MEAN SEA LEVEL
- AWVS ADVANCED WIRELESS SERVICE
- HDG HOT DIP GALVANIZED
- QVP OVER VOLTAGE PROTECTION
- RRH REMOTE RADIO HEAD
- V.I.F. VERIFY IN FIELD
- W.P. WORK POINT
- A.F.R. ABOVE FINISH ROOF

SCOPE OF WORK (ALL) SECTORS

- | | | | | |
|--|--|--|---|--|
| 1 EXIST. ANTENNA (TO BE REPLACED)
MODEL: ANDREW SBH4H-1D65B | 4 EXIST. ANTENNA (TO REMAIN)
MODEL: ANTEL LPA-80080/6CF | 7 EXIST. 6 OVP (TO BE REPLACED)
MODEL: RAYCAP RRFDC3315-PF-48 (V.I.F.)
NEW ANTENNA
MODEL: JMA MX06FT665-02
MOUNTED VIA NEW SIDE BY SIDE MOUNT BRACKETS (JMA 91900314-02) | 10 NEW DUAL BAND RRH
MODEL: SAMSUNG B13/B5 RRH-BR04C (RFV01U-D2A) | 12 NEW 120VP
MODEL: RAYCAP RVZDC-6627-PF-48
MOUNTED TO EXIST. LOW PROFILE PLATFORM |
| 2 EXIST. ANTENNA (TO BE REPLACED)
MODEL: AMPHENOL BXA-171063-EDIN | 5 EXIST. ANTENNA (TO REMAIN)
MODEL: ANTEL LPA-80080/4CF | 8 EXIST. RRH (TO BE REPLACED)
MODEL: ALU B4 RRH 2x60-4R | 11 NEW DUAL BAND RRH
MODEL: SAMSUNG B66/B2A RRH-BR049 (RFV01U-D1A) | |
| 3 EXIST. ANTENNA (TO REMAIN)
MODEL: ANTEL LPA-80063/6CF | 6 EXIST. ANTENNA (TO BE REPLACED)
MODEL: ALU B4 RRH 2x60-4R | 9 NEW ANTENNA
MODEL: SAMSUNG MT6407-77A | | |

BETHEL WEST CT

SITE 11 FRANCIS J. CLARKE CIRCLE
ADDRESS: BETHEL, CT 06801

APT FILING NUMBER: CT141.11910

DRAWN BY: THK

CHECKED BY: JRM

VZ PROJECT CODE: 20202219526

VZ LOCATION CODE: 467991

VZ FUZE ID: 16244640

SHEET TITLE:

EXISTING & NEW EQUIPMENT MOUNTING CONFIGURATIONS

SHEET NUMBER:

C-2

EQUIPMENT DATA								
EQUIPMENT SPECIFICATIONS								
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)	WEIGHT (LBS)
ALPHA	CDMA: ANTEL LPA-80063/6CF	1	10°	ETR	70.9	15.0	13.1	27.0 ⁽²⁾
	700/850/1900/2100: JMA MX06FIT665-02	1	10°	NEW	71.3	12.2	10.7	51.0 ⁽²⁾
	700/850/1900/2100: JMA MX06FIT665-02	1	10°	NEW	71.3	12.2	10.7	51.0 ⁽²⁾
	SAMSUNG MT6407-77A	1	10°	NEW	35.1 ⁽⁵⁾	16.1 ⁽⁵⁾	5.5 ⁽⁵⁾	87.1 ⁽²⁾⁽⁵⁾
	CDMA: ANTEL LPA-80063/6CF	1	10°	ETR	70.9	15.0	13.1	27.0 ⁽²⁾
BETA	CDMA: ANTEL LPA-80080/6CF	1	140°	ETR	70.9	5.5	13.2	21.0 ⁽²⁾
	700/850/1900/2100: JMA MX06FIT665-02	1	150°	NEW	71.3	12.2	10.7	51.0 ⁽²⁾
	700/850/1900/2100: JMA MX06FIT665-02	1	150°	NEW	71.3	12.2	10.7	51.0 ⁽²⁾
	SAMSUNG MT6407-77A	1	150°	NEW	35.1 ⁽⁵⁾	16.1 ⁽⁵⁾	5.5 ⁽⁵⁾	87.1 ⁽²⁾⁽⁵⁾
	CDMA: ANTEL LPA-80080/6CF	1	140°	ETR	70.9	5.5	13.2	21.0 ⁽²⁾
GAMMA	CDMA: ANTEL LPA-80080/4CF	1	270°	ETR	47.2	5.5	13.2	12.0 ⁽²⁾
	700/850/1900/2100: JMA MX06FIT665-02	1	270°	NEW	71.3	12.2	10.7	51.0 ⁽²⁾
	700/850/1900/2100: JMA MX06FIT665-02	1	270°	NEW	71.3	12.2	10.7	51.0 ⁽²⁾
	SAMSUNG MT6407-77A	1	270°	NEW	35.1 ⁽⁵⁾	16.1 ⁽⁵⁾	5.5 ⁽⁵⁾	87.1 ⁽²⁾⁽⁵⁾
	CDMA: ANTEL LPA-80080/4CF	1	270°	ETR	47.2	5.5	13.2	12.0 ⁽²⁾
APPURTENANCE MAKE/MODEL								
	SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	3	-	NEW	14.9	14.9	10.04	97.5
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	NEW	14.9	14.9	8.14	82.0
	RAYCAP RVZDC-6627-PF-48	1	-	NEW	29.5	16.5	12.6	32

- (1) ETR DENOTES EXIST. TO REMAIN
- (2) WEIGHT WITHOUT MOUNTING BRACKET.
- (3) ANTENNA DATA BASED ON RFDS REV1 DATED 01/22/21
- (4) EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND.
- (5) NOT TO EXCEED

BILL OF MATERIALS			
	QUANTITY	LENGTH	COMMENTS
①	700/850/1900/2100	6	(JMA MX06FIT665-02) MOUNTED TO PIPE MAST VIA NEW SIDE BY SIDE MOUNT BRACKETS (JMA 91900314-02)
②	SAMSUNG MT6407-77A	3	MOUNTED TO PIPE MAST
③	1/2" JUMPER CABLE	36	15 FT ROUTE FROM RRH TO ANTENNAS
④	ANTENNA LINK CABLES	6	15 M ROUTE FROM UPPER OVP TO ANTENNAS
⑤	ANTENNA POWER CABLES	3	15 M PROPRIETARY POWER CABLE FROM EXIST. OVP TO ANTENNAS
⑥	AWS/PCS RRH	3	SAMSUNG B2/B66 RRH-BR049 (RFV01U-D1A)
⑦	700/850 RRH	3	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)
⑧	RRH CABLES	6	15M PROPRIETARY POWER & FIBER CABLES
⑨	UPPER 12OVP	1	(RVZDC-6627-PF-48)
⑩	HYBRID CABLE	1	220± FT 12x24 LOW INDUCTANCE HYBRID CABLE

NOTES:

1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON RFDS REV1 DATED 01/22/21.
3. * DENOTES EQUIPMENT DESIGNATED "FOR LEASING ONLY" (WHERE APPLICABLE)
4. INSTALL ALARM BOARDS AT ALL OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING.
5. INSTALL UP-CONVERTER(S) LOCATED AT BASE OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
6. COORDINATE ANTENNA CABLING REQUIREMENTS WITH VERIZON ENGINEERING.
7. CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MAST REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.

Cellco Partnership d/b/a

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-963-1697
WWW.ALLPOINTSCTECH.COM FAX: (860)-963-0935

CONSTRUCTION DOCUMENTS		
NO	DATE	REVISION
0	02/18/21	FOR REVIEW: JRM
1	02/19/21	PER VZW COMMENTS: JRM
2	03/17/21	PER VZW COMMENTS: JRM
3	06/02/21	REV. FOR FILING: JRM
4	06/14/21	REV. FOR FILING: JRM
5		
6		

STATE OF CONNECTICUT
MICHAEL TRODDEN
33313
LICENSED PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

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

OWNER: ESTATE OF STERGEO COSTA
ADDRESS: 2 BLANCHARD STREET AVON, MA 02322

BETHEL WEST CT

SITE 11 FRANCIS J. CLARKE CIRCLE
ADDRESS: BETHEL, CT 06801

APT FILING NUMBER: CT141_11910

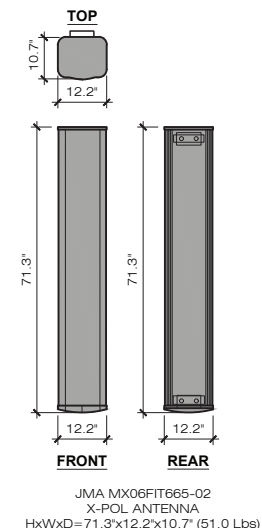
DATE: 01/28/21 DRAWN BY: THK
CHECKED BY: JRM

VZ PROJECT CODE: 20202219526
VZ LOCATION CODE: 467991
VZ FUZE ID: 16244640

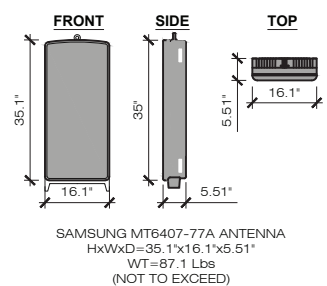
SHEET TITLE:
RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS

SHEET NUMBER:

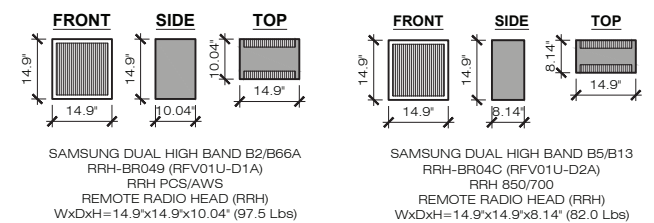
B-1



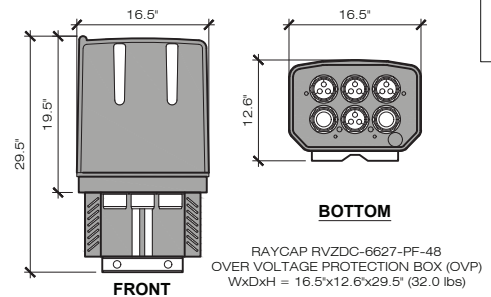
2 NEW ANTENNA DETAIL
B-1 SCALE: 1/2" = 1'-0"



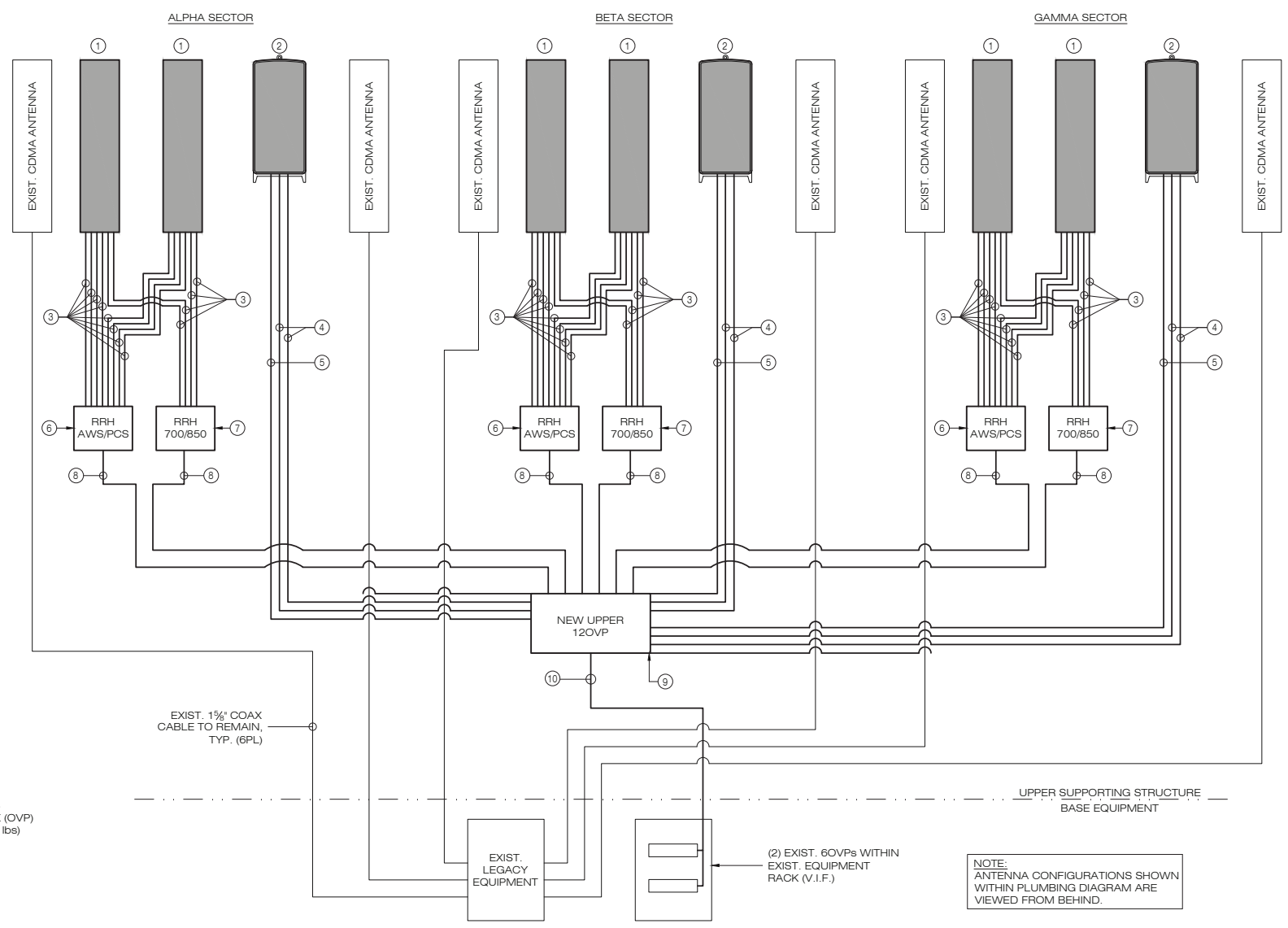
3 NEW ANTENNA DETAIL
B-1 SCALE: 1/2" = 1'-0"



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



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



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

DESIGN BASIS:

GOVERNING CODES/DESIGN STANDARDS:

2015 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE 2018 CONNECTICUT STATE BUILDING CODE
ASCE 7-10
TIA-222-G (TOWER)

MANAGER AND CEASE ALL ACTIVITIES IN AFFECTED AREAS UNTIL NOTIFIED BY THE CONSTRUCTION TO RESUME OPERATIONS. EXIST ELECTRICAL AND MECHANICAL FIXTURES, PIPING, WIRING AND EQUIPMENT OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. TEMPORARY SERVICE INTERRUPTIONS MUST BE COORDINATED WITH THE OWNER.

01 GENERAL:
ABBREVIATIONS USED IN THESE SPECIFICATIONS INCLUDE THE FOLLOWING:
ACI AMERICAN CONCRETE INSTITUTE
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
AWS AMERICAN WELDING SOCIETY
AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM AMERICAN STANDARDS AND TESTING METHODS
CRSI CONCRETE REINFORCING STEEL INSTITUTE
ICC-ES INTERNATIONAL CODE COUNCIL EVALUATION SERVICE
TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UL UNDERWRITERS LABORATORIES
NFC NATIONAL ELECTRICAL CODE
NFPA NATIONAL FIRE PROTECTION ASSOCIATION
OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

05 STEEL:
THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.
MATERIALS:
WIDE FLANGE ASTM A992, GR 50
TUBING ASTM A502, GR B
PIPE ASTM A53, GR B
BOLTS ASTM A325
GRATING TYPE GW-2 (1-1/4"x3/16" BARS)
EXISTING METALS ASTM A36

PROVIDE CERTIFICATION THAT WELDERS TO BE USED IN WORK ARE LICENSED AND HAVE SATISFACTORILY PASSED AWS QUALIFICATION TEST UNDER THE PROVISIONS OF APPENDIX D, PARTS I AND II OF THE AWS CODE FOR WELDING IN BUILDING CONSTRUCTION.
ALL BUILDING CONNECTION POINTS TO BE CENTERED ON EXISTING STRUCTURAL BEARING POINTS AND THE LOCATIONS ARE TO BE VERIFIED IN FIELD PRIOR TO THE FABRICATION OF STEEL.
DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATION FOR "THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS".

NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY BE USED 8" DIAMETER GALVANIZED ASTMA 307 BOLTS UNLESS OTHERWISE NOTED.
ALL STEEL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A153 ZINC HOT-DIPPED GALVANIZED COATINGS" ON IRON AND STEEL PRODUCTS WITH A COATING WEIGHT OF 2 OZ/SF.

ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 ZINC COATING (HOT DIP ON IRON AND STEEL HARDWARE).
DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY TOUCHING UP ALL DAMAGED GALVANIZED STEEL WITH COLD ZINC "GALVANOX" DRY GALV. OR ZINC IT. IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH UP DAMAGED NON-GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS TO REMEDIA, OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW. FIELD CUTTING OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WITH THE PRIOR APPROVAL OF THE ENGINEER.

CONTRACTOR TO REMOVE AND RE-INSTALL ALL FIEE PROOFING AS REQUIRED DURING CONSTRUCTION.
THE STEEL STRUCTURE SHALL BE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER COMPLETION. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INSTALLATIONS, AND EQUIPMENT IN THE FIELD PRIOR TO BID, FABRICATION, AND INSTALLATION OF ANY WORK.
CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. THE ENGINEER SHALL BE NOTIFIED FOR INSPECTIONS PRIOR TO CLOSING PENETRATIONS AND OF ANY CONDITIONS WHICH PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL VISIT THE SITE TO MANAGE AND GAIN APPROVAL FOR ALL TENANT DISRUPTIONS, POWER OUTAGES, WORK SCHEDULES, OPERATION OF WORK AREA AND WORK STORAGE, NEVER BLOCK DRIVEWAY ACCESS, NOISE AND CLEANLINESS REQUIREMENTS WITH THE BUILDING SITE MANAGEMENT PRIOR TO ALL WORK. ANY DISRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE IMPLEMENTED ONLY UPON WRITTEN APPROVAL OF THE OWNER.

THE CONTRACTOR SHALL SAFEGUARD AGAINST CREATING ANY HAZARD AFFECTING TENANT ACCESS OR COMPROMISING SITE SECURITY MEASURES.
PRIOR TO ALL BELOW-GRADE WORK AND ANY SURFACE WORK IN A NEW AREA FOR STRUCTURES OR VEHICLES, CONTRACTOR SHALL ENGAGE A MAINTOUT SERVICE TO IDENTIFY ANY UNDERGROUND STRUCTURES, CONDUITS, AND PIPELINES IN THE AREA. ALL EXISTING SEWER, WATER, GAS, ELECTRIC, FIBER OPTIC, AND OTHER UNDERGROUND UTILITIES IDENTIFIED OR ENCOUNTERED, SHALL BE PROTECTED AT ALL TIMES. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN DIGGING OR EXCAVATING IN ANY MANNER AROUND OR NEAR SUCH UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRS, REPLACEMENT, AND ALL DAMAGES DUE TO DAMAGE OF UTILITIES BY HIS OPERATIONS.

DESIGN PROFESSIONALS SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS TO REMEDIA, OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW. FIELD CUTTING OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WITH THE PRIOR APPROVAL OF THE ENGINEER.
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CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION". CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONNECTION.
STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE MINIMUM 3/4" DIAMETER AND EACH CONNECTION SHALL HAVE MINIMUM TWO BOLTS. LOCK WASHERS ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES.

DESIGN PROFESSIONALS SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS TO REMEDIA, OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW. FIELD CUTTING OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WITH THE PRIOR APPROVAL OF THE ENGINEER.
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ALL EXISTING AND NEW EQUIPMENT AND MATERIAL LOCATIONS, ROUTING, ORIENTATION, MOUNTING, SPECIFICATIONS AND GENERAL INSTALLED CHARACTERISTICS SHALL BE CONSIDERED DIAGRAMMATIC ON THE PLANS. EXACT CONDITIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO ANY INSTALLATION. ANY DIFFERENCES THAT MAY CAUSE SCHEDULE, COST, OR QUALITY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO ANY WORK.
ALL REFERENCES HEREIN TO VERIFICATION OF ANY CONDITION OF SITE, FIELD, PLANS, OR SPECIFICATIONS PRIOR TO ANY WORK SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL ADDITIONS, MODIFICATIONS, CHANGES, REPAIR, OR DEMOLITION AS A RESULT OF FAILURE TO BRING ANY EXISTING CONDITIONS TO THE ATTENTION OF THE OWNER OR ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR WITHOUT DELAY, COST, OR CHANGES IN QUALITY.

ALL NOTES THIS SHEET SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE INCLUDED DRAWINGS OR IN SEPARATE PROJECT SPECIFICATIONS AS APPLICABLE. ALL SPECIFICATIONS SHALL BE CONSIDERED REQUIRED UNLESS APPROVED EQUALLY BY THE OWNER, CONSTRUCTION MANAGER, OR ENGINEER AS APPLICABLE.
THE WORDS "PROVIDE" OR "INSTALL" SHALL MEAN FURNISH AND INSTALL.

CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF THE WORK. ANY PATCHING SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. ALL REMOVED MATERIAL SHALL BE REMOVED FROM THE PREMISES DAILY IN AN APPROVED SAFE MANNER.
ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE PROMPTLY WHEN DEEMED TO BE SURPLUS.

EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF THE SITE, ALL STRUCTURES, AND ALL OCCUPANTS. FURNISH, INSTALL, MAINTAIN, AND REMOVE AS APPROPRIATE ALL APPROPRIATE BARRIERS, SAFETY GUARDS, SIGNAGE, AND SECURITY AS REQUIRED.
EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RESPECTIVE FEES, PERMITS, INSPECTIONS, TESTING, CERTIFICATES, AND ALL MANAGEMENT OF SAME REQUIRED FOR COMPLETION OF AND LEGAL OCCUPANCY OF THE FINISHED PROJECT.

ALL CONTRACTORS SHALL PROVIDE ALL NECESSARY TOOLS, FIXTURES, SERVICES, MATERIALS, JOB AIDS, AND PERSONNEL REQUIRED FOR THE EXECUTION OF THEIR WORK.
EACH CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP BY THEM TO BE FREE OF DEFECTS AND MAINTAINED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY THE OWNER AND ENGINEER.

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EACH CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP BY THEM TO BE FREE OF DEFECTS AND MAINTAINED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY THE OWNER AND ENGINEER.

ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN THE TRADE HAVING JURISDICTION.
ANY DEVIATION, MODIFICATION, ADDITION, OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER OR ENGINEER.
ALL CONTRACTORS SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION, AND SHALL NOT PROCEED UNTIL ENGINEER APPROVAL IN WRITING IS RETURNED. EACH CONTRACTOR SHALL MAINTAIN ON JOB SITE A COMPLETE SET OF SHOP DRAWINGS WITH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, WITHOUT BLEMISH OR DEFECT, AND SUITABLE AND LISTED FOR THE INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS OR SPECIFICATIONS. ALL ITEMS OF EQUIPMENT OR MATERIAL THAT ARE OF ONE GENERIC TYPE SHALL BE ONE MANUFACTURER THROUGHOUT.

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ELECTRICAL CODE (NEC), AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
ALL GROUNDING ELECTRODES PRESENT AT EACH SERVICE LOCATION SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

ALL CONTRACTORS SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION, AND SHALL NOT PROCEED UNTIL ENGINEER APPROVAL IN WRITING IS RETURNED. EACH CONTRACTOR SHALL MAINTAIN ON JOB SITE A COMPLETE SET OF SHOP DRAWINGS WITH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, WITHOUT BLEMISH OR DEFECT, AND SUITABLE AND LISTED FOR THE INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS OR SPECIFICATIONS. ALL ITEMS OF EQUIPMENT OR MATERIAL THAT ARE OF ONE GENERIC TYPE SHALL BE ONE MANUFACTURER THROUGHOUT.

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ALL GROUNDING ELECTRODES PRESENT AT EACH SERVICE LOCATION SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.
ALL EQUIPMENT ENCLOSURES, DEVICES, AND CONDUITS SHALL BE GROUNDING BY THE INSTALLATION OF A SEPARATE GROUNDING CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS THAT IS SIZED PER CODE OR IS OF THE SIZE INDICATED ON THE DRAWINGS. SHALL BE CONTINUOUS IN LENGTH, AND SHALL BE BONDED TO EACH ENCLOSURE PASSED THROUGH CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING WIRE OR CIRCUIT.
BOND ALL METALLIC CONDUITS TOGETHER THAT ARE CONNECTED TO NON-METALLIC ENCLOSURES, IN-OR OUTDOORS, AND TO AN ENCLOSURE WHERE A GROUNDING CONDUCTOR IS PRESENT IN THE ENCLOSURE CONNECTED TO A GROUNDING TYPE BUSHING EQUALLY SIZED OR MAXIMUM GROUND WIRE ACCOMMODATION AVAILABLE IN STANDARD MANUFACTURE FOR THE CONDUIT SIZE, WHICHEVER IS LESS.

EQUIPMENT GROUNDING AND LOAD SIDE BONDING CONDUCTORS SHALL BE SIZED PER THE CIRCUITS OVER-CURRENT PROTECTIVE DEVICE (OCPD) SIZE. WHERE THE UNDERGROUND CONDUCTORS ARE IN-SIZE ABOVE THE STANDARD FOR THE CIRCUITS OCPD, INCREASE THE GROUNDING CONDUCTOR PROPORTIONATELY TO THE CROSS-SECTIONAL AREA OF THE UNDERGROUND CONDUCTORS.
SERVICE MAIN BONDING JUMPERS AND GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED AND INSTALLED PER THE MINIMUM OF ALL APPLICABLE CODES AND REGULATIONS.

26 LIGHTNING PROTECTION:
THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS AND THE GROUNDING SPECIFICATIONS FOR THE LIGHTNING PROTECTION GROUNDINGS SYSTEM (LPGS) SHALL CONSIST OF BONDING ALL EQUIPMENT AND CONDUCTIVE STRUCTURES TO LOCALIZED SINGLE-POINT GROUND CONNECTIONS (TYPICALLY GROUND BARS) WHICH ARE BONDED TOGETHER AND TO AN IN-GROUND SYSTEM. IF THE LPGS IS ON A BUILDING, IT SHALL BE EFFECTIVELY BONDED TO THE ELECTRICAL SERVICE MAIN AND TO ADDITIONAL IN-GROUND ELECTRODES AS MAY BE REQUIRED OR INDICATED. THE LPGS IS ON A DEDICATED COMMUNICATION SITE, ALL EQUIPMENT AREAS AND TOWERS SHALL EACH HAVE THEIR OWN IN-GROUND RING WITH EVERY RING BONDED TOGETHER, AND ALL CONDUCTIVE STRUCTURES (INCLUDING TELECOMMUNICATIONS BRIDGES, ISOLATED EQUIPMENT, ETC.) ALSO BONDED TO PROVIDE A COMMON ELECTRICAL EQUIPMENTAL SYSTEM FOR ALL CONDUCTIVE ELEMENTS AND STRUCTURES.
CONDUCTORS:

• MIN #2 AWG SOLID BARE TINNED COPPER (SBTC) FOR ALL IN-GROUND CONDUCTOR.
• MIN #2 AWG COPPER GREEN STRANDED FOR BONDING STRUCTURES, AND FOR INTER-SYSTEM BONDING OF INDIVIDUAL ELEMENTS SUCH AS GROUND BAR TO GROUND BAR.
• MIN #6 AWG COPPER GREEN STRANDED OR ALL EQUIPMENT BONDING.
• INSTALL ALL IN-GROUND CONDUCTORS IN THE SAME HORIZONTAL PLANE OR IN A DOWNWARD DIRECTION AWAY FROM THE TOWER AND EQUIPMENT AREAS.
• AVOID LONG RUNS. MAKE DIRECT RUNS AS MUCH AS POSSIBLE.
• PLACE THROUGH NON-METALLIC SLEEVES WHEN PASSING THROUGH FLOORS, WALLS, CEILINGS, AND SIMILAR STRUCTURES.
• MAKE ALL CONNECTIONS IN CONTACT WITH EARTH WITH EXOTHERMIC WELDING. MAKE ALL OTHER CONNECTIONS WITH EXOTHERMIC WELDING, PRESSURE DIE CAST COMPRESSION CONNECTORS, OR LISTED COMPRESSION TWO-HOLE LUGS.
• INSTALL ALL CONDUCTORS WITH A MINIMUM 18 INCH BEND RADIUS AND NO BENDS LONGER THAN 18 INCHES. ALL BENDS SHALL BE HORIZONTAL, OR DOWNWARD TOWARDS EARTH.
• ALL CONDUCTORS PASSING FROM ABOVE-GROUND TO IN-GROUND CONNECTIONS, WHERE EQUIPMENT SHALL BE COVERED AND PROTECTED WITH A NON-METALLIC CONDUIT SEALED AT BOTH ENDS.
• IF 2 OR MORE IN-GROUND CONDUCTORS ARE IN THE SAME PATH (2 RINGS OVERLAPPING, BONDING FOLLOWING ANOTHER RING OR RADIAL, OR SIMILAR), COMBINE WITH A SHARPED SINGLE CONDUCTOR.

EQUIPMENT AND TOWER GROUND RINGS SHALL BE:
• BONDED TO ANY CONDUCTIVE OBJECT OR STRUCTURE WITHIN 5 FEET OF EQUIPMENT ENCLOSURE AND WITHIN 20 FEET OF TOWER GROUND RINGS.
• INSTALLED MINIMUM 18 INCHES FROM FOUNDATIONS, FOOTINGS, AND SIMILAR.

INSTALL ALL IN-GROUND RINGS, RADIALS, BONDS CONNECTING THEM, AND ALL SIMILAR GROUNDING.
• MIN 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE, WHICHEVER IS GREATER DEPTH.
• MIN 2 FEET FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS, AND SIMILAR STRUCTURES, EXCEPT WHEN MAKING A BOND TO ANY OF THESE STRUCTURES. DO NOT BOND TO FOUNDATION INTERNAL REINFORCEMENT.
ALL EQUIPMENT GROUND IN A COMMON AREA COMPOUND, STRUCTURE, OR SIMILAR SHALL BE BONDED TO A SINGLE-POINT GROUND, PREFERABLY AN ISOLATED GROUND BAR. BOND THE GROUND BAR TO THE SYSTEM WITH MINIMUM 2 CONDUCTORS DIRECTED IN BONDING TO AN IN-GROUND RING. INSTALL 2 BONDING CONDUCTORS MINIMUM WITH EACH CONDUCTOR INSTALLED DIRECTLY AWAY FROM EACH OTHER AND PARALLEL TO THE IN-GROUND CONDUCTOR, WITH NO TIE CONNECTIONS.
TOWER GROUNDING:
• EACH TOWER LEG SHALL BE BONDED TO ITS RING. SINGLE-LEGGED TOWERS, OR MONOPOLES, SHALL HAVE 2 BONDS ON OPPOSITE SIDES.
• BOND TO TOWER BASE, NOT TO VERTICAL TOWER STRUCTURE, AWAY FROM TOWER MOUNTING HARDWARE.
• EACH BOND SHALL HAVE A CORRESPONDING GROUND ROD ON THE RING.
• EACH BOND SHALL CONSIST OF 2 CONDUCTORS FROM THE TOWER TO ITS RING WITH EACH CONDUCTOR DIRECTED IN OPPOSITE DIRECTIONS WITH A PARALLEL CONNECTION ON THE RING ON OPPOSITE SIDES OF THE GROUND ROD.
EQUIPMENT AREA GROUNDING:
• COMMUNICATION AREAS ON EARTH SHALL HAVE A GROUND RING.
• BOND ALL EQUIPMENT TO A SINGLE-POINT GROUND (GROUND BAR).
• BOND THE EQUIPMENT SINGLE-POINT GROUND TO THE EQUIPMENT GROUND RING WITH MINIMUM 2 CONDUCTORS DIRECTED IN OPPOSITE DIRECTIONS WITH PARALLEL CONNECTIONS ON THE RING.
• IF EQUIPMENT IS ENCLOSED IN A SHELTER.
• IF THE SHELTER IS CONSIDERED TO BE EXPOSED TO A DIRECT LIGHTNING STRIKE, INSTALL A BUILDING LIGHTNING PROTECTION SYSTEM PER APPLICABLE VERSION OF NFPA 780.
• BOND ALL FIXED CONDUCTIVE BUILDING COMPONENTS TOGETHER AND TO THE BUILDING RING GROUND AT THE CORNERS. THIS IS TYPICALLY CALLED THE HALO GROUND. DO NOT BOND EQUIPMENT TO THE HALO GROUND.
• BOND ALL EQUIPMENT TOGETHER TO A SINGLE-POINT OR INTERIOR EQUIPMENT RING GROUND (EQUIP). BOND THE SINGLE-POINT OR IEQR TO THE EXTERNAL EQUIPMENT RING GROUND.
• PLACE GROUND RODS AT THE EQUIPMENT GROUND RING CORNERS GROUND RODS.
• SEPARATION SPACE BETWEEN ANY 2 GROUND RODS SHALL BE NO CLOSER THAN THEIR DEPTH. THIS APPLIES TO ALL RODS IN THE COMPLETE SYSTEM.
• DRIVE VERTICALLY IN UNDISTURBED SOIL WITH THE TOP AT SAME DEPTH AS THE IN-GROUND CONDUCTOR. IF NOT POSSIBLE TO INSTALL VERTICALLY, PLACE AS CLOSE TO VERTICAL AS POSSIBLE AND IN A DIRECTION AWAY FROM THE NEAREST ABOVE-GROUND CONDUCTIVE ELEMENT (TOWER EQUIPMENT, ETC.)
RADIALS (TYP. NEW DEDICATED COMMUNICATION SITES):
• WHERE FEASIBLE WITH ENOUGH SPACE AVAILABLE, INSTALL A MINIMUM OF 4, MAXIMUM 10 RING RADIALS.
• EACH RADIALS LENGTH SHALL BE MIN 20 FT, MAX 80 FT.
• EXTEND RADIALS PERPENDICULAR FROM RINGS IN AS STRAIGHT LINE AS POSSIBLE, AWAY FROM OTHER RINGS, RADIALS, BONDS, AND SIMILAR.
• A COMMON PRACTICE IS TO PLACE 4 RADIALS FROM THE TOWER RING TO THE 4 CORNERS OF THE AVAILABLE AREA.
AT A MINIMUM, BOND ALL COMPOUND CONDUCTIVE FENCE CORNER POSTS AND GATE POSTS TO THE LPGS. PREFERABLY, INSTALL A GROUND RING THAT FOLLOWS THE FENCE LINE, BONDING ALL POSTS TO THE RING.

27 ANTENNAS & CABLES:
THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.
THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRANSMISSION CABLES, JUMPERS, CONNECTORS, GROUNDING STRAPS, ANTENNAS, CODE PLANT AND HARDWARE, AND ALL MATERIALS SHALL BE INSPECTED BY THE CONTRACTOR FOR DAMAGE UPON DELIVERY. JUMPERS SHALL BE SUPPLIED AT ANTENNAS AND EQUIPMENT INSIDE SHELTER COORDINATE LENGTH OF JUMPER CABLES WITH OWNER, COORDINATE AND VERIFY ALL OF THE MATERIALS TO BE PROVIDED WITH OWNER PRIOR TO SUBMITTING BID AND ORDERING MATERIALS.
AFTER INSTALLATION, THE TRANSMISSION LINE SYSTEM SHALL BE IRM / SWEEP TESTED FOR NEVER INSTALLATION AND DAMAGE WITH ANTENNAS CONNECTED. CONTRACTOR SHALL OBTAIN AND USE LATEST TESTING PROCEDURES FROM OWNER OR MANUFACTURER PRIOR TO BIDDING.
ANTENNA CABLES SHALL BE UNIQUELY COLOR-CODED AT THE ANTENNAS, BOTH SIDES OF EQUIPMENT SHEET AND JUMPER CABLES AT THE EQUIPMENT.
THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONNECTORS, ASSOCIATED CABLE MOUNTING AND GROUND THE HARDWARE, WALL,

MOUNTS, STANDOFFS, AND ALL ASSOCIATED HARDWARE TO INSTALL ALL CABLES AND ANTENNAS TO THE MANUFACTURERS AND OWNERS SPECIFICATIONS.
ANTENNA CABLES SHALL BE FOAM DIELECTRIC COAXIAL CABLES AS FOLLOWS:
• BASE STATION ANTENNAS:
• 7/8" DIAMETER FOR CABLE LENGTHS UP TO 100 FT.
• 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 100 FT.
• GPS ANTENNAS:
• 7/8" DIAMETER FOR CABLE LENGTHS UP TO 200 FT.
• 1-5/8" DIAMETER FOR CABLE LENGTHS GREATER THAN 200 FT.
MINIMUM BENDING RADIUS FOR COAXIAL CABLES SHALL BE:
• 15 FT FOR 7/8" COAXIAL CABLES.
• 25 FT FOR 1-5/8" COAXIAL CABLES.
CABLE SHALL BE INSTALLED WITH A MINIMUM NUMBER OF BENDS WHERE POSSIBLE. CABLE SHALL NOT BE LEFT UNTERMINATED AND SHALL BE SEALED IMMEDIATELY AFTER BEING INSTALLED.
ALL EXTERIOR CABLE CONNECTIONS SHALL BE COVERED WITH A WATERPROOF SPLICING KIT.
CONTRACTOR SHALL VERIFY EXACT LENGTH AND DIRECTION OF TRAVEL IN FIELD PRIOR TO CONSTRUCTION.
CABLE SHALL BE FURNISHED AND INSTALLED WITHOUT SPLICES AND WITH CONNECTORS AT EACH END.

27 CABLE TRAY:
THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.
CABLE TRAY SHALL BE MADE OF EITHER CORROSION RESISTANT METAL OR WITH A CORROSION RESISTANT FINISH.
CABLE TRAY SHALL BE OF LADDER TRAY TYPE WITH FLAT COVER CLAMPED TO SIDE RAILS.
CABLE LADDER SHALL BE SIZED TO FIT ALL CABLES IN ACCORDANCE WITH NEC AND NEMA 11-15-84.
CABLE LADDER TRAYS SHALL BE NEMA CLASS 12A BY PV INDUSTRIES, INC. OR EQUAL.
CABLE LADDER TRAY SHALL BE SUPPORTED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
ALL WORKMANSHIP SHALL CONFORM TO THESE REQUIREMENTS AND ALL LOCAL, CODES AND STANDARDS TO ENSURE SAFE AND ADEQUATE GROUNDING SYSTEM.

CONTRACTOR SHALL VERIFY EXACT LENGTH AND DIRECTION OF TRAVEL IN FIELD PRIOR TO CONSTRUCTION.
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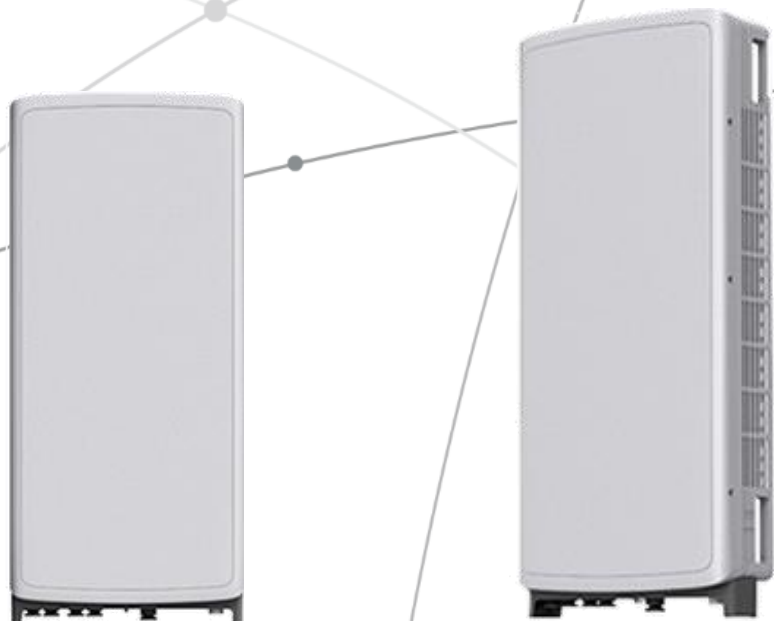
CONTRACTOR SHALL VERIFY EXACT LENGTH AND DIRECTION OF TRAVEL IN FIELD PRIOR TO CONSTRUCTION.
CABLE SHALL BE FURNISHED AND INSTALLED WITHOUT SPLICES AND WITH CONNECTORS AT EACH END.

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A



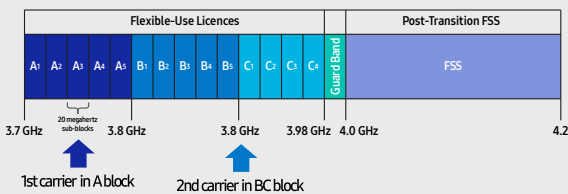
Points of Differentiation

Wide Bandwidth

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

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

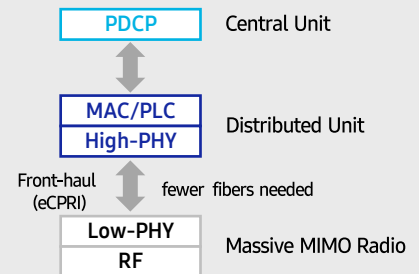
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

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

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

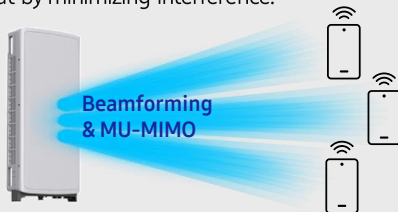


Enhanced Performance

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

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

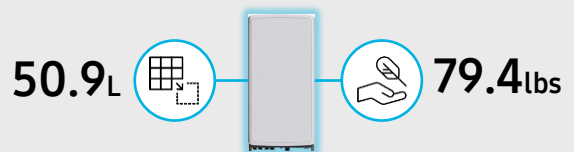
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

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

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



Technical Specifications

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



SAMSUNG



About Samsung Electronics Co., Ltd.

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

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

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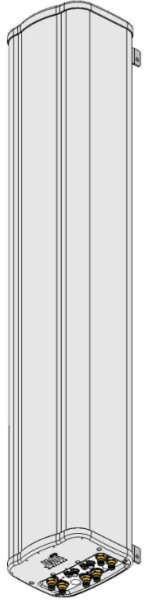
MX06FIT665-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 65°



X-Pol, Hex-Port 6 ft 65° Form In Tighter with Smart Bias T (2) 698–894 MHz & (4) 1695–2180 MHz

- Excellent Passive Intermodulation (PIM) performance reduces harmful interference
- Fully integrated (iRETs) with *independent* RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM Air interface technologies
- Integrated Smart BIAS-Ts reduces leasing costs
- Optimized width for reduced wind loading



Electrical Specification (Minimum/ Maximum)	Ports 1,2		Ports 3,4,5,6		
	698–798	824–894	1695–1880	1850–1990	1920–2180
Frequency bands, MHz	698–798	824–894	1695–1880	1850–1990	1920–2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.8	17.8	18.1	18.2
Horizontal beamwidth (HBW), degrees ¹	66.0	57.0	63.0	63.0	58.0
Front-to-back ratio, co-polar power @180°± 30°, dB	>22	>22.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>17.0	>15.6	>23	>18	>18
Sector power ratio, percent ¹	<5.0	<3.0	<4.6	<3.8	<5.0
Vertical beamwidth, (VBW), degrees ¹	13.5	12.0	6.0	5.5	5.4
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤ -17.0	≤ -16.0	≤ -17.0	≤ -16.0	≤ -16.0
Minimum cross-polar isolation, port-to-port, dB	25	25	25	25	25
Maximum VSWR/ return loss, dB	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0
Maximum passive Intermodulation (PIM), 2x 20W carrier, dBc	-153	-153	-153		
Maximum input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

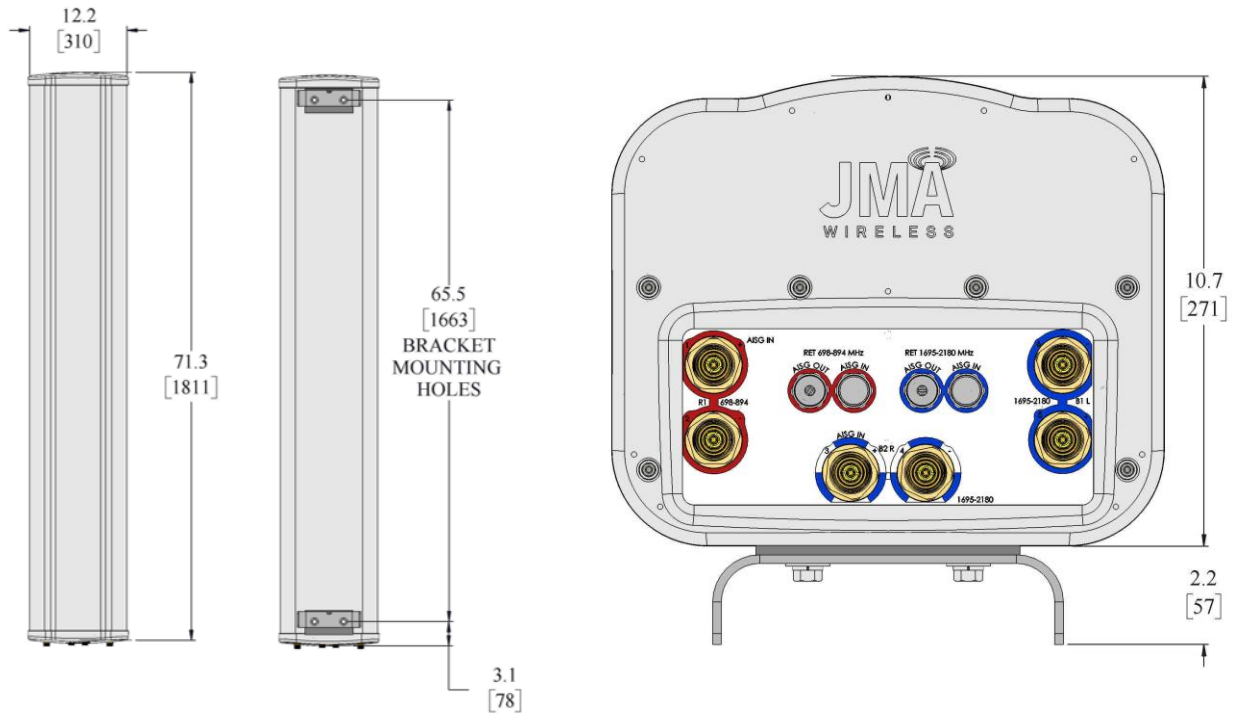
¹ Typical value over frequency and tilt

MX06FIT665-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 65°



Mechanical Specifications	
Dimensions height/ width/ depth, inches (mm)	71.3/ 12.2/ 10.7 (1811/ 310/ 271)
Shipping dimensions length/ width/ height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type & location	6 x 4.3-10 female, bottom
RF connector torque	96 in- lb (10.85 N-M or 8 ft-lbs)
Net antenna weight, lb (kg)	51 (23.18)
Shipping weight, lb (kg)	91 (41.36)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/ down tilt	-2° to 12°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral & rear wind loading @ 150 km/h, lbf (N)	87 (386), 68 (301), 109 (485)
Equivalent flat plate @100 mph and Cd=2, sq. ft.	1.42

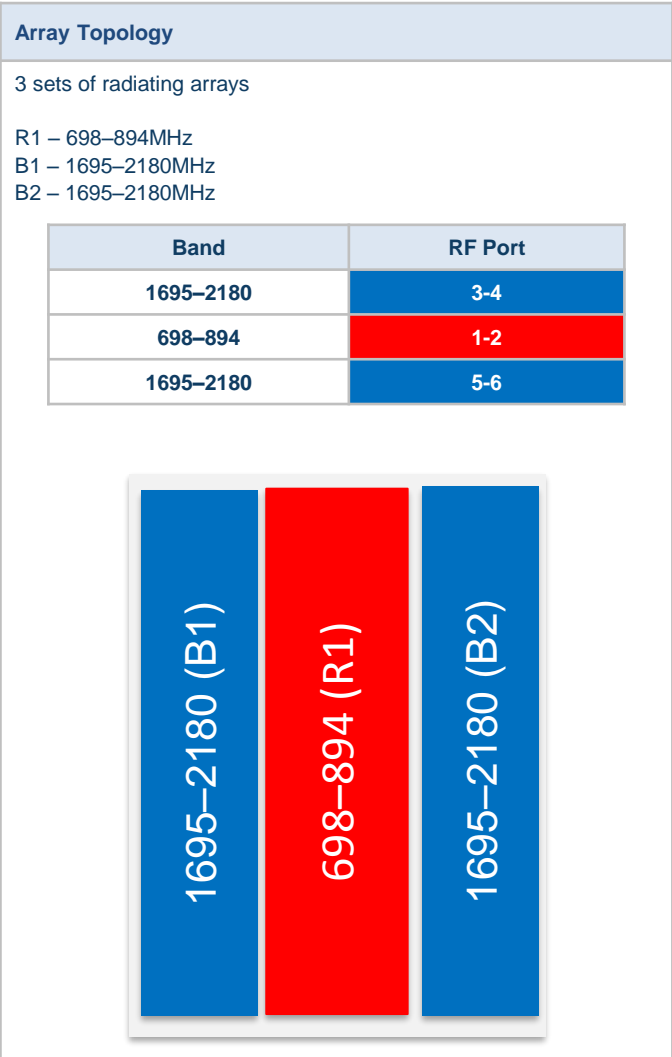
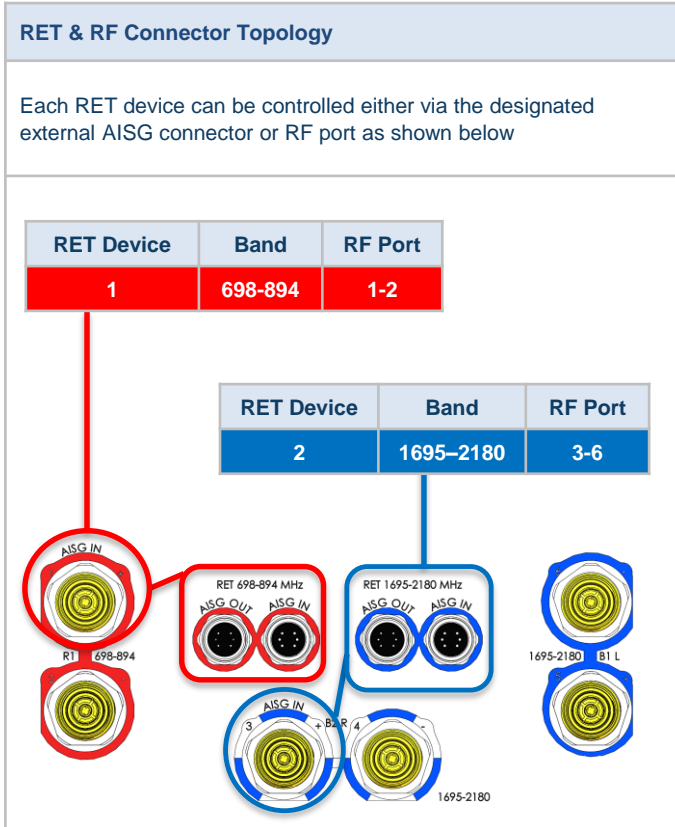


Ordering Information	
Antenna Model	Description
MX06FIT665-02	6F X- Pol HEX FIT 65° 2-14°/ 0-9° RET, 4.3-10 & SBT
Optional Accessories	
992100-CA030-SC	Optional AISG jumper cable, M/F, 3.0 meters
PCU-1000	Primary control unit, USB

MX06FIT665-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 65°

Remote Electrical Tilt (RET 1000) Information	
RET location	Integrated into antenna
RET interface connector type	8 Pin AISG connector per IEC 60130-9
RET interface connector quantity	2 pairs of AISG male/ female connectors
RET interface connector location	Bottom of the antenna
Total No. of internal RETs low bands	1
Total No. of internal RETs high bands	1
RET input operating voltage, vdc	10-30
RET max. power consumption, idle state, W	≤ 2.0
RET max. power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0/ 3GPP



SAMSUNG

Dual-Band Radio Unit AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

ATTACHMENT 3

	General	Power	Density					
Site Name: Bethel W								
Tower Height: Verizon @ 137ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
*AT&T-UMTS	2	414	127	850	0.0203	0.5667	0.36%	
*AT&T-PCS-UMTS	2	656	127	1900	0.0322	1.0000	0.32%	
*AT&T-LTE	2	1117	127	700	0.0549	0.4667	1.18%	
*AT&T-PCS-LTE	2	1942	127	1900	0.0954	1.0000	0.95%	
*T-Mobile	2	2334	117	2100	0.1362	1.0000	1.36%	
*T-Mobile	1	1556	117	2100	0.0454	1.0000	0.45%	
*T-Mobile	2	789	117	600	0.0461	0.4000	1.15%	
*T-Mobile	2	432	117	700	0.0252	0.4667	0.54%	
*Nextel iDEN	24	100	146	851	0.0440	0.5673	0.78%	
*Clearwire	2	153	157	2496	0.0048	1.0000	0.05%	
*Clearwire	1	211	157	11 GHz	0.0033	1.0000	0.03%	
*Sprint	4	13	157.4	1900	0.0008	1.0000	0.01%	
*Sprint	1	12	157.4	850	0.0002	0.5667	0.00%	
*Sprint	2	13	157.4	2500	0.0004	1.0000	0.00%	
*Sprint	3	562	157	2657	0.0266	1.0000	0.27%	
*Sprint	2	4	157	22500	0.0001	1.0000	0.00%	
*Sprint	2	4	157	22500	0.0001	1.0000	0.00%	
VZW 700	4	2410	137	0.0046	751	0.5007	0.92%	
VZW CDMA	2	998	137	0.0019	877.26	0.5848	0.33%	
VZW Cellular	4	2767	137	0.0053	874	0.5827	0.91%	
VZW PCS	4	5036	137	0.0096	1980	1.0000	0.96%	
VZW AWS	4	5153	137	0.0099	2120	1.0000	0.99%	
VZW CBAND	4	26125	137	0.0501	3730.005	1.0000	5.01%	
								16.58%
* Source: Siting Council								

ATTACHMENT 4

SBA Communications Corporation
8051 Congress Avenue
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sbsite.com



Structural Analysis Report

Client: Verizon

Client Site ID / Name: 467991 / Bethel_West_CT
Application #: 146751, v1

SBA Site ID / Name: CT00248-S / North Bethel

155 ft Monopole

11 Francis J. Clarke Circle
Bethel, Connecticut 06801
Lat: 41.360522, Long: -73.424475

Project number: CT00248-VZW-031921

Analysis Results

Tower	51.15%	Pass
Foundation	60.00%	Pass

Change in tower stress due to mount modification / replacement	N/A
--	-----

Prepared by:

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March 23, 2021



03/23/21

Table of Contents

Introduction.....	3
Analysis Criteria	3
Appurtenance Loading	4
Existing Loading:	4
Proposed Loading:	5
Analysis Results	6
Tower.....	6
Foundation.....	6
Conclusions.....	7
Installation Requirements.....	7
Assumptions and Limitations	8
Assumptions	8
Limitations.....	8
Appendix	9
Tower Geometry.....	
Coax Layout.....	
TESPole Report.....	
Foundation Analysis Report.....	

Introduction

The purpose of this report is to summarize the analysis results on the 155 ft Monopole to support the proposed antennas and transmissions lines in addition to those currently installed.

Table 1 List of Documents Used

Item	Document
Tower design/drawings	Summit Manufacturing LLC., Job # 4071 Dated 10/22/1998
Foundation drawings	PJF, Job # 29200-1210 Dated 08/17/2000
Geotechnical report	N/A
Modification drawings	N/A
Latest SA	TES Project Number 79535, dated 06/26/2019

Analysis Criteria

Table 2 Code Related Data

Jurisdiction (State/County/City)	Connecticut/Fairfield/Bethel
Governing Codes	ANSI/TIA/EIA 222-G, 2015 IBC
Basic /Wind Speed (3-Sec gust)	93.0 mph (Ultimate Wind Speed: 120 mph)
Wind Speed with Ice (3-Sec gust)	50 mph (3-Sec. Gust)
Service Wind Speed (3-Sec gust)	60 mph
Ice Thickness	0.75"
Structural Class	II
Exposure Category	B
Topographic Category	1
Crest Height	0 ft
Ground Elevation	976.39 ft.
Seismic Parameter S_s**	0.218
Seismic Parameter S_1	0.067

*This structural analysis is based upon the tower being classified as a structural 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.

**Earthquake effects were ignored as per section 2.7.3 of the TIA-222-G code provisions for $S_s < 1.0$.

Appurtenance Loading

Existing Loading:

Table 3 Existing Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	157.4	3	RFS - APXVSP18-C-A20 - Panel	Low Profile Platform & Collar Mount	(4) 1 1/4"	Sprint
2		3	RFS - APXVTM14-C-120 - Panel			
3		3	Alcatel - 800MHz External Notch Filter			
4		3	Alcatel - 1900MHz RRH - RRU			
5		3	Alcatel - TD-RRH8x20-25 - RRH			
6		4	RFS - ACU-A20-N - RET			
7		3	Alcatel - 800 MHz RRH - RRU			
8	137.0	6	Commscope - SBNHH-1D65B - Panel	Low Profile Platform	(6) 1 5/8" (1) 12x24 - 1 5/8" Hybrid	Verizon
9		2	Antel - LPA-80080-6CF - Panel			
10		2	Antel - LPA-80063/6CF_5 - Panel			
11		2	Antel - LPA-80080/4CF__ - Panel			
12		3	Alcatel - 4X45 RRH AWS - RRU			
13		3	Alcatel - RRH2X60-PCS - RRU			
14		3	Alcatel - RRH2X60-700 - RRU			
15		6	RFS - FD9R6004/2C-3L - Diplexer			
16	2	RFS - DB-T1-6Z-8AB-0Z - Dist. Box	Low Profile Platform	(9) 1 1/4" (1) 1/2" Fiber (2) 3/4" DC	AT&T	
17	3	Powerwave - 7770 - Panel				
18	3	Powerwave - P65-16-XLH-RR - Panel				
19	3	Ericsson - RRUS 12 - RRU				
20	6	Kathrein - 860 10025 - RET				
21	1	Raycap - DC6-48-60-18-8F - SP				
22	3	Ericsson - RRU 11 - RRU				
23	6	Powerwave - LGP21401 - TMA	(3) T-Arms (Valmont P/N RMV12-3xx)	⁽¹⁾ (12) 1 5/8" ⁽²⁾ (1) 1 5/8" Hybrid	T-Mobile	
24	3	Ericsson - Air 21 B2A/B4P - Panel				
25	117.0	3	Ericsson - Air 21 B4A/B2P - Panel			

Note: AT&T loading includes FirstNET equipment

1. The (12)1 5/8" Coax and are considered double stacked running outside of the pole shaft
2. The (1) 1 5/8" Hybrid is considered running outside of the pole shaft

Proposed Loading:

Information pertaining to proposed antennas and transmission lines were based upon the Application #:146751, v1 from Verizon and is listed in Table 4.

Table 4 Proposed Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
	137.0	2	Antel - LPA-80080-6CF – Panel	Low Profile Platform	(6) 1 5/8" (1) 12x24 - 1 5/8" Hybrid	Verizon
		2	Antel - LPA-80063/6CF_5 - Panel			
		2	Antel - LPA-80080/4CF - Panel			
		6	JMA - MX06FIT665-02 - Panel			
		3	Samsung - 64T64R - Panel			
		3	Samsung - B2/B66A RRH-BR049 - RRU			
		3	Samsung - B5/B13 RRH-BR04C - RRU			
		1	Commscope - RCMDC-6627-PF-48 - Raycap			



Analysis Results

Tower

The results of the structural analysis are shown below in table 5. Additional information for the tower analysis is provided within the Appendix.

Table 5 Tower Analysis Summary

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	51.15%	39%	47%
Pass/Fail	Pass	Pass	Pass

Foundation

The results of the foundation analysis are shown below in table 6. Additional information for the foundation analysis is provided within the Appendix.

Table 6 Foundation Analysis Summary

Structural Component	Max Usage (%)	Analysis Result
Foundation	60%	Pass

Conclusions

Based on the analysis results, the existing tower and foundation were found to be sufficient to safely support the equipment listed in this analysis. No modification to the tower and foundation is needed at this time.

Installation Requirements

This analysis was performed under the assumption that the carrier will place the proposed equipment and feed lines at the installation height listed in Table 4 and in accordance with the coax layout shown. TMAs and RRUs are to be installed on existing mounts behind tenant's antennas unless otherwise noted. No equipment is to be installed directly in the climbing path. All equipment is to be installed per mount manufacturer specifications. In case site conditions do not allow for the required installation parameters to be met the carrier must notify SBA Communications Corporation engineers for approval of an alternative placement.

Assumptions and Limitations

Assumptions

This analysis was completed based on the following assumptions:

- Tower and foundation were built in accordance to manufacturer specifications.
- Tower and foundation has been properly maintained in accordance with the manufacturer's specifications
- All existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion
- Welds and bolts are assumed able to carry their intended original design loads.
- The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 3 and 4.
- This analysis may be affected if any assumptions are not valid or have been made in error. SBA should be notified to determine the effect on the structural integrity of the tower.

Limitations

The computer generated analysis performed by the tower software is limited to theoretical capacities of the towers structural members and does not account for any missing or damaged members or connections. The tower and foundation are assumed to have been properly designed, fabricated, installed and maintained, barring any conflicting findings from the most recent inspection.

SBA Communications Corporation has used its due diligence to verify the information provided to perform this analysis. It is unreasonable to perform a more detailed inspection of a tower and its components. This report is not a condition assessment of the tower or foundation.

Appendix

Usage Diagram - Max Ratio 51.15% at 0.0ft

Structure: CT00248-S
Site Name: North Bethel
Height: 155.00 (ft)
Base Elev: 1.000 (ft)

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

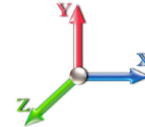
3/23/2021



Page: 1

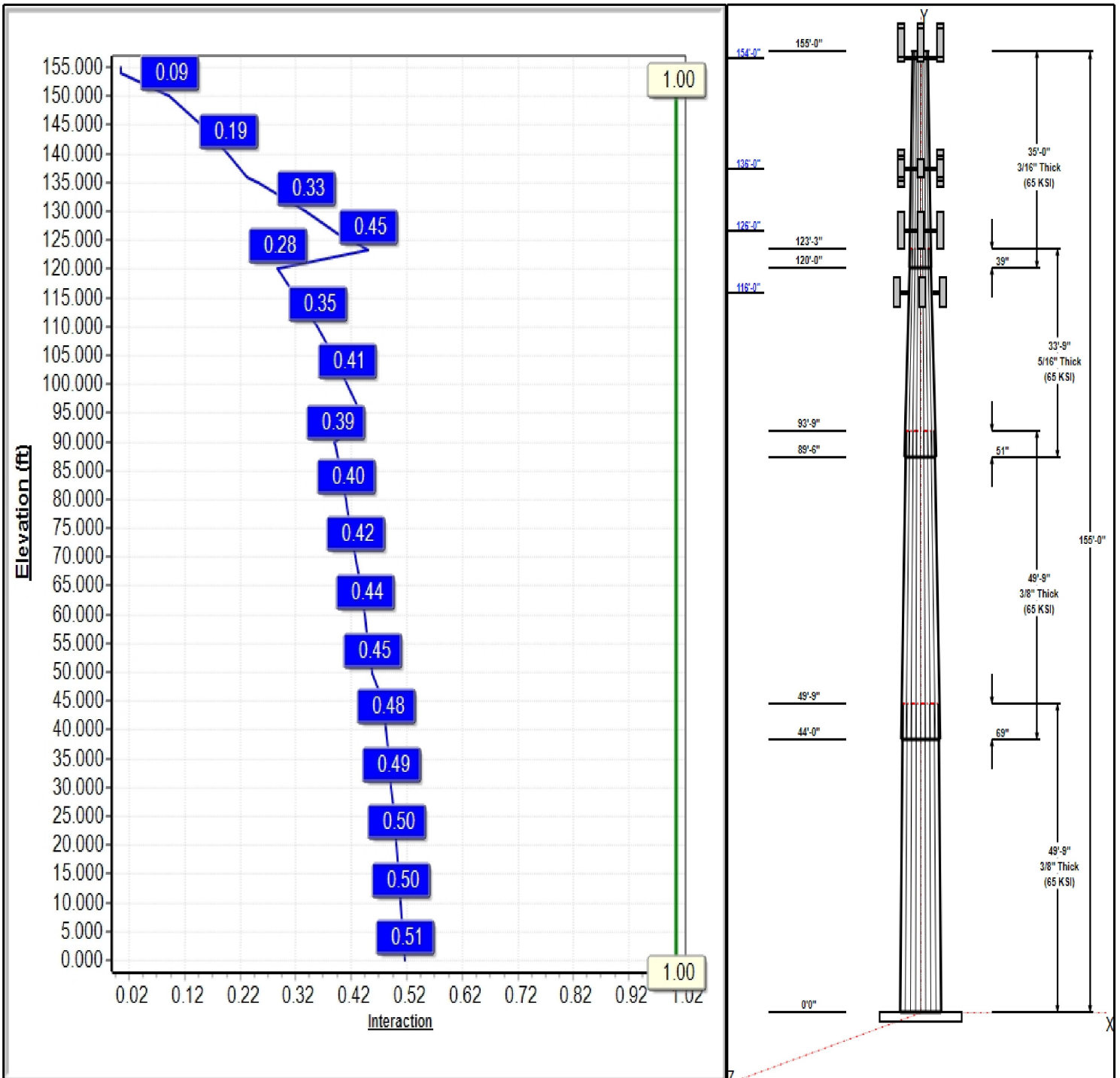
Dead Load Factor: 1.20
 Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 93 mph Wind



Iterations: 24

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Structure: CT00248-S

Type: Tapered
Site Name: North Bethel
Height: 155.00 (ft)
Base Elev: 1.00 (ft)

Base Shape: 18 Sided
Taper: 0.27148

3/23/2021

Page: 2



Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	49.75	43.32	56.83	0.375		0.27148	65
2	49.75	32.13	45.63	0.375	Slip	0.27148	65
3	33.75	24.74	33.91	0.313	Slip	0.27148	65
4	35.00	16.50	26.00	0.188	Slip	0.27148	65

Discrete Appurtenances

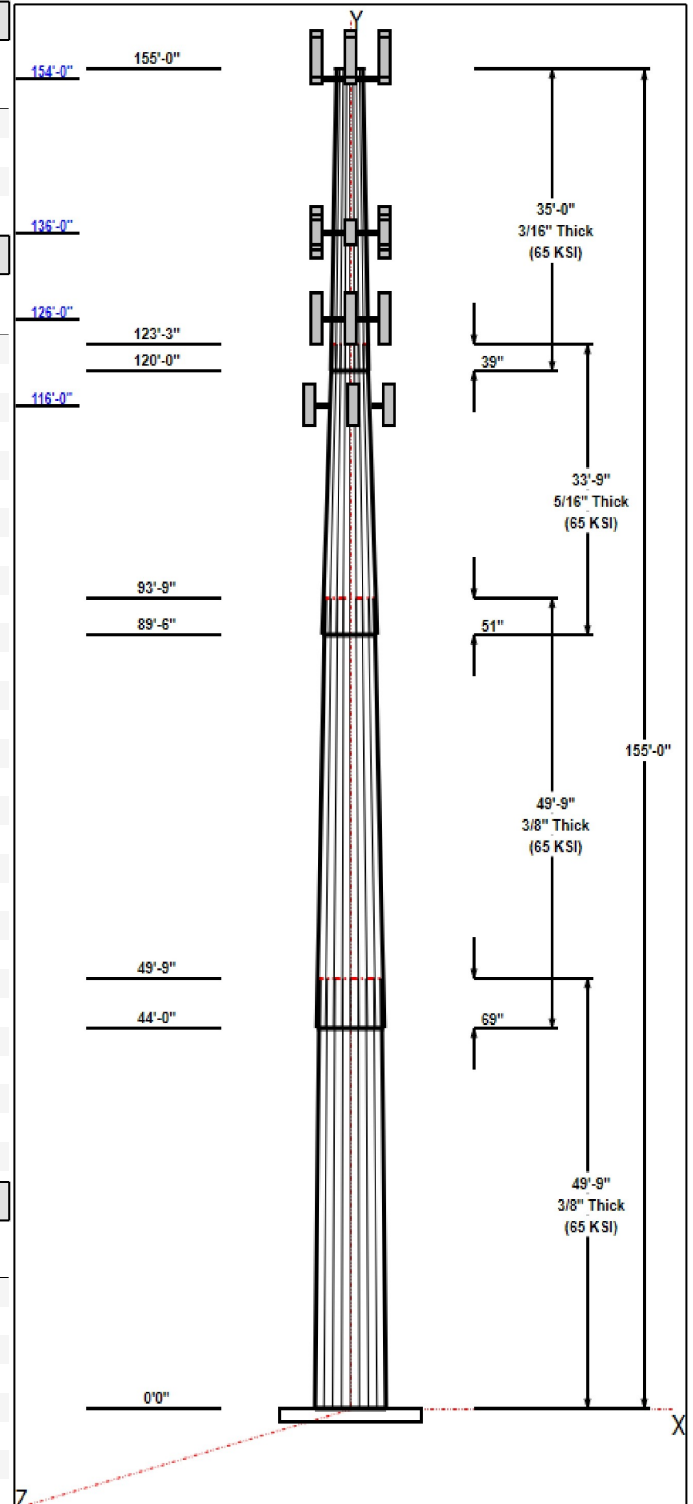
Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
155.00	155.00	1	6' Lightning rod	Sprint
154.00	156.40	3	APXVSPP18-C-A20	Sprint
154.00	156.40	4	ACU-A20-N	Sprint
154.00	156.40	3	APXVTM14-C-120	Sprint
154.00	156.40	3	TD-RRH8x20-25	Sprint
154.00	156.40	3	800 MHz RRH	Sprint
154.00	156.40	3	ALU 800MHz External	Sprint
154.00	156.40	3	1900MHz RRH	Sprint
154.00	154.00	1	Low Profile Platform	Sprint
154.00	154.00	1	Collar Mount	Sprint
136.00	136.00	6	JMA - MX06FIT665-02	Verizon
136.00	136.00	3	Samsung - VZS01	Verizon
136.00	136.00	3	Samsung - B2/B66A	Verizon
136.00	136.00	1	Commscope -	Verizon
136.00	136.00	3	Samsung - B5/B13	Verizon
136.00	136.00	2	LPA-80080/4CF	Verizon
136.00	136.00	2	LPA-80080-6CF	Verizon
136.00	136.00	2	LPA-80063/6CF_5	Verizon
136.00	136.00	1	Low Profile Platform	Verizon
126.00	126.00	3	RRU 11	AT&T
126.00	126.00	3	P65-16-XLH-RR	AT&T
126.00	126.00	3	RRUS 12	AT&T
126.00	126.00	6	860 10025	AT&T
126.00	126.00	1	DC6-48-60-18-8F	AT&T
126.00	126.00	3	7770	AT&T
126.00	126.00	6	LGP21401	AT&T
126.00	126.00	1	Low Profile Platform	AT&T
116.00	116.00	3	T-Arms	T-Mobile
116.00	116.00	6	Air 21 B4A/B2P	T-Mobile

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	154.00	Inside	1 1/4" Coax	Sprint
0.00	136.00	Inside	1 5/8" Coax	Verizon
0.00	136.00	Inside	12x24 - 1 5/8" Hybrid	Verizon
0.00	126.00	Inside	1 1/4" Coax	AT&T
0.00	126.00	Inside	1/2" Fiber	AT&T
0.00	126.00	Inside	3/4" DC	AT&T
0.00	116.00	Outside	1 5/8" Coax	T-Mobile
0.00	116.00	Outside	1 5/8" Hybrid	T-Mobile

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
20	2.25" 18J	75.0	Cluster



Structure: CT00248-S

Type: Tapered **Base Shape:** 18 Sided 3/23/2021
Site Name: North Bethel **Taper:** 0.27148
Height: 155.00 (ft)
Base Elev: 1.00 (ft) Page: 3



Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.7500	64.0	50.0	Clipped

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 93 mph Wind	2527.6	22.5	41.9
0.9D + 1.6W 93 mph Wind	2502.7	22.5	31.4
1.2D + 1.0Di + 1.0Wi 50 mph Wind	770.8	6.9	68.7
1.2D + 1.0E	193.3	1.7	41.9
0.9D + 1.0E	191.2	1.7	31.5
1.0D + 1.0W 60 mph Wind	653.7	5.9	35.0

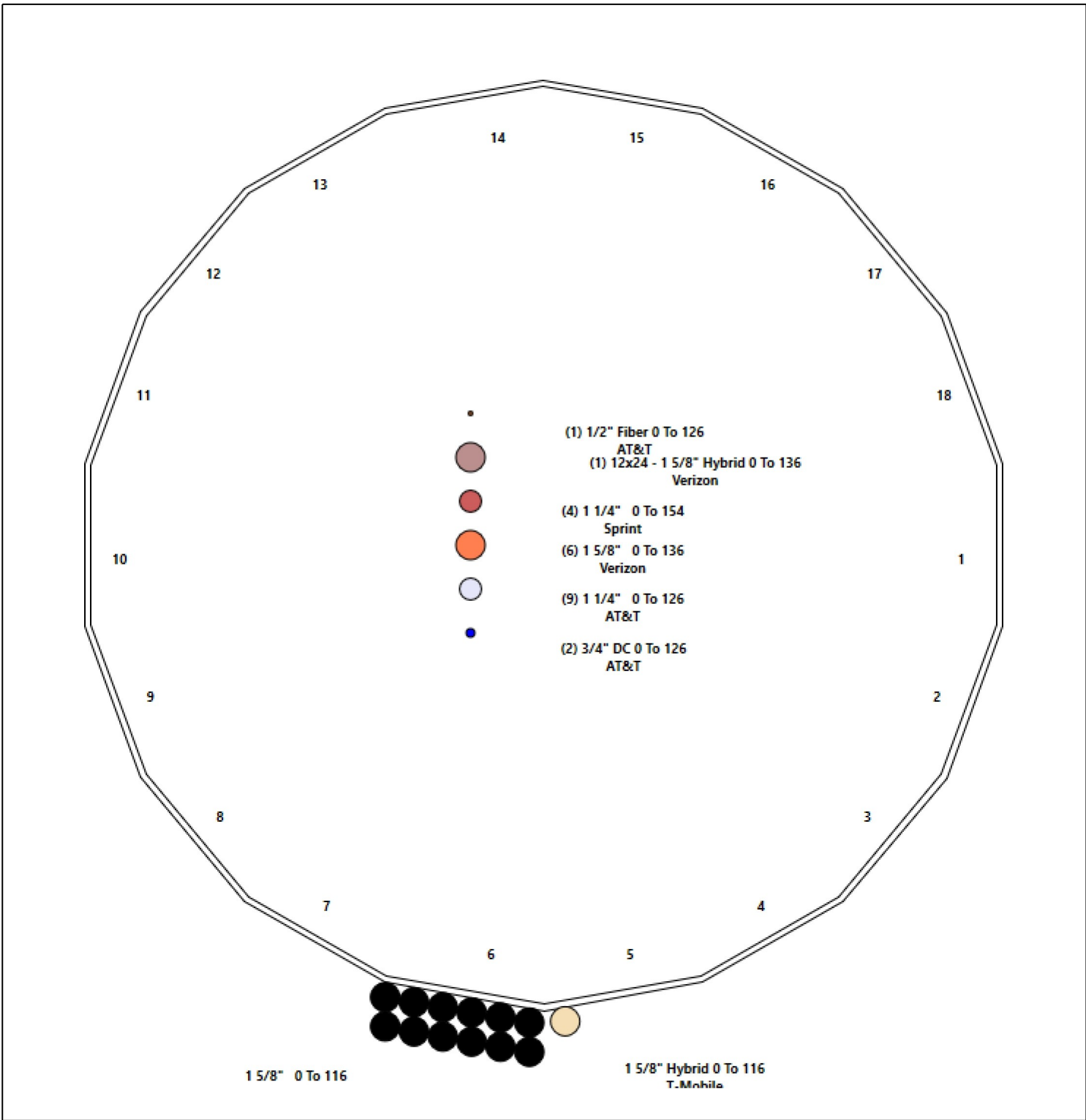
Structure: CT00248-S - Coax Line Placement

Type: Monopole
Site Name: North Bethel
Height: 155.00 (ft)

3/23/2021



Page: 4



Shaft Properties

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (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	49.750	0.3750	65		0.00	10,014
2	18	49.750	0.3750	65	Slip	69.00	7,759
3	18	33.750	0.3125	65	Slip	51.00	3,305
4	18	35.000	0.1875	65	Slip	39.00	1,493
Total Shaft Weight:							22,571

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	56.83	0.00	67.19	27057.20	25.31	151.55	43.32	49.75	51.12	11913.1	18.96	115.5	0.271484
2	45.63	44.00	53.87	13941.55	20.05	121.69	32.13	93.75	37.79	4814.44	13.70	85.68	0.271484
3	33.91	89.50	33.32	4751.23	17.72	108.50	24.74	123.25	24.23	1827.58	12.55	79.18	0.271484
4	26.00	120.0	15.36	1293.40	23.04	138.68	16.50	155.00	9.71	326.37	14.11	88.00	0.271484

Load Summary

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (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	155.00	6' Lightning rod	1	6.50	0.38	1.00	42.94	1.472	1.00	0.00	0.00
2	154.00	APXVSP18-C-A20	3	57.00	8.02	0.82	230.42	10.823	0.82	0.00	2.40
3	154.00	ACU-A20-N	4	1.00	0.14	1.00	5.31	0.438	1.00	0.00	2.40
4	154.00	APXVTM14-C-120	3	56.00	6.34	0.76	217.04	7.457	0.77	0.00	2.40
5	154.00	TD-RRH8x20-25	3	70.00	4.05	0.68	180.90	4.866	0.69	0.00	2.40
6	154.00	800 MHz RRH	3	53.00	2.49	0.92	127.20	3.638	0.92	0.00	2.40
7	154.00	ALU 800MHz External Notch Filt	3	8.80	0.78	0.69	26.50	1.429	0.72	0.00	2.40
8	154.00	1900MHz RRH	3	44.00	3.80	1.00	153.52	5.195	1.00	0.00	2.40
9	154.00	Low Profile Platform	1	1200.00	25.00	1.00	2250.57	46.011	1.00	0.00	0.00
10	154.00	Collar Mount	1	250.00	5.00	0.75	862.83	13.755	0.75	0.00	0.00
11	136.00	JMA - MX06FIT665-02	6	51.00	8.15	0.95	267.27	9.390	0.95	0.00	0.00
12	136.00	Samsung - VZS01	3	87.10	4.70	0.70	198.27	5.594	0.71	0.00	0.00
13	136.00	Samsung - B2/B66A RRH-BR049	3	70.30	1.88	0.77	117.96	2.420	0.79	0.00	0.00
14	136.00	Commscope - RCMDC-6627-PF-48	1	45.00	4.80	0.71	159.09	5.640	0.72	0.00	0.00
15	136.00	Samsung - B5/B13 RRH-BR04C	3	84.10	1.88	0.83	134.19	2.420	0.85	0.00	0.00
16	136.00	LPA-80080/4CF	2	12.00	5.40	0.74	139.15	6.360	0.76	0.00	0.00
17	136.00	LPA-80080-6CF	2	21.00	8.63	0.75	212.01	9.896	0.77	0.00	0.00
18	136.00	LPA-80063/6CF_5	2	27.00	9.60	0.95	288.10	10.915	0.95	0.00	0.00
19	136.00	Low Profile Platform	1	1200.00	25.00	1.00	2237.68	45.754	1.00	0.00	0.00
20	126.00	RRU 11	3	55.00	4.42	0.68	143.47	5.895	0.69	0.00	0.00
21	126.00	P65-16-XLH-RR	3	53.00	8.16	0.75	215.33	10.916	0.75	0.00	0.00
22	126.00	RRUS 12	3	60.00	2.70	0.67	125.91	3.349	0.69	0.00	0.00
23	126.00	860 10025	6	1.20	0.18	0.70	7.10	0.553	0.72	0.00	0.00
24	126.00	DC6-48-60-18-8F	1	31.80	1.47	1.00	92.60	2.158	1.00	0.00	0.00
25	126.00	7770	3	35.00	5.50	0.75	167.44	6.546	0.75	0.00	0.00
26	126.00	LGP21401	6	14.10	1.29	0.64	38.69	2.112	0.66	0.00	0.00
27	126.00	Low Profile Platform	1	1500.00	22.00	1.00	2787.31	39.370	1.00	0.00	0.00
28	116.00	T-Arms	3	350.00	8.00	0.75	588.33	14.810	0.75	0.00	0.00
29	116.00	Air 21 B4A/B2P	6	90.40	6.09	0.86	254.36	7.159	0.86	0.00	0.00
Totals:			83	8,547.40			21,016.80				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	154.00	(4) 1 1/4" Coax	0.00	Inside
0.00	136.00	(6) 1 5/8" Coax	0.00	Inside
0.00	136.00	(1) 12x24 - 1 5/8" Hybrid	0.00	Inside
0.00	126.00	(9) 1 1/4" Coax	0.00	Inside
0.00	126.00	(1) 1/2" Fiber	0.00	Inside
0.00	126.00	(2) 3/4" DC	0.00	Inside
0.00	116.00	(12) 1 5/8" Coax	3.96	Outside
0.00	116.00	(1) 1 5/8" Hybrid	0.00	Outside

Shaft Section Properties

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 7

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		0.3750	56.830	67.193	27057.2	25.31	151.55	71.6	937.7	0.0
5.00		0.3750	55.473	65.578	25152.0	24.67	147.93	72.4	893.1	1129.5
10.00		0.3750	54.115	63.962	23338.5	24.03	144.31	73.1	849.4	1102.0
15.00		0.3750	52.758	62.346	21614.3	23.40	140.69	73.9	806.9	1074.5
20.00		0.3750	51.400	60.731	19977.1	22.76	137.07	74.6	765.5	1047.0
25.00		0.3750	50.043	59.115	18424.8	22.12	133.45	75.4	725.2	1019.5
30.00		0.3750	48.685	57.499	16955.1	21.48	129.83	76.1	685.9	992.0
35.00		0.3750	47.328	55.884	15565.7	20.84	126.21	76.9	647.8	964.5
40.00		0.3750	45.971	54.268	14254.3	20.21	122.59	77.6	610.7	937.1
44.00	Bot - Section 2	0.3750	44.885	52.976	13259.9	19.69	119.69	78.2	581.9	729.9
45.00		0.3750	44.613	52.653	13018.7	19.57	118.97	78.4	574.8	362.5
49.75	Top - Section 1	0.3750	44.074	52.010	12548.2	19.31	117.53	0.0	0.0	1691.7
50.00		0.3750	44.006	51.930	12489.8	19.28	117.35	78.7	559.0	44.2
55.00		0.3750	42.648	50.314	11360.0	18.64	113.73	79.5	524.6	869.8
60.00		0.3750	41.291	48.698	10300.4	18.00	110.11	80.2	491.3	842.3
65.00		0.3750	39.934	47.083	9308.9	17.37	106.49	81.0	459.1	814.8
70.00		0.3750	38.576	45.467	8383.1	16.73	102.87	81.7	428.0	787.3
75.00		0.3750	37.219	43.852	7520.8	16.09	99.25	82.5	398.0	759.8
80.00		0.3750	35.861	42.236	6719.8	15.45	95.63	82.5	369.1	732.3
85.00		0.3750	34.504	40.620	5977.8	14.81	92.01	82.5	341.2	704.9
89.50	Bot - Section 3	0.3750	33.282	39.166	5358.6	14.24	88.75	82.5	317.1	610.9
90.00		0.3750	33.146	39.005	5292.5	14.18	88.39	82.5	314.5	123.1
93.75	Top - Section 2	0.3125	32.753	32.176	4278.3	17.07	104.81	0.0	0.0	907.0
95.00		0.3125	32.414	31.840	4145.5	16.88	103.72	81.5	251.9	136.1
100.00		0.3125	31.057	30.493	3641.5	16.11	99.38	82.4	230.9	530.3
105.00		0.3125	29.699	29.147	3180.1	15.35	95.04	82.5	210.9	507.4
110.00		0.3125	28.342	27.801	2759.5	14.58	90.69	82.5	191.8	484.4
115.00		0.3125	26.984	26.454	2377.7	13.82	86.35	82.5	173.5	461.5
116.00		0.3125	26.713	26.185	2305.8	13.66	85.48	82.5	170.0	89.6
120.00	Bot - Section 4	0.3125	25.627	25.108	2032.8	13.05	82.01	82.5	156.2	349.1
123.25	Top - Section 3	0.1875	25.120	14.837	1165.3	22.21	133.97	0.0	0.0	439.8
125.00		0.1875	24.645	14.554	1099.9	21.77	131.44	75.8	87.9	87.5
126.00		0.1875	24.373	14.393	1063.7	21.51	129.99	76.1	86.0	49.3
130.00		0.1875	23.287	13.747	926.7	20.49	124.20	77.3	78.4	191.5
135.00		0.1875	21.930	12.939	772.8	19.21	116.96	78.8	69.4	227.0
136.00		0.1875	21.658	12.777	744.2	18.96	115.51	79.1	67.7	43.8
140.00		0.1875	20.572	12.131	636.9	17.94	109.72	80.3	61.0	169.5
145.00		0.1875	19.215	11.323	517.9	16.66	102.48	81.8	53.1	199.5
150.00		0.1875	17.857	10.515	414.8	15.38	95.24	82.5	45.8	185.8
154.00		0.1875	16.771	9.869	342.9	14.36	89.45	82.5	40.3	138.7
155.00		0.1875	16.500	9.708	326.4	14.11	88.00	82.5	39.0	33.3

22570.6

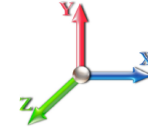
Wind Loading - Shaft

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 8



Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 24

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	14.724	16.20	374.18	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	14.724	16.20	365.24	0.650	0.000	5.00	23.757	15.44	400.2	0.0	1355.4
10.00		1.00	0.70	14.724	16.20	356.30	0.650	0.000	5.00	23.183	15.07	390.5	0.0	1322.4
15.00		1.00	0.70	14.724	16.20	347.36	0.650	0.000	5.00	22.609	14.70	380.8	0.0	1289.4
20.00		1.00	0.70	14.724	16.20	338.43	0.650	0.000	5.00	22.034	14.32	371.2	0.0	1256.4
25.00		1.00	0.70	14.724	16.20	329.49	0.650	0.000	5.00	21.460	13.95	361.5	0.0	1223.4
30.00		1.00	0.71	14.875	16.36	322.19	0.650	0.000	5.00	20.886	13.58	355.4	0.0	1190.4
35.00		1.00	0.74	15.524	17.08	319.97	0.650	0.000	5.00	20.311	13.20	360.7	0.0	1157.5
40.00		1.00	0.77	16.112	17.72	316.62	0.650	0.000	5.00	19.737	12.83	363.8	0.0	1124.5
44.00	Bot - Section 2	1.00	0.79	16.546	18.20	313.28	0.650	0.000	4.00	15.376	9.99	291.1	0.0	875.8
45.00		1.00	0.79	16.651	18.32	312.37	0.650	0.000	1.00	3.850	2.50	73.3	0.0	435.0
49.75	Top - Section 1	1.00	0.81	17.125	18.84	307.63	0.650	0.000	4.75	17.974	11.68	352.1	0.0	2030.0
50.00		1.00	0.82	17.149	18.86	312.69	0.650	0.000	0.25	0.932	0.61	18.3	0.0	53.1
55.00		1.00	0.84	17.613	19.37	307.12	0.650	0.000	5.00	18.331	11.92	369.4	0.0	1043.7
60.00		1.00	0.86	18.049	19.85	301.00	0.650	0.000	5.00	17.757	11.54	366.7	0.0	1010.8
65.00		1.00	0.88	18.460	20.31	294.40	0.650	0.000	5.00	17.183	11.17	362.9	0.0	977.8
70.00		1.00	0.90	18.849	20.73	287.38	0.650	0.000	5.00	16.609	10.80	358.1	0.0	944.8
75.00		1.00	0.91	19.219	21.14	279.97	0.656 *	0.000	5.00	16.034	10.51	355.6	0.0	911.8
80.00		1.00	0.93	19.572	21.53	272.23	0.663 *	0.000	5.00	15.460	10.25	353.1	0.0	878.8
85.00		1.00	0.95	19.910	21.90	264.17	0.671 *	0.000	5.00	14.886	9.99	350.1	0.0	845.8
89.50	Bot - Section 3	1.00	0.96	20.202	22.22	256.68	0.679 *	0.000	4.50	12.906	8.77	311.8	0.0	733.0
90.00		1.00	0.96	20.234	22.26	255.84	0.684 *	0.000	0.50	1.432	0.98	34.9	0.0	147.7
93.75	Top - Section 2	1.00	0.97	20.469	22.52	249.42	0.688 *	0.000	3.75	10.555	7.26	261.6	0.0	1088.4
95.00		1.00	0.98	20.546	22.60	252.10	0.688 *	0.000	1.25	3.446	2.37	85.8	0.0	163.4
100.00		1.00	0.99	20.846	22.93	243.30	0.695 *	0.000	5.00	13.427	9.33	342.2	0.0	636.3
105.00		1.00	1.00	21.136	23.25	234.28	0.705 *	0.000	5.00	12.853	9.07	337.2	0.0	608.8
110.00		1.00	1.02	21.416	23.56	225.05	0.717 *	0.000	5.00	12.278	8.80	331.8	0.0	581.3
115.00		1.00	1.03	21.687	23.86	215.63	0.730 *	0.000	5.00	11.704	8.54	326.1	0.0	553.9
116.00	Appurtenance(s)	1.00	1.03	21.741	23.91	213.72	0.738 *	0.000	1.00	2.272	1.68	64.2	0.0	107.5
120.00	Bot - Section 4	1.00	1.04	21.950	24.15	206.02	0.650	0.000	4.00	8.858	5.76	222.4	0.0	418.9
123.25	Top - Section 3	1.00	1.05	22.117	24.33	199.68	0.650	0.000	3.25	7.030	4.57	177.9	0.0	527.8
125.00		1.00	1.06	22.206	24.43	199.27	0.650	0.000	1.75	3.685	2.39	93.6	0.0	105.0
126.00	Appurtenance(s)	1.00	1.06	22.256	24.48	197.30	0.650	0.000	1.00	2.074	1.35	52.8	0.0	59.1
130.00		1.00	1.07	22.454	24.70	189.34	0.650	0.000	4.00	8.066	5.24	207.2	0.0	229.8
135.00		1.00	1.08	22.696	24.97	179.26	0.650	0.000	5.00	9.565	6.22	248.4	0.0	272.4
136.00	Appurtenance(s)	1.00	1.08	22.743	25.02	177.23	0.650	0.000	1.00	1.844	1.20	48.0	0.0	52.5
140.00		1.00	1.09	22.931	25.22	169.04	0.650	0.000	4.00	7.147	4.65	187.5	0.0	203.4
145.00		1.00	1.10	23.160	25.48	158.67	0.650	0.000	5.00	8.417	5.47	223.0	0.0	239.4
150.00		1.00	1.11	23.384	25.72	148.17	0.650	0.000	5.00	7.843	5.10	209.8	0.0	222.9
154.00	Appurtenance(s)	1.00	1.12	23.560	25.92	139.68	0.650	0.000	4.00	5.861	3.81	158.0	0.0	166.5
155.00	Appurtenance(s)	1.00	1.12	23.603	25.96	137.55	0.650	0.000	1.00	1.408	0.92	38.0	0.0	40.0
								Totals:	155.00			10,196.8		27,084.8

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

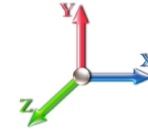
Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 9

Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa 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	155.00	6' Lightning rod	1	23.603	25.963	1.00	1.00	0.38	7.80	0.000	0.000	15.79	0.00	0.00	
2	154.00	800 MHz RRH	3	23.663	26.030	0.92	1.00	6.87	190.80	0.000	2.400	286.22	0.00	686.92	
3	154.00	APXVSPP18-C-A20	3	23.663	26.030	0.82	1.00	19.73	205.20	0.000	2.400	821.67	0.00	1972.01	
4	154.00	ACU-A20-N	4	23.663	26.030	1.00	1.00	0.56	4.80	0.000	2.400	23.32	0.00	55.97	
5	154.00	APXVTM14-C-120	3	23.663	26.030	0.76	1.00	14.46	201.60	0.000	2.400	602.02	0.00	1444.85	
6	154.00	TD-RRH8x20-25	3	23.663	26.030	0.68	1.00	8.26	252.00	0.000	2.400	344.09	0.00	825.82	
7	154.00	ALU 800MHz External	3	23.663	26.030	0.69	1.00	1.61	31.68	0.000	2.400	67.24	0.00	161.39	
8	154.00	1900MHz RRH	3	23.663	26.030	1.00	1.00	11.40	158.40	0.000	2.400	474.78	0.00	1139.47	
9	154.00	Low Profile Platform	1	23.560	25.916	1.00	1.00	25.00	1440.00	0.000	0.000	1036.62	0.00	0.00	
10	154.00	Collar Mount	1	23.560	25.916	0.75	1.00	3.75	300.00	0.000	0.000	155.49	0.00	0.00	
11	136.00	Low Profile Platform	1	22.743	25.017	1.00	1.00	25.00	1440.00	0.000	0.000	1000.70	0.00	0.00	
12	136.00	LPA-80063/6CF_5	2	22.743	25.017	0.76	0.80	14.59	64.80	0.000	0.000	584.09	0.00	0.00	
13	136.00	LPA-80080-6CF	2	22.743	25.017	0.60	0.80	10.36	50.40	0.000	0.000	414.53	0.00	0.00	
14	136.00	LPA-80080/4CF	2	22.743	25.017	0.59	0.80	6.39	28.80	0.000	0.000	255.92	0.00	0.00	
15	136.00	Samsung - B5/B13	3	22.743	25.017	0.66	0.80	3.74	302.76	0.000	0.000	149.90	0.00	0.00	
16	136.00	Samsung - B2/B66A	3	22.743	25.017	0.62	0.80	3.47	253.08	0.000	0.000	139.07	0.00	0.00	
17	136.00	Samsung - VZS01	3	22.743	25.017	0.56	0.80	7.90	313.56	0.000	0.000	316.06	0.00	0.00	
18	136.00	JMA - MX06FIT665-02	6	22.743	25.017	0.76	0.80	37.16	367.20	0.000	0.000	1487.60	0.00	0.00	
19	136.00	Commscope -	1	22.743	25.017	0.57	0.80	2.73	54.00	0.000	0.000	109.13	0.00	0.00	
20	126.00	860 10025	6	22.256	24.482	0.56	0.80	0.60	8.64	0.000	0.000	23.69	0.00	0.00	
21	126.00	RRU 11	3	22.256	24.482	0.54	0.80	7.21	198.00	0.000	0.000	282.55	0.00	0.00	
22	126.00	P65-16-XLH-RR	3	22.256	24.482	0.60	0.80	14.69	190.80	0.000	0.000	575.34	0.00	0.00	
23	126.00	RRUS 12	3	22.256	24.482	0.54	0.80	4.34	216.00	0.000	0.000	170.06	0.00	0.00	
24	126.00	7770	3	22.256	24.482	0.60	0.80	9.90	126.00	0.000	0.000	387.79	0.00	0.00	
25	126.00	DC6-48-60-18-8F	1	22.256	24.482	0.80	0.80	1.18	38.16	0.000	0.000	46.06	0.00	0.00	
26	126.00	LGP21401	6	22.256	24.482	0.51	0.80	3.96	101.52	0.000	0.000	155.23	0.00	0.00	
27	126.00	Low Profile Platform	1	22.256	24.482	1.00	1.00	22.00	1800.00	0.000	0.000	861.75	0.00	0.00	
28	116.00	Air 21 B4A/B2P	6	21.741	23.915	0.69	0.80	25.14	650.88	0.000	0.000	961.92	0.00	0.00	
29	116.00	T-Arms	3	21.741	23.915	0.56	0.75	13.50	1260.00	0.000	0.000	516.55	0.00	0.00	
Totals:									10,256.88						12,265.20

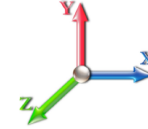
Total Applied Force Summary

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 10



Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 24

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		400.18	1537.53	0.00	0.00
10.00		390.50	1504.54	0.00	0.00
15.00		380.83	1471.56	0.00	0.00
20.00		371.15	1438.57	0.00	0.00
25.00		361.48	1405.59	0.00	0.00
30.00		355.42	1372.60	0.00	0.00
35.00		360.73	1339.62	0.00	0.00
40.00		363.80	1306.63	0.00	0.00
44.00		291.06	1021.55	0.00	0.00
45.00		73.34	471.39	0.00	0.00
49.75		352.13	2203.08	0.00	0.00
50.00		18.28	62.16	0.00	0.00
55.00		369.37	1225.90	0.00	0.00
60.00		366.65	1192.91	0.00	0.00
65.00		362.87	1159.93	0.00	0.00
70.00		358.14	1126.94	0.00	0.00
75.00		355.61	1093.96	0.00	0.00
80.00		353.14	1060.97	0.00	0.00
85.00		350.08	1027.99	0.00	0.00
89.50		311.75	896.99	0.00	0.00
90.00		34.87	165.91	0.00	0.00
93.75		261.61	1225.03	0.00	0.00
95.00		85.79	208.91	0.00	0.00
100.00		342.19	818.47	0.00	0.00
105.00		337.23	790.99	0.00	0.00
110.00		331.85	763.50	0.00	0.00
115.00		326.08	736.01	0.00	0.00
116.00	(9) attachments	1542.65	2054.78	0.00	0.00
120.00		222.43	499.44	0.00	0.00
123.25		177.86	593.22	0.00	0.00
125.00		93.60	140.25	0.00	0.00
126.00	(26) attachments	2555.28	2758.36	0.00	0.00
130.00		207.19	277.71	0.00	0.00
135.00		248.36	332.29	0.00	0.00
136.00	(23) attachments	4504.99	2939.08	0.00	0.00
140.00		187.49	216.09	0.00	0.00
145.00		223.01	255.27	0.00	0.00
150.00		209.80	238.78	0.00	0.00
154.00	(24) attachments	3969.42	2963.63	0.00	6286.43
155.00	(1) attachments	53.80	47.77	0.00	0.00
	Totals:	22,461.99	41,945.89	0.00	6,286.43

Linear Appurtenance Segment Forces (Factored)

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



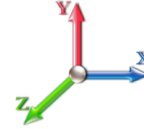
Page: 11

Load Case: 1.2D + 1.6W 93 mph Wind

Iterations 24

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	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.069	0.000	14.724	0.00	74.88
5.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	14.724	0.00	6.60
10.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.071	0.000	14.724	0.00	74.88
10.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.071	0.000	14.724	0.00	6.60
15.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.073	0.000	14.724	0.00	74.88
15.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.073	0.000	14.724	0.00	6.60
20.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.075	0.000	14.724	0.00	74.88
20.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	14.724	0.00	6.60
25.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.077	0.000	14.724	0.00	74.88
25.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	14.724	0.00	6.60
30.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.079	0.000	14.875	0.00	74.88
30.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	14.875	0.00	6.60
35.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.081	0.000	15.524	0.00	74.88
35.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.081	0.000	15.524	0.00	6.60
40.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.084	0.000	16.112	0.00	74.88
40.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	16.112	0.00	6.60
44.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.086	0.000	16.546	0.00	59.90
44.00	1 5/8" Hybrid	Yes	4.00	0.000	0.00	0.00	0.00	0.086	0.000	16.546	0.00	5.28
45.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.087	0.000	16.651	0.00	14.98
45.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.087	0.000	16.651	0.00	1.32
49.75	1 5/8" Coax	Yes	4.75	0.000	3.96	1.57	0.00	0.089	0.000	17.125	0.00	71.14
49.75	1 5/8" Hybrid	Yes	4.75	0.000	0.00	0.00	0.00	0.089	0.000	17.125	0.00	6.27
50.00	1 5/8" Coax	Yes	0.25	0.000	3.96	0.08	0.00	0.089	0.000	17.149	0.00	3.74
50.00	1 5/8" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.089	0.000	17.149	0.00	0.33
55.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.090	0.000	17.613	0.00	74.88
55.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	17.613	0.00	6.60
60.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.093	0.000	18.049	0.00	74.88
60.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	18.049	0.00	6.60
65.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.096	0.000	18.460	0.00	74.88
65.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.096	0.000	18.460	0.00	6.60
70.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.099	0.000	18.849	0.00	74.88
70.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.099	0.000	18.849	0.00	6.60
75.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.103	1.009	19.219	0.00	74.88
75.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.103	1.009	19.219	0.00	6.60
80.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.107	1.020	19.572	0.00	74.88
80.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.020	19.572	0.00	6.60
85.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.111	1.033	19.910	0.00	74.88
85.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.111	1.033	19.910	0.00	6.60
89.50	1 5/8" Coax	Yes	4.50	0.000	3.96	1.48	0.00	0.115	1.045	20.202	0.00	67.39
89.50	1 5/8" Hybrid	Yes	4.50	0.000	0.00	0.00	0.00	0.115	1.045	20.202	0.00	5.94
90.00	1 5/8" Coax	Yes	0.50	0.000	3.96	0.17	0.00	0.117	1.052	20.234	0.00	7.49
90.00	1 5/8" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	0.117	1.052	20.234	0.00	0.66
93.75	1 5/8" Coax	Yes	3.75	0.000	3.96	1.24	0.00	0.119	1.058	20.469	0.00	56.16
93.75	1 5/8" Hybrid	Yes	3.75	0.000	0.00	0.00	0.00	0.119	1.058	20.469	0.00	4.95
95.00	1 5/8" Coax	Yes	1.25	0.000	3.96	0.41	0.00	0.120	1.059	20.546	0.00	18.72
95.00	1 5/8" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.120	1.059	20.546	0.00	1.65
100.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.123	1.069	20.846	0.00	74.88

Linear Appurtenance Segment Forces (Factored)

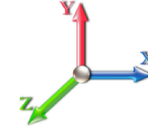
Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 12



Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 24

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	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	20.846	0.00	6.60
105.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.128	1.085	21.136	0.00	74.88
105.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.128	1.085	21.136	0.00	6.60
110.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.134	1.103	21.416	0.00	74.88
110.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.103	21.416	0.00	6.60
115.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.141	1.123	21.687	0.00	74.88
115.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.141	1.123	21.687	0.00	6.60
116.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.145	1.136	21.741	0.00	14.98
116.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.145	1.136	21.741	0.00	1.32
Totals:											0.0	1,890.3

Calculated Forces

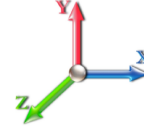
Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.6W 93 mph Wind

Iterations 24

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	-41.92	-22.51	0.00	-2527.5	0.00	2527.57	4331.76	2165.88	10060.7	5037.85	0.00	0.000	0.000	0.512
5.00	-40.33	-22.20	0.00	-2415.0	0.00	2415.02	4271.91	2135.96	9681.61	4848.00	0.07	-0.130	0.000	0.508
10.00	-38.78	-21.90	0.00	-2304.0	0.00	2304.02	4209.88	2104.94	9304.37	4659.10	0.28	-0.263	0.000	0.504
15.00	-37.26	-21.60	0.00	-2194.5	0.00	2194.54	4145.67	2072.83	8929.41	4471.34	0.63	-0.400	0.000	0.500
20.00	-35.77	-21.30	0.00	-2086.5	0.00	2086.56	4079.27	2039.64	8557.10	4284.91	1.12	-0.541	0.000	0.496
25.00	-34.31	-21.02	0.00	-1980.0	0.00	1980.04	4010.69	2005.34	8187.79	4099.98	1.77	-0.686	0.000	0.492
30.00	-32.89	-20.73	0.00	-1874.9	0.00	1874.97	3939.93	1969.96	7821.85	3916.74	2.57	-0.835	0.000	0.487
35.00	-31.50	-20.43	0.00	-1771.3	0.00	1771.33	3866.98	1933.49	7459.66	3735.38	3.52	-0.988	0.000	0.482
40.00	-30.15	-20.12	0.00	-1669.1	0.00	1669.18	3791.85	1895.92	7101.59	3556.07	4.64	-1.145	0.000	0.477
44.00	-29.11	-19.85	0.00	-1588.7	0.00	1588.70	3730.17	1865.09	6818.34	3414.24	5.66	-1.275	0.000	0.473
45.00	-28.60	-19.81	0.00	-1568.8	0.00	1568.86	3714.54	1857.27	6747.99	3379.01	5.93	-1.309	0.000	0.472
49.75	-26.38	-19.44	0.00	-1474.7	0.00	1474.75	3683.20	1841.60	6608.77	3309.30	7.31	-1.467	0.000	0.453
50.00	-26.29	-19.46	0.00	-1469.8	0.00	1469.89	3679.23	1839.62	6591.31	3300.56	7.39	-1.476	0.000	0.453
55.00	-25.02	-19.13	0.00	-1372.5	0.00	1372.57	3598.76	1799.38	6244.86	3127.07	9.02	-1.638	0.000	0.446
60.00	-23.78	-18.80	0.00	-1276.9	0.00	1276.91	3516.10	1758.05	5903.79	2956.28	10.82	-1.804	0.000	0.439
65.00	-22.58	-18.47	0.00	-1182.9	0.00	1182.90	3431.27	1715.63	5568.46	2788.37	12.80	-1.973	0.000	0.431
70.00	-21.41	-18.14	0.00	-1090.5	0.00	1090.57	3344.24	1672.12	5239.26	2623.52	14.96	-2.147	0.000	0.422
75.00	-20.28	-17.80	0.00	-999.89	0.00	999.89	3255.04	1627.52	4916.54	2461.92	17.31	-2.324	0.000	0.412
80.00	-19.18	-17.46	0.00	-910.89	0.00	910.89	3137.93	1568.96	4563.27	2285.03	19.84	-2.505	0.000	0.405
85.00	-18.11	-17.12	0.00	-823.57	0.00	823.57	3017.89	1508.95	4219.09	2112.68	22.56	-2.689	0.000	0.396
89.50	-17.21	-16.80	0.00	-746.52	0.00	746.52	2909.87	1454.93	3920.86	1963.34	25.18	-2.857	0.000	0.386
90.00	-17.02	-16.78	0.00	-738.12	0.00	738.12	2897.86	1448.93	3888.39	1947.09	25.48	-2.877	0.000	0.385
93.75	-15.78	-16.48	0.00	-675.20	0.00	675.20	2354.99	1177.49	3133.69	1569.17	27.79	-3.019	0.000	0.437
95.00	-15.54	-16.42	0.00	-654.60	0.00	654.60	2336.81	1168.40	3076.66	1540.62	28.59	-3.068	0.000	0.432
100.00	-14.68	-16.09	0.00	-572.51	0.00	572.51	2262.72	1131.36	2851.92	1428.08	31.92	-3.279	0.000	0.408
105.00	-13.86	-15.75	0.00	-492.09	0.00	492.09	2165.47	1082.73	2607.63	1305.76	35.46	-3.487	0.000	0.383
110.00	-13.06	-15.42	0.00	-413.33	0.00	413.33	2065.44	1032.72	2371.09	1187.31	39.22	-3.689	0.000	0.355
115.00	-12.32	-15.07	0.00	-336.24	0.00	336.24	1965.41	982.71	2145.79	1074.49	43.19	-3.882	0.000	0.319
116.00	-10.35	-13.41	0.00	-321.17	0.00	321.17	1945.41	972.70	2102.08	1052.60	44.01	-3.922	0.000	0.311
120.00	-9.84	-13.17	0.00	-267.54	0.00	267.54	1865.39	932.69	1931.73	967.30	47.35	-4.067	0.000	0.282
123.25	-9.24	-12.97	0.00	-224.73	0.00	224.73	1005.19	502.59	1030.12	515.83	50.16	-4.179	0.000	0.446
125.00	-9.10	-12.87	0.00	-202.04	0.00	202.04	992.91	496.46	998.01	499.75	51.70	-4.237	0.000	0.414
126.00	-6.52	-10.13	0.00	-189.17	0.00	189.17	985.78	492.89	979.76	490.61	52.59	-4.288	0.000	0.393
130.00	-6.22	-9.92	0.00	-148.65	0.00	148.65	956.38	478.19	907.53	454.44	56.26	-4.468	0.000	0.334
135.00	-5.89	-9.66	0.00	-99.03	0.00	99.03	917.66	458.83	819.21	410.21	61.05	-4.658	0.000	0.248
136.00	-3.32	-4.94	0.00	-89.37	0.00	89.37	909.66	454.83	801.84	401.51	62.03	-4.693	0.000	0.226
140.00	-3.11	-4.74	0.00	-69.63	0.00	69.63	876.76	438.38	733.42	367.25	66.01	-4.815	0.000	0.193
145.00	-2.87	-4.50	0.00	-45.94	0.00	45.94	833.68	416.84	650.52	325.74	71.12	-4.944	0.000	0.145
150.00	-2.64	-4.27	0.00	-23.44	0.00	23.44	781.24	390.62	565.69	283.26	76.34	-5.039	0.000	0.086
154.00	-0.04	-0.06	0.00	-0.06	0.00	0.06	733.23	366.62	497.95	249.34	80.58	-5.080	0.000	0.000
155.00	0.00	-0.05	0.00	0.00	0.00	0.00	721.23	360.61	481.69	241.20	81.64	-5.080	0.000	0.000

Wind Loading - Shaft

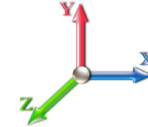
Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 14

Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 24

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	14.724	16.20	374.18	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	14.724	16.20	365.24	0.650	0.000	5.00	23.757	15.44	400.2	0.0	1016.5
10.00		1.00	0.70	14.724	16.20	356.30	0.650	0.000	5.00	23.183	15.07	390.5	0.0	991.8
15.00		1.00	0.70	14.724	16.20	347.36	0.650	0.000	5.00	22.609	14.70	380.8	0.0	967.0
20.00		1.00	0.70	14.724	16.20	338.43	0.650	0.000	5.00	22.034	14.32	371.2	0.0	942.3
25.00		1.00	0.70	14.724	16.20	329.49	0.650	0.000	5.00	21.460	13.95	361.5	0.0	917.6
30.00		1.00	0.71	14.875	16.36	322.19	0.650	0.000	5.00	20.886	13.58	355.4	0.0	892.8
35.00		1.00	0.74	15.524	17.08	319.97	0.650	0.000	5.00	20.311	13.20	360.7	0.0	868.1
40.00		1.00	0.77	16.112	17.72	316.62	0.650	0.000	5.00	19.737	12.83	363.8	0.0	843.4
44.00	Bot - Section 2	1.00	0.79	16.546	18.20	313.28	0.650	0.000	4.00	15.376	9.99	291.1	0.0	656.9
45.00		1.00	0.79	16.651	18.32	312.37	0.650	0.000	1.00	3.850	2.50	73.3	0.0	326.2
49.75	Top - Section 1	1.00	0.81	17.125	18.84	307.63	0.650	0.000	4.75	17.974	11.68	352.1	0.0	1522.5
50.00		1.00	0.82	17.149	18.86	312.69	0.650	0.000	0.25	0.932	0.61	18.3	0.0	39.8
55.00		1.00	0.84	17.613	19.37	307.12	0.650	0.000	5.00	18.331	11.92	369.4	0.0	782.8
60.00		1.00	0.86	18.049	19.85	301.00	0.650	0.000	5.00	17.757	11.54	366.7	0.0	758.1
65.00		1.00	0.88	18.460	20.31	294.40	0.650	0.000	5.00	17.183	11.17	362.9	0.0	733.3
70.00		1.00	0.90	18.849	20.73	287.38	0.650	0.000	5.00	16.609	10.80	358.1	0.0	708.6
75.00		1.00	0.91	19.219	21.14	279.97	0.656 *	0.000	5.00	16.034	10.51	355.6	0.0	683.8
80.00		1.00	0.93	19.572	21.53	272.23	0.663 *	0.000	5.00	15.460	10.25	353.1	0.0	659.1
85.00		1.00	0.95	19.910	21.90	264.17	0.671 *	0.000	5.00	14.886	9.99	350.1	0.0	634.4
89.50	Bot - Section 3	1.00	0.96	20.202	22.22	256.68	0.679 *	0.000	4.50	12.906	8.77	311.8	0.0	549.8
90.00		1.00	0.96	20.234	22.26	255.84	0.684 *	0.000	0.50	1.432	0.98	34.9	0.0	110.8
93.75	Top - Section 2	1.00	0.97	20.469	22.52	249.42	0.688 *	0.000	3.75	10.555	7.26	261.6	0.0	816.3
95.00		1.00	0.98	20.546	22.60	252.10	0.688 *	0.000	1.25	3.446	2.37	85.8	0.0	122.5
100.00		1.00	0.99	20.846	22.93	243.30	0.695 *	0.000	5.00	13.427	9.33	342.2	0.0	477.2
105.00		1.00	1.00	21.136	23.25	234.28	0.705 *	0.000	5.00	12.853	9.07	337.2	0.0	456.6
110.00		1.00	1.02	21.416	23.56	225.05	0.717 *	0.000	5.00	12.278	8.80	331.8	0.0	436.0
115.00		1.00	1.03	21.687	23.86	215.63	0.730 *	0.000	5.00	11.704	8.54	326.1	0.0	415.4
116.00	Appurtenance(s)	1.00	1.03	21.741	23.91	213.72	0.738 *	0.000	1.00	2.272	1.68	64.2	0.0	80.6
120.00	Bot - Section 4	1.00	1.04	21.950	24.15	206.02	0.650	0.000	4.00	8.858	5.76	222.4	0.0	314.2
123.25	Top - Section 3	1.00	1.05	22.117	24.33	199.68	0.650	0.000	3.25	7.030	4.57	177.9	0.0	395.8
125.00		1.00	1.06	22.206	24.43	199.27	0.650	0.000	1.75	3.685	2.39	93.6	0.0	78.8
126.00	Appurtenance(s)	1.00	1.06	22.256	24.48	197.30	0.650	0.000	1.00	2.074	1.35	52.8	0.0	44.3
130.00		1.00	1.07	22.454	24.70	189.34	0.650	0.000	4.00	8.066	5.24	207.2	0.0	172.4
135.00		1.00	1.08	22.696	24.97	179.26	0.650	0.000	5.00	9.565	6.22	248.4	0.0	204.3
136.00	Appurtenance(s)	1.00	1.08	22.743	25.02	177.23	0.650	0.000	1.00	1.844	1.20	48.0	0.0	39.4
140.00		1.00	1.09	22.931	25.22	169.04	0.650	0.000	4.00	7.147	4.65	187.5	0.0	152.6
145.00		1.00	1.10	23.160	25.48	158.67	0.650	0.000	5.00	8.417	5.47	223.0	0.0	179.6
150.00		1.00	1.11	23.384	25.72	148.17	0.650	0.000	5.00	7.843	5.10	209.8	0.0	167.2
154.00	Appurtenance(s)	1.00	1.12	23.560	25.92	139.68	0.650	0.000	4.00	5.861	3.81	158.0	0.0	124.9
155.00	Appurtenance(s)	1.00	1.12	23.603	25.96	137.55	0.650	0.000	1.00	1.408	0.92	38.0	0.0	30.0
								Totals:	155.00			10,196.8		20,313.6

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

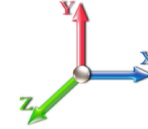
Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 15



Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa 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	155.00	6' Lightning rod	1	23.603	25.963	1.00	1.00	0.38	5.85	0.000	0.000	15.79	0.00	0.00
2	154.00	800 MHz RRH	3	23.663	26.030	0.92	1.00	6.87	143.10	0.000	2.400	286.22	0.00	686.92
3	154.00	APXVSP18-C-A20	3	23.663	26.030	0.82	1.00	19.73	153.90	0.000	2.400	821.67	0.00	1972.01
4	154.00	ACU-A20-N	4	23.663	26.030	1.00	1.00	0.56	3.60	0.000	2.400	23.32	0.00	55.97
5	154.00	APXVTM14-C-120	3	23.663	26.030	0.76	1.00	14.46	151.20	0.000	2.400	602.02	0.00	1444.85
6	154.00	TD-RRH8x20-25	3	23.663	26.030	0.68	1.00	8.26	189.00	0.000	2.400	344.09	0.00	825.82
7	154.00	ALU 800MHz External	3	23.663	26.030	0.69	1.00	1.61	23.76	0.000	2.400	67.24	0.00	161.39
8	154.00	1900MHz RRH	3	23.663	26.030	1.00	1.00	11.40	118.80	0.000	2.400	474.78	0.00	1139.47
9	154.00	Low Profile Platform	1	23.560	25.916	1.00	1.00	25.00	1080.00	0.000	0.000	1036.62	0.00	0.00
10	154.00	Collar Mount	1	23.560	25.916	0.75	1.00	3.75	225.00	0.000	0.000	155.49	0.00	0.00
11	136.00	Low Profile Platform	1	22.743	25.017	1.00	1.00	25.00	1080.00	0.000	0.000	1000.70	0.00	0.00
12	136.00	LPA-80063/6CF_5	2	22.743	25.017	0.76	0.80	14.59	48.60	0.000	0.000	584.09	0.00	0.00
13	136.00	LPA-80080-6CF	2	22.743	25.017	0.60	0.80	10.36	37.80	0.000	0.000	414.53	0.00	0.00
14	136.00	LPA-80080/4CF	2	22.743	25.017	0.59	0.80	6.39	21.60	0.000	0.000	255.92	0.00	0.00
15	136.00	Samsung - B5/B13	3	22.743	25.017	0.66	0.80	3.74	227.07	0.000	0.000	149.90	0.00	0.00
16	136.00	Samsung - B2/B66A	3	22.743	25.017	0.62	0.80	3.47	189.81	0.000	0.000	139.07	0.00	0.00
17	136.00	Samsung - VZS01	3	22.743	25.017	0.56	0.80	7.90	235.17	0.000	0.000	316.06	0.00	0.00
18	136.00	JMA - MX06FIT665-02	6	22.743	25.017	0.76	0.80	37.16	275.40	0.000	0.000	1487.60	0.00	0.00
19	136.00	Commscope -	1	22.743	25.017	0.57	0.80	2.73	40.50	0.000	0.000	109.13	0.00	0.00
20	126.00	860 10025	6	22.256	24.482	0.56	0.80	0.60	6.48	0.000	0.000	23.69	0.00	0.00
21	126.00	RRU 11	3	22.256	24.482	0.54	0.80	7.21	148.50	0.000	0.000	282.55	0.00	0.00
22	126.00	P65-16-XLH-RR	3	22.256	24.482	0.60	0.80	14.69	143.10	0.000	0.000	575.34	0.00	0.00
23	126.00	RRUS 12	3	22.256	24.482	0.54	0.80	4.34	162.00	0.000	0.000	170.06	0.00	0.00
24	126.00	7770	3	22.256	24.482	0.60	0.80	9.90	94.50	0.000	0.000	387.79	0.00	0.00
25	126.00	DC6-48-60-18-8F	1	22.256	24.482	0.80	0.80	1.18	28.62	0.000	0.000	46.06	0.00	0.00
26	126.00	LGP21401	6	22.256	24.482	0.51	0.80	3.96	76.14	0.000	0.000	155.23	0.00	0.00
27	126.00	Low Profile Platform	1	22.256	24.482	1.00	1.00	22.00	1350.00	0.000	0.000	861.75	0.00	0.00
28	116.00	Air 21 B4A/B2P	6	21.741	23.915	0.69	0.80	25.14	488.16	0.000	0.000	961.92	0.00	0.00
29	116.00	T-Arms	3	21.741	23.915	0.56	0.75	13.50	945.00	0.000	0.000	516.55	0.00	0.00

Totals: 7,692.66

12,265.20

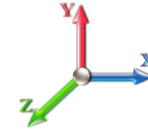
Total Applied Force Summary

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 16



Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 24

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		400.18	1153.15	0.00	0.00
10.00		390.50	1128.41	0.00	0.00
15.00		380.83	1103.67	0.00	0.00
20.00		371.15	1078.93	0.00	0.00
25.00		361.48	1054.19	0.00	0.00
30.00		355.42	1029.45	0.00	0.00
35.00		360.73	1004.71	0.00	0.00
40.00		363.80	979.97	0.00	0.00
44.00		291.06	766.17	0.00	0.00
45.00		73.34	353.54	0.00	0.00
49.75		352.13	1652.31	0.00	0.00
50.00		18.28	46.62	0.00	0.00
55.00		369.37	919.42	0.00	0.00
60.00		366.65	894.68	0.00	0.00
65.00		362.87	869.95	0.00	0.00
70.00		358.14	845.21	0.00	0.00
75.00		355.61	820.47	0.00	0.00
80.00		353.14	795.73	0.00	0.00
85.00		350.08	770.99	0.00	0.00
89.50		311.75	672.74	0.00	0.00
90.00		34.87	124.43	0.00	0.00
93.75		261.61	918.77	0.00	0.00
95.00		85.79	156.69	0.00	0.00
100.00		342.19	613.86	0.00	0.00
105.00		337.23	593.24	0.00	0.00
110.00		331.85	572.62	0.00	0.00
115.00		326.08	552.01	0.00	0.00
116.00	(9) attachments	1542.65	1541.09	0.00	0.00
120.00		222.43	374.58	0.00	0.00
123.25		177.86	444.92	0.00	0.00
125.00		93.60	105.19	0.00	0.00
126.00	(26) attachments	2555.28	2068.77	0.00	0.00
130.00		207.19	208.28	0.00	0.00
135.00		248.36	249.22	0.00	0.00
136.00	(23) attachments	4504.99	2204.31	0.00	0.00
140.00		187.49	162.07	0.00	0.00
145.00		223.01	191.45	0.00	0.00
150.00		209.80	179.08	0.00	0.00
154.00	(24) attachments	3969.42	2222.72	0.00	6286.43
155.00	(1) attachments	53.80	35.83	0.00	0.00
	Totals:	22,461.99	31,459.42	0.00	6,286.43

Linear Appurtenance Segment Forces (Factored)

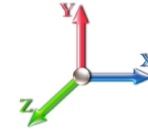
Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 17

Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 24

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	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.069	0.000	14.724	0.00	56.16
5.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	14.724	0.00	4.95
10.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.071	0.000	14.724	0.00	56.16
10.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.071	0.000	14.724	0.00	4.95
15.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.073	0.000	14.724	0.00	56.16
15.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.073	0.000	14.724	0.00	4.95
20.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.075	0.000	14.724	0.00	56.16
20.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	14.724	0.00	4.95
25.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.077	0.000	14.724	0.00	56.16
25.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	14.724	0.00	4.95
30.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.079	0.000	14.875	0.00	56.16
30.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	14.875	0.00	4.95
35.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.081	0.000	15.524	0.00	56.16
35.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.081	0.000	15.524	0.00	4.95
40.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.084	0.000	16.112	0.00	56.16
40.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	16.112	0.00	4.95
44.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.086	0.000	16.546	0.00	44.93
44.00	1 5/8" Hybrid	Yes	4.00	0.000	0.00	0.00	0.00	0.086	0.000	16.546	0.00	3.96
45.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.087	0.000	16.651	0.00	11.23
45.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.087	0.000	16.651	0.00	0.99
49.75	1 5/8" Coax	Yes	4.75	0.000	3.96	1.57	0.00	0.089	0.000	17.125	0.00	53.35
49.75	1 5/8" Hybrid	Yes	4.75	0.000	0.00	0.00	0.00	0.089	0.000	17.125	0.00	4.70
50.00	1 5/8" Coax	Yes	0.25	0.000	3.96	0.08	0.00	0.089	0.000	17.149	0.00	2.81
50.00	1 5/8" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.089	0.000	17.149	0.00	0.25
55.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.090	0.000	17.613	0.00	56.16
55.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	17.613	0.00	4.95
60.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.093	0.000	18.049	0.00	56.16
60.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	18.049	0.00	4.95
65.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.096	0.000	18.460	0.00	56.16
65.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.096	0.000	18.460	0.00	4.95
70.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.099	0.000	18.849	0.00	56.16
70.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.099	0.000	18.849	0.00	4.95
75.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.103	1.009	19.219	0.00	56.16
75.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.103	1.009	19.219	0.00	4.95
80.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.107	1.020	19.572	0.00	56.16
80.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.020	19.572	0.00	4.95
85.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.111	1.033	19.910	0.00	56.16
85.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.111	1.033	19.910	0.00	4.95
89.50	1 5/8" Coax	Yes	4.50	0.000	3.96	1.48	0.00	0.115	1.045	20.202	0.00	50.54
89.50	1 5/8" Hybrid	Yes	4.50	0.000	0.00	0.00	0.00	0.115	1.045	20.202	0.00	4.46
90.00	1 5/8" Coax	Yes	0.50	0.000	3.96	0.17	0.00	0.117	1.052	20.234	0.00	5.62
90.00	1 5/8" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	0.117	1.052	20.234	0.00	0.50
93.75	1 5/8" Coax	Yes	3.75	0.000	3.96	1.24	0.00	0.119	1.058	20.469	0.00	42.12
93.75	1 5/8" Hybrid	Yes	3.75	0.000	0.00	0.00	0.00	0.119	1.058	20.469	0.00	3.71
95.00	1 5/8" Coax	Yes	1.25	0.000	3.96	0.41	0.00	0.120	1.059	20.546	0.00	14.04
95.00	1 5/8" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.120	1.059	20.546	0.00	1.24
100.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.123	1.069	20.846	0.00	56.16

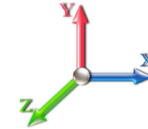
Linear Appurtenance Segment Forces (Factored)

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 18



Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 24

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	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	20.846	0.00	4.95
105.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.128	1.085	21.136	0.00	56.16
105.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.128	1.085	21.136	0.00	4.95
110.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.134	1.103	21.416	0.00	56.16
110.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.103	21.416	0.00	4.95
115.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.141	1.123	21.687	0.00	56.16
115.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.141	1.123	21.687	0.00	4.95
116.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.145	1.136	21.741	0.00	11.23
116.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.145	1.136	21.741	0.00	0.99
Totals:											0.0	1,417.8

Calculated Forces

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 19



Load Case: 0.9D + 1.6W 93 mph Wind

Iterations 24

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	-31.43	-22.50	0.00	-2502.6	0.00	2502.69	4331.76	2165.88	10060.7	5037.85	0.00	0.000	0.000	0.504
5.00	-30.23	-22.16	0.00	-2390.2	0.00	2390.21	4271.91	2135.96	9681.61	4848.00	0.07	-0.129	0.000	0.500
10.00	-29.05	-21.84	0.00	-2279.3	0.00	2279.39	4209.88	2104.94	9304.37	4659.10	0.28	-0.261	0.000	0.496
15.00	-27.90	-21.52	0.00	-2170.2	0.00	2170.20	4145.67	2072.83	8929.41	4471.34	0.62	-0.396	0.000	0.492
20.00	-26.77	-21.20	0.00	-2062.6	0.00	2062.61	4079.27	2039.64	8557.10	4284.91	1.11	-0.536	0.000	0.488
25.00	-25.67	-20.90	0.00	-1956.6	0.00	1956.60	4010.69	2005.34	8187.79	4099.98	1.75	-0.679	0.000	0.484
30.00	-24.59	-20.59	0.00	-1852.1	0.00	1852.12	3939.93	1969.96	7821.85	3916.74	2.54	-0.826	0.000	0.479
35.00	-23.54	-20.28	0.00	-1749.1	0.00	1749.16	3866.98	1933.49	7459.66	3735.38	3.48	-0.977	0.000	0.474
40.00	-22.51	-19.95	0.00	-1647.7	0.00	1647.77	3791.85	1895.92	7101.59	3556.07	4.59	-1.132	0.000	0.469
44.00	-21.73	-19.68	0.00	-1567.9	0.00	1567.97	3730.17	1865.09	6818.34	3414.24	5.59	-1.260	0.000	0.465
45.00	-21.34	-19.63	0.00	-1548.2	0.00	1548.29	3714.54	1857.27	6747.99	3379.01	5.86	-1.294	0.000	0.464
49.75	-19.67	-19.27	0.00	-1455.0	0.00	1455.05	3683.20	1841.60	6608.77	3309.30	7.23	-1.450	0.000	0.445
50.00	-19.60	-19.28	0.00	-1450.2	0.00	1450.24	3679.23	1839.62	6591.31	3300.56	7.31	-1.458	0.000	0.445
55.00	-18.63	-18.93	0.00	-1353.8	0.00	1353.86	3598.76	1799.38	6244.86	3127.07	8.92	-1.618	0.000	0.438
60.00	-17.70	-18.59	0.00	-1259.1	0.00	1259.19	3516.10	1758.05	5903.79	2956.28	10.70	-1.782	0.000	0.431
65.00	-16.79	-18.25	0.00	-1166.2	0.00	1166.23	3431.27	1715.63	5568.46	2788.37	12.66	-1.949	0.000	0.423
70.00	-15.90	-17.91	0.00	-1074.9	0.00	1074.97	3344.24	1672.12	5239.26	2623.52	14.79	-2.120	0.000	0.415
75.00	-15.04	-17.57	0.00	-985.41	0.00	985.41	3255.04	1627.52	4916.54	2461.92	17.10	-2.295	0.000	0.405
80.00	-14.21	-17.23	0.00	-897.56	0.00	897.56	3137.93	1568.96	4563.27	2285.03	19.60	-2.473	0.000	0.397
85.00	-13.40	-16.89	0.00	-811.41	0.00	811.41	3017.89	1508.95	4219.09	2112.68	22.29	-2.654	0.000	0.389
89.50	-12.72	-16.56	0.00	-735.43	0.00	735.43	2909.87	1454.93	3920.86	1963.34	24.87	-2.820	0.000	0.379
90.00	-12.57	-16.54	0.00	-727.15	0.00	727.15	2897.86	1448.93	3888.39	1947.09	25.17	-2.839	0.000	0.378
93.75	-11.64	-16.25	0.00	-665.12	0.00	665.12	2354.99	1177.49	3133.69	1569.17	27.45	-2.980	0.000	0.429
95.00	-11.45	-16.18	0.00	-644.81	0.00	644.81	2336.81	1168.40	3076.66	1540.62	28.24	-3.028	0.000	0.424
100.00	-10.80	-15.85	0.00	-563.90	0.00	563.90	2262.72	1131.36	2851.92	1428.08	31.52	-3.235	0.000	0.400
105.00	-10.17	-15.51	0.00	-484.66	0.00	484.66	2165.47	1082.73	2607.63	1305.76	35.02	-3.440	0.000	0.376
110.00	-9.57	-15.18	0.00	-407.11	0.00	407.11	2065.44	1032.72	2371.09	1187.31	38.73	-3.640	0.000	0.348
115.00	-9.01	-14.83	0.00	-331.22	0.00	331.22	1965.41	982.71	2145.79	1074.49	42.64	-3.830	0.000	0.313
116.00	-7.56	-13.20	0.00	-316.39	0.00	316.39	1945.41	972.70	2102.08	1052.60	43.45	-3.869	0.000	0.305
120.00	-7.17	-12.97	0.00	-263.57	0.00	263.57	1865.39	932.69	1931.73	967.30	46.75	-4.012	0.000	0.277
123.25	-6.72	-12.77	0.00	-221.42	0.00	221.42	1005.19	502.59	1030.12	515.83	49.52	-4.122	0.000	0.437
125.00	-6.61	-12.68	0.00	-199.06	0.00	199.06	992.91	496.46	998.01	499.75	51.04	-4.179	0.000	0.406
126.00	-4.71	-9.99	0.00	-186.39	0.00	186.39	985.78	492.89	979.76	490.61	51.92	-4.229	0.000	0.385
130.00	-4.49	-9.78	0.00	-146.44	0.00	146.44	956.38	478.19	907.53	454.44	55.54	-4.407	0.000	0.327
135.00	-4.24	-9.52	0.00	-97.54	0.00	97.54	917.66	458.83	819.21	410.21	60.26	-4.594	0.000	0.243
136.00	-2.40	-4.86	0.00	-88.02	0.00	88.02	909.66	454.83	801.84	401.51	61.22	-4.629	0.000	0.222
140.00	-2.25	-4.66	0.00	-68.60	0.00	68.60	876.76	438.38	733.42	367.25	65.15	-4.748	0.000	0.189
145.00	-2.06	-4.43	0.00	-45.29	0.00	45.29	833.68	416.84	650.52	325.74	70.19	-4.875	0.000	0.142
150.00	-1.90	-4.20	0.00	-23.16	0.00	23.16	781.24	390.62	565.69	283.26	75.35	-4.970	0.000	0.084
154.00	-0.03	-0.06	0.00	-0.06	0.00	0.06	733.23	366.62	497.95	249.34	79.52	-5.010	0.000	0.000
155.00	0.00	-0.05	0.00	0.00	0.00	0.00	721.23	360.61	481.69	241.20	80.57	-5.010	0.000	0.000

Wind Loading - Shaft

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 20

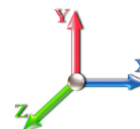


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

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	1.057	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	1.265	5.00	24.811	29.77	139.4	449.6	1805.0
10.00		1.00	0.70	4.256	4.68	0.00	1.200	1.344	5.00	24.303	29.16	136.5	466.9	1789.3
15.00		1.00	0.70	4.256	4.68	0.00	1.200	1.395	5.00	23.771	28.53	133.5	473.3	1762.7
20.00		1.00	0.70	4.256	4.68	0.00	1.200	1.434	5.00	23.229	27.87	130.5	474.5	1730.9
25.00		1.00	0.70	4.256	4.68	0.00	1.200	1.465	5.00	22.681	27.22	127.4	472.6	1696.0
30.00		1.00	0.71	4.300	4.73	0.00	1.200	1.491	5.00	22.128	26.55	125.6	468.5	1658.9
35.00		1.00	0.74	4.487	4.94	0.00	1.200	1.513	5.00	21.572	25.89	127.8	462.9	1620.4
40.00		1.00	0.77	4.657	5.12	0.00	1.200	1.533	5.00	21.015	25.22	129.2	456.1	1580.6
44.00	Bot - Section 2	1.00	0.79	4.783	5.26	0.00	1.200	1.547	4.00	16.408	19.69	103.6	360.0	1235.8
45.00		1.00	0.79	4.813	5.29	0.00	1.200	1.551	1.00	4.109	4.93	26.1	91.1	526.1
49.75	Top - Section 1	1.00	0.81	4.950	5.44	0.00	1.200	1.566	4.75	19.214	23.06	125.5	425.3	2455.3
50.00		1.00	0.82	4.957	5.45	0.00	1.200	1.567	0.25	0.997	1.20	6.5	22.4	75.4
55.00		1.00	0.84	5.091	5.60	0.00	1.200	1.581	5.00	19.649	23.58	132.0	438.1	1481.8
60.00		1.00	0.86	5.217	5.74	0.00	1.200	1.595	5.00	19.086	22.90	131.4	428.4	1439.2
65.00		1.00	0.88	5.336	5.87	0.00	1.200	1.608	5.00	18.523	22.23	130.5	418.3	1396.0
70.00		1.00	0.90	5.448	5.99	0.00	1.200	1.619	5.00	17.958	21.55	129.2	407.7	1352.5
75.00		1.00	0.91	5.555	6.11	0.00	1.210 *	1.631	5.00	17.393	21.05	128.7	396.7	1308.5
80.00		1.00	0.93	5.657	6.22	0.00	1.224 *	1.641	5.00	16.827	20.60	128.2	385.4	1264.2
85.00		1.00	0.95	5.755	6.33	0.00	1.239 *	1.651	5.00	16.261	20.15	127.5	373.8	1219.6
89.50	Bot - Section 3	1.00	0.96	5.840	6.42	0.00	1.254 *	1.659	4.50	14.150	17.75	114.0	326.7	1059.8
90.00		1.00	0.96	5.849	6.43	0.00	1.263 *	1.660	0.50	1.570	1.98	12.8	36.8	184.5
93.75	Top - Section 2	1.00	0.97	5.917	6.51	0.00	1.270 *	1.667	3.75	11.597	14.73	95.9	269.5	1357.9
95.00		1.00	0.98	5.939	6.53	0.00	1.271 *	1.669	1.25	3.794	4.82	31.5	89.1	252.4
100.00		1.00	0.99	6.026	6.63	0.00	1.282 *	1.678	5.00	14.825	19.01	126.0	343.9	980.2
105.00		1.00	1.00	6.109	6.72	0.00	1.302 *	1.686	5.00	14.257	18.57	124.8	331.3	940.1
110.00		1.00	1.02	6.190	6.81	0.00	1.324 *	1.693	5.00	13.690	18.12	123.4	318.5	899.8
115.00		1.00	1.03	6.269	6.90	0.00	1.348 *	1.701	5.00	13.122	17.68	121.9	305.5	859.3
116.00	Appurtenance(s)	1.00	1.03	6.284	6.91	0.00	1.363 *	1.702	1.00	2.556	3.48	24.1	60.6	168.0
120.00	Bot - Section 4	1.00	1.04	6.345	6.98	0.00	1.200	1.708	4.00	9.997	12.00	83.7	233.9	652.7
123.25	Top - Section 3	1.00	1.05	6.393	7.03	0.00	1.200	1.713	3.25	7.957	9.55	67.1	187.0	714.8
125.00		1.00	1.06	6.419	7.06	0.00	1.200	1.715	1.75	4.185	5.02	35.5	99.1	204.1
126.00	Appurtenance(s)	1.00	1.06	6.433	7.08	0.00	1.200	1.716	1.00	2.360	2.83	20.0	56.1	115.2
130.00		1.00	1.07	6.490	7.14	0.00	1.200	1.722	4.00	9.214	11.06	78.9	215.6	445.4
135.00		1.00	1.08	6.560	7.22	0.00	1.200	1.728	5.00	11.006	13.21	95.3	255.9	528.3
136.00	Appurtenance(s)	1.00	1.08	6.574	7.23	0.00	1.200	1.729	1.00	2.132	2.56	18.5	50.6	103.1
140.00		1.00	1.09	6.628	7.29	0.00	1.200	1.734	4.00	8.303	9.96	72.6	193.7	397.2
145.00		1.00	1.10	6.695	7.36	0.00	1.200	1.741	5.00	9.867	11.84	87.2	228.3	467.7
150.00		1.00	1.11	6.759	7.44	0.00	1.200	1.746	5.00	9.298	11.16	83.0	214.3	437.2
154.00	Appurtenance(s)	1.00	1.12	6.810	7.49	0.00	1.200	1.751	4.00	7.028	8.43	63.2	162.4	328.8
155.00	Appurtenance(s)	1.00	1.12	6.822	7.50	0.00	1.200	1.752	1.00	1.700	2.04	15.3	40.0	80.0
								Totals:	155.00			3,713.9	38,574.7	

* Cf Adjusted by Linear Load Ra Effect

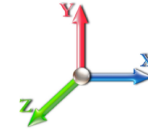
Discrete Appurtenance Forces

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 21



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa 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	155.00	6' Lightning rod	1	6.822	7.505	1.00	1.00	1.47	38.94	0.000	0.000	11.05	0.00	0.00
2	154.00	800 MHz RRH	3	6.840	7.524	0.92	1.00	10.04	350.11	0.000	2.400	75.54	0.00	181.29
3	154.00	APXVSP18-C-A20	3	6.840	7.524	0.82	1.00	26.62	576.96	0.000	2.400	200.32	0.00	480.76
4	154.00	ACU-A20-N	4	6.840	7.524	1.00	1.00	1.75	16.84	0.000	2.400	13.17	0.00	31.61
5	154.00	APXVTM14-C-120	3	6.840	7.524	0.77	1.00	17.23	684.73	0.000	2.400	129.61	0.00	311.06
6	154.00	TD-RRH8x20-25	3	6.840	7.524	0.69	1.00	10.07	584.70	0.000	2.400	75.79	0.00	181.89
7	154.00	ALU 800MHz External	3	6.840	7.524	0.72	1.00	3.09	69.78	0.000	2.400	23.22	0.00	55.74
8	154.00	1900MHz RRH	3	6.840	7.524	1.00	1.00	15.58	393.37	0.000	2.400	117.25	0.00	281.40
9	154.00	Low Profile Platform	1	6.810	7.491	1.00	1.00	46.01	1890.57	0.000	0.000	344.67	0.00	0.00
10	154.00	Collar Mount	1	6.810	7.491	0.75	1.00	10.32	737.83	0.000	0.000	77.28	0.00	0.00
11	136.00	Low Profile Platform	1	6.574	7.231	1.00	1.00	45.75	2177.68	0.000	0.000	330.86	0.00	0.00
12	136.00	LPA-80063/6CF_5	2	6.574	7.231	0.76	0.80	16.59	641.01	0.000	0.000	119.97	0.00	0.00
13	136.00	LPA-80080-6CF	2	6.574	7.231	0.62	0.80	12.19	335.82	0.000	0.000	88.16	0.00	0.00
14	136.00	LPA-80080/4CF	2	6.574	7.231	0.61	0.80	7.73	307.11	0.000	0.000	55.93	0.00	0.00
15	136.00	Samsung - B5/B13	3	6.574	7.231	0.68	0.80	4.94	705.34	0.000	0.000	35.70	0.00	0.00
16	136.00	Samsung - B2/B66A	3	6.574	7.231	0.63	0.80	4.59	313.38	0.000	0.000	33.18	0.00	0.00
17	136.00	Samsung - VZS01	3	6.574	7.231	0.57	0.80	9.53	454.20	0.000	0.000	68.93	0.00	0.00
18	136.00	JMA - MX06FIT665-02	6	6.574	7.231	0.76	0.80	42.82	1970.84	0.000	0.000	309.65	0.00	0.00
19	136.00	Commscope -	1	6.574	7.231	0.58	0.80	3.25	103.09	0.000	0.000	23.49	0.00	0.00
20	126.00	860 10025	6	6.433	7.076	0.58	0.80	1.91	34.42	0.000	0.000	13.51	0.00	0.00
21	126.00	RRU 11	3	6.433	7.076	0.55	0.80	9.76	386.32	0.000	0.000	69.08	0.00	0.00
22	126.00	P65-16-XLH-RR	3	6.433	7.076	0.60	0.80	19.65	536.18	0.000	0.000	139.05	0.00	0.00
23	126.00	RRUS 12	3	6.433	7.076	0.55	0.80	5.55	366.63	0.000	0.000	39.24	0.00	0.00
24	126.00	7770	3	6.433	7.076	0.60	0.80	11.78	523.33	0.000	0.000	83.39	0.00	0.00
25	126.00	DC6-48-60-18-8F	1	6.433	7.076	0.80	0.80	1.73	81.26	0.000	0.000	12.22	0.00	0.00
26	126.00	LGP21401	6	6.433	7.076	0.53	0.80	6.69	206.45	0.000	0.000	47.34	0.00	0.00
27	126.00	Low Profile Platform	1	6.433	7.076	1.00	1.00	39.37	2787.31	0.000	0.000	278.60	0.00	0.00
28	116.00	Air 21 B4A/B2P	6	6.284	6.913	0.69	0.80	29.55	1634.63	0.000	0.000	204.27	0.00	0.00
29	116.00	T-Arms	3	6.284	6.913	0.56	0.75	24.99	1765.00	0.000	0.000	172.75	0.00	0.00

Totals: 20,673.83

3,193.20

Total Applied Force Summary

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 22

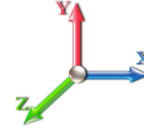


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

Dead Load Factor 1.20

Wind Load Factor 1.00



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		139.39	2154.68	0.00	0.00
10.00		136.53	2149.44	0.00	0.00
15.00		133.55	2129.72	0.00	0.00
20.00		130.50	2103.11	0.00	0.00
25.00		127.42	2072.38	0.00	0.00
30.00		125.59	2038.88	0.00	0.00
35.00		127.78	2003.37	0.00	0.00
40.00		129.19	1966.31	0.00	0.00
44.00		103.59	1545.98	0.00	0.00
45.00		26.10	603.73	0.00	0.00
49.75		125.54	2826.07	0.00	0.00
50.00		6.52	94.93	0.00	0.00
55.00		132.05	1874.28	0.00	0.00
60.00		131.44	1833.51	0.00	0.00
65.00		130.46	1792.12	0.00	0.00
70.00		129.15	1750.19	0.00	0.00
75.00		128.65	1707.78	0.00	0.00
80.00		128.20	1664.93	0.00	0.00
85.00		127.55	1621.71	0.00	0.00
89.50		114.00	1422.77	0.00	0.00
90.00		12.75	224.87	0.00	0.00
93.75		95.86	1661.16	0.00	0.00
95.00		31.50	353.60	0.00	0.00
100.00		126.01	1386.06	0.00	0.00
105.00		124.76	1347.13	0.00	0.00
110.00		123.40	1307.95	0.00	0.00
115.00		121.92	1268.54	0.00	0.00
116.00	(9) attachments	401.10	3649.56	0.00	0.00
120.00		83.72	733.29	0.00	0.00
123.25		67.15	780.23	0.00	0.00
125.00		35.46	239.31	0.00	0.00
126.00	(26) attachments	702.47	5057.21	0.00	0.00
130.00		78.94	493.35	0.00	0.00
135.00		95.30	588.23	0.00	0.00
136.00	(23) attachments	1084.36	7123.57	0.00	0.00
140.00		72.65	409.83	0.00	0.00
145.00		87.19	483.54	0.00	0.00
150.00		82.96	453.03	0.00	0.00
154.00	(24) attachments	1120.01	5646.40	0.00	1523.75
155.00	(1) attachments	26.35	118.93	0.00	0.00
Totals:		6,907.08	68,681.67	0.00	1,523.75

Linear Appurtenance Segment Forces (Factored)

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

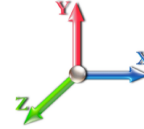


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

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	1 5/8" Coax	Yes	5.00	0.000	3.96	2.70	0.00	0.069	0.000	4.256	0.00	221.16
5.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	4.256	0.00	27.88
10.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.77	0.00	0.071	0.000	4.256	0.00	229.72
10.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.071	0.000	4.256	0.00	29.76
15.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.81	0.00	0.073	0.000	4.256	0.00	235.32
15.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.073	0.000	4.256	0.00	31.01
20.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.84	0.00	0.075	0.000	4.256	0.00	239.54
20.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	4.256	0.00	31.98
25.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.87	0.00	0.077	0.000	4.256	0.00	242.95
25.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	4.256	0.00	32.77
30.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.89	0.00	0.079	0.000	4.300	0.00	245.82
30.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	4.300	0.00	33.44
35.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.91	0.00	0.081	0.000	4.487	0.00	248.31
35.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.081	0.000	4.487	0.00	34.02
40.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.93	0.00	0.084	0.000	4.657	0.00	250.51
40.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	4.657	0.00	34.55
44.00	1 5/8" Coax	Yes	4.00	0.000	3.96	2.35	0.00	0.086	0.000	4.783	0.00	201.68
44.00	1 5/8" Hybrid	Yes	4.00	0.000	0.00	0.00	0.00	0.086	0.000	4.783	0.00	27.94
45.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.59	0.00	0.087	0.000	4.813	0.00	50.50
45.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.087	0.000	4.813	0.00	7.00
49.75	1 5/8" Coax	Yes	4.75	0.000	3.96	2.81	0.00	0.089	0.000	4.950	0.00	241.48
49.75	1 5/8" Hybrid	Yes	4.75	0.000	0.00	0.00	0.00	0.089	0.000	4.950	0.00	33.66
50.00	1 5/8" Coax	Yes	0.25	0.000	3.96	0.15	0.00	0.089	0.000	4.957	0.00	12.71
50.00	1 5/8" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.089	0.000	4.957	0.00	1.77
55.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.97	0.00	0.090	0.000	5.091	0.00	255.92
55.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	5.091	0.00	35.85
60.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.98	0.00	0.093	0.000	5.217	0.00	257.43
60.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	5.217	0.00	36.22
65.00	1 5/8" Coax	Yes	5.00	0.000	3.96	2.99	0.00	0.096	0.000	5.336	0.00	258.85
65.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.096	0.000	5.336	0.00	36.56
70.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.00	0.00	0.099	0.000	5.448	0.00	260.17
70.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.099	0.000	5.448	0.00	36.89
75.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.01	0.00	0.103	1.009	5.555	0.00	261.41
75.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.103	1.009	5.555	0.00	37.19
80.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.02	0.00	0.107	1.020	5.657	0.00	262.58
80.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.020	5.657	0.00	37.48
85.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.03	0.00	0.111	1.033	5.755	0.00	263.69
85.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.111	1.033	5.755	0.00	37.76
89.50	1 5/8" Coax	Yes	4.50	0.000	3.96	2.73	0.00	0.115	1.045	5.840	0.00	238.18
89.50	1 5/8" Hybrid	Yes	4.50	0.000	0.00	0.00	0.00	0.115	1.045	5.840	0.00	34.19
90.00	1 5/8" Coax	Yes	0.50	0.000	3.96	0.30	0.00	0.117	1.052	5.849	0.00	26.47
90.00	1 5/8" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	0.117	1.052	5.849	0.00	3.80
93.75	1 5/8" Coax	Yes	3.75	0.000	3.96	2.28	0.00	0.119	1.058	5.917	0.00	199.13
93.75	1 5/8" Hybrid	Yes	3.75	0.000	0.00	0.00	0.00	0.119	1.058	5.917	0.00	28.65
95.00	1 5/8" Coax	Yes	1.25	0.000	3.96	0.76	0.00	0.120	1.059	5.939	0.00	66.44
95.00	1 5/8" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.120	1.059	5.939	0.00	9.57
100.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.05	0.00	0.123	1.069	6.026	0.00	266.71

Linear Appurtenance Segment Forces (Factored)

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



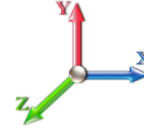
Page: 24

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

Iterations 24

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	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	6.026	0.00	38.51
105.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.05	0.00	0.128	1.085	6.109	0.00	267.62
105.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.128	1.085	6.109	0.00	38.74
110.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.06	0.00	0.134	1.103	6.190	0.00	268.50
110.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.103	6.190	0.00	38.96
115.00	1 5/8" Coax	Yes	5.00	0.000	3.96	3.07	0.00	0.141	1.123	6.269	0.00	269.35
115.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.141	1.123	6.269	0.00	39.17
116.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.61	0.00	0.145	1.136	6.284	0.00	53.90
116.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.145	1.136	6.284	0.00	7.84
Totals:											0.0	6,719.2

Calculated Forces

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

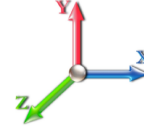


Page: 25

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

Iterations 24

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	-68.68	-6.93	0.00	-770.83	0.00	770.83	4331.76	2165.88	10060.7	5037.85	0.00	0.000	0.000	0.169
5.00	-66.52	-6.84	0.00	-736.18	0.00	736.18	4271.91	2135.96	9681.61	4848.00	0.02	-0.040	0.000	0.167
10.00	-64.37	-6.74	0.00	-701.99	0.00	701.99	4209.88	2104.94	9304.37	4659.10	0.08	-0.080	0.000	0.166
15.00	-62.23	-6.65	0.00	-668.27	0.00	668.27	4145.67	2072.83	8929.41	4471.34	0.19	-0.122	0.000	0.164
20.00	-60.12	-6.56	0.00	-635.00	0.00	635.00	4079.27	2039.64	8557.10	4284.91	0.34	-0.165	0.000	0.163
25.00	-58.05	-6.47	0.00	-602.19	0.00	602.19	4010.69	2005.34	8187.79	4099.98	0.54	-0.209	0.000	0.161
30.00	-56.00	-6.39	0.00	-569.81	0.00	569.81	3939.93	1969.96	7821.85	3916.74	0.78	-0.254	0.000	0.160
35.00	-54.00	-6.29	0.00	-537.89	0.00	537.89	3866.98	1933.49	7459.66	3735.38	1.07	-0.301	0.000	0.158
40.00	-52.03	-6.19	0.00	-506.43	0.00	506.43	3791.85	1895.92	7101.59	3556.07	1.41	-0.348	0.000	0.156
44.00	-50.48	-6.10	0.00	-481.66	0.00	481.66	3730.17	1865.09	6818.34	3414.24	1.72	-0.388	0.000	0.155
45.00	-49.87	-6.10	0.00	-475.56	0.00	475.56	3714.54	1857.27	6747.99	3379.01	1.80	-0.398	0.000	0.154
49.75	-47.04	-5.97	0.00	-446.61	0.00	446.61	3683.20	1841.60	6608.77	3309.30	2.23	-0.446	0.000	0.148
50.00	-46.95	-5.98	0.00	-445.12	0.00	445.12	3679.23	1839.62	6591.31	3300.56	2.25	-0.449	0.000	0.148
55.00	-45.07	-5.87	0.00	-415.20	0.00	415.20	3598.76	1799.38	6244.86	3127.07	2.75	-0.498	0.000	0.145
60.00	-43.23	-5.76	0.00	-385.83	0.00	385.83	3516.10	1758.05	5903.79	2956.28	3.29	-0.548	0.000	0.143
65.00	-41.43	-5.65	0.00	-357.01	0.00	357.01	3431.27	1715.63	5568.46	2788.37	3.89	-0.599	0.000	0.140
70.00	-39.68	-5.54	0.00	-328.74	0.00	328.74	3344.24	1672.12	5239.26	2623.52	4.55	-0.651	0.000	0.137
75.00	-37.97	-5.43	0.00	-301.03	0.00	301.03	3255.04	1627.52	4916.54	2461.92	5.26	-0.705	0.000	0.134
80.00	-36.30	-5.31	0.00	-273.88	0.00	273.88	3137.93	1568.96	4563.27	2285.03	6.03	-0.759	0.000	0.131
85.00	-34.68	-5.20	0.00	-247.31	0.00	247.31	3017.89	1508.95	4219.09	2112.68	6.85	-0.814	0.000	0.129
89.50	-33.25	-5.08	0.00	-223.93	0.00	223.93	2909.87	1454.93	3920.86	1963.34	7.65	-0.865	0.000	0.125
90.00	-33.03	-5.08	0.00	-221.39	0.00	221.39	2897.86	1448.93	3888.39	1947.09	7.74	-0.871	0.000	0.125
93.75	-31.36	-4.97	0.00	-202.35	0.00	202.35	2354.99	1177.49	3133.69	1569.17	8.44	-0.914	0.000	0.142
95.00	-31.01	-4.95	0.00	-196.14	0.00	196.14	2336.81	1168.40	3076.66	1540.62	8.68	-0.928	0.000	0.141
100.00	-29.62	-4.84	0.00	-171.37	0.00	171.37	2262.72	1131.36	2851.92	1428.08	9.69	-0.991	0.000	0.133
105.00	-28.27	-4.72	0.00	-147.18	0.00	147.18	2165.47	1082.73	2607.63	1305.76	10.76	-1.054	0.000	0.126
110.00	-26.96	-4.60	0.00	-123.59	0.00	123.59	2065.44	1032.72	2371.09	1187.31	11.89	-1.114	0.000	0.117
115.00	-25.69	-4.47	0.00	-100.60	0.00	100.60	1965.41	982.71	2145.79	1074.49	13.09	-1.172	0.000	0.107
116.00	-22.05	-4.00	0.00	-96.13	0.00	96.13	1945.41	972.70	2102.08	1052.60	13.34	-1.184	0.000	0.103
120.00	-21.31	-3.92	0.00	-80.13	0.00	80.13	1865.39	932.69	1931.73	967.30	14.35	-1.227	0.000	0.094
123.25	-20.53	-3.84	0.00	-67.40	0.00	67.40	1005.19	502.59	1030.12	515.83	15.20	-1.261	0.000	0.151
125.00	-20.29	-3.81	0.00	-60.68	0.00	60.68	992.91	496.46	998.01	499.75	15.66	-1.278	0.000	0.142
126.00	-15.25	-3.00	0.00	-56.87	0.00	56.87	985.78	492.89	979.76	490.61	15.93	-1.293	0.000	0.131
130.00	-14.76	-2.92	0.00	-44.87	0.00	44.87	956.38	478.19	907.53	454.44	17.04	-1.348	0.000	0.114
135.00	-14.17	-2.82	0.00	-30.25	0.00	30.25	917.66	458.83	819.21	410.21	18.48	-1.405	0.000	0.089
136.00	-7.07	-1.57	0.00	-27.42	0.00	27.42	909.66	454.83	801.84	401.51	18.78	-1.416	0.000	0.076
140.00	-6.67	-1.49	0.00	-21.16	0.00	21.16	876.76	438.38	733.42	367.25	19.98	-1.453	0.000	0.065
145.00	-6.18	-1.39	0.00	-13.71	0.00	13.71	833.68	416.84	650.52	325.74	21.53	-1.492	0.000	0.050
150.00	-5.73	-1.30	0.00	-6.75	0.00	6.75	781.24	390.62	565.69	283.26	23.11	-1.520	0.000	0.031
154.00	-0.12	-0.03	0.00	-0.03	0.00	0.03	733.23	366.62	497.95	249.34	24.39	-1.532	0.000	0.000
155.00	0.00	-0.03	0.00	0.00	0.00	0.00	721.23	360.61	481.69	241.20	24.71	-1.532	0.000	0.000

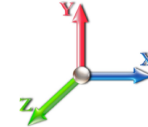
Seismic Segment Forces (Factored)

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 26

Load Case: 1.2D + 1.0E				Iterations 22
Gust Response Factor	1.10	Sds	0.23	Ss 0.21
Dead Load Factor	1.20	Seismic Load Factor	1.00	S1 0.07
Wind Load Factor	0.00	Structure Frequency (f1)	0.36	SA 0.04
				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	0.01	0.00	0.00	
5.00		1129.4	0.00	0.04	0.02	28.78	
10.00		1101.9	0.01	0.05	0.03	37.72	
15.00		1074.5	0.02	0.06	0.04	41.48	
20.00		1047.0	0.03	0.07	0.04	42.83	
25.00		1019.5	0.05	0.07	0.04	43.10	
30.00		992.03	0.07	0.07	0.04	42.98	
35.00		964.55	0.10	0.07	0.04	42.77	
40.00		937.06	0.13	0.07	0.03	42.49	
44.00	Bot - Section 2	729.86	0.16	0.07	0.03	33.59	
45.00		362.47	0.16	0.07	0.03	16.73	
49.75	Top - Section 1	1691.6	0.20	0.06	0.02	78.43	
50.00		44.21	0.20	0.06	0.02	2.05	
55.00		869.78	0.24	0.06	0.02	39.40	
60.00		842.29	0.29	0.05	0.01	35.52	
65.00		814.81	0.34	0.04	0.01	29.34	
70.00		787.32	0.39	0.02	0.01	20.48	
75.00		759.83	0.45	0.00	0.01	9.17	
80.00		732.34	0.51	-0.02	0.01	-3.35	
85.00		704.86	0.57	-0.04	0.01	-15.06	
89.50	Bot - Section 3	610.87	0.64	-0.07	0.02	-20.90	
90.00		123.08	0.64	-0.07	0.02	-4.36	
93.75	Top - Section 2	907.01	0.70	-0.09	0.03	-38.89	
95.00		136.14	0.72	-0.09	0.03	-6.08	
100.00		530.26	0.79	-0.11	0.05	-25.54	
105.00		507.35	0.87	-0.12	0.08	-23.24	
110.00		484.45	0.96	-0.12	0.11	-18.26	
115.00		461.54	1.05	-0.10	0.15	-11.07	
116.00	Appurtenance(s)	1681.9	1.06	-0.09	0.17	-34.64	
120.00	Bot - Section 4	349.08	1.14	-0.05	0.21	-1.68	
123.25	Top - Section 3	439.82	1.20	0.00	0.25	4.66	
125.00		87.51	1.23	0.04	0.28	1.74	
126.00	Appurtenance(s)	2281.8	1.25	0.06	0.30	58.03	
130.00		191.51	1.33	0.17	0.37	9.58	
135.00		227.01	1.44	0.36	0.47	19.48	
136.00	Appurtenance(s)	2439.2	1.46	0.40	0.49	228.40	
140.00		169.52	1.54	0.62	0.60	21.58	
145.00		199.52	1.66	0.96	0.75	34.85	
150.00		185.78	1.77	1.41	0.93	42.36	
154.00	Appurtenance(s)	2459.1	1.87	1.86	1.09	676.57	
155.00	Appurtenance(s)	39.81	1.89	1.98	1.14	11.45	
Totals:		31,118.0				1,492.5	Total Wind: 22,462.0

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

Calculated Forces

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 27

Load Case: 1.2D + 1.0E



Iterations 22

Gust Response Factor 1.10	Sds 0.23	Ss 0.21
Dead Load Factor 1.20	Seismic Load Factor 1.00	Sd1 0.11
Wind Load Factor 0.00	Structure Frequency (f1) 0.36	SA 0.04
	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	-41.95	-1.70	0.00	-193.27	0.00	193.27	4331.76	2165.88	10060.7	5037.85	0.00	0.00	0.00	0.048
5.00	-40.41	-1.68	0.00	-184.78	0.00	184.78	4271.91	2135.96	9681.61	4848.00	0.01	-0.01	0.048	
10.00	-38.90	-1.65	0.00	-176.40	0.00	176.40	4209.88	2104.94	9304.37	4659.10	0.02	-0.02	0.047	
15.00	-37.43	-1.61	0.00	-168.17	0.00	168.17	4145.67	2072.83	8929.41	4471.34	0.05	-0.03	0.047	
20.00	-35.99	-1.57	0.00	-160.12	0.00	160.12	4079.27	2039.64	8557.10	4284.91	0.09	-0.04	0.046	
25.00	-34.59	-1.54	0.00	-152.25	0.00	152.25	4010.69	2005.34	8187.79	4099.98	0.14	-0.05	0.046	
30.00	-33.21	-1.50	0.00	-144.58	0.00	144.58	3939.93	1969.96	7821.85	3916.74	0.20	-0.06	0.045	
35.00	-31.87	-1.46	0.00	-137.08	0.00	137.08	3866.98	1933.49	7459.66	3735.38	0.27	-0.08	0.045	
40.00	-30.57	-1.42	0.00	-129.78	0.00	129.78	3791.85	1895.92	7101.59	3556.07	0.36	-0.09	0.045	
44.00	-29.55	-1.39	0.00	-124.09	0.00	124.09	3730.17	1865.09	6818.34	3414.24	0.43	-0.10	0.044	
45.00	-29.07	-1.38	0.00	-122.70	0.00	122.70	3714.54	1857.27	6747.99	3379.01	0.45	-0.10	0.044	
49.75	-26.87	-1.30	0.00	-116.17	0.00	116.17	3683.20	1841.60	6608.77	3309.30	0.56	-0.11	0.042	
50.00	-26.81	-1.30	0.00	-115.84	0.00	115.84	3679.23	1839.62	6591.31	3300.56	0.57	-0.11	0.042	
55.00	-25.58	-1.26	0.00	-109.35	0.00	109.35	3598.76	1799.38	6244.86	3127.07	0.69	-0.13	0.042	
60.00	-24.39	-1.23	0.00	-103.05	0.00	103.05	3516.10	1758.05	5903.79	2956.28	0.83	-0.14	0.042	
65.00	-23.23	-1.20	0.00	-96.90	0.00	96.90	3431.27	1715.63	5568.46	2788.37	0.99	-0.15	0.042	
70.00	-22.10	-1.18	0.00	-90.89	0.00	90.89	3344.24	1672.12	5239.26	2623.52	1.16	-0.17	0.041	
75.00	-21.01	-1.18	0.00	-84.96	0.00	84.96	3255.04	1627.52	4916.54	2461.92	1.34	-0.18	0.041	
80.00	-19.95	-1.18	0.00	-79.07	0.00	79.07	3137.93	1568.96	4563.27	2285.03	1.54	-0.20	0.041	
85.00	-18.92	-1.18	0.00	-73.18	0.00	73.18	3017.89	1508.95	4219.09	2112.68	1.76	-0.21	0.041	
89.50	-18.02	-1.18	0.00	-67.86	0.00	67.86	2909.87	1454.93	3920.86	1963.34	1.97	-0.23	0.041	
90.00	-17.85	-1.18	0.00	-67.27	0.00	67.27	2897.86	1448.93	3888.39	1947.09	1.99	-0.23	0.041	
93.75	-16.63	-1.18	0.00	-62.84	0.00	62.84	2354.99	1177.49	3133.69	1569.17	2.18	-0.24	0.047	
95.00	-16.42	-1.18	0.00	-61.36	0.00	61.36	2336.81	1168.40	3076.66	1540.62	2.24	-0.25	0.047	
100.00	-15.60	-1.18	0.00	-55.45	0.00	55.45	2262.72	1131.36	2851.92	1428.08	2.51	-0.27	0.046	
105.00	-14.81	-1.19	0.00	-49.53	0.00	49.53	2165.47	1082.73	2607.63	1305.76	2.81	-0.29	0.045	
110.00	-14.05	-1.19	0.00	-43.61	0.00	43.61	2065.44	1032.72	2371.09	1187.31	3.12	-0.31	0.044	
115.00	-13.31	-1.19	0.00	-37.67	0.00	37.67	1965.41	982.71	2145.79	1074.49	3.46	-0.33	0.042	
116.00	-11.25	-1.18	0.00	-36.49	0.00	36.49	1945.41	972.70	2102.08	1052.60	3.53	-0.34	0.040	
120.00	-10.76	-1.18	0.00	-31.78	0.00	31.78	1865.39	932.69	1931.73	967.30	3.82	-0.35	0.039	
123.25	-10.16	-1.17	0.00	-27.96	0.00	27.96	1005.19	502.59	1030.12	515.83	4.06	-0.37	0.064	
125.00	-10.02	-1.17	0.00	-25.92	0.00	25.92	992.91	496.46	998.01	499.75	4.20	-0.37	0.062	
126.00	-7.26	-1.09	0.00	-24.75	0.00	24.75	985.78	492.89	979.76	490.61	4.28	-0.38	0.058	
130.00	-6.99	-1.09	0.00	-20.37	0.00	20.37	956.38	478.19	907.53	454.44	4.61	-0.40	0.052	
135.00	-6.65	-1.07	0.00	-14.95	0.00	14.95	917.66	458.83	819.21	410.21	5.05	-0.43	0.044	
136.00	-3.72	-0.82	0.00	-13.88	0.00	13.88	909.66	454.83	801.84	401.51	5.14	-0.44	0.039	
140.00	-3.50	-0.79	0.00	-10.62	0.00	10.62	876.76	438.38	733.42	367.25	5.51	-0.46	0.033	
145.00	-3.24	-0.76	0.00	-6.65	0.00	6.65	833.68	416.84	650.52	325.74	6.00	-0.48	0.024	
150.00	-3.01	-0.71	0.00	-2.87	0.00	2.87	781.24	390.62	565.69	283.26	6.51	-0.49	0.014	
154.00	-0.05	-0.01	0.00	-0.01	0.00	0.01	733.23	366.62	497.95	249.34	6.92	-0.49	0.000	
155.00	0.00	-0.01	0.00	0.00	0.00	0.00	721.23	360.61	481.69	241.20	7.02	-0.49	0.000	

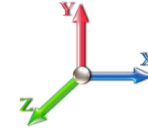
Seismic Segment Forces (Factored)

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 28

Load Case: 0.9D + 1.0E		Iterations 22
Gust Response Factor 1.10	Sds 0.23	Ss 0.21
Dead Load Factor 0.90	Seismic Load Factor 1.00	S1 0.07
Wind Load Factor 0.00	Structure Frequency (f1) 0.36	SA 0.04
		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	0.01	0.00	0.00	
5.00		1129.4	0.00	0.04	0.02	28.78	
10.00		1101.9	0.01	0.05	0.03	37.72	
15.00		1074.5	0.02	0.06	0.04	41.48	
20.00		1047.0	0.03	0.07	0.04	42.83	
25.00		1019.5	0.05	0.07	0.04	43.10	
30.00		992.03	0.07	0.07	0.04	42.98	
35.00		964.55	0.10	0.07	0.04	42.77	
40.00		937.06	0.13	0.07	0.03	42.49	
44.00	Bot - Section 2	729.86	0.16	0.07	0.03	33.59	
45.00		362.47	0.16	0.07	0.03	16.73	
49.75	Top - Section 1	1691.6	0.20	0.06	0.02	78.43	
50.00		44.21	0.20	0.06	0.02	2.05	
55.00		869.78	0.24	0.06	0.02	39.40	
60.00		842.29	0.29	0.05	0.01	35.52	
65.00		814.81	0.34	0.04	0.01	29.34	
70.00		787.32	0.39	0.02	0.01	20.48	
75.00		759.83	0.45	0.00	0.01	9.17	
80.00		732.34	0.51	-0.02	0.01	-3.35	
85.00		704.86	0.57	-0.04	0.01	-15.06	
89.50	Bot - Section 3	610.87	0.64	-0.07	0.02	-20.90	
90.00		123.08	0.64	-0.07	0.02	-4.36	
93.75	Top - Section 2	907.01	0.70	-0.09	0.03	-38.89	
95.00		136.14	0.72	-0.09	0.03	-6.08	
100.00		530.26	0.79	-0.11	0.05	-25.54	
105.00		507.35	0.87	-0.12	0.08	-23.24	
110.00		484.45	0.96	-0.12	0.11	-18.26	
115.00		461.54	1.05	-0.10	0.15	-11.07	
116.00	Appurtenance(s)	1681.9	1.06	-0.09	0.17	-34.64	
120.00	Bot - Section 4	349.08	1.14	-0.05	0.21	-1.68	
123.25	Top - Section 3	439.82	1.20	0.00	0.25	4.66	
125.00		87.51	1.23	0.04	0.28	1.74	
126.00	Appurtenance(s)	2281.8	1.25	0.06	0.30	58.03	
130.00		191.51	1.33	0.17	0.37	9.58	
135.00		227.01	1.44	0.36	0.47	19.48	
136.00	Appurtenance(s)	2439.2	1.46	0.40	0.49	228.40	
140.00		169.52	1.54	0.62	0.60	21.58	
145.00		199.52	1.66	0.96	0.75	34.85	
150.00		185.78	1.77	1.41	0.93	42.36	
154.00	Appurtenance(s)	2459.1	1.87	1.86	1.09	676.57	
155.00	Appurtenance(s)	39.81	1.89	1.98	1.14	11.45	
Totals:		31,118.0				1,492.5	Total Wind: 22,462.0

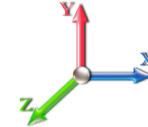
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0E							Iterations 22
Gust Response Factor	1.10				Sds	0.23	Ss 0.21
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.11		S1 0.07
Wind Load Factor	0.00	Structure Frequency (f1)	0.36	SA	0.04	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	-31.46	-1.70	0.00	-191.24	0.00	191.24	4331.76	2165.88	10060.7	5037.85	0.00	0.00	0.00	0.045
5.00	-30.31	-1.67	0.00	-182.75	0.00	182.75	4271.91	2135.96	9681.61	4848.00	0.01	-0.01	0.045	
10.00	-29.18	-1.64	0.00	-174.38	0.00	174.38	4209.88	2104.94	9304.37	4659.10	0.02	-0.02	0.044	
15.00	-28.07	-1.60	0.00	-166.18	0.00	166.18	4145.67	2072.83	8929.41	4471.34	0.05	-0.03	0.044	
20.00	-26.99	-1.57	0.00	-158.16	0.00	158.16	4079.27	2039.64	8557.10	4284.91	0.08	-0.04	0.044	
25.00	-25.94	-1.53	0.00	-150.33	0.00	150.33	4010.69	2005.34	8187.79	4099.98	0.13	-0.05	0.043	
30.00	-24.91	-1.49	0.00	-142.70	0.00	142.70	3939.93	1969.96	7821.85	3916.74	0.19	-0.06	0.043	
35.00	-23.90	-1.45	0.00	-135.26	0.00	135.26	3866.98	1933.49	7459.66	3735.38	0.27	-0.07	0.042	
40.00	-22.92	-1.41	0.00	-128.02	0.00	128.02	3791.85	1895.92	7101.59	3556.07	0.35	-0.09	0.042	
44.00	-22.16	-1.38	0.00	-122.38	0.00	122.38	3730.17	1865.09	6818.34	3414.24	0.43	-0.10	0.042	
45.00	-21.80	-1.36	0.00	-121.00	0.00	121.00	3714.54	1857.27	6747.99	3379.01	0.45	-0.10	0.042	
49.75	-20.15	-1.28	0.00	-114.53	0.00	114.53	3683.20	1841.60	6608.77	3309.30	0.55	-0.11	0.040	
50.00	-20.11	-1.28	0.00	-114.21	0.00	114.21	3679.23	1839.62	6591.31	3300.56	0.56	-0.11	0.040	
55.00	-19.19	-1.25	0.00	-107.80	0.00	107.80	3598.76	1799.38	6244.86	3127.07	0.69	-0.13	0.040	
60.00	-18.29	-1.21	0.00	-101.56	0.00	101.56	3516.10	1758.05	5903.79	2956.28	0.82	-0.14	0.040	
65.00	-17.42	-1.19	0.00	-95.50	0.00	95.50	3431.27	1715.63	5568.46	2788.37	0.98	-0.15	0.039	
70.00	-16.58	-1.17	0.00	-89.57	0.00	89.57	3344.24	1672.12	5239.26	2623.52	1.14	-0.17	0.039	
75.00	-15.75	-1.16	0.00	-83.74	0.00	83.74	3255.04	1627.52	4916.54	2461.92	1.32	-0.18	0.039	
80.00	-14.96	-1.16	0.00	-77.94	0.00	77.94	3137.93	1568.96	4563.27	2285.03	1.52	-0.20	0.039	
85.00	-14.19	-1.16	0.00	-72.13	0.00	72.13	3017.89	1508.95	4219.09	2112.68	1.73	-0.21	0.039	
89.50	-13.51	-1.16	0.00	-66.90	0.00	66.90	2909.87	1454.93	3920.86	1963.34	1.94	-0.23	0.039	
90.00	-13.39	-1.16	0.00	-66.32	0.00	66.32	2897.86	1448.93	3888.39	1947.09	1.97	-0.23	0.039	
93.75	-12.47	-1.16	0.00	-61.96	0.00	61.96	2354.99	1177.49	3133.69	1569.17	2.15	-0.24	0.045	
95.00	-12.31	-1.16	0.00	-60.51	0.00	60.51	2336.81	1168.40	3076.66	1540.62	2.21	-0.25	0.045	
100.00	-11.70	-1.16	0.00	-54.70	0.00	54.70	2262.72	1131.36	2851.92	1428.08	2.48	-0.27	0.043	
105.00	-11.11	-1.17	0.00	-48.88	0.00	48.88	2165.47	1082.73	2607.63	1305.76	2.77	-0.29	0.043	
110.00	-10.53	-1.17	0.00	-43.05	0.00	43.05	2065.44	1032.72	2371.09	1187.31	3.08	-0.31	0.041	
115.00	-9.98	-1.17	0.00	-37.22	0.00	37.22	1965.41	982.71	2145.79	1074.49	3.41	-0.33	0.040	
116.00	-8.44	-1.16	0.00	-36.05	0.00	36.05	1945.41	972.70	2102.08	1052.60	3.48	-0.33	0.039	
120.00	-8.06	-1.16	0.00	-31.42	0.00	31.42	1865.39	932.69	1931.73	967.30	3.77	-0.35	0.037	
123.25	-7.62	-1.15	0.00	-27.66	0.00	27.66	1005.19	502.59	1030.12	515.83	4.01	-0.36	0.061	
125.00	-7.51	-1.15	0.00	-25.64	0.00	25.64	992.91	496.46	998.01	499.75	4.14	-0.37	0.059	
126.00	-5.45	-1.08	0.00	-24.49	0.00	24.49	985.78	492.89	979.76	490.61	4.22	-0.38	0.055	
130.00	-5.24	-1.07	0.00	-20.17	0.00	20.17	956.38	478.19	907.53	454.44	4.55	-0.40	0.050	
135.00	-4.99	-1.05	0.00	-14.81	0.00	14.81	917.66	458.83	819.21	410.21	4.98	-0.43	0.042	
136.00	-2.79	-0.81	0.00	-13.75	0.00	13.75	909.66	454.83	801.84	401.51	5.07	-0.43	0.037	
140.00	-2.62	-0.79	0.00	-10.52	0.00	10.52	876.76	438.38	733.42	367.25	5.44	-0.45	0.032	
145.00	-2.43	-0.75	0.00	-6.59	0.00	6.59	833.68	416.84	650.52	325.74	5.92	-0.47	0.023	
150.00	-2.25	-0.71	0.00	-2.84	0.00	2.84	781.24	390.62	565.69	283.26	6.42	-0.48	0.013	
154.00	-0.04	-0.01	0.00	-0.01	0.00	0.01	733.23	366.62	497.95	249.34	6.83	-0.49	0.000	
155.00	0.00	-0.01	0.00	0.00	0.00	0.00	721.23	360.61	481.69	241.20	6.93	-0.49	0.000	

Wind Loading - Shaft

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



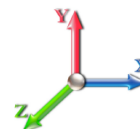
Page: 30

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

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	241.40	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	235.64	0.650	0.000	5.00	23.757	15.44	104.1	0.0	1129.5
10.00		1.00	0.70	6.129	6.74	229.87	0.650	0.000	5.00	23.183	15.07	101.6	0.0	1102.0
15.00		1.00	0.70	6.129	6.74	224.11	0.650	0.000	5.00	22.609	14.70	99.1	0.0	1074.5
20.00		1.00	0.70	6.129	6.74	218.34	0.650	0.000	5.00	22.034	14.32	96.6	0.0	1047.0
25.00		1.00	0.70	6.129	6.74	212.57	0.650	0.000	5.00	21.460	13.95	94.0	0.0	1019.5
30.00		1.00	0.71	6.192	6.81	207.87	0.650	0.000	5.00	20.886	13.58	92.5	0.0	992.0
35.00		1.00	0.74	6.462	7.11	206.43	0.650	0.000	5.00	20.311	13.20	93.8	0.0	964.5
40.00		1.00	0.77	6.706	7.38	204.27	0.650	0.000	5.00	19.737	12.83	94.6	0.0	937.1
44.00	Bot - Section 2	1.00	0.79	6.887	7.58	202.12	0.650	0.000	4.00	15.376	9.99	75.7	0.0	729.9
45.00		1.00	0.79	6.931	7.62	201.53	0.650	0.000	1.00	3.850	2.50	19.1	0.0	362.5
49.75	Top - Section 1	1.00	0.81	7.128	7.84	198.47	0.650	0.000	4.75	17.974	11.68	91.6	0.0	1691.7
50.00		1.00	0.82	7.138	7.85	201.74	0.650	0.000	0.25	0.932	0.61	4.8	0.0	44.2
55.00		1.00	0.84	7.331	8.06	198.14	0.650	0.000	5.00	18.331	11.92	96.1	0.0	869.8
60.00		1.00	0.86	7.513	8.26	194.19	0.650	0.000	5.00	17.757	11.54	95.4	0.0	842.3
65.00		1.00	0.88	7.684	8.45	189.94	0.650	0.000	5.00	17.183	11.17	94.4	0.0	814.8
70.00		1.00	0.90	7.846	8.63	185.40	0.650	0.000	5.00	16.609	10.80	93.2	0.0	787.3
75.00		1.00	0.91	8.000	8.80	180.63	0.656 *	0.000	5.00	16.034	10.51	92.5	0.0	759.8
80.00		1.00	0.93	8.147	8.96	175.63	0.663 *	0.000	5.00	15.460	10.25	91.9	0.0	732.3
85.00		1.00	0.95	8.287	9.12	170.43	0.671 *	0.000	5.00	14.886	9.99	91.1	0.0	704.9
89.50	Bot - Section 3	1.00	0.96	8.409	9.25	165.60	0.679 *	0.000	4.50	12.906	8.77	81.1	0.0	610.9
90.00		1.00	0.96	8.422	9.26	165.06	0.684 *	0.000	0.50	1.432	0.98	9.1	0.0	123.1
93.75	Top - Section 2	1.00	0.97	8.520	9.37	160.91	0.688 *	0.000	3.75	10.555	7.26	68.1	0.0	907.0
95.00		1.00	0.98	8.552	9.41	162.65	0.688 *	0.000	1.25	3.446	2.37	22.3	0.0	136.1
100.00		1.00	0.99	8.677	9.54	156.97	0.695 *	0.000	5.00	13.427	9.33	89.0	0.0	530.3
105.00		1.00	1.00	8.797	9.68	151.15	0.705 *	0.000	5.00	12.853	9.07	87.7	0.0	507.4
110.00		1.00	1.02	8.914	9.81	145.19	0.717 *	0.000	5.00	12.278	8.80	86.3	0.0	484.4
115.00		1.00	1.03	9.027	9.93	139.11	0.730 *	0.000	5.00	11.704	8.54	84.8	0.0	461.5
116.00	Appurtenance(s)	1.00	1.03	9.049	9.95	137.88	0.738 *	0.000	1.00	2.272	1.68	16.7	0.0	89.6
120.00	Bot - Section 4	1.00	1.04	9.136	10.05	132.91	0.650	0.000	4.00	8.858	5.76	57.9	0.0	349.1
123.25	Top - Section 3	1.00	1.05	9.206	10.13	128.82	0.650	0.000	3.25	7.030	4.57	46.3	0.0	439.8
125.00		1.00	1.06	9.243	10.17	128.56	0.650	0.000	1.75	3.685	2.39	24.4	0.0	87.5
126.00	Appurtenance(s)	1.00	1.06	9.264	10.19	127.29	0.650	0.000	1.00	2.074	1.35	13.7	0.0	49.3
130.00		1.00	1.07	9.346	10.28	122.16	0.650	0.000	4.00	8.066	5.24	53.9	0.0	191.5
135.00		1.00	1.08	9.447	10.39	115.65	0.650	0.000	5.00	9.565	6.22	64.6	0.0	227.0
136.00	Appurtenance(s)	1.00	1.08	9.466	10.41	114.34	0.650	0.000	1.00	1.844	1.20	12.5	0.0	43.8
140.00		1.00	1.09	9.545	10.50	109.06	0.650	0.000	4.00	7.147	4.65	48.8	0.0	169.5
145.00		1.00	1.10	9.640	10.60	102.37	0.650	0.000	5.00	8.417	5.47	58.0	0.0	199.5
150.00		1.00	1.11	9.733	10.71	95.59	0.650	0.000	5.00	7.843	5.10	54.6	0.0	185.8
154.00	Appurtenance(s)	1.00	1.12	9.806	10.79	90.12	0.650	0.000	4.00	5.861	3.81	41.1	0.0	138.7
155.00	Appurtenance(s)	1.00	1.12	9.824	10.81	88.74	0.650	0.000	1.00	1.408	0.92	9.9	0.0	33.3
Totals:									155.00			2,652.7	22,570.6	

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

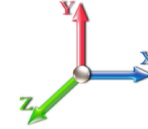
Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 31



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa 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	155.00	6' Lightning rod	1	9.824	10.807	1.00	1.00	0.38	6.50	0.000	0.000	4.11	0.00	0.00
2	154.00	800 MHz RRH	3	9.849	10.834	0.92	1.00	6.87	159.00	0.000	2.400	74.46	0.00	178.70
3	154.00	APXVSPP18-C-A20	3	9.849	10.834	0.82	1.00	19.73	171.00	0.000	2.400	213.75	0.00	513.01
4	154.00	ACU-A20-N	4	9.849	10.834	1.00	1.00	0.56	4.00	0.000	2.400	6.07	0.00	14.56
5	154.00	APXVTM14-C-120	3	9.849	10.834	0.76	1.00	14.46	168.00	0.000	2.400	156.61	0.00	375.87
6	154.00	TD-RRH8x20-25	3	9.849	10.834	0.68	1.00	8.26	210.00	0.000	2.400	89.51	0.00	214.83
7	154.00	ALU 800MHz External	3	9.849	10.834	0.69	1.00	1.61	26.40	0.000	2.400	17.49	0.00	41.98
8	154.00	1900MHz RRH	3	9.849	10.834	1.00	1.00	11.40	132.00	0.000	2.400	123.51	0.00	296.43
9	154.00	Low Profile Platform	1	9.806	10.787	1.00	1.00	25.00	1200.00	0.000	0.000	269.67	0.00	0.00
10	154.00	Collar Mount	1	9.806	10.787	0.75	1.00	3.75	250.00	0.000	0.000	40.45	0.00	0.00
11	136.00	Low Profile Platform	1	9.466	10.413	1.00	1.00	25.00	1200.00	0.000	0.000	260.33	0.00	0.00
12	136.00	LPA-80063/6CF_5	2	9.466	10.413	0.76	0.80	14.59	54.00	0.000	0.000	151.95	0.00	0.00
13	136.00	LPA-80080-6CF	2	9.466	10.413	0.60	0.80	10.36	42.00	0.000	0.000	107.84	0.00	0.00
14	136.00	LPA-80080/4CF	2	9.466	10.413	0.59	0.80	6.39	24.00	0.000	0.000	66.58	0.00	0.00
15	136.00	Samsung - B5/B13	3	9.466	10.413	0.66	0.80	3.74	252.30	0.000	0.000	39.00	0.00	0.00
16	136.00	Samsung - B2/B66A	3	9.466	10.413	0.62	0.80	3.47	210.90	0.000	0.000	36.18	0.00	0.00
17	136.00	Samsung - VZS01	3	9.466	10.413	0.56	0.80	7.90	261.30	0.000	0.000	82.22	0.00	0.00
18	136.00	JMA - MX06FIT665-02	6	9.466	10.413	0.76	0.80	37.16	306.00	0.000	0.000	386.99	0.00	0.00
19	136.00	Commscope -	1	9.466	10.413	0.57	0.80	2.73	45.00	0.000	0.000	28.39	0.00	0.00
20	126.00	860 10025	6	9.264	10.190	0.56	0.80	0.60	7.20	0.000	0.000	6.16	0.00	0.00
21	126.00	RRU 11	3	9.264	10.190	0.54	0.80	7.21	165.00	0.000	0.000	73.51	0.00	0.00
22	126.00	P65-16-XLH-RR	3	9.264	10.190	0.60	0.80	14.69	159.00	0.000	0.000	149.67	0.00	0.00
23	126.00	RRUS 12	3	9.264	10.190	0.54	0.80	4.34	180.00	0.000	0.000	44.24	0.00	0.00
24	126.00	7770	3	9.264	10.190	0.60	0.80	9.90	105.00	0.000	0.000	100.88	0.00	0.00
25	126.00	DC6-48-60-18-8F	1	9.264	10.190	0.80	0.80	1.18	31.80	0.000	0.000	11.98	0.00	0.00
26	126.00	LGP21401	6	9.264	10.190	0.51	0.80	3.96	84.60	0.000	0.000	40.38	0.00	0.00
27	126.00	Low Profile Platform	1	9.264	10.190	1.00	1.00	22.00	1500.00	0.000	0.000	224.18	0.00	0.00
28	116.00	Air 21 B4A/B2P	6	9.049	9.954	0.69	0.80	25.14	542.40	0.000	0.000	250.24	0.00	0.00
29	116.00	T-Arms	3	9.049	9.954	0.56	0.75	13.50	1050.00	0.000	0.000	134.38	0.00	0.00
Totals:									8,547.40			3,190.74		

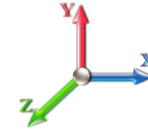
Total Applied Force Summary

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 32



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

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		104.10	1281.27	0.00	0.00
10.00		101.59	1253.78	0.00	0.00
15.00		99.07	1226.30	0.00	0.00
20.00		96.55	1198.81	0.00	0.00
25.00		94.04	1171.32	0.00	0.00
30.00		92.46	1143.83	0.00	0.00
35.00		93.84	1116.35	0.00	0.00
40.00		94.64	1088.86	0.00	0.00
44.00		75.72	851.30	0.00	0.00
45.00		19.08	392.83	0.00	0.00
49.75		91.60	1835.90	0.00	0.00
50.00		4.75	51.80	0.00	0.00
55.00		96.09	1021.58	0.00	0.00
60.00		95.38	994.09	0.00	0.00
65.00		94.40	966.61	0.00	0.00
70.00		93.17	939.12	0.00	0.00
75.00		92.51	911.63	0.00	0.00
80.00		91.87	884.14	0.00	0.00
85.00		91.07	856.66	0.00	0.00
89.50		81.10	747.49	0.00	0.00
90.00		9.07	138.26	0.00	0.00
93.75		68.06	1020.86	0.00	0.00
95.00		22.32	174.09	0.00	0.00
100.00		89.02	682.06	0.00	0.00
105.00		87.73	659.15	0.00	0.00
110.00		86.33	636.25	0.00	0.00
115.00		84.83	613.34	0.00	0.00
116.00	(9) attachments	401.31	1712.32	0.00	0.00
120.00		57.86	416.20	0.00	0.00
123.25		46.27	494.35	0.00	0.00
125.00		24.35	116.88	0.00	0.00
126.00	(26) attachments	664.74	2298.63	0.00	0.00
130.00		53.90	231.43	0.00	0.00
135.00		64.61	276.91	0.00	0.00
136.00	(23) attachments	1171.95	2449.23	0.00	0.00
140.00		48.77	180.08	0.00	0.00
145.00		58.01	212.72	0.00	0.00
150.00		54.58	198.98	0.00	0.00
154.00	(24) attachments	1032.63	2469.69	0.00	1635.39
155.00	(1) attachments	13.99	39.81	0.00	0.00
Totals:		5,843.39	34,954.91	0.00	1,635.39

Linear Appurtenance Segment Forces (Factored)

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind	Iterations 23
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	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.069	0.000	6.129	0.00	62.40
5.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	6.129	0.00	5.50
10.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.071	0.000	6.129	0.00	62.40
10.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.071	0.000	6.129	0.00	5.50
15.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.073	0.000	6.129	0.00	62.40
15.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.073	0.000	6.129	0.00	5.50
20.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.075	0.000	6.129	0.00	62.40
20.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	6.129	0.00	5.50
25.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.077	0.000	6.129	0.00	62.40
25.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	6.129	0.00	5.50
30.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.079	0.000	6.192	0.00	62.40
30.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	6.192	0.00	5.50
35.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.081	0.000	6.462	0.00	62.40
35.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.081	0.000	6.462	0.00	5.50
40.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.084	0.000	6.706	0.00	62.40
40.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	6.706	0.00	5.50
44.00	1 5/8" Coax	Yes	4.00	0.000	3.96	1.32	0.00	0.086	0.000	6.887	0.00	49.92
44.00	1 5/8" Hybrid	Yes	4.00	0.000	0.00	0.00	0.00	0.086	0.000	6.887	0.00	4.40
45.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.087	0.000	6.931	0.00	12.48
45.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.087	0.000	6.931	0.00	1.10
49.75	1 5/8" Coax	Yes	4.75	0.000	3.96	1.57	0.00	0.089	0.000	7.128	0.00	59.28
49.75	1 5/8" Hybrid	Yes	4.75	0.000	0.00	0.00	0.00	0.089	0.000	7.128	0.00	5.23
50.00	1 5/8" Coax	Yes	0.25	0.000	3.96	0.08	0.00	0.089	0.000	7.138	0.00	3.12
50.00	1 5/8" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.089	0.000	7.138	0.00	0.28
55.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.090	0.000	7.331	0.00	62.40
55.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	7.331	0.00	5.50
60.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.093	0.000	7.513	0.00	62.40
60.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.093	0.000	7.513	0.00	5.50
65.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.096	0.000	7.684	0.00	62.40
65.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.096	0.000	7.684	0.00	5.50
70.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.099	0.000	7.846	0.00	62.40
70.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.099	0.000	7.846	0.00	5.50
75.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.103	1.009	8.000	0.00	62.40
75.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.103	1.009	8.000	0.00	5.50
80.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.107	1.020	8.147	0.00	62.40
80.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.107	1.020	8.147	0.00	5.50
85.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.111	1.033	8.287	0.00	62.40
85.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.111	1.033	8.287	0.00	5.50
89.50	1 5/8" Coax	Yes	4.50	0.000	3.96	1.48	0.00	0.115	1.045	8.409	0.00	56.16
89.50	1 5/8" Hybrid	Yes	4.50	0.000	0.00	0.00	0.00	0.115	1.045	8.409	0.00	4.95
90.00	1 5/8" Coax	Yes	0.50	0.000	3.96	0.17	0.00	0.117	1.052	8.422	0.00	6.24
90.00	1 5/8" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	0.117	1.052	8.422	0.00	0.55
93.75	1 5/8" Coax	Yes	3.75	0.000	3.96	1.24	0.00	0.119	1.058	8.520	0.00	46.80
93.75	1 5/8" Hybrid	Yes	3.75	0.000	0.00	0.00	0.00	0.119	1.058	8.520	0.00	4.13
95.00	1 5/8" Coax	Yes	1.25	0.000	3.96	0.41	0.00	0.120	1.059	8.552	0.00	15.60
95.00	1 5/8" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.120	1.059	8.552	0.00	1.38
100.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.123	1.069	8.677	0.00	62.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



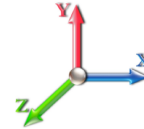
Page: 34

Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

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	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.123	1.069	8.677	0.00	5.50
105.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.128	1.085	8.797	0.00	62.40
105.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.128	1.085	8.797	0.00	5.50
110.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.134	1.103	8.914	0.00	62.40
110.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.134	1.103	8.914	0.00	5.50
115.00	1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	0.141	1.123	9.027	0.00	62.40
115.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.141	1.123	9.027	0.00	5.50
116.00	1 5/8" Coax	Yes	1.00	0.000	3.96	0.33	0.00	0.145	1.136	9.049	0.00	12.48
116.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.145	1.136	9.049	0.00	1.10
Totals:											0.0	1,575.3

Calculated Forces

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

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	-34.95	-5.85	0.00	-653.66	0.00	653.66	4331.76	2165.88	10060.7	5037.85	0.00	0.000	0.000	0.138
5.00	-33.67	-5.77	0.00	-624.40	0.00	624.40	4271.91	2135.96	9681.61	4848.00	0.02	-0.034	0.000	0.137
10.00	-32.41	-5.69	0.00	-595.56	0.00	595.56	4209.88	2104.94	9304.37	4659.10	0.07	-0.068	0.000	0.136
15.00	-31.18	-5.60	0.00	-567.13	0.00	567.13	4145.67	2072.83	8929.41	4471.34	0.16	-0.104	0.000	0.134
20.00	-29.98	-5.52	0.00	-539.11	0.00	539.11	4079.27	2039.64	8557.10	4284.91	0.29	-0.140	0.000	0.133
25.00	-28.80	-5.45	0.00	-511.49	0.00	511.49	4010.69	2005.34	8187.79	4099.98	0.46	-0.177	0.000	0.132
30.00	-27.66	-5.37	0.00	-484.26	0.00	484.26	3939.93	1969.96	7821.85	3916.74	0.66	-0.216	0.000	0.131
35.00	-26.54	-5.29	0.00	-457.42	0.00	457.42	3866.98	1933.49	7459.66	3735.38	0.91	-0.255	0.000	0.129
40.00	-25.45	-5.21	0.00	-430.98	0.00	430.98	3791.85	1895.92	7101.59	3556.07	1.20	-0.296	0.000	0.128
44.00	-24.59	-5.13	0.00	-410.16	0.00	410.16	3730.17	1865.09	6818.34	3414.24	1.46	-0.329	0.000	0.127
45.00	-24.20	-5.12	0.00	-405.03	0.00	405.03	3714.54	1857.27	6747.99	3379.01	1.53	-0.338	0.000	0.126
49.75	-22.36	-5.03	0.00	-380.69	0.00	380.69	3683.20	1841.60	6608.77	3309.30	1.89	-0.379	0.000	0.121
50.00	-22.31	-5.03	0.00	-379.43	0.00	379.43	3679.23	1839.62	6591.31	3300.56	1.91	-0.381	0.000	0.121
55.00	-21.28	-4.94	0.00	-354.28	0.00	354.28	3598.76	1799.38	6244.86	3127.07	2.33	-0.423	0.000	0.119
60.00	-20.29	-4.86	0.00	-329.56	0.00	329.56	3516.10	1758.05	5903.79	2956.28	2.80	-0.466	0.000	0.117
65.00	-19.32	-4.77	0.00	-305.27	0.00	305.27	3431.27	1715.63	5568.46	2788.37	3.31	-0.510	0.000	0.115
70.00	-18.37	-4.68	0.00	-281.43	0.00	281.43	3344.24	1672.12	5239.26	2623.52	3.87	-0.555	0.000	0.113
75.00	-17.46	-4.59	0.00	-258.02	0.00	258.02	3255.04	1627.52	4916.54	2461.92	4.47	-0.600	0.000	0.110
80.00	-16.57	-4.51	0.00	-235.05	0.00	235.05	3157.93	1568.96	4563.27	2285.03	5.13	-0.647	0.000	0.108
85.00	-15.71	-4.42	0.00	-212.52	0.00	212.52	3017.89	1508.95	4219.09	2112.68	5.83	-0.694	0.000	0.106
89.50	-14.97	-4.33	0.00	-192.65	0.00	192.65	2909.87	1454.93	3920.86	1963.34	6.50	-0.738	0.000	0.103
90.00	-14.83	-4.33	0.00	-190.48	0.00	190.48	2897.86	1448.93	3888.39	1947.09	6.58	-0.743	0.000	0.103
93.75	-13.81	-4.25	0.00	-174.25	0.00	174.25	2354.99	1177.49	3133.69	1569.17	7.18	-0.780	0.000	0.117
95.00	-13.63	-4.24	0.00	-168.94	0.00	168.94	2336.81	1168.40	3076.66	1540.62	7.39	-0.792	0.000	0.115
100.00	-12.94	-4.15	0.00	-147.76	0.00	147.76	2262.72	1131.36	2851.92	1428.08	8.25	-0.847	0.000	0.109
105.00	-12.28	-4.06	0.00	-127.01	0.00	127.01	2165.47	1082.73	2607.63	1305.76	9.16	-0.900	0.000	0.103
110.00	-11.64	-3.98	0.00	-106.70	0.00	106.70	2065.44	1032.72	2371.09	1187.31	10.13	-0.952	0.000	0.096
115.00	-11.03	-3.89	0.00	-86.82	0.00	86.82	1965.41	982.71	2145.79	1074.49	11.16	-1.002	0.000	0.086
116.00	-9.32	-3.46	0.00	-82.93	0.00	82.93	1945.41	972.70	2102.08	1052.60	11.37	-1.013	0.000	0.084
120.00	-8.91	-3.40	0.00	-69.09	0.00	69.09	1865.39	932.69	1931.73	967.30	12.23	-1.050	0.000	0.076
123.25	-8.41	-3.35	0.00	-58.04	0.00	58.04	1005.19	502.59	1030.12	515.83	12.96	-1.079	0.000	0.121
125.00	-8.30	-3.32	0.00	-52.19	0.00	52.19	992.91	496.46	998.01	499.75	13.36	-1.094	0.000	0.113
126.00	-6.01	-2.62	0.00	-48.86	0.00	48.86	985.78	492.89	979.76	490.61	13.59	-1.107	0.000	0.106
130.00	-5.78	-2.56	0.00	-38.40	0.00	38.40	956.38	478.19	907.53	454.44	14.54	-1.154	0.000	0.091
135.00	-5.50	-2.50	0.00	-25.58	0.00	25.58	917.66	458.83	819.21	410.21	15.77	-1.203	0.000	0.068
136.00	-3.07	-1.27	0.00	-23.08	0.00	23.08	909.66	454.83	801.84	401.51	16.03	-1.212	0.000	0.061
140.00	-2.89	-1.22	0.00	-17.99	0.00	17.99	876.76	438.38	733.42	367.25	17.05	-1.243	0.000	0.052
145.00	-2.68	-1.16	0.00	-11.87	0.00	11.87	833.68	416.84	650.52	325.74	18.37	-1.276	0.000	0.040
150.00	-2.48	-1.10	0.00	-6.06	0.00	6.06	781.24	390.62	565.69	283.26	19.73	-1.301	0.000	0.025
154.00	-0.04	-0.01	0.00	-0.01	0.00	0.01	733.23	366.62	497.95	249.34	20.82	-1.312	0.000	0.000
155.00	0.00	-0.01	0.00	0.00	0.00	0.00	721.23	360.61	481.69	241.20	21.10	-1.312	0.000	0.000

Final Analysis Summary

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 36

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 93 mph Wind	22.5	0.00	41.92	0.00	0.00	2527.57
0.9D + 1.6W 93 mph Wind	22.5	0.00	31.43	0.00	0.00	2502.69
1.2D + 1.0Di + 1.0Wi 50 mph Wind	6.9	0.00	68.68	0.00	0.00	770.83
1.2D + 1.0E	1.7	0.00	41.95	0.00	0.00	193.27
0.9D + 1.0E	1.7	0.00	31.46	0.00	0.00	191.24
1.0D + 1.0W 60 mph Wind	5.9	0.00	34.95	0.00	0.00	653.66

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 93 mph Wind	-41.92	-22.51	0.00	-2527.5	0.00	-2527.5	4331.76	2165.8	10060.7	5037.85	0.00	0.512
0.9D + 1.6W 93 mph Wind	-31.43	-22.50	0.00	-2502.6	0.00	-2502.6	4331.76	2165.8	10060.7	5037.85	0.00	0.504
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-68.68	-6.93	0.00	-770.83	0.00	-770.83	4331.76	2165.8	10060.7	5037.85	0.00	0.169
1.2D + 1.0E	-10.16	-1.17	0.00	-27.96	0.00	-27.96	1005.19	502.59	1030.12	515.83	123.25	0.064
0.9D + 1.0E	-7.62	-1.15	0.00	-27.66	0.00	-27.66	1005.19	502.59	1030.12	515.83	123.25	0.061
1.0D + 1.0W 60 mph Wind	-34.95	-5.85	0.00	-653.66	0.00	-653.66	4331.76	2165.8	10060.7	5037.85	0.00	0.138

Base Plate Summary

Structure: CT00248-S	Code: EIA/TIA-222-G	3/23/2021
Site Name: North Bethel	Exposure: B	
Height: 155.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 37



Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 50.00	Bolt Circle: 64.00
Moment (kip-ft): 2722.50	Width (in): 64.00	Number Bolts: 20.00
Axial (kip): 38.70	Style: Clipped	Bolt Type: 2.25" 18J
Shear (kip): 32.40	Polygon Sides: 0.00	Bolt Diameter (in): 2.25
Analysis	Clip Length (in): 15.00	Yield (ksi): 75.00
Moment (kip-ft): 2527.57	Effective Len (in): 8.82	Ultimate (ksi): 100.00
Axial (kip): 41.92	Moment (kip-in): 352.11	Arrangement: Clustered
Shear (kip): 22.51	Allow Stress (ksi): 67.50	Cluster Dist (in): 6.00
	Applied Stress (ksi): 31.73	Start Angle (deg): 45.00
Moment Design %: 92.84	Stress Ratio: 0.47	Compression
		Force (kip): 98.22
		Allowable (kip): 260.00
		Ratio: 0.39
		Tension
		Force (kip): 91.35
		Allowable (kip): 260.00
		Ratio: 0.36

	Monopole Mat Foundation Design		Date	
			3/19/2021	
	Customer Name:	Verizon	EIA/TIA Standard:	EIA-222-G
	Site Name:		Structure Height (Ft.):	155
	Site Number:	CT00248-VZW-031921	Engineer Name:	SBA Engineer
Engr. Number:		Engineer Login ID:		

Foundation Info Obtained from:

Drawings/Calculations
Monopole
Analysis

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	41.9	Shear Force (Kips):	22.5
Uplift Force (Kips):	0.0	Moment (Kips-ft):	2527.6

Allowable overstress %: 5.0%

Foundation Geometries:

		Mods required -Yes/No?:	No
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	8.5
Pier Height A. G. (ft.):	0.50	Thickness of Pad (ft):	3.00
Length of Pad (ft.):	23.5	Width of Pad (ft.):	23.5
Final Length of pad (ft)	23.5	Final width of pad (ft):	23.5

Material Properties and Reabr Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	40	
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	36	Tie Spacing (in):	8.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	11	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	28	Qty. of Rebar in Pad (W):	28	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	28	Qty. of Rebar in Pad (W):	28	

Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

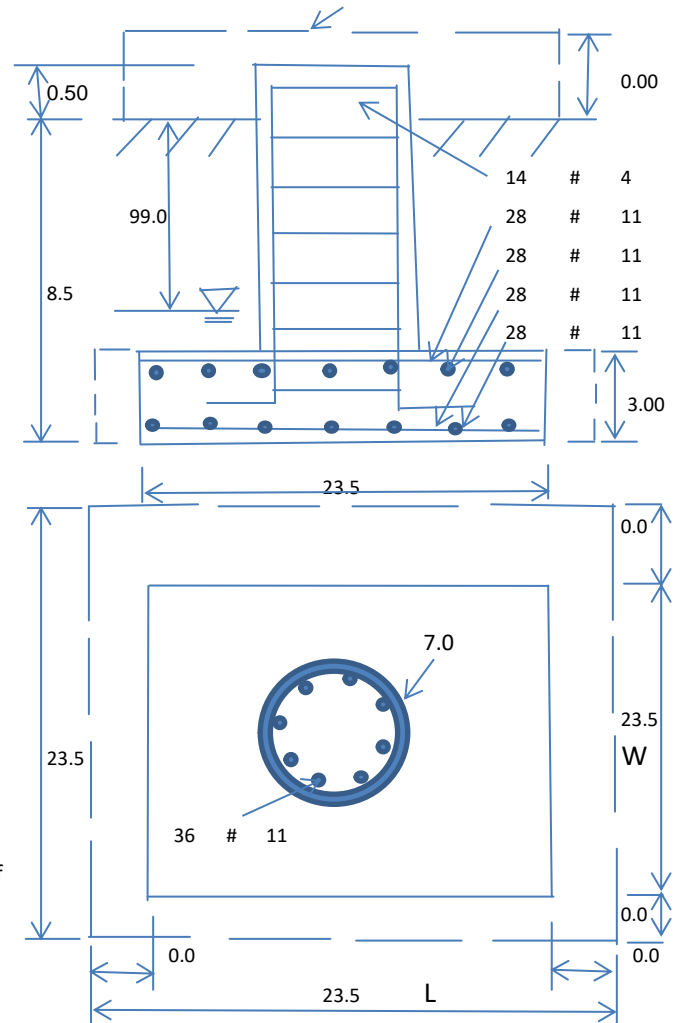
Soil Unit Weight (pcf):	100.0	Soil Buoyant Weight:	37.6	Pcf	
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad: 30
Ultimate Bearing Pressure (psf):	5000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad: 25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad: 25
Consider soil hor. resist. for OTM.:	Yes	Reduction factor on the maximum soil bearing pressure:	1.00		

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	2825.71	Total Dry Soil Weight (Kips):	282.57
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	282.57	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	1887.66	Total Dry Concrete Weight (Kips):	283.15
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	283.15	Total Vertical Load on Base (Kips):	607.62

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	2249	<	Allowable Factored Soil Bearing (psf):	3750	0.60	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	6474.8	>	Design Factored Momont (kips-ft):	2465	0.38	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	2.63					OK!



Check the capacities of Reinforcing Concrete:

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

Load/
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	1.56		Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	8832.5	>	Design Factored Moment (Mu, Kips-Ft)	2662.6	0.30	OK!
Calculated Shear Capacity (Kips):	589.7	>	Design Factored Shear (Kips):	22.5	0.04	OK!
Calculated Tension Capacity (Tn, Kips):	3032.6	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	7273.9	>	Design Factored Axial Load (Pu Kips):	41.9	0.01	OK!
Moment & Axial Strength Combination:	0.30	OK!	Check Tie Spacing (Design/Required):		0.6667	OK!
Pier Reinforcement Ratio:	0.010		Reinforcement Ratio is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	748.6	>	One-Way Factored Shear (L-D. Kips):	181.0	0.24	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	748.6	>	One-Way Factored Shear (W-D., Kips):	181.0	0.24	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	664.2	>	One-Way Factored Shear (C-C, Kips):	171.4	0.26	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0048	OK!	Lower Steel Pad Reinf. Ratio (W-Direct.):	0.0048		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	5993.2	>	Moment at Bottom (L-Dir. K-Ft):	968.0	0.16	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	5993.2	>	Moment at Bottom (W-Dir. K-Ft):	968.0	0.16	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	8340.4	>	Moment at Bottom (C-C Dir. K-Ft):	1369.0	0.16	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0048	OK!	Upper Steel Reinf. Ratio (W-Dir.):	0.0048		
Upper Steel Pad Moment Capacity (L-Direct. Kips-ft):	5993.2	>	Moment at the top (L-Dir K-Ft):	365.3	0.06	OK!
Upper Steel Pad Moment Capacity (W-Direct. Kips-ft):	5993.2	>	Moment at the top (W-Dir K-Ft):	365.3	0.06	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	8340.4	>	Moment at the top (C-C Dir. K-Ft):	343.6	0.04	OK!

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

Moment transferred by punching shear:	1011.0	k-ft.	Max. factored shear stress $v_{u,CD}$:	2.1	Psi
Max. factored shear stress $v_{u,AB}$:	7.7	Psi	Factored shear Strength ϕv_n :	164.3	Psi
Max. factored shear stress v_u :	7.7	Psi	Check Usage of Punching Shear Capacity:	0.05	OK!



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Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10041402
Maser Consulting Connecticut Project #: 20777631A

June 3, 2021

Site Information

Site ID: 467991-VZW / BETHEL_WEST_CT
Site Name: BETHEL_WEST_CT
Carrier Name: Verizon Wireless
Address: 11 Francis Clarke Cir
Bethel, Connecticut 06801
Fairfield County
Latitude: 41.360500°
Longitude: -73.424472°

Structure Information

Tower Type: Monopole
Mount Type: 14.00-Ft Platform

FUZE ID # 16244640

Analysis Results

Platform: **88.4% Pass**

***Contractor PMI Requirements:

Included at the end of this MA report

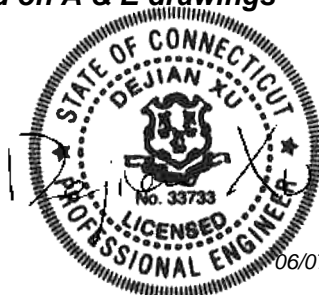
Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Zachary Bandilla



06/07/2021

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: 323446, dated January 21, 2020</i>
<i>Mount Mapping Report</i>	<i>RKS Design & Engineering LLC., Site ID: SBA: CT0248, dated January 9, 2021</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting Connecticut, Project #: 20777631A, Dated January 28, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 20777631A, Dated February 25, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 115 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.985
Seismic Parameters:	S_s : 0.226 S_1 : 0.056
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
135.50	137.00	6	JMA Wireless	MX06FIT665-02	Added
		3	Samsung	VZS01	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48	
		2	Antel	LPA-80063/6CF	Retained
		2	Antel	LPA-80080/6CF	
		2	Antel	LPA-80080/4CF	

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 by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Platform Connection Angle</i>	<i>9.8%</i>	<i>Pass</i>
<i>Antenna Pipe</i>	<i>40.9%</i>	<i>Pass</i>
<i>Standoff Horizontal</i>	<i>23.0%</i>	<i>Pass</i>
<i>Face Horizontal</i>	<i>88.4%</i>	<i>Pass</i>
<i>Inner Face Horizontal</i>	<i>29.1%</i>	<i>Pass</i>
<i>Proposed Support</i>	<i>13.5%</i>	<i>Pass</i>
<i>Proposed Support Angle</i>	<i>20.8%</i>	<i>Pass</i>
<i>Proposed Standoff Horizontal</i>	<i>30.5%</i>	<i>Pass</i>
<i>Connection Check</i>	<i>43.6%</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	88.4%
---	--------------

Recommendation:

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

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

Attachments:

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



Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B												
Sector A:	50.00	Deg	Leg A:		Deg	Ant _{1a}												
Sector B:	170.00	Deg	Leg B:		Deg	Ant _{1b}	LPA-80080-4CF-EDIN	5.50	13.20	47.20		136.896	24.75	13.50	170.00	20, 247		
Sector C:	290.00	Deg	Leg C:		Deg	Ant _{1c}												
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	UNKNOWN-TMA	6.25	1.00	5.00		136.417	30.00	-2.00		442		
Climbing Facility Information						Ant _{2b}	SBNHH-1D65B	11.90	7.10	72.90		136.958	23.50	8.50	170.00	20, 247		
Location:	230.00	Deg				Ant _{2c}												
Climbing Facility	Corrosion Type:	N/A				Ant _{3a}	UNKNOWN-TMA	6.25	1.00	5.00		136.542	29.00	-2.00		448		
	Access:	Climbing path was unobstructed.				Ant _{3b}	BXA-171063-8BF-EDIN	6.10	4.10	48.50		136.604	28.25	8.00	170.00	20, 249		
	Condition:	Good condition.				Ant _{3c}												
						Ant _{4a}												
						Ant _{4b}	LPA-80080-4CF-EDIN	5.50	13.20	47.20		137.208	21.00	13.50	170.00	20, 249		
						Ant _{4c}												
						Ant _{5a}												
						Ant _{5b}												
						Ant _{5c}												
						Ant on Standoff	B4 RRH2x60-4R	10.63	5.75	36.60			30.50				20, 248	
						Ant on Standoff												
						Ant on Tower												
						Ant on Tower												
						Sector C												
						Ant _{1a}												
						Ant _{1b}	LPA-80080-4CF-EDIN	5.50	13.20	47.20		134.417	27.50	13.50	290.00	27, 251		
						Ant _{1c}												
						Ant _{2a}	UNKNOWN-TMA	6.25	1.00	5.00		138.583	24.50	-2.00		327		
						Ant _{2b}	SBNHH-1D65B	11.90	7.10	72.90		138.917	20.50	8.50	290.00	27, 251		
						Ant _{2c}												
						Ant _{3a}	UNKNOWN-TMA	6.25	1.00	5.00		143.875	26.00	-2.00		348		
						Ant _{3b}	BXA-171063-8BF-EDIN	6.10	4.10	48.50		143.688	28.25	8.00	290.00	27, 253		
						Ant _{3c}												
						Ant _{4a}												
						Ant _{4b}	LPA-80080-4CF-EDIN	5.50	13.20	47.20		145.75	28.00	13.50	290.00	27, 253		
						Ant _{4c}												
						Ant _{5a}												
						Ant _{5b}												
						Ant _{5c}												
						Ant on Standoff	B4 RRH2x60-4R	10.63	5.75	36.60			30.50				27, 253	
						Ant on Standoff	RRFDC-3315-PF-48	15.73	10.25	25.66			15.75				27, 253	
						Ant on Tower												
						Ant on Tower												
						Sector D												
						Ant _{1a}												
						Ant _{1b}												
						Ant _{1c}												
						Ant _{2a}												
						Ant _{2b}												
						Ant _{2c}												
						Ant _{3a}												
						Ant _{3b}												
						Ant _{3c}												
						Ant _{4a}												
						Ant _{4b}												
						Ant _{4c}												
						Ant _{5a}												
						Ant _{5b}												
						Ant _{5c}												
						Ant on Standoff												
						Ant on Standoff												
						Ant on Tower												
						Ant on Tower												

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
---------	----------------------	---------

1	TOTAL COAX (14): (12) FH 1 5/8, (2) 1.52"Ø HYBRID	
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.



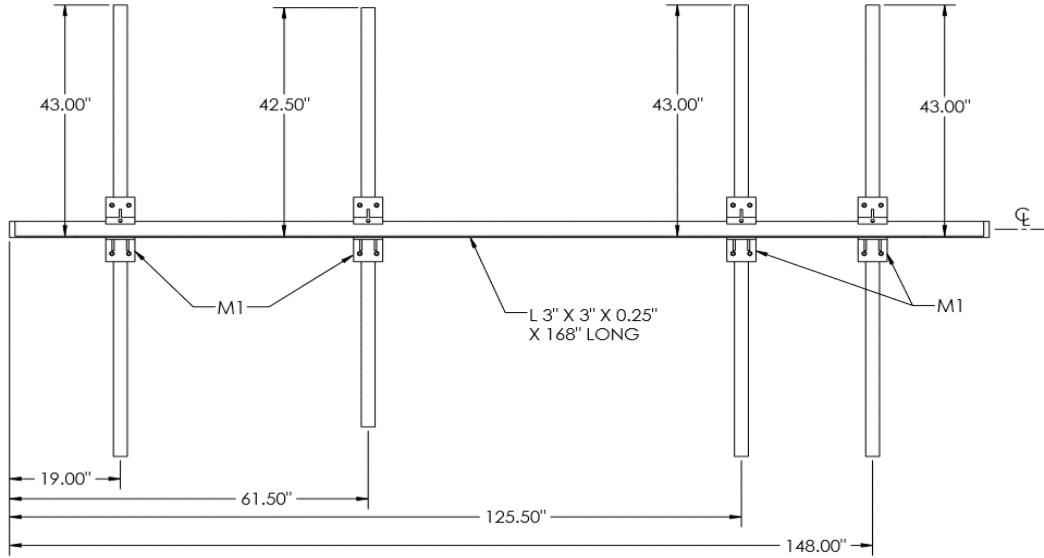
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
1051825

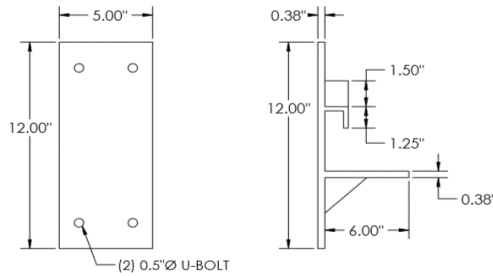
Tower Owner:	SBA	Mapping Date:	1/9/2021
Site Name:	VZW: BETHEL WEST CT	Tower Type:	Monopole
Site Number or ID:	SBA: CT0248	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering LLC	Mount Elevation (Ft.):	135.5

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

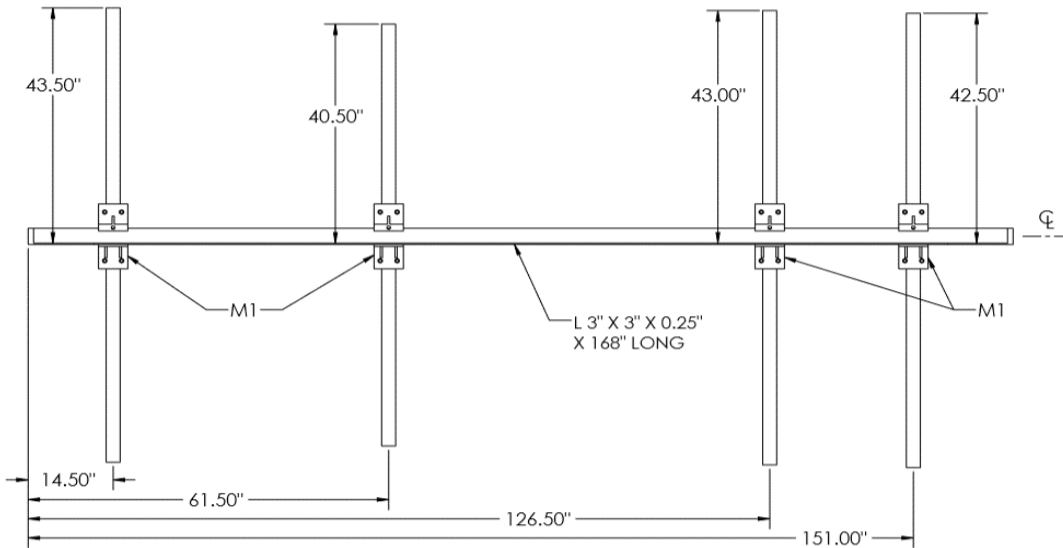
Please Insert Sketches of the Antenna Mount



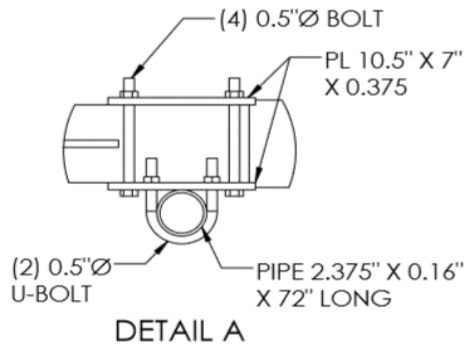
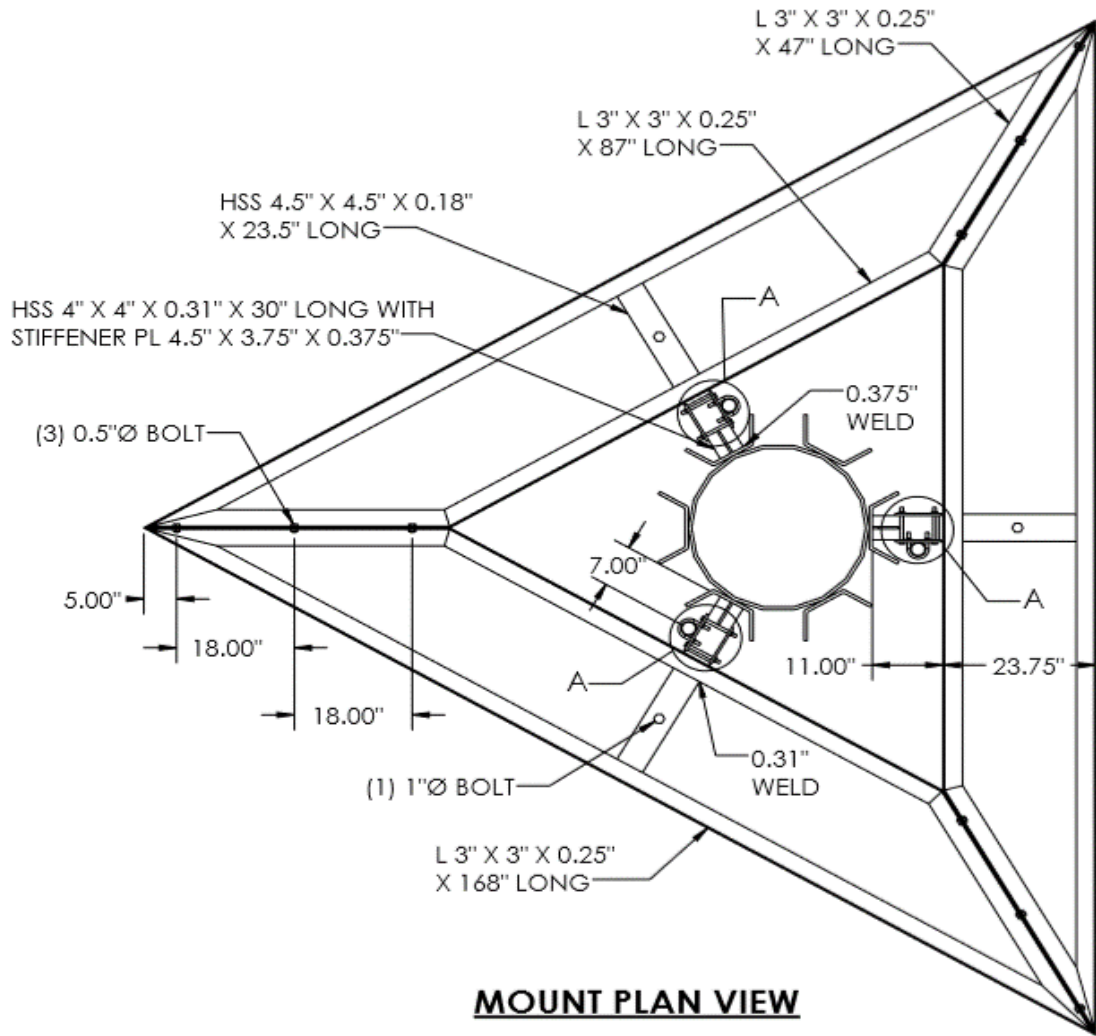
SECTOR - A & B

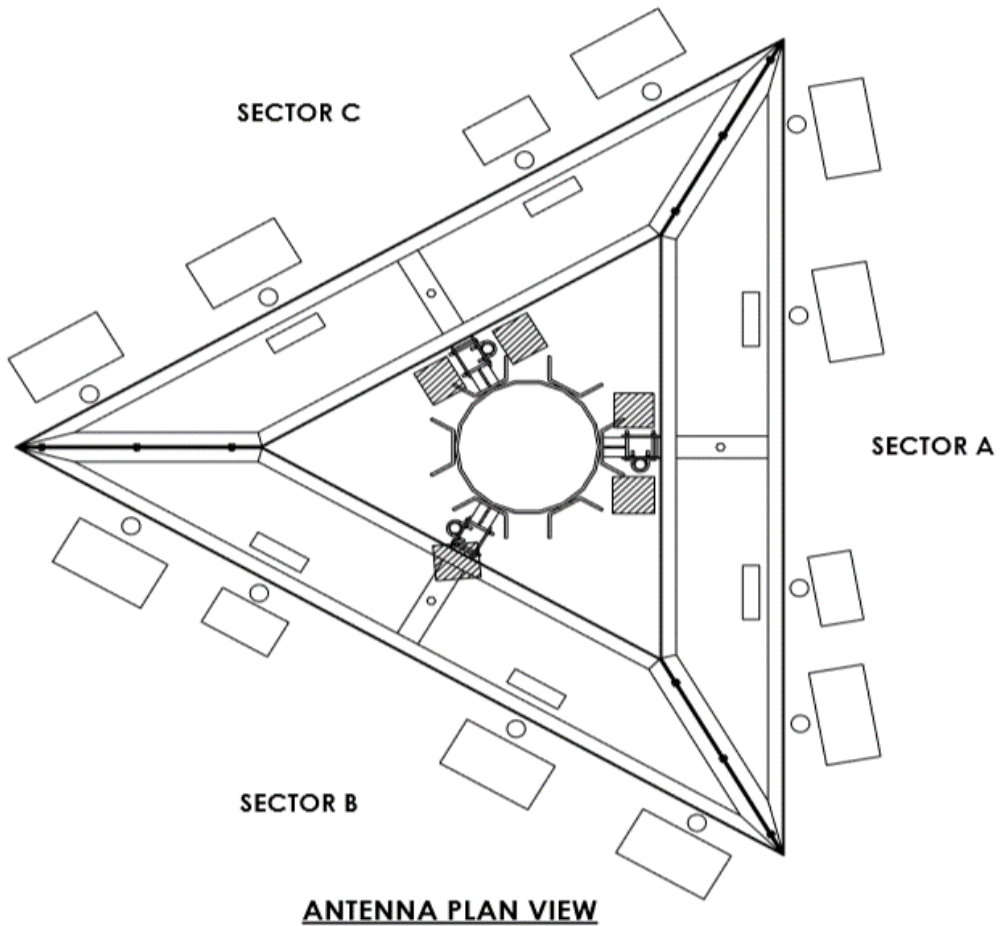


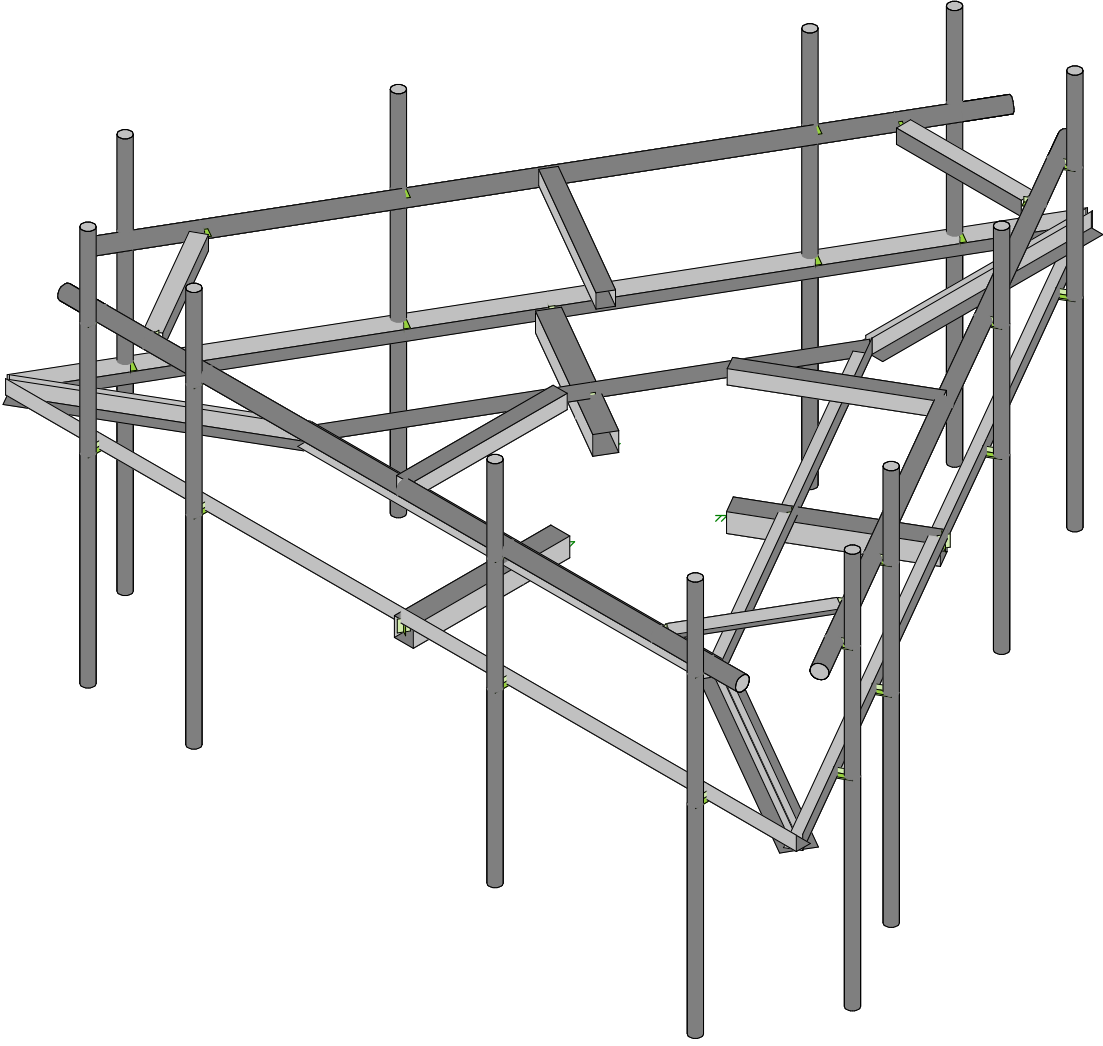
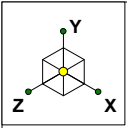
M1 MEBER DETAIL



SECTOR - C



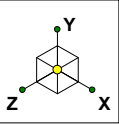




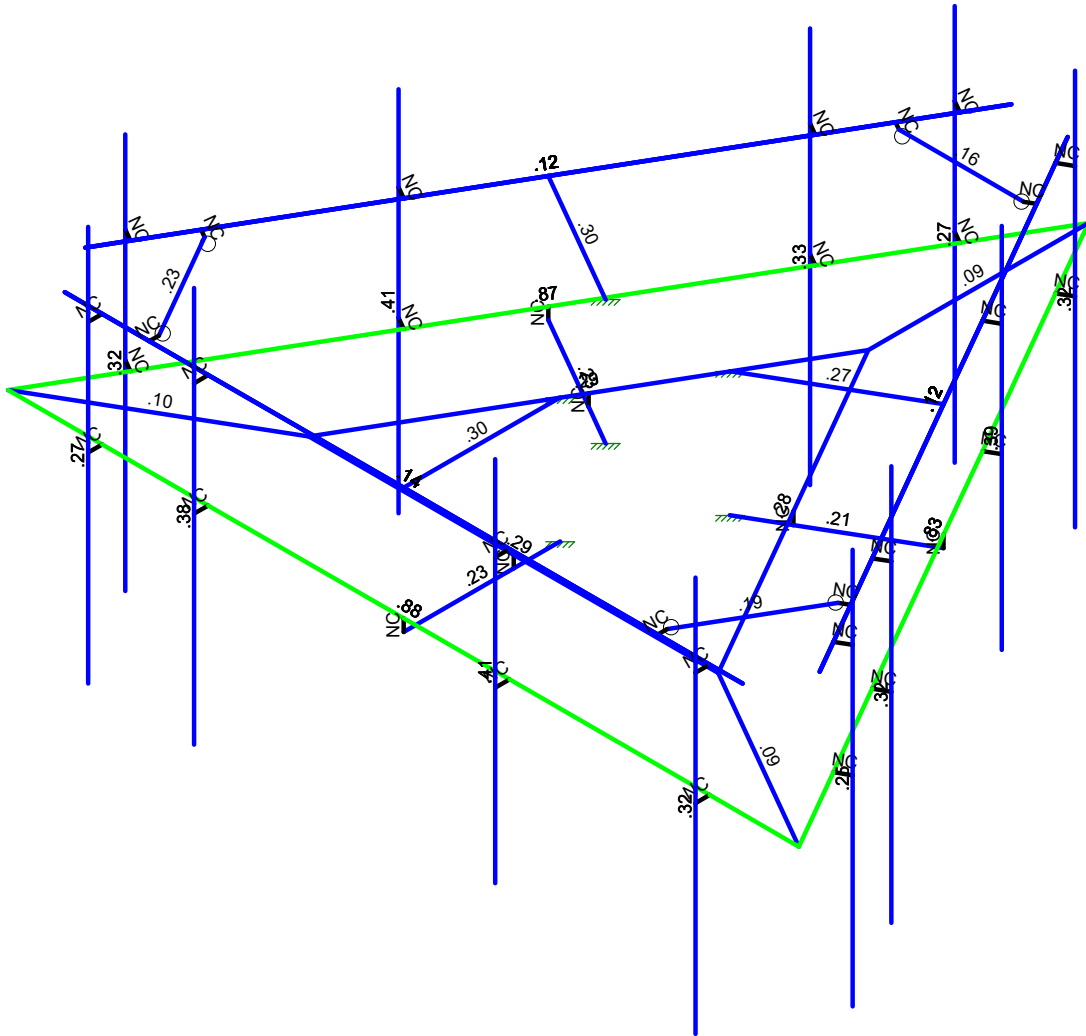
Maser Consulting

467991-VZW_MT_LO_H

SK - 1
Feb 24, 2021 at 10:32 AM
Mod Loaded_467991-VZW_MT_L...

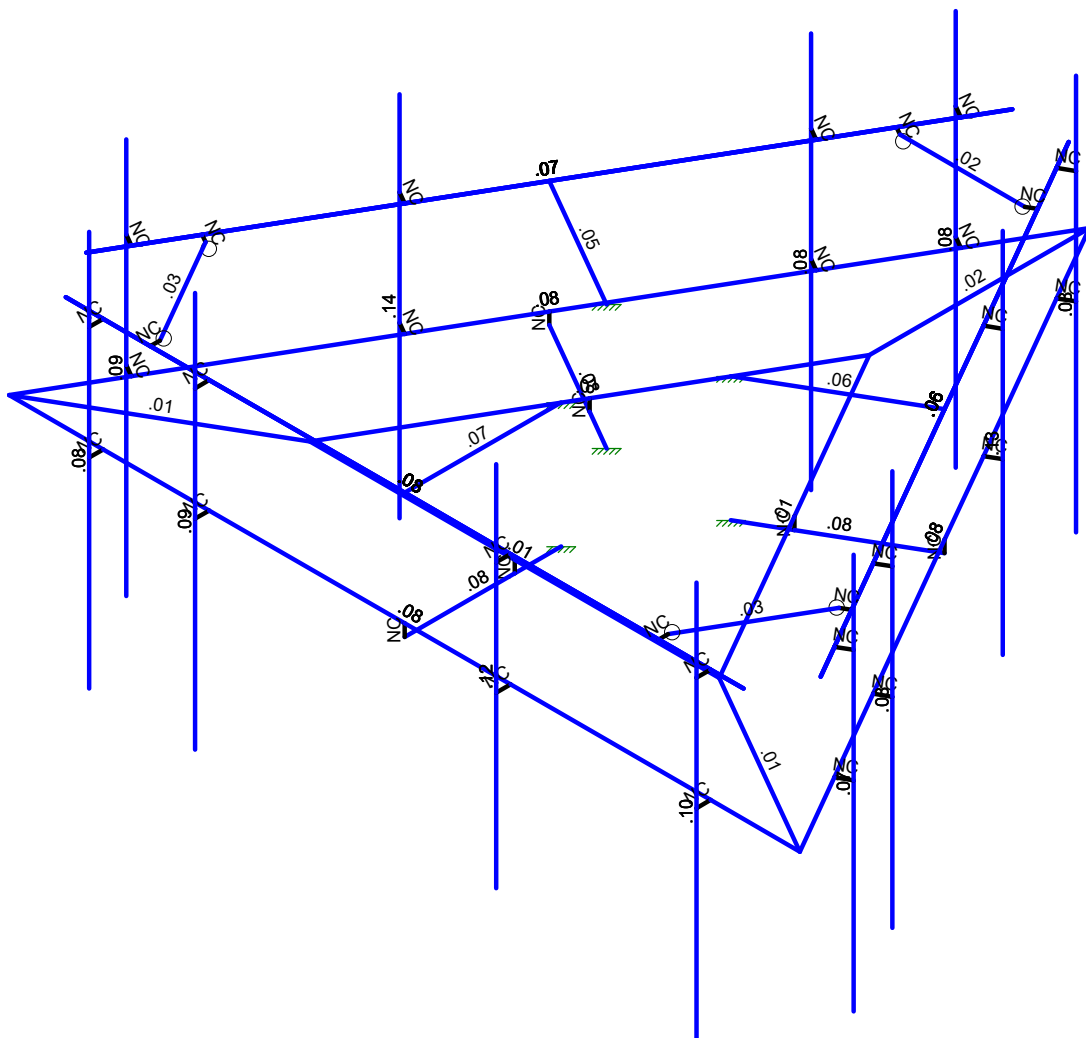
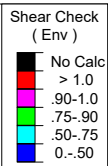
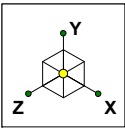


Code Check (Env)	
	No Calc
	> 1.0
	.90-1.0
	.75-.90
	.50-.75
	0.-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467991-VZW_MT_LO_H	SK - 1
		Feb 25, 2021 at 8:12 PM
		467991-VZW_MT_LO_H - MOD U...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467991-VZW_MT_LO_H	SK - 2
		Feb 25, 2021 at 8:12 PM
		467991-VZW_MT_LO_H - MOD U...



Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					111		
2	Antenna Di	None					111		
3	Antenna Wo (0 Deg)	None					111		
4	Antenna Wo (30 Deg)	None					111		
5	Antenna Wo (60 Deg)	None					111		
6	Antenna Wo (90 Deg)	None					111		
7	Antenna Wo (120 Deg)	None					111		
8	Antenna Wo (150 Deg)	None					111		
9	Antenna Wo (180 Deg)	None					111		
10	Antenna Wo (210 Deg)	None					111		
11	Antenna Wo (240 Deg)	None					111		
12	Antenna Wo (270 Deg)	None					111		
13	Antenna Wo (300 Deg)	None					111		
14	Antenna Wo (330 Deg)	None					111		
15	Antenna Wi (0 Deg)	None					111		
16	Antenna Wi (30 Deg)	None					111		
17	Antenna Wi (60 Deg)	None					111		
18	Antenna Wi (90 Deg)	None					111		
19	Antenna Wi (120 Deg)	None					111		
20	Antenna Wi (150 Deg)	None					111		
21	Antenna Wi (180 Deg)	None					111		
22	Antenna Wi (210 Deg)	None					111		
23	Antenna Wi (240 Deg)	None					111		
24	Antenna Wi (270 Deg)	None					111		
25	Antenna Wi (300 Deg)	None					111		
26	Antenna Wi (330 Deg)	None					111		
27	Antenna Wm (0 Deg)	None					111		
28	Antenna Wm (30 Deg)	None					111		
29	Antenna Wm (60 Deg)	None					111		
30	Antenna Wm (90 Deg)	None					111		
31	Antenna Wm (120 Deg)	None					111		
32	Antenna Wm (150 Deg)	None					111		
33	Antenna Wm (180 Deg)	None					111		
34	Antenna Wm (210 Deg)	None					111		
35	Antenna Wm (240 Deg)	None					111		
36	Antenna Wm (270 Deg)	None					111		
37	Antenna Wm (300 Deg)	None					111		
38	Antenna Wm (330 Deg)	None					111		
39	Structure D	None		-1				39	3
40	Structure Di	None						78	3
41	Structure Wo (0 Deg)	None						78	
42	Structure Wo (30 Deg)	None						78	
43	Structure Wo (60 Deg)	None						78	
44	Structure Wo (90 Deg)	None						78	
45	Structure Wo (120 D...	None						78	
46	Structure Wo (150 D...	None						78	
47	Structure Wo (180 D...	None						78	
48	Structure Wo (210 D...	None						78	
49	Structure Wo (240 D...	None						78	
50	Structure Wo (270 D...	None						78	
51	Structure Wo (300 D...	None						78	
52	Structure Wo (330 D...	None						78	
53	Structure Wi (0 Deg)	None						78	
54	Structure Wi (30 Deg)	None						78	
55	Structure Wi (60 Deg)	None						78	
56	Structure Wi (90 Deg)	None						78	



Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						78	
58	Structure Wi (150 De...	None						78	
59	Structure Wi (180 De...	None						78	
60	Structure Wi (210 De...	None						78	
61	Structure Wi (240 De...	None						78	
62	Structure Wi (270 De...	None						78	
63	Structure Wi (300 De...	None						78	
64	Structure Wi (330 De...	None						78	
65	Structure Wm (0 Deg)	None						78	
66	Structure Wm (30 De...	None						78	
67	Structure Wm (60 De...	None						78	
68	Structure Wm (90 De...	None						78	
69	Structure Wm (120 D...	None						78	
70	Structure Wm (150 D...	None						78	
71	Structure Wm (180 D...	None						78	
72	Structure Wm (210 D...	None						78	
73	Structure Wm (240 D...	None						78	
74	Structure Wm (270 D...	None						78	
75	Structure Wm (300 D...	None						78	
76	Structure Wm (330 D...	None						78	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	BLC 39 Transient Are...	None						29	
82	BLC 40 Transient Are...	None						29	

Load Combinations

	Description	Solve	PD...	SR...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...
1	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1				
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1						
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1						



Load Combinations (Continued)

	Description	Solve	PD	SR	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1	
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1	
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1	
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1	
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1	
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1	
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1	
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1	
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1	
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1	
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1	
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1	
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1	
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1	
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1	
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1	
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1	
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1	
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1	
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1	
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1	
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1	
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5					
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5					
51	1.4D	Yes	Y		1	1.4	39	1.4							

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-1.938981	0	-1.119471	0	
2	N2	-3.626481	0	-2.09375	0	
3	N3	-1.226869	0	-0.708333	0	
4	N5	-3.751481	0.208333	2.019871	0	
5	N6	-0.126481	0.208333	-4.258814	0	
6	N7	-7.126481	0.208333	3.968428	0	
7	N8	-0.126481	0.208333	-8.155928	0	
8	N9	-1.938981	0.208333	-1.119471	0	
9	N10	-3.626481	0.208333	-2.09375	0	
10	N14	3.498519	0.208333	2.019871	0	
11	N19A	6.873519	0.208333	3.968428	0	
12	CENTERPT	-0.126481	0.069444	-0.073024	0	
13	N13	-0.126481	0	2.019871	0	
14	N14A	-0.126481	0	3.968428	0	
15	N15	-0.126481	0	1.197595	0	
16	N16	-0.126481	0.208333	2.019871	0	
17	N17	-0.126481	0.208333	3.968428	0	
18	N19	1.686019	0	-1.119471	0	
19	N20	3.373519	0	-2.09375	0	
20	N21	0.973907	0	-0.708333	0	
21	N22	1.686019	0.208333	-1.119471	0	
22	N23	3.373519	0.208333	-2.09375	0	
23	N35A	5.290185	0.208333	3.968428	0	
24	N36A	5.290185	0.208333	4.218428	0	
25	N37	5.290185	3.666667	4.218428	0	
26	N38	5.290185	-3.333333	4.218428	0	
27	N39	1.748519	0.208333	3.968428	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
85	N98	0.373519	2.208333	-7.289902	0	
86	N99	6.373519	2.208333	3.102402	0	
87	N100	0.665144	2.208333	-6.784753	0	
88	N101	0.88165	2.208333	-6.909753	0	
89	N102	2.435977	2.208333	-3.71758	0	
90	N103A	2.652483	2.208333	-3.84258	0	
91	N104A	5.102644	2.208333	0.901222	0	
92	N105	5.31915	2.208333	0.776222	0	
93	N106	6.040144	2.208333	2.52502	0	
94	N107	6.25665	2.208333	2.40002	0	
95	N108	1.123519	2.208333	-5.990864	0	
96	N109	5.623519	2.208333	1.803364	0	
97	N110	0.979152	2.208333	-5.907514	0	
98	N111	5.479152	2.208333	1.886714	0	
99	N113	-6.626481	2.208333	3.102402	0	
100	N114	-0.626481	2.208333	-7.289902	0	
101	N115	-6.334822	2.208333	2.597273	0	
102	N116	-6.551328	2.208333	2.472273	0	
103	N117	-4.563988	2.208333	-0.4699	0	
104	N118	-4.780495	2.208333	-0.5949	0	
105	N119	-1.897322	2.208333	-5.088702	0	
106	N120	-2.113828	2.208333	-5.213702	0	
107	N121	-0.959822	2.208333	-6.7125	0	
108	N122	-1.176328	2.208333	-6.8375	0	
109	N123	-5.876481	2.208333	1.803364	0	
110	N124	-1.376481	2.208333	-5.990864	0	
111	N125	-5.732115	2.208333	1.886714	0	
112	N126	-1.232115	2.208333	-5.907514	0	
113	N125A	-3.626481	2.20833	-2.09375	0	
114	N126A	-1.226869	2.20833	-0.708333	0	
115	N127	-0.126481	2.20833	3.968428	0	
116	N128	-0.126481	2.20833	1.197595	0	
117	N129	3.373519	2.20833	-2.09375	0	
118	N130	0.973907	2.20833	-0.708333	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Inner Face Horizontal	L3X3X4	Beam	Single A...	A36 Gr.36	Typical	1.44	1.23	1.23	.031
3	Face Horizontal	L3X3X4	Beam	Single A...	A36 Gr.36	Typical	1.44	1.23	1.23	.031
4	Standoff Horizontal	HSS4X4X5	Beam	SquareT...	A500 Gr. B 46	Typical	4.1	9.14	9.14	15.3
5	Platform Connection A...	LL3x3x4x0	Beam	Single A...	A36 Gr.36	Typical	2.88	4.5	2.46	.063
6	Proposed Support	PIPE 2.5	Beam	Single A...	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
7	Proposed Support Angle	L3X3X4	Beam	Single A...	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	Proposed Standoff Hor...	HSS3X3X4	Beam	Single A...	A500 Gr. B 46	Typical	2.44	3.02	3.02	5.08

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Standoff Ho...	2.771			Lbyy						Lateral
2	M2	Inner Face ...	7.25			Lbyy						Lateral
3	M3	Face Horizo...	14			Lbyy						Lateral
4	M7	Inner Face ...	7.25			Lbyy						Lateral
5	M9	Inner Face ...	7.25			Lbyy						Lateral
6	M13	Face Horizo...	14			Lbyy						Lateral



Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
7	FACE	Face Horizo...	14			Lbyy						Lateral
8	M10	Platform Co...	3.897			Lbyy						Lateral
9	M11	Standoff Ho...	2.771			Lbyy						Lateral
10	M14	Standoff Ho...	2.771			Lbyy						Lateral
11	MP1A	Antenna Pipe	7			Lbyy						Lateral
12	MP2A	Antenna Pipe	6.5			Lbyy						Lateral
13	MP3A	Antenna Pipe	7			Lbyy						Lateral
14	MP4A	Antenna Pipe	7			Lbyy						Lateral
15	MP1C	Antenna Pipe	7			Lbyy						Lateral
16	MP2C	Antenna Pipe	6.5			Lbyy						Lateral
17	MP3C	Antenna Pipe	7			Lbyy						Lateral
18	MP4C	Antenna Pipe	7			Lbyy						Lateral
19	MP1B	Antenna Pipe	7			Lbyy						Lateral
20	MP2B	Antenna Pipe	6.5			Lbyy						Lateral
21	MP3B	Antenna Pipe	7			Lbyy						Lateral
22	MP4B	Antenna Pipe	7			Lbyy						Lateral
23	M47	Platform Co...	3.897			Lbyy						Lateral
24	M48	Platform Co...	3.897			Lbyy						Lateral
25	M49	Proposed S...	12			Lbyy						Lateral
26	M64	Proposed S...	12			Lbyy						Lateral
27	M72	Proposed S...	12			Lbyy						Lateral
28	M58	Proposed S...	12			Lbyy						Lateral
29	M65	Proposed S...	12			Lbyy						Lateral
30	M66	Proposed S...	12			Lbyy						Lateral
31	M67	Proposed S...	12			Lbyy						Lateral
32	M74	Proposed S...	12			Lbyy						Lateral
33	M75	Proposed S...	12			Lbyy						Lateral
34	M76	Proposed S...	2.211			Lbyy						Lateral
35	M77	Proposed S...	2.211			Lbyy						Lateral
36	M78	Proposed S...	2.211			Lbyy						Lateral
37	M79	Proposed S...	2.771			Lbyy						Lateral
38	M80	Proposed S...	2.771			Lbyy						Lateral
39	M81	Proposed S...	2.771			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N2			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
2	M2	N5	N6		270	Inner Face Hor...	Beam	Single Angle	A36 Gr.36	Typical
3	M3	N7	N8			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
4	M4	N1	N9		60	RIGID	None	None	RIGID	Typical
5	M5	N2	N10		60	RIGID	None	None	RIGID	Typical
6	M7	N14	N6		270	Inner Face Hor...	Beam	Single Angle	A36 Gr.36	Typical
7	M9	N14	N5		270	Inner Face Hor...	Beam	Single Angle	A36 Gr.36	Typical
8	M13	N19A	N8		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
9	FACE	N19A	N7			Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
10	M10	N14	N19A		180	Platform Conn...	Beam	Single Angle	A36 Gr.36	Typical
11	M11	N15	N14A			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
12	M12	N13	N16		60	RIGID	None	None	RIGID	Typical
13	M13A	N14A	N17		60	RIGID	None	None	RIGID	Typical
14	M14	N21	N20			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
15	M15	N19	N22		60	RIGID	None	None	RIGID	Typical
16	M16	N20	N23		60	RIGID	None	None	RIGID	Typical
17	LIVE2	N35A	N36A			RIGID	None	None	RIGID	Typical
18	MP1A	N37	N38			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
19	LIVE1	N39	N40			RIGID	None	None	RIGID	Typical



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
20	MP2A	N41	N42			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
21	M27	N43	N44			RIGID	None	None	RIGID	Typical
22	MP3A	N45	N46			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
23	M29	N47	N48			RIGID	None	None	RIGID	Typical
24	MP4A	N49	N50			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
25	M31	N51	N52			RIGID	None	None	RIGID	Typical
26	MP1C	N53	N54			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
27	M33	N55	N56			RIGID	None	None	RIGID	Typical
28	MP2C	N57	N58			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
29	M35	N59	N60			RIGID	None	None	RIGID	Typical
30	MP3C	N61	N62			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
31	M37	N63	N64			RIGID	None	None	RIGID	Typical
32	MP4C	N65	N66			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
33	M39	N67	N68			RIGID	None	None	RIGID	Typical
34	MP1B	N69	N70			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
35	M41	N71	N72			RIGID	None	None	RIGID	Typical
36	MP2B	N73	N74			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
37	M43	N75	N76			RIGID	None	None	RIGID	Typical
38	MP3B	N77	N78			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
39	M45	N79	N80			RIGID	None	None	RIGID	Typical
40	MP4B	N81	N82			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
41	M47	N6	N8		180	Platform Conn...	Beam	Single Angle	A36 Gr.36	Typical
42	M48	N5	N7		180	Platform Conn...	Beam	Single Angle	A36 Gr.36	Typical
43	M49	N83	N84			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
44	M50	N85	N86			RIGID	None	None	RIGID	Typical
45	M51	N87	N88			RIGID	None	None	RIGID	Typical
46	M52	N89	N90			RIGID	None	None	RIGID	Typical
47	M53	N91	N92			RIGID	None	None	RIGID	Typical
48	M56	N94	N104			RIGID	None	None	RIGID	Typical
49	M57	N93	N103			RIGID	None	None	RIGID	Typical
50	M64	N83	N84			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
51	M72	N83	N84			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
52	M58	N98	N99			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
53	M59	N100	N101			RIGID	None	None	RIGID	Typical
54	M60	N102	N103A			RIGID	None	None	RIGID	Typical
55	M61	N104A	N105			RIGID	None	None	RIGID	Typical
56	M62	N106	N107			RIGID	None	None	RIGID	Typical
57	M63	N109	N111			RIGID	None	None	RIGID	Typical
58	M64A	N108	N110			RIGID	None	None	RIGID	Typical
59	M65	N98	N99			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
60	M66	N98	N99			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
61	M67	N113	N114			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
62	M68	N115	N116			RIGID	None	None	RIGID	Typical
63	M69	N117	N118			RIGID	None	None	RIGID	Typical
64	M70	N119	N120			RIGID	None	None	RIGID	Typical
65	M71	N121	N122			RIGID	None	None	RIGID	Typical
66	M72A	N124	N126			RIGID	None	None	RIGID	Typical
67	M73	N123	N125			RIGID	None	None	RIGID	Typical
68	M74	N113	N114			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
69	M75	N113	N114			Proposed Sup...	Beam	Single Angle	A53 Gr. B	Typical
70	M76	N125	N104		90	Proposed Sup...	Beam	Single Angle	A36 Gr.36	Typical
71	M77	N103	N111		90	Proposed Sup...	Beam	Single Angle	A36 Gr.36	Typical
72	M78	N110	N126		90	Proposed Sup...	Beam	Single Angle	A36 Gr.36	Typical
73	M79	N126A	N125A			Proposed Stan...	Beam	Single Angle	A500 Gr.	Typical
74	M80	N128	N127			Proposed Stan...	Beam	Single Angle	A500 Gr.	Typical
75	M81	N130	N129			Proposed Stan...	Beam	Single Angle	A500 Gr.	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	M3						Yes				None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M7						Yes				None
7	M9						Yes				None
8	M13						Yes				None
9	FACE						Yes				None
10	M10						Yes				None
11	M11						Yes				None
12	M12						Yes	** NA **			None
13	M13A						Yes	** NA **			None
14	M14						Yes				None
15	M15						Yes	** NA **			None
16	M16						Yes	** NA **			None
17	LIVE2						Yes	** NA **			None
18	MP1A						Yes				None
19	LIVE1						Yes	** NA **			None
20	MP2A						Yes				None
21	M27						Yes	** NA **			None
22	MP3A						Yes				None
23	M29						Yes	** NA **			None
24	MP4A						Yes				None
25	M31						Yes	** NA **			None
26	MP1C						Yes				None
27	M33						Yes	** NA **			None
28	MP2C						Yes				None
29	M35						Yes	** NA **			None
30	MP3C						Yes				None
31	M37						Yes	** NA **			None
32	MP4C						Yes				None
33	M39						Yes	** NA **			None
34	MP1B						Yes				None
35	M41						Yes	** NA **			None
36	MP2B						Yes				None
37	M43						Yes	** NA **			None
38	MP3B						Yes				None
39	M45						Yes	** NA **			None
40	MP4B						Yes				None
41	M47						Yes				None
42	M48						Yes				None
43	M49						Yes				None
44	M50						Yes	** NA **			None
45	M51						Yes	** NA **			None
46	M52						Yes	** NA **			None
47	M53						Yes	** NA **			None
48	M56	OOOOOX					Yes	** NA **			None
49	M57	OOOOOX					Yes	** NA **			None
50	M64						Yes				None
51	M72						Yes				None
52	M58						Yes				None
53	M59						Yes	** NA **			None
54	M60						Yes	** NA **			None
55	M61						Yes	** NA **			None
56	M62						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
57	M63	OOOOOX					Yes	** NA **			None
58	M64A	OOOOOX					Yes	** NA **			None
59	M65						Yes				None
60	M66						Yes				None
61	M67						Yes				None
62	M68						Yes	** NA **			None
63	M69						Yes	** NA **			None
64	M70						Yes	** NA **			None
65	M71						Yes	** NA **			None
66	M72A	OOOOOX					Yes	** NA **			None
67	M73	OOOOOX					Yes	** NA **			None
68	M74						Yes				None
69	M75						Yes				None
70	M76						Yes				None
71	M77						Yes				None
72	M78						Yes				None
73	M79						Yes				None
74	M80						Yes				None
75	M81						Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-34.5	.5
2	MP2A	My	-.017	.5
3	MP2A	Mz	-.02	.5
4	MP2A	Y	-34.5	4.5
5	MP2A	My	-.017	4.5
6	MP2A	Mz	-.02	4.5
7	MP2B	Y	-34.5	.5
8	MP2B	My	.026	.5
9	MP2B	Mz	.004	.5
10	MP2B	Y	-34.5	4.5
11	MP2B	My	.026	4.5
12	MP2B	Mz	.004	4.5
13	MP2C	Y	-34.5	.5
14	MP2C	My	-.017	.5
15	MP2C	Mz	.02	.5
16	MP2C	Y	-34.5	4.5
17	MP2C	My	-.017	4.5
18	MP2C	Mz	.02	4.5
19	MP2A	Y	-34.5	.5
20	MP2A	My	-.017	.5
21	MP2A	Mz	.02	.5
22	MP2A	Y	-34.5	4.5
23	MP2A	My	-.017	4.5
24	MP2A	Mz	.02	4.5
25	MP2B	Y	-34.5	.5
26	MP2B	My	.000278	.5
27	MP2B	Mz	-.027	.5
28	MP2B	Y	-34.5	4.5
29	MP2B	My	.000278	4.5
30	MP2B	Mz	-.027	4.5
31	MP2C	Y	-34.5	.5
32	MP2C	My	.023	.5
33	MP2C	Mz	.013	.5



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
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Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
34	MP2C	Y	-34.5	4.5
35	MP2C	My	.023	4.5
36	MP2C	Mz	.013	4.5
37	MP3A	Y	-43.55	1.5
38	MP3A	My	-.022	1.5
39	MP3A	Mz	0	1.5
40	MP3A	Y	-43.55	3.5
41	MP3A	My	-.022	3.5
42	MP3A	Mz	0	3.5
43	MP3B	Y	-43.55	1.5
44	MP3B	My	.017	1.5
45	MP3B	Mz	-.014	1.5
46	MP3B	Y	-43.55	3.5
47	MP3B	My	.017	3.5
48	MP3B	Mz	-.014	3.5
49	MP3C	Y	-43.55	1.5
50	MP3C	My	.004	1.5
51	MP3C	Mz	.021	1.5
52	MP3C	Y	-43.55	3.5
53	MP3C	My	.004	3.5
54	MP3C	Mz	.021	3.5
55	MP2A	Y	-84.4	.5
56	MP2A	My	.042	.5
57	MP2A	Mz	0	.5
58	MP2B	Y	-84.4	.5
59	MP2B	My	.042	.5
60	MP2B	Mz	0	.5
61	MP2C	Y	-84.4	.5
62	MP2C	My	.042	.5
63	MP2C	Mz	0	.5
64	MP1A	Y	-70.3	.5
65	MP1A	My	.035	.5
66	MP1A	Mz	0	.5
67	MP1B	Y	-70.3	.5
68	MP1B	My	.035	.5
69	MP1B	Mz	0	.5
70	MP1C	Y	-70.3	.5
71	MP1C	My	.035	.5
72	MP1C	Mz	0	.5
73	MP3A	Y	-32	.5
74	MP3A	My	.016	.5
75	MP3A	Mz	0	.5
76	MP1A	Y	-13.5	.5
77	MP1A	My	-.007	.5
78	MP1A	Mz	0	.5
79	MP1A	Y	-13.5	4.5
80	MP1A	My	-.007	4.5
81	MP1A	Mz	0	4.5
82	MP4A	Y	-13.5	.5
83	MP4A	My	-.007	.5
84	MP4A	Mz	0	.5
85	MP4A	Y	-13.5	4.5
86	MP4A	My	-.007	4.5
87	MP4A	Mz	0	4.5
88	MP1B	Y	-10.5	.5
89	MP1B	My	.004	.5
90	MP1B	Mz	-.003	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
91	MP1B	Y	-10.5	4.5
92	MP1B	My	.004	4.5
93	MP1B	Mz	-.003	4.5
94	MP4B	Y	-10.5	.5
95	MP4B	My	.004	.5
96	MP4B	Mz	-.003	.5
97	MP4B	Y	-10.5	4.5
98	MP4B	My	.004	4.5
99	MP4B	Mz	-.003	4.5
100	MP1C	Y	-6	.5
101	MP1C	My	.000521	.5
102	MP1C	Mz	.003	.5
103	MP1C	Y	-6	4.5
104	MP1C	My	.000521	4.5
105	MP1C	Mz	.003	4.5
106	MP4C	Y	-6	.5
107	MP4C	My	.000521	.5
108	MP4C	Mz	.003	.5
109	MP4C	Y	-6	4.5
110	MP4C	My	.000521	4.5
111	MP4C	Mz	.003	4.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-72.71	.5
2	MP2A	My	-.036	.5
3	MP2A	Mz	-.042	.5
4	MP2A	Y	-72.71	4.5
5	MP2A	My	-.036	4.5
6	MP2A	Mz	-.042	4.5
7	MP2B	Y	-72.71	.5
8	MP2B	My	.055	.5
9	MP2B	Mz	.009	.5
10	MP2B	Y	-72.71	4.5
11	MP2B	My	.055	4.5
12	MP2B	Mz	.009	4.5
13	MP2C	Y	-72.71	.5
14	MP2C	My	-.035	.5
15	MP2C	Mz	.043	.5
16	MP2C	Y	-72.71	4.5
17	MP2C	My	-.035	4.5
18	MP2C	Mz	.043	4.5
19	MP2A	Y	-72.71	.5
20	MP2A	My	-.036	.5
21	MP2A	Mz	.042	.5
22	MP2A	Y	-72.71	4.5
23	MP2A	My	-.036	4.5
24	MP2A	Mz	.042	4.5
25	MP2B	Y	-72.71	.5
26	MP2B	My	.000586	.5
27	MP2B	Mz	-.056	.5
28	MP2B	Y	-72.71	4.5
29	MP2B	My	.000586	4.5
30	MP2B	Mz	-.056	4.5
31	MP2C	Y	-72.71	.5
32	MP2C	My	.048	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP2C	Mz	.028	.5
34	MP2C	Y	-72.71	4.5
35	MP2C	My	.048	4.5
36	MP2C	Mz	.028	4.5
37	MP3A	Y	-35.751	1.5
38	MP3A	My	-.018	1.5
39	MP3A	Mz	0	1.5
40	MP3A	Y	-35.751	3.5
41	MP3A	My	-.018	3.5
42	MP3A	Mz	0	3.5
43	MP3B	Y	-35.751	1.5
44	MP3B	My	.014	1.5
45	MP3B	Mz	-.011	1.5
46	MP3B	Y	-35.751	3.5
47	MP3B	My	.014	3.5
48	MP3B	Mz	-.011	3.5
49	MP3C	Y	-35.751	1.5
50	MP3C	My	.003	1.5
51	MP3C	Mz	.018	1.5
52	MP3C	Y	-35.751	3.5
53	MP3C	My	.003	3.5
54	MP3C	Mz	.018	3.5
55	MP2A	Y	-45.076	.5
56	MP2A	My	.023	.5
57	MP2A	Mz	0	.5
58	MP2B	Y	-45.076	.5
59	MP2B	My	.023	.5
60	MP2B	Mz	0	.5
61	MP2C	Y	-45.076	.5
62	MP2C	My	.023	.5
63	MP2C	Mz	0	.5
64	MP1A	Y	-40.539	.5
65	MP1A	My	.02	.5
66	MP1A	Mz	0	.5
67	MP1B	Y	-40.539	.5
68	MP1B	My	.02	.5
69	MP1B	Mz	0	.5
70	MP1C	Y	-40.539	.5
71	MP1C	My	.02	.5
72	MP1C	Mz	0	.5
73	MP3A	Y	-76.241	.5
74	MP3A	My	.038	.5
75	MP3A	Mz	0	.5
76	MP1A	Y	-89.005	.5
77	MP1A	My	-.045	.5
78	MP1A	Mz	0	.5
79	MP1A	Y	-89.005	4.5
80	MP1A	My	-.045	4.5
81	MP1A	Mz	0	4.5
82	MP4A	Y	-89.005	.5
83	MP4A	My	-.045	.5
84	MP4A	Mz	0	.5
85	MP4A	Y	-89.005	4.5
86	MP4A	My	-.045	4.5
87	MP4A	Mz	0	4.5
88	MP1B	Y	-58.702	.5
89	MP1B	My	.022	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
90	MP1B	Mz	-.019	.5
91	MP1B	Y	-58.702	4.5
92	MP1B	My	.022	4.5
93	MP1B	Mz	-.019	4.5
94	MP4B	Y	-58.702	.5
95	MP4B	My	.022	.5
96	MP4B	Mz	-.019	.5
97	MP4B	Y	-58.702	4.5
98	MP4B	My	.022	4.5
99	MP4B	Mz	-.019	4.5
100	MP1C	Y	-40.452	.5
101	MP1C	My	.004	.5
102	MP1C	Mz	.02	.5
103	MP1C	Y	-40.452	4.5
104	MP1C	My	.004	4.5
105	MP1C	Mz	.02	4.5
106	MP4C	Y	-40.452	.5
107	MP4C	My	.004	.5
108	MP4C	Mz	.02	.5
109	MP4C	Y	-40.452	4.5
110	MP4C	My	.004	4.5
111	MP4C	Mz	.02	4.5

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	-158.612	.5
3	MP2A	Mx	.093	.5
4	MP2A	X	0	4.5
5	MP2A	Z	-158.612	4.5
6	MP2A	Mx	.093	4.5
7	MP2B	X	0	.5
8	MP2B	Z	-152.082	.5
9	MP2B	Mx	-.019	.5
10	MP2B	X	0	4.5
11	MP2B	Z	-152.082	4.5
12	MP2B	Mx	-.019	4.5
13	MP2C	X	0	.5
14	MP2C	Z	-143.285	.5
15	MP2C	Mx	-.085	.5
16	MP2C	X	0	4.5
17	MP2C	Z	-143.285	4.5
18	MP2C	Mx	-.085	4.5
19	MP2A	X	0	.5
20	MP2A	Z	-158.612	.5
21	MP2A	Mx	-.093	.5
22	MP2A	X	0	4.5
23	MP2A	Z	-158.612	4.5
24	MP2A	Mx	-.093	4.5
25	MP2B	X	0	.5
26	MP2B	Z	-152.082	.5
27	MP2B	Mx	.117	.5
28	MP2B	X	0	4.5
29	MP2B	Z	-152.082	4.5
30	MP2B	Mx	.117	4.5
31	MP2C	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
32	MP2C	Z	-143.285	.5
33	MP2C	Mx	-.056	.5
34	MP2C	X	0	4.5
35	MP2C	Z	-143.285	4.5
36	MP2C	Mx	-.056	4.5
37	MP3A	X	0	1.5
38	MP3A	Z	-91.47	1.5
39	MP3A	Mx	0	1.5
40	MP3A	X	0	3.5
41	MP3A	Z	-91.47	3.5
42	MP3A	Mx	0	3.5
43	MP3B	X	0	1.5
44	MP3B	Z	-68.472	1.5
45	MP3B	Mx	.022	1.5
46	MP3B	X	0	3.5
47	MP3B	Z	-68.472	3.5
48	MP3B	Mx	.022	3.5
49	MP3C	X	0	1.5
50	MP3C	Z	-37.489	1.5
51	MP3C	Mx	-.018	1.5
52	MP3C	X	0	3.5
53	MP3C	Z	-37.489	3.5
54	MP3C	Mx	-.018	3.5
55	MP2A	X	0	.5
56	MP2A	Z	-72.786	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	-72.786	.5
60	MP2B	Mx	0	.5
61	MP2C	X	0	.5
62	MP2C	Z	-72.786	.5
63	MP2C	Mx	0	.5
64	MP1A	X	0	.5
65	MP1A	Z	-72.786	.5
66	MP1A	Mx	0	.5
67	MP1B	X	0	.5
68	MP1B	Z	-72.786	.5
69	MP1B	Mx	0	.5
70	MP1C	X	0	.5
71	MP1C	Z	-72.786	.5
72	MP1C	Mx	0	.5
73	MP3A	X	0	.5
74	MP3A	Z	-147.519	.5
75	MP3A	Mx	0	.5
76	MP1A	X	0	.5
77	MP1A	Z	-186.831	.5
78	MP1A	Mx	0	.5
79	MP1A	X	0	4.5
80	MP1A	Z	-186.831	4.5
81	MP1A	Mx	0	4.5
82	MP4A	X	0	.5
83	MP4A	Z	-186.831	.5
84	MP4A	Mx	0	.5
85	MP4A	X	0	4.5
86	MP4A	Z	-186.831	4.5
87	MP4A	Mx	0	4.5
88	MP1B	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
89	MP1B	Z	-118.832	.5
90	MP1B	Mx	.038	.5
91	MP1B	X	0	4.5
92	MP1B	Z	-118.832	4.5
93	MP1B	Mx	.038	4.5
94	MP4B	X	0	.5
95	MP4B	Z	-118.832	.5
96	MP4B	Mx	.038	.5
97	MP4B	X	0	4.5
98	MP4B	Z	-118.832	4.5
99	MP4B	Mx	.038	4.5
100	MP1C	X	0	.5
101	MP1C	Z	-103.434	.5
102	MP1C	Mx	-.051	.5
103	MP1C	X	0	4.5
104	MP1C	Z	-103.434	4.5
105	MP1C	Mx	-.051	4.5
106	MP4C	X	0	.5
107	MP4C	Z	-103.434	.5
108	MP4C	Mx	-.051	.5
109	MP4C	X	0	4.5
110	MP4C	Z	-103.434	4.5
111	MP4C	Mx	-.051	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	77.331	.5
2	MP2A	Z	-133.941	.5
3	MP2A	Mx	.039	.5
4	MP2A	X	77.331	4.5
5	MP2A	Z	-133.941	4.5
6	MP2A	Mx	.039	4.5
7	MP2B	X	72.329	.5
8	MP2B	Z	-125.277	.5
9	MP2B	Mx	.039	.5
10	MP2B	X	72.329	4.5
11	MP2B	Z	-125.277	4.5
12	MP2B	Mx	.039	4.5
13	MP2C	X	74.669	.5
14	MP2C	Z	-129.331	.5
15	MP2C	Mx	-.113	.5
16	MP2C	X	74.669	4.5
17	MP2C	Z	-129.331	4.5
18	MP2C	Mx	-.113	4.5
19	MP2A	X	77.331	.5
20	MP2A	Z	-133.941	.5
21	MP2A	Mx	-.117	.5
22	MP2A	X	77.331	4.5
23	MP2A	Z	-133.941	4.5
24	MP2A	Mx	-.117	4.5
25	MP2B	X	72.329	.5
26	MP2B	Z	-125.277	.5
27	MP2B	Mx	.097	.5
28	MP2B	X	72.329	4.5
29	MP2B	Z	-125.277	4.5
30	MP2B	Mx	.097	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP2C	X	74.669	.5
32	MP2C	Z	-129.331	.5
33	MP2C	Mx	-.001	.5
34	MP2C	X	74.669	4.5
35	MP2C	Z	-129.331	4.5
36	MP2C	Mx	-.001	4.5
37	MP3A	X	38.777	1.5
38	MP3A	Z	-67.164	1.5
39	MP3A	Mx	-.019	1.5
40	MP3A	X	38.777	3.5
41	MP3A	Z	-67.164	3.5
42	MP3A	Mx	-.019	3.5
43	MP3B	X	21.161	1.5
44	MP3B	Z	-36.651	1.5
45	MP3B	Mx	.02	1.5
46	MP3B	X	21.161	3.5
47	MP3B	Z	-36.651	3.5
48	MP3B	Mx	.02	3.5
49	MP3C	X	29.404	1.5
50	MP3C	Z	-50.929	1.5
51	MP3C	Mx	-.023	1.5
52	MP3C	X	29.404	3.5
53	MP3C	Z	-50.929	3.5
54	MP3C	Mx	-.023	3.5
55	MP2A	X	33.377	.5
56	MP2A	Z	-57.81	.5
57	MP2A	Mx	.017	.5
58	MP2B	X	33.377	.5
59	MP2B	Z	-57.81	.5
60	MP2B	Mx	.017	.5
61	MP2C	X	33.377	.5
62	MP2C	Z	-57.81	.5
63	MP2C	Mx	.017	.5
64	MP1A	X	32.221	.5
65	MP1A	Z	-55.809	.5
66	MP1A	Mx	.016	.5
67	MP1B	X	32.221	.5
68	MP1B	Z	-55.809	.5
69	MP1B	Mx	.016	.5
70	MP1C	X	32.221	.5
71	MP1C	Z	-55.809	.5
72	MP1C	Mx	.016	.5
73	MP3A	X	67.525	.5
74	MP3A	Z	-116.957	.5
75	MP3A	Mx	.034	.5
76	MP1A	X	90.922	.5
77	MP1A	Z	-157.481	.5
78	MP1A	Mx	-.045	.5
79	MP1A	X	90.922	4.5
80	MP1A	Z	-157.481	4.5
81	MP1A	Mx	-.045	4.5
82	MP4A	X	90.922	.5
83	MP4A	Z	-157.481	.5
84	MP4A	Mx	-.045	.5
85	MP4A	X	90.922	4.5
86	MP4A	Z	-157.481	4.5
87	MP4A	Mx	-.045	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP1B	X	79.068	.5
89	MP1B	Z	-136.95	.5
90	MP1B	Mx	.074	.5
91	MP1B	X	79.068	4.5
92	MP1B	Z	-136.95	4.5
93	MP1B	Mx	.074	4.5
94	MP4B	X	79.068	.5
95	MP4B	Z	-136.95	.5
96	MP4B	Mx	.074	.5
97	MP4B	X	79.068	4.5
98	MP4B	Z	-136.95	4.5
99	MP4B	Mx	.074	4.5
100	MP1C	X	41.323	.5
101	MP1C	Z	-71.573	.5
102	MP1C	Mx	-.032	.5
103	MP1C	X	41.323	4.5
104	MP1C	Z	-71.573	4.5
105	MP1C	Mx	-.032	4.5
106	MP4C	X	41.323	.5
107	MP4C	Z	-71.573	.5
108	MP4C	Mx	-.032	.5
109	MP4C	X	41.323	4.5
110	MP4C	Z	-71.573	4.5
111	MP4C	Mx	-.032	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	127.097	.5
2	MP2A	Z	-73.38	.5
3	MP2A	Mx	-.021	.5
4	MP2A	X	127.097	4.5
5	MP2A	Z	-73.38	4.5
6	MP2A	Mx	-.021	4.5
7	MP2B	X	124.088	.5
8	MP2B	Z	-71.643	.5
9	MP2B	Mx	.085	.5
10	MP2B	X	124.088	4.5
11	MP2B	Z	-71.643	4.5
12	MP2B	Mx	.085	4.5
13	MP2C	X	135.761	.5
14	MP2C	Z	-78.382	.5
15	MP2C	Mx	-.113	.5
16	MP2C	X	135.761	4.5
17	MP2C	Z	-78.382	4.5
18	MP2C	Mx	-.113	4.5
19	MP2A	X	127.097	.5
20	MP2A	Z	-73.38	.5
21	MP2A	Mx	-.106	.5
22	MP2A	X	127.097	4.5
23	MP2A	Z	-73.38	4.5
24	MP2A	Mx	-.106	4.5
25	MP2B	X	124.088	.5
26	MP2B	Z	-71.643	.5
27	MP2B	Mx	.056	.5
28	MP2B	X	124.088	4.5
29	MP2B	Z	-71.643	4.5



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP2B	Mx	.056	4.5
31	MP2C	X	135.761	.5
32	MP2C	Z	-78.382	.5
33	MP2C	Mx	.059	.5
34	MP2C	X	135.761	4.5
35	MP2C	Z	-78.382	4.5
36	MP2C	Mx	.059	4.5
37	MP3A	X	43.063	1.5
38	MP3A	Z	-24.863	1.5
39	MP3A	Mx	-.022	1.5
40	MP3A	X	43.063	3.5
41	MP3A	Z	-24.863	3.5
42	MP3A	Mx	-.022	3.5
43	MP3B	X	32.466	1.5
44	MP3B	Z	-18.744	1.5
45	MP3B	Mx	.018	1.5
46	MP3B	X	32.466	3.5
47	MP3B	Z	-18.744	3.5
48	MP3B	Mx	.018	3.5
49	MP3C	X	73.576	1.5
50	MP3C	Z	-42.479	1.5
51	MP3C	Mx	-.015	1.5
52	MP3C	X	73.576	3.5
53	MP3C	Z	-42.479	3.5
54	MP3C	Mx	-.015	3.5
55	MP2A	X	47.36	.5
56	MP2A	Z	-27.344	.5
57	MP2A	Mx	.024	.5
58	MP2B	X	47.36	.5
59	MP2B	Z	-27.344	.5
60	MP2B	Mx	.024	.5
61	MP2C	X	47.36	.5
62	MP2C	Z	-27.344	.5
63	MP2C	Mx	.024	.5
64	MP1A	X	41.356	.5
65	MP1A	Z	-23.877	.5
66	MP1A	Mx	.021	.5
67	MP1B	X	41.356	.5
68	MP1B	Z	-23.877	.5
69	MP1B	Mx	.021	.5
70	MP1C	X	41.356	.5
71	MP1C	Z	-23.877	.5
72	MP1C	Mx	.021	.5
73	MP3A	X	95.362	.5
74	MP3A	Z	-55.057	.5
75	MP3A	Mx	.048	.5
76	MP1A	X	148.841	.5
77	MP1A	Z	-85.933	.5
78	MP1A	Mx	-.074	.5
79	MP1A	X	148.841	4.5
80	MP1A	Z	-85.933	4.5
81	MP1A	Mx	-.074	4.5
82	MP4A	X	148.841	.5
83	MP4A	Z	-85.933	.5
84	MP4A	Mx	-.074	.5
85	MP4A	X	148.841	4.5
86	MP4A	Z	-85.933	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
87	MP4A	Mx	-.074	4.5
88	MP1B	X	143.24	.5
89	MP1B	Z	-82.7	.5
90	MP1B	Mx	.081	.5
91	MP1B	X	143.24	4.5
92	MP1B	Z	-82.7	4.5
93	MP1B	Mx	.081	4.5
94	MP4B	X	143.24	.5
95	MP4B	Z	-82.7	.5
96	MP4B	Mx	.081	.5
97	MP4B	X	143.24	4.5
98	MP4B	Z	-82.7	4.5
99	MP4B	Mx	.081	4.5
100	MP1C	X	49.488	.5
101	MP1C	Z	-28.572	.5
102	MP1C	Mx	-.01	.5
103	MP1C	X	49.488	4.5
104	MP1C	Z	-28.572	4.5
105	MP1C	Mx	-.01	4.5
106	MP4C	X	49.488	.5
107	MP4C	Z	-28.572	.5
108	MP4C	Mx	-.01	.5
109	MP4C	X	49.488	4.5
110	MP4C	Z	-28.572	4.5
111	MP4C	Mx	-.01	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	142.808	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.071	.5
4	MP2A	X	142.808	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	-.071	4.5
7	MP2B	X	149.338	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.113	.5
10	MP2B	X	149.338	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	.113	4.5
13	MP2C	X	158.136	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.077	.5
16	MP2C	X	158.136	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	-.077	4.5
19	MP2A	X	142.808	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.071	.5
22	MP2A	X	142.808	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	-.071	4.5
25	MP2B	X	149.338	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.001	.5
28	MP2B	X	149.338	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP2B	Z	0	4.5
30	MP2B	Mx	.001	4.5
31	MP2C	X	158.136	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.105	.5
34	MP2C	X	158.136	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	.105	4.5
37	MP3A	X	35.81	1.5
38	MP3A	Z	0	1.5
39	MP3A	Mx	-.018	1.5
40	MP3A	X	35.81	3.5
41	MP3A	Z	0	3.5
42	MP3A	Mx	-.018	3.5
43	MP3B	X	58.807	1.5
44	MP3B	Z	0	1.5
45	MP3B	Mx	.023	1.5
46	MP3B	X	58.807	3.5
47	MP3B	Z	0	3.5
48	MP3B	Mx	.023	3.5
49	MP3C	X	89.791	1.5
50	MP3C	Z	0	1.5
51	MP3C	Mx	.008	1.5
52	MP3C	X	89.791	3.5
53	MP3C	Z	0	3.5
54	MP3C	Mx	.008	3.5
55	MP2A	X	48.654	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.024	.5
58	MP2B	X	48.654	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	.024	.5
61	MP2C	X	48.654	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	.024	.5
64	MP1A	X	39.41	.5
65	MP1A	Z	0	.5
66	MP1A	Mx	.02	.5
67	MP1B	X	39.41	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	.02	.5
70	MP1C	X	39.41	.5
71	MP1C	Z	0	.5
72	MP1C	Mx	.02	.5
73	MP3A	X	97.646	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	.049	.5
76	MP1A	X	166.878	.5
77	MP1A	Z	0	.5
78	MP1A	Mx	-.083	.5
79	MP1A	X	166.878	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	-.083	4.5
82	MP4A	X	166.878	.5
83	MP4A	Z	0	.5
84	MP4A	Mx	-.083	.5
85	MP4A	X	166.878	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
86	MP4A	Z	0	4.5
87	MP4A	Mx	-.083	4.5
88	MP1B	X	133.358	.5
89	MP1B	Z	0	.5
90	MP1B	Mx	.051	.5
91	MP1B	X	133.358	4.5
92	MP1B	Z	0	4.5
93	MP1B	Mx	.051	4.5
94	MP4B	X	133.358	.5
95	MP4B	Z	0	.5
96	MP4B	Mx	.051	.5
97	MP4B	X	133.358	4.5
98	MP4B	Z	0	4.5
99	MP4B	Mx	.051	4.5
100	MP1C	X	52.431	.5
101	MP1C	Z	0	.5
102	MP1C	Mx	.005	.5
103	MP1C	X	52.431	4.5
104	MP1C	Z	0	4.5
105	MP1C	Mx	.005	4.5
106	MP4C	X	52.431	.5
107	MP4C	Z	0	.5
108	MP4C	Mx	.005	.5
109	MP4C	X	52.431	4.5
110	MP4C	Z	0	4.5
111	MP4C	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	127.097	.5
2	MP2A	Z	73.38	.5
3	MP2A	Mx	-.106	.5
4	MP2A	X	127.097	4.5
5	MP2A	Z	73.38	4.5
6	MP2A	Mx	-.106	4.5
7	MP2B	X	135.761	.5
8	MP2B	Z	78.382	.5
9	MP2B	Mx	.113	.5
10	MP2B	X	135.761	4.5
11	MP2B	Z	78.382	4.5
12	MP2B	Mx	.113	4.5
13	MP2C	X	131.707	.5
14	MP2C	Z	76.041	.5
15	MP2C	Mx	-.019	.5
16	MP2C	X	131.707	4.5
17	MP2C	Z	76.041	4.5
18	MP2C	Mx	-.019	4.5
19	MP2A	X	127.097	.5
20	MP2A	Z	73.38	.5
21	MP2A	Mx	-.021	.5
22	MP2A	X	127.097	4.5
23	MP2A	Z	73.38	4.5
24	MP2A	Mx	-.021	4.5
25	MP2B	X	135.761	.5
26	MP2B	Z	78.382	.5
27	MP2B	Mx	-.059	.5



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
28	MP2B	X	135.761	4.5
29	MP2B	Z	78.382	4.5
30	MP2B	Mx	-.059	4.5
31	MP2C	X	131.707	.5
32	MP2C	Z	76.041	.5
33	MP2C	Mx	.117	.5
34	MP2C	X	131.707	4.5
35	MP2C	Z	76.041	4.5
36	MP2C	Mx	.117	4.5
37	MP3A	X	43.063	1.5
38	MP3A	Z	24.863	1.5
39	MP3A	Mx	-.022	1.5
40	MP3A	X	43.063	3.5
41	MP3A	Z	24.863	3.5
42	MP3A	Mx	-.022	3.5
43	MP3B	X	73.576	1.5
44	MP3B	Z	42.479	1.5
45	MP3B	Mx	.015	1.5
46	MP3B	X	73.576	3.5
47	MP3B	Z	42.479	3.5
48	MP3B	Mx	.015	3.5
49	MP3C	X	59.299	1.5
50	MP3C	Z	34.236	1.5
51	MP3C	Mx	.022	1.5
52	MP3C	X	59.299	3.5
53	MP3C	Z	34.236	3.5
54	MP3C	Mx	.022	3.5
55	MP2A	X	47.36	.5
56	MP2A	Z	27.344	.5
57	MP2A	Mx	.024	.5
58	MP2B	X	47.36	.5
59	MP2B	Z	27.344	.5
60	MP2B	Mx	.024	.5
61	MP2C	X	47.36	.5
62	MP2C	Z	27.344	.5
63	MP2C	Mx	.024	.5
64	MP1A	X	41.356	.5
65	MP1A	Z	23.877	.5
66	MP1A	Mx	.021	.5
67	MP1B	X	41.356	.5
68	MP1B	Z	23.877	.5
69	MP1B	Mx	.021	.5
70	MP1C	X	41.356	.5
71	MP1C	Z	23.877	.5
72	MP1C	Mx	.021	.5
73	MP3A	X	95.362	.5
74	MP3A	Z	55.057	.5
75	MP3A	Mx	.048	.5
76	MP1A	X	148.841	.5
77	MP1A	Z	85.933	.5
78	MP1A	Mx	-.074	.5
79	MP1A	X	148.841	4.5
80	MP1A	Z	85.933	4.5
81	MP1A	Mx	-.074	4.5
82	MP4A	X	148.841	.5
83	MP4A	Z	85.933	.5
84	MP4A	Mx	-.074	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
85	MP4A	X	148.841	4.5
86	MP4A	Z	85.933	4.5
87	MP4A	Mx	-.074	4.5
88	MP1B	X	81.453	.5
89	MP1B	Z	47.027	.5
90	MP1B	Mx	.016	.5
91	MP1B	X	81.453	4.5
92	MP1B	Z	47.027	4.5
93	MP1B	Mx	.016	4.5
94	MP4B	X	81.453	.5
95	MP4B	Z	47.027	.5
96	MP4B	Mx	.016	.5
97	MP4B	X	81.453	4.5
98	MP4B	Z	47.027	4.5
99	MP4B	Mx	.016	4.5
100	MP1C	X	63.411	.5
101	MP1C	Z	36.61	.5
102	MP1C	Mx	.024	.5
103	MP1C	X	63.411	4.5
104	MP1C	Z	36.61	4.5
105	MP1C	Mx	.024	4.5
106	MP4C	X	63.411	.5
107	MP4C	Z	36.61	.5
108	MP4C	Mx	.024	.5
109	MP4C	X	63.411	4.5
110	MP4C	Z	36.61	4.5
111	MP4C	Mx	.024	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	77.331	.5
2	MP2A	Z	133.941	.5
3	MP2A	Mx	-.117	.5
4	MP2A	X	77.331	4.5
5	MP2A	Z	133.941	4.5
6	MP2A	Mx	-.117	4.5
7	MP2B	X	79.068	.5
8	MP2B	Z	136.949	.5
9	MP2B	Mx	.077	.5
10	MP2B	X	79.068	4.5
11	MP2B	Z	136.949	4.5
12	MP2B	Mx	.077	4.5
13	MP2C	X	72.329	.5
14	MP2C	Z	125.277	.5
15	MP2C	Mx	.039	.5
16	MP2C	X	72.329	4.5
17	MP2C	Z	125.277	4.5
18	MP2C	Mx	.039	4.5
19	MP2A	X	77.331	.5
20	MP2A	Z	133.941	.5
21	MP2A	Mx	.039	.5
22	MP2A	X	77.331	4.5
23	MP2A	Z	133.941	4.5
24	MP2A	Mx	.039	4.5
25	MP2B	X	79.068	.5
26	MP2B	Z	136.949	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
27	MP2B	Mx	-.105	.5
28	MP2B	X	79.068	4.5
29	MP2B	Z	136.949	4.5
30	MP2B	Mx	-.105	4.5
31	MP2C	X	72.329	.5
32	MP2C	Z	125.277	.5
33	MP2C	Mx	.097	.5
34	MP2C	X	72.329	4.5
35	MP2C	Z	125.277	4.5
36	MP2C	Mx	.097	4.5
37	MP3A	X	38.777	1.5
38	MP3A	Z	67.164	1.5
39	MP3A	Mx	-.019	1.5
40	MP3A	X	38.777	3.5
41	MP3A	Z	67.164	3.5
42	MP3A	Mx	-.019	3.5
43	MP3B	X	44.896	1.5
44	MP3B	Z	77.761	1.5
45	MP3B	Mx	-.008	1.5
46	MP3B	X	44.896	3.5
47	MP3B	Z	77.761	3.5
48	MP3B	Mx	-.008	3.5
49	MP3C	X	21.161	1.5
50	MP3C	Z	36.651	1.5
51	MP3C	Mx	.02	1.5
52	MP3C	X	21.161	3.5
53	MP3C	Z	36.651	3.5
54	MP3C	Mx	.02	3.5
55	MP2A	X	33.377	.5
56	MP2A	Z	57.81	.5
57	MP2A	Mx	.017	.5
58	MP2B	X	33.377	.5
59	MP2B	Z	57.81	.5
60	MP2B	Mx	.017	.5
61	MP2C	X	33.377	.5
62	MP2C	Z	57.81	.5
63	MP2C	Mx	.017	.5
64	MP1A	X	32.221	.5
65	MP1A	Z	55.809	.5
66	MP1A	Mx	.016	.5
67	MP1B	X	32.221	.5
68	MP1B	Z	55.809	.5
69	MP1B	Mx	.016	.5
70	MP1C	X	32.221	.5
71	MP1C	Z	55.809	.5
72	MP1C	Mx	.016	.5
73	MP3A	X	67.525	.5
74	MP3A	Z	116.957	.5
75	MP3A	Mx	.034	.5
76	MP1A	X	90.922	.5
77	MP1A	Z	157.481	.5
78	MP1A	Mx	-.045	.5
79	MP1A	X	90.922	4.5
80	MP1A	Z	157.481	4.5
81	MP1A	Mx	-.045	4.5
82	MP4A	X	90.922	.5
83	MP4A	Z	157.481	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
84	MP4A	Mx	-.045	.5
85	MP4A	X	90.922	4.5
86	MP4A	Z	157.481	4.5
87	MP4A	Mx	-.045	4.5
88	MP1B	X	43.396	.5
89	MP1B	Z	75.163	.5
90	MP1B	Mx	-.008	.5
91	MP1B	X	43.396	4.5
92	MP1B	Z	75.163	4.5
93	MP1B	Mx	-.008	4.5
94	MP4B	X	43.396	.5
95	MP4B	Z	75.163	.5
96	MP4B	Mx	-.008	.5
97	MP4B	X	43.396	4.5
98	MP4B	Z	75.163	4.5
99	MP4B	Mx	-.008	4.5
100	MP1C	X	49.361	.5
101	MP1C	Z	85.495	.5
102	MP1C	Mx	.046	.5
103	MP1C	X	49.361	4.5
104	MP1C	Z	85.495	4.5
105	MP1C	Mx	.046	4.5
106	MP4C	X	49.361	.5
107	MP4C	Z	85.495	.5
108	MP4C	Mx	.046	.5
109	MP4C	X	49.361	4.5
110	MP4C	Z	85.495	4.5
111	MP4C	Mx	.046	4.5

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	158.612	.5
3	MP2A	Mx	-.093	.5
4	MP2A	X	0	4.5
5	MP2A	Z	158.612	4.5
6	MP2A	Mx	-.093	4.5
7	MP2B	X	0	.5
8	MP2B	Z	152.082	.5
9	MP2B	Mx	.019	.5
10	MP2B	X	0	4.5
11	MP2B	Z	152.082	4.5
12	MP2B	Mx	.019	4.5
13	MP2C	X	0	.5
14	MP2C	Z	143.285	.5
15	MP2C	Mx	.085	.5
16	MP2C	X	0	4.5
17	MP2C	Z	143.285	4.5
18	MP2C	Mx	.085	4.5
19	MP2A	X	0	.5
20	MP2A	Z	158.612	.5
21	MP2A	Mx	.093	.5
22	MP2A	X	0	4.5
23	MP2A	Z	158.612	4.5
24	MP2A	Mx	.093	4.5
25	MP2B	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
26	MP2B	Z	152.082	.5
27	MP2B	Mx	-.117	.5
28	MP2B	X	0	4.5
29	MP2B	Z	152.082	4.5
30	MP2B	Mx	-.117	4.5
31	MP2C	X	0	.5
32	MP2C	Z	143.285	.5
33	MP2C	Mx	.056	.5
34	MP2C	X	0	4.5
35	MP2C	Z	143.285	4.5
36	MP2C	Mx	.056	4.5
37	MP3A	X	0	1.5
38	MP3A	Z	91.47	1.5
39	MP3A	Mx	0	1.5
40	MP3A	X	0	3.5
41	MP3A	Z	91.47	3.5
42	MP3A	Mx	0	3.5
43	MP3B	X	0	1.5
44	MP3B	Z	68.472	1.5
45	MP3B	Mx	-.022	1.5
46	MP3B	X	0	3.5
47	MP3B	Z	68.472	3.5
48	MP3B	Mx	-.022	3.5
49	MP3C	X	0	1.5
50	MP3C	Z	37.489	1.5
51	MP3C	Mx	.018	1.5
52	MP3C	X	0	3.5
53	MP3C	Z	37.489	3.5
54	MP3C	Mx	.018	3.5
55	MP2A	X	0	.5
56	MP2A	Z	72.786	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	72.786	.5
60	MP2B	Mx	0	.5
61	MP2C	X	0	.5
62	MP2C	Z	72.786	.5
63	MP2C	Mx	0	.5
64	MP1A	X	0	.5
65	MP1A	Z	72.786	.5
66	MP1A	Mx	0	.5
67	MP1B	X	0	.5
68	MP1B	Z	72.786	.5
69	MP1B	Mx	0	.5
70	MP1C	X	0	.5
71	MP1C	Z	72.786	.5
72	MP1C	Mx	0	.5
73	MP3A	X	0	.5
74	MP3A	Z	147.519	.5
75	MP3A	Mx	0	.5
76	MP1A	X	0	.5
77	MP1A	Z	186.831	.5
78	MP1A	Mx	0	.5
79	MP1A	X	0	4.5
80	MP1A	Z	186.831	4.5
81	MP1A	Mx	0	4.5
82	MP4A	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP4A	Z	186.831	.5
84	MP4A	Mx	0	.5
85	MP4A	X	0	4.5
86	MP4A	Z	186.831	4.5
87	MP4A	Mx	0	4.5
88	MP1B	X	0	.5
89	MP1B	Z	118.832	.5
90	MP1B	Mx	-.038	.5
91	MP1B	X	0	4.5
92	MP1B	Z	118.832	4.5
93	MP1B	Mx	-.038	4.5
94	MP4B	X	0	.5
95	MP4B	Z	118.832	.5
96	MP4B	Mx	-.038	.5
97	MP4B	X	0	4.5
98	MP4B	Z	118.832	4.5
99	MP4B	Mx	-.038	4.5
100	MP1C	X	0	.5
101	MP1C	Z	103.434	.5
102	MP1C	Mx	.051	.5
103	MP1C	X	0	4.5
104	MP1C	Z	103.434	4.5
105	MP1C	Mx	.051	4.5
106	MP4C	X	0	.5
107	MP4C	Z	103.434	.5
108	MP4C	Mx	.051	.5
109	MP4C	X	0	4.5
110	MP4C	Z	103.434	4.5
111	MP4C	Mx	.051	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-77.331	.5
2	MP2A	Z	133.941	.5
3	MP2A	Mx	-.039	.5
4	MP2A	X	-77.331	4.5
5	MP2A	Z	133.941	4.5
6	MP2A	Mx	-.039	4.5
7	MP2B	X	-72.329	.5
8	MP2B	Z	125.277	.5
9	MP2B	Mx	-.039	.5
10	MP2B	X	-72.329	4.5
11	MP2B	Z	125.277	4.5
12	MP2B	Mx	-.039	4.5
13	MP2C	X	-74.669	.5
14	MP2C	Z	129.331	.5
15	MP2C	Mx	.113	.5
16	MP2C	X	-74.669	4.5
17	MP2C	Z	129.331	4.5
18	MP2C	Mx	.113	4.5
19	MP2A	X	-77.331	.5
20	MP2A	Z	133.941	.5
21	MP2A	Mx	.117	.5
22	MP2A	X	-77.331	4.5
23	MP2A	Z	133.941	4.5
24	MP2A	Mx	.117	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP2B	X	-72.329	.5
26	MP2B	Z	125.277	.5
27	MP2B	Mx	-.097	.5
28	MP2B	X	-72.329	4.5
29	MP2B	Z	125.277	4.5
30	MP2B	Mx	-.097	4.5
31	MP2C	X	-74.669	.5
32	MP2C	Z	129.331	.5
33	MP2C	Mx	.001	.5
34	MP2C	X	-74.669	4.5
35	MP2C	Z	129.331	4.5
36	MP2C	Mx	.001	4.5
37	MP3A	X	-38.777	1.5
38	MP3A	Z	67.164	1.5
39	MP3A	Mx	.019	1.5
40	MP3A	X	-38.777	3.5
41	MP3A	Z	67.164	3.5
42	MP3A	Mx	.019	3.5
43	MP3B	X	-21.161	1.5
44	MP3B	Z	36.651	1.5
45	MP3B	Mx	-.02	1.5
46	MP3B	X	-21.161	3.5
47	MP3B	Z	36.651	3.5
48	MP3B	Mx	-.02	3.5
49	MP3C	X	-29.404	1.5
50	MP3C	Z	50.929	1.5
51	MP3C	Mx	.023	1.5
52	MP3C	X	-29.404	3.5
53	MP3C	Z	50.929	3.5
54	MP3C	Mx	.023	3.5
55	MP2A	X	-33.377	.5
56	MP2A	Z	57.81	.5
57	MP2A	Mx	-.017	.5
58	MP2B	X	-33.377	.5
59	MP2B	Z	57.81	.5
60	MP2B	Mx	-.017	.5
61	MP2C	X	-33.377	.5
62	MP2C	Z	57.81	.5
63	MP2C	Mx	-.017	.5
64	MP1A	X	-32.221	.5
65	MP1A	Z	55.809	.5
66	MP1A	Mx	-.016	.5
67	MP1B	X	-32.221	.5
68	MP1B	Z	55.809	.5
69	MP1B	Mx	-.016	.5
70	MP1C	X	-32.221	.5
71	MP1C	Z	55.809	.5
72	MP1C	Mx	-.016	.5
73	MP3A	X	-67.525	.5
74	MP3A	Z	116.957	.5
75	MP3A	Mx	-.034	.5
76	MP1A	X	-90.922	.5
77	MP1A	Z	157.481	.5
78	MP1A	Mx	.045	.5
79	MP1A	X	-90.922	4.5
80	MP1A	Z	157.481	4.5
81	MP1A	Mx	.045	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
82	MP4A	X	-90.922	.5
83	MP4A	Z	157.481	.5
84	MP4A	Mx	.045	.5
85	MP4A	X	-90.922	4.5
86	MP4A	Z	157.481	4.5
87	MP4A	Mx	.045	4.5
88	MP1B	X	-79.068	.5
89	MP1B	Z	136.95	.5
90	MP1B	Mx	-.074	.5
91	MP1B	X	-79.068	4.5
92	MP1B	Z	136.95	4.5
93	MP1B	Mx	-.074	4.5
94	MP4B	X	-79.068	.5
95	MP4B	Z	136.95	.5
96	MP4B	Mx	-.074	.5
97	MP4B	X	-79.068	4.5
98	MP4B	Z	136.95	4.5
99	MP4B	Mx	-.074	4.5
100	MP1C	X	-41.323	.5
101	MP1C	Z	71.573	.5
102	MP1C	Mx	.032	.5
103	MP1C	X	-41.323	4.5
104	MP1C	Z	71.573	4.5
105	MP1C	Mx	.032	4.5
106	MP4C	X	-41.323	.5
107	MP4C	Z	71.573	.5
108	MP4C	Mx	.032	.5
109	MP4C	X	-41.323	4.5
110	MP4C	Z	71.573	4.5
111	MP4C	Mx	.032	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-127.097	.5
2	MP2A	Z	73.38	.5
3	MP2A	Mx	.021	.5
4	MP2A	X	-127.097	4.5
5	MP2A	Z	73.38	4.5
6	MP2A	Mx	.021	4.5
7	MP2B	X	-124.088	.5
8	MP2B	Z	71.643	.5
9	MP2B	Mx	-.085	.5
10	MP2B	X	-124.088	4.5
11	MP2B	Z	71.643	4.5
12	MP2B	Mx	-.085	4.5
13	MP2C	X	-135.761	.5
14	MP2C	Z	78.382	.5
15	MP2C	Mx	.113	.5
16	MP2C	X	-135.761	4.5
17	MP2C	Z	78.382	4.5
18	MP2C	Mx	.113	4.5
19	MP2A	X	-127.097	.5
20	MP2A	Z	73.38	.5
21	MP2A	Mx	.106	.5
22	MP2A	X	-127.097	4.5
23	MP2A	Z	73.38	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
24	MP2A	Mx	.106	4.5
25	MP2B	X	-124.088	.5
26	MP2B	Z	71.643	.5
27	MP2B	Mx	-.056	.5
28	MP2B	X	-124.088	4.5
29	MP2B	Z	71.643	4.5
30	MP2B	Mx	-.056	4.5
31	MP2C	X	-135.761	.5
32	MP2C	Z	78.382	.5
33	MP2C	Mx	-.059	.5
34	MP2C	X	-135.761	4.5
35	MP2C	Z	78.382	4.5
36	MP2C	Mx	-.059	4.5
37	MP3A	X	-43.063	1.5
38	MP3A	Z	24.863	1.5
39	MP3A	Mx	.022	1.5
40	MP3A	X	-43.063	3.5
41	MP3A	Z	24.863	3.5
42	MP3A	Mx	.022	3.5
43	MP3B	X	-32.466	1.5
44	MP3B	Z	18.744	1.5
45	MP3B	Mx	-.018	1.5
46	MP3B	X	-32.466	3.5
47	MP3B	Z	18.744	3.5
48	MP3B	Mx	-.018	3.5
49	MP3C	X	-73.576	1.5
50	MP3C	Z	42.479	1.5
51	MP3C	Mx	.015	1.5
52	MP3C	X	-73.576	3.5
53	MP3C	Z	42.479	3.5
54	MP3C	Mx	.015	3.5
55	MP2A	X	-47.36	.5
56	MP2A	Z	27.344	.5
57	MP2A	Mx	-.024	.5
58	MP2B	X	-47.36	.5
59	MP2B	Z	27.344	.5
60	MP2B	Mx	-.024	.5
61	MP2C	X	-47.36	.5
62	MP2C	Z	27.344	.5
63	MP2C	Mx	-.024	.5
64	MP1A	X	-41.356	.5
65	MP1A	Z	23.877	.5
66	MP1A	Mx	-.021	.5
67	MP1B	X	-41.356	.5
68	MP1B	Z	23.877	.5
69	MP1B	Mx	-.021	.5
70	MP1C	X	-41.356	.5
71	MP1C	Z	23.877	.5
72	MP1C	Mx	-.021	.5
73	MP3A	X	-95.362	.5
74	MP3A	Z	55.057	.5
75	MP3A	Mx	-.048	.5
76	MP1A	X	-148.841	.5
77	MP1A	Z	85.933	.5
78	MP1A	Mx	.074	.5
79	MP1A	X	-148.841	4.5
80	MP1A	Z	85.933	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
81	MP1A	Mx	.074	4.5
82	MP4A	X	-148.841	.5
83	MP4A	Z	85.933	.5
84	MP4A	Mx	.074	.5
85	MP4A	X	-148.841	4.5
86	MP4A	Z	85.933	4.5
87	MP4A	Mx	.074	4.5
88	MP1B	X	-143.24	.5
89	MP1B	Z	82.7	.5
90	MP1B	Mx	-.081	.5
91	MP1B	X	-143.24	4.5
92	MP1B	Z	82.7	4.5
93	MP1B	Mx	-.081	4.5
94	MP4B	X	-143.24	.5
95	MP4B	Z	82.7	.5
96	MP4B	Mx	-.081	.5
97	MP4B	X	-143.24	4.5
98	MP4B	Z	82.7	4.5
99	MP4B	Mx	-.081	4.5
100	MP1C	X	-49.488	.5
101	MP1C	Z	28.572	.5
102	MP1C	Mx	.01	.5
103	MP1C	X	-49.488	4.5
104	MP1C	Z	28.572	4.5
105	MP1C	Mx	.01	4.5
106	MP4C	X	-49.488	.5
107	MP4C	Z	28.572	.5
108	MP4C	Mx	.01	.5
109	MP4C	X	-49.488	4.5
110	MP4C	Z	28.572	4.5
111	MP4C	Mx	.01	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-142.808	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.071	.5
4	MP2A	X	-142.808	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	.071	4.5
7	MP2B	X	-149.338	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.113	.5
10	MP2B	X	-149.338	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	-.113	4.5
13	MP2C	X	-158.136	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.077	.5
16	MP2C	X	-158.136	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	.077	4.5
19	MP2A	X	-142.808	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.071	.5
22	MP2A	X	-142.808	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP2A	Z	0	4.5
24	MP2A	Mx	.071	4.5
25	MP2B	X	-149.338	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.001	.5
28	MP2B	X	-149.338	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	-.001	4.5
31	MP2C	X	-158.136	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.105	.5
34	MP2C	X	-158.136	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	-.105	4.5
37	MP3A	X	-35.81	1.5
38	MP3A	Z	0	1.5
39	MP3A	Mx	.018	1.5
40	MP3A	X	-35.81	3.5
41	MP3A	Z	0	3.5
42	MP3A	Mx	.018	3.5
43	MP3B	X	-58.807	1.5
44	MP3B	Z	0	1.5
45	MP3B	Mx	-.023	1.5
46	MP3B	X	-58.807	3.5
47	MP3B	Z	0	3.5
48	MP3B	Mx	-.023	3.5
49	MP3C	X	-89.791	1.5
50	MP3C	Z	0	1.5
51	MP3C	Mx	-.008	1.5
52	MP3C	X	-89.791	3.5
53	MP3C	Z	0	3.5
54	MP3C	Mx	-.008	3.5
55	MP2A	X	-48.654	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.024	.5
58	MP2B	X	-48.654	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.024	.5
61	MP2C	X	-48.654	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	-.024	.5
64	MP1A	X	-39.41	.5
65	MP1A	Z	0	.5
66	MP1A	Mx	-.02	.5
67	MP1B	X	-39.41	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	-.02	.5
70	MP1C	X	-39.41	.5
71	MP1C	Z	0	.5
72	MP1C	Mx	-.02	.5
73	MP3A	X	-97.646	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	-.049	.5
76	MP1A	X	-166.878	.5
77	MP1A	Z	0	.5
78	MP1A	Mx	.083	.5
79	MP1A	X	-166.878	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
80	MP1A	Z	0	4.5
81	MP1A	Mx	.083	4.5
82	MP4A	X	-166.878	.5
83	MP4A	Z	0	.5
84	MP4A	Mx	.083	.5
85	MP4A	X	-166.878	4.5
86	MP4A	Z	0	4.5
87	MP4A	Mx	.083	4.5
88	MP1B	X	-133.358	.5
89	MP1B	Z	0	.5
90	MP1B	Mx	-.051	.5
91	MP1B	X	-133.358	4.5
92	MP1B	Z	0	4.5
93	MP1B	Mx	-.051	4.5
94	MP4B	X	-133.358	.5
95	MP4B	Z	0	.5
96	MP4B	Mx	-.051	.5
97	MP4B	X	-133.358	4.5
98	MP4B	Z	0	4.5
99	MP4B	Mx	-.051	4.5
100	MP1C	X	-52.431	.5
101	MP1C	Z	0	.5
102	MP1C	Mx	-.005	.5
103	MP1C	X	-52.431	4.5
104	MP1C	Z	0	4.5
105	MP1C	Mx	-.005	4.5
106	MP4C	X	-52.431	.5
107	MP4C	Z	0	.5
108	MP4C	Mx	-.005	.5
109	MP4C	X	-52.431	4.5
110	MP4C	Z	0	4.5
111	MP4C	Mx	-.005	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-127.097	.5
2	MP2A	Z	-73.38	.5
3	MP2A	Mx	.106	.5
4	MP2A	X	-127.097	4.5
5	MP2A	Z	-73.38	4.5
6	MP2A	Mx	.106	4.5
7	MP2B	X	-135.761	.5
8	MP2B	Z	-78.382	.5
9	MP2B	Mx	-.113	.5
10	MP2B	X	-135.761	4.5
11	MP2B	Z	-78.382	4.5
12	MP2B	Mx	-.113	4.5
13	MP2C	X	-131.707	.5
14	MP2C	Z	-76.041	.5
15	MP2C	Mx	.019	.5
16	MP2C	X	-131.707	4.5
17	MP2C	Z	-76.041	4.5
18	MP2C	Mx	.019	4.5
19	MP2A	X	-127.097	.5
20	MP2A	Z	-73.38	.5
21	MP2A	Mx	.021	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
22	MP2A	X	-127.097	4.5
23	MP2A	Z	-73.38	4.5
24	MP2A	Mx	.021	4.5
25	MP2B	X	-135.761	.5
26	MP2B	Z	-78.382	.5
27	MP2B	Mx	.059	.5
28	MP2B	X	-135.761	4.5
29	MP2B	Z	-78.382	4.5
30	MP2B	Mx	.059	4.5
31	MP2C	X	-131.707	.5
32	MP2C	Z	-76.041	.5
33	MP2C	Mx	-.117	.5
34	MP2C	X	-131.707	4.5
35	MP2C	Z	-76.041	4.5
36	MP2C	Mx	-.117	4.5
37	MP3A	X	-43.063	1.5
38	MP3A	Z	-24.863	1.5
39	MP3A	Mx	.022	1.5
40	MP3A	X	-43.063	3.5
41	MP3A	Z	-24.863	3.5
42	MP3A	Mx	.022	3.5
43	MP3B	X	-73.576	1.5
44	MP3B	Z	-42.479	1.5
45	MP3B	Mx	-.015	1.5
46	MP3B	X	-73.576	3.5
47	MP3B	Z	-42.479	3.5
48	MP3B	Mx	-.015	3.5
49	MP3C	X	-59.299	1.5
50	MP3C	Z	-34.236	1.5
51	MP3C	Mx	-.022	1.5
52	MP3C	X	-59.299	3.5
53	MP3C	Z	-34.236	3.5
54	MP3C	Mx	-.022	3.5
55	MP2A	X	-47.36	.5
56	MP2A	Z	-27.344	.5
57	MP2A	Mx	-.024	.5
58	MP2B	X	-47.36	.5
59	MP2B	Z	-27.344	.5
60	MP2B	Mx	-.024	.5
61	MP2C	X	-47.36	.5
62	MP2C	Z	-27.344	.5
63	MP2C	Mx	-.024	.5
64	MP1A	X	-41.356	.5
65	MP1A	Z	-23.877	.5
66	MP1A	Mx	-.021	.5
67	MP1B	X	-41.356	.5
68	MP1B	Z	-23.877	.5
69	MP1B	Mx	-.021	.5
70	MP1C	X	-41.356	.5
71	MP1C	Z	-23.877	.5
72	MP1C	Mx	-.021	.5
73	MP3A	X	-95.362	.5
74	MP3A	Z	-55.057	.5
75	MP3A	Mx	-.048	.5
76	MP1A	X	-148.841	.5
77	MP1A	Z	-85.933	.5
78	MP1A	Mx	.074	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
79	MP1A	X	-148.841	4.5
80	MP1A	Z	-85.933	4.5
81	MP1A	Mx	.074	4.5
82	MP4A	X	-148.841	.5
83	MP4A	Z	-85.933	.5
84	MP4A	Mx	.074	.5
85	MP4A	X	-148.841	4.5
86	MP4A	Z	-85.933	4.5
87	MP4A	Mx	.074	4.5
88	MP1B	X	-81.453	.5
89	MP1B	Z	-47.027	.5
90	MP1B	Mx	-.016	.5
91	MP1B	X	-81.453	4.5
92	MP1B	Z	-47.027	4.5
93	MP1B	Mx	-.016	4.5
94	MP4B	X	-81.453	.5
95	MP4B	Z	-47.027	.5
96	MP4B	Mx	-.016	.5
97	MP4B	X	-81.453	4.5
98	MP4B	Z	-47.027	4.5
99	MP4B	Mx	-.016	4.5
100	MP1C	X	-63.411	.5
101	MP1C	Z	-36.61	.5
102	MP1C	Mx	-.024	.5
103	MP1C	X	-63.411	4.5
104	MP1C	Z	-36.61	4.5
105	MP1C	Mx	-.024	4.5
106	MP4C	X	-63.411	.5
107	MP4C	Z	-36.61	.5
108	MP4C	Mx	-.024	.5
109	MP4C	X	-63.411	4.5
110	MP4C	Z	-36.61	4.5
111	MP4C	Mx	-.024	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-77.331	.5
2	MP2A	Z	-133.941	.5
3	MP2A	Mx	.117	.5
4	MP2A	X	-77.331	4.5
5	MP2A	Z	-133.941	4.5
6	MP2A	Mx	.117	4.5
7	MP2B	X	-79.068	.5
8	MP2B	Z	-136.949	.5
9	MP2B	Mx	-.077	.5
10	MP2B	X	-79.068	4.5
11	MP2B	Z	-136.949	4.5
12	MP2B	Mx	-.077	4.5
13	MP2C	X	-72.329	.5
14	MP2C	Z	-125.277	.5
15	MP2C	Mx	-.039	.5
16	MP2C	X	-72.329	4.5
17	MP2C	Z	-125.277	4.5
18	MP2C	Mx	-.039	4.5
19	MP2A	X	-77.331	.5
20	MP2A	Z	-133.941	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP2A	Mx	-.039	.5
22	MP2A	X	-77.331	4.5
23	MP2A	Z	-133.941	4.5
24	MP2A	Mx	-.039	4.5
25	MP2B	X	-79.068	.5
26	MP2B	Z	-136.949	.5
27	MP2B	Mx	.105	.5
28	MP2B	X	-79.068	4.5
29	MP2B	Z	-136.949	4.5
30	MP2B	Mx	.105	4.5
31	MP2C	X	-72.329	.5
32	MP2C	Z	-125.277	.5
33	MP2C	Mx	-.097	.5
34	MP2C	X	-72.329	4.5
35	MP2C	Z	-125.277	4.5
36	MP2C	Mx	-.097	4.5
37	MP3A	X	-38.777	1.5
38	MP3A	Z	-67.164	1.5
39	MP3A	Mx	.019	1.5
40	MP3A	X	-38.777	3.5
41	MP3A	Z	-67.164	3.5
42	MP3A	Mx	.019	3.5
43	MP3B	X	-44.896	1.5
44	MP3B	Z	-77.761	1.5
45	MP3B	Mx	.008	1.5
46	MP3B	X	-44.896	3.5
47	MP3B	Z	-77.761	3.5
48	MP3B	Mx	.008	3.5
49	MP3C	X	-21.161	1.5
50	MP3C	Z	-36.651	1.5
51	MP3C	Mx	-.02	1.5
52	MP3C	X	-21.161	3.5
53	MP3C	Z	-36.651	3.5
54	MP3C	Mx	-.02	3.5
55	MP2A	X	-33.377	.5
56	MP2A	Z	-57.81	.5
57	MP2A	Mx	-.017	.5
58	MP2B	X	-33.377	.5
59	MP2B	Z	-57.81	.5
60	MP2B	Mx	-.017	.5
61	MP2C	X	-33.377	.5
62	MP2C	Z	-57.81	.5
63	MP2C	Mx	-.017	.5
64	MP1A	X	-32.221	.5
65	MP1A	Z	-55.809	.5
66	MP1A	Mx	-.016	.5
67	MP1B	X	-32.221	.5
68	MP1B	Z	-55.809	.5
69	MP1B	Mx	-.016	.5
70	MP1C	X	-32.221	.5
71	MP1C	Z	-55.809	.5
72	MP1C	Mx	-.016	.5
73	MP3A	X	-67.525	.5
74	MP3A	Z	-116.957	.5
75	MP3A	Mx	-.034	.5
76	MP1A	X	-90.922	.5
77	MP1A	Z	-157.481	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
78	MP1A	Mx	.045	.5
79	MP1A	X	-90.922	4.5
80	MP1A	Z	-157.481	4.5
81	MP1A	Mx	.045	4.5
82	MP4A	X	-90.922	.5
83	MP4A	Z	-157.481	.5
84	MP4A	Mx	.045	.5
85	MP4A	X	-90.922	4.5
86	MP4A	Z	-157.481	4.5
87	MP4A	Mx	.045	4.5
88	MP1B	X	-43.396	.5
89	MP1B	Z	-75.163	.5
90	MP1B	Mx	.008	.5
91	MP1B	X	-43.396	4.5
92	MP1B	Z	-75.163	4.5
93	MP1B	Mx	.008	4.5
94	MP4B	X	-43.396	.5
95	MP4B	Z	-75.163	.5
96	MP4B	Mx	.008	.5
97	MP4B	X	-43.396	4.5
98	MP4B	Z	-75.163	4.5
99	MP4B	Mx	.008	4.5
100	MP1C	X	-49.361	.5
101	MP1C	Z	-85.495	.5
102	MP1C	Mx	-.046	.5
103	MP1C	X	-49.361	4.5
104	MP1C	Z	-85.495	4.5
105	MP1C	Mx	-.046	4.5
106	MP4C	X	-49.361	.5
107	MP4C	Z	-85.495	.5
108	MP4C	Mx	-.046	.5
109	MP4C	X	-49.361	4.5
110	MP4C	Z	-85.495	4.5
111	MP4C	Mx	-.046	4.5

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	-33.052	.5
3	MP2A	Mx	.019	.5
4	MP2A	X	0	4.5
5	MP2A	Z	-33.052	4.5
6	MP2A	Mx	.019	4.5
7	MP2B	X	0	.5
8	MP2B	Z	-31.777	.5
9	MP2B	Mx	-.004	.5
10	MP2B	X	0	4.5
11	MP2B	Z	-31.777	4.5
12	MP2B	Mx	-.004	4.5
13	MP2C	X	0	.5
14	MP2C	Z	-30.058	.5
15	MP2C	Mx	-.018	.5
16	MP2C	X	0	4.5
17	MP2C	Z	-30.058	4.5
18	MP2C	Mx	-.018	4.5
19	MP2A	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
20	MP2A	Z	-33.052	.5
21	MP2A	Mx	-.019	.5
22	MP2A	X	0	4.5
23	MP2A	Z	-33.052	4.5
24	MP2A	Mx	-.019	4.5
25	MP2B	X	0	.5
26	MP2B	Z	-31.777	.5
27	MP2B	Mx	.024	.5
28	MP2B	X	0	4.5
29	MP2B	Z	-31.777	4.5
30	MP2B	Mx	.024	4.5
31	MP2C	X	0	.5
32	MP2C	Z	-30.058	.5
33	MP2C	Mx	-.012	.5
34	MP2C	X	0	4.5
35	MP2C	Z	-30.058	4.5
36	MP2C	Mx	-.012	4.5
37	MP3A	X	0	1.5
38	MP3A	Z	-19.542	1.5
39	MP3A	Mx	0	1.5
40	MP3A	X	0	3.5
41	MP3A	Z	-19.542	3.5
42	MP3A	Mx	0	3.5
43	MP3B	X	0	1.5
44	MP3B	Z	-14.908	1.5
45	MP3B	Mx	.005	1.5
46	MP3B	X	0	3.5
47	MP3B	Z	-14.908	3.5
48	MP3B	Mx	.005	3.5
49	MP3C	X	0	1.5
50	MP3C	Z	-8.665	1.5
51	MP3C	Mx	-.004	1.5
52	MP3C	X	0	3.5
53	MP3C	Z	-8.665	3.5
54	MP3C	Mx	-.004	3.5
55	MP2A	X	0	.5
56	MP2A	Z	-16.473	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	-16.473	.5
60	MP2B	Mx	0	.5
61	MP2C	X	0	.5
62	MP2C	Z	-16.473	.5
63	MP2C	Mx	0	.5
64	MP1A	X	0	.5
65	MP1A	Z	-16.473	.5
66	MP1A	Mx	0	.5
67	MP1B	X	0	.5
68	MP1B	Z	-16.473	.5
69	MP1B	Mx	0	.5
70	MP1C	X	0	.5
71	MP1C	Z	-16.473	.5
72	MP1C	Mx	0	.5
73	MP3A	X	0	.5
74	MP3A	Z	-31.707	.5
75	MP3A	Mx	0	.5
76	MP1A	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
77	MP1A	Z	-38.546	.5
78	MP1A	Mx	0	.5
79	MP1A	X	0	4.5
80	MP1A	Z	-38.546	4.5
81	MP1A	Mx	0	4.5
82	MP4A	X	0	.5
83	MP4A	Z	-38.546	.5
84	MP4A	Mx	0	.5
85	MP4A	X	0	4.5
86	MP4A	Z	-38.546	4.5
87	MP4A	Mx	0	4.5
88	MP1B	X	0	.5
89	MP1B	Z	-25.389	.5
90	MP1B	Mx	.008	.5
91	MP1B	X	0	4.5
92	MP1B	Z	-25.389	4.5
93	MP1B	Mx	.008	4.5
94	MP4B	X	0	.5
95	MP4B	Z	-25.389	.5
96	MP4B	Mx	.008	.5
97	MP4B	X	0	4.5
98	MP4B	Z	-25.389	4.5
99	MP4B	Mx	.008	4.5
100	MP1C	X	0	.5
101	MP1C	Z	-21.925	.5
102	MP1C	Mx	-.011	.5
103	MP1C	X	0	4.5
104	MP1C	Z	-21.925	4.5
105	MP1C	Mx	-.011	4.5
106	MP4C	X	0	.5
107	MP4C	Z	-21.925	.5
108	MP4C	Mx	-.011	.5
109	MP4C	X	0	4.5
110	MP4C	Z	-21.925	4.5
111	MP4C	Mx	-.011	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	16.14	.5
2	MP2A	Z	-27.956	.5
3	MP2A	Mx	.008	.5
4	MP2A	X	16.14	4.5
5	MP2A	Z	-27.956	4.5
6	MP2A	Mx	.008	4.5
7	MP2B	X	15.163	.5
8	MP2B	Z	-26.263	.5
9	MP2B	Mx	.008	.5
10	MP2B	X	15.163	4.5
11	MP2B	Z	-26.263	4.5
12	MP2B	Mx	.008	4.5
13	MP2C	X	15.62	.5
14	MP2C	Z	-27.055	.5
15	MP2C	Mx	-.024	.5
16	MP2C	X	15.62	4.5
17	MP2C	Z	-27.055	4.5
18	MP2C	Mx	-.024	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
19	MP2A	X	16.14	.5
20	MP2A	Z	-27.956	.5
21	MP2A	Mx	-.024	.5
22	MP2A	X	16.14	4.5
23	MP2A	Z	-27.956	4.5
24	MP2A	Mx	-.024	4.5
25	MP2B	X	15.163	.5
26	MP2B	Z	-26.263	.5
27	MP2B	Mx	.02	.5
28	MP2B	X	15.163	4.5
29	MP2B	Z	-26.263	4.5
30	MP2B	Mx	.02	4.5
31	MP2C	X	15.62	.5
32	MP2C	Z	-27.055	.5
33	MP2C	Mx	-.000252	.5
34	MP2C	X	15.62	4.5
35	MP2C	Z	-27.055	4.5
36	MP2C	Mx	-.000252	4.5
37	MP3A	X	8.369	1.5
38	MP3A	Z	-14.495	1.5
39	MP3A	Mx	-.004	1.5
40	MP3A	X	8.369	3.5
41	MP3A	Z	-14.495	3.5
42	MP3A	Mx	-.004	3.5
43	MP3B	X	4.819	1.5
44	MP3B	Z	-8.347	1.5
45	MP3B	Mx	.005	1.5
46	MP3B	X	4.819	3.5
47	MP3B	Z	-8.347	3.5
48	MP3B	Mx	.005	3.5
49	MP3C	X	6.48	1.5
50	MP3C	Z	-11.224	1.5
51	MP3C	Mx	-.005	1.5
52	MP3C	X	6.48	3.5
53	MP3C	Z	-11.224	3.5
54	MP3C	Mx	-.005	3.5
55	MP2A	X	7.61	.5
56	MP2A	Z	-13.181	.5
57	MP2A	Mx	.004	.5
58	MP2B	X	7.61	.5
59	MP2B	Z	-13.181	.5
60	MP2B	Mx	.004	.5
61	MP2C	X	7.61	.5
62	MP2C	Z	-13.181	.5
63	MP2C	Mx	.004	.5
64	MP1A	X	7.372	.5
65	MP1A	Z	-12.768	.5
66	MP1A	Mx	.004	.5
67	MP1B	X	7.372	.5
68	MP1B	Z	-12.768	.5
69	MP1B	Mx	.004	.5
70	MP1C	X	7.372	.5
71	MP1C	Z	-12.768	.5
72	MP1C	Mx	.004	.5
73	MP3A	X	14.602	.5
74	MP3A	Z	-25.291	.5
75	MP3A	Mx	.007	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
76	MP1A	X	18.789	.5
77	MP1A	Z	-32.544	.5
78	MP1A	Mx	-.009	.5
79	MP1A	X	18.789	4.5
80	MP1A	Z	-32.544	4.5
81	MP1A	Mx	-.009	4.5
82	MP4A	X	18.789	.5
83	MP4A	Z	-32.544	.5
84	MP4A	Mx	-.009	.5
85	MP4A	X	18.789	4.5
86	MP4A	Z	-32.544	4.5
87	MP4A	Mx	-.009	4.5
88	MP1B	X	16.494	.5
89	MP1B	Z	-28.569	.5
90	MP1B	Mx	.015	.5
91	MP1B	X	16.494	4.5
92	MP1B	Z	-28.569	4.5
93	MP1B	Mx	.015	4.5
94	MP4B	X	16.494	.5
95	MP4B	Z	-28.569	.5
96	MP4B	Mx	.015	.5
97	MP4B	X	16.494	4.5
98	MP4B	Z	-28.569	4.5
99	MP4B	Mx	.015	4.5
100	MP1C	X	8.933	.5
101	MP1C	Z	-15.472	.5
102	MP1C	Mx	-.007	.5
103	MP1C	X	8.933	4.5
104	MP1C	Z	-15.472	4.5
105	MP1C	Mx	-.007	4.5
106	MP4C	X	8.933	.5
107	MP4C	Z	-15.472	.5
108	MP4C	Mx	-.007	.5
109	MP4C	X	8.933	4.5
110	MP4C	Z	-15.472	4.5
111	MP4C	Mx	-.007	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	26.619	.5
2	MP2A	Z	-15.368	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	26.619	4.5
5	MP2A	Z	-15.368	4.5
6	MP2A	Mx	-.004	4.5
7	MP2B	X	26.031	.5
8	MP2B	Z	-15.029	.5
9	MP2B	Mx	.018	.5
10	MP2B	X	26.031	4.5
11	MP2B	Z	-15.029	4.5
12	MP2B	Mx	.018	4.5
13	MP2C	X	28.311	.5
14	MP2C	Z	-16.346	.5
15	MP2C	Mx	-.024	.5
16	MP2C	X	28.311	4.5
17	MP2C	Z	-16.346	4.5



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
18	MP2C	Mx	-.024	4.5
19	MP2A	X	26.619	.5
20	MP2A	Z	-15.368	.5
21	MP2A	Mx	-.022	.5
22	MP2A	X	26.619	4.5
23	MP2A	Z	-15.368	4.5
24	MP2A	Mx	-.022	4.5
25	MP2B	X	26.031	.5
26	MP2B	Z	-15.029	.5
27	MP2B	Mx	.012	.5
28	MP2B	X	26.031	4.5
29	MP2B	Z	-15.029	4.5
30	MP2B	Mx	.012	4.5
31	MP2C	X	28.311	.5
32	MP2C	Z	-16.346	.5
33	MP2C	Mx	.012	.5
34	MP2C	X	28.311	4.5
35	MP2C	Z	-16.346	4.5
36	MP2C	Mx	.012	4.5
37	MP3A	X	9.639	1.5
38	MP3A	Z	-5.565	1.5
39	MP3A	Mx	-.005	1.5
40	MP3A	X	9.639	3.5
41	MP3A	Z	-5.565	3.5
42	MP3A	Mx	-.005	3.5
43	MP3B	X	7.504	1.5
44	MP3B	Z	-4.332	1.5
45	MP3B	Mx	.004	1.5
46	MP3B	X	7.504	3.5
47	MP3B	Z	-4.332	3.5
48	MP3B	Mx	.004	3.5
49	MP3C	X	15.787	1.5
50	MP3C	Z	-9.115	1.5
51	MP3C	Mx	-.003	1.5
52	MP3C	X	15.787	3.5
53	MP3C	Z	-9.115	3.5
54	MP3C	Mx	-.003	3.5
55	MP2A	X	11.01	.5
56	MP2A	Z	-6.357	.5
57	MP2A	Mx	.006	.5
58	MP2B	X	11.01	.5
59	MP2B	Z	-6.357	.5
60	MP2B	Mx	.006	.5
61	MP2C	X	11.01	.5
62	MP2C	Z	-6.357	.5
63	MP2C	Mx	.006	.5
64	MP1A	X	9.773	.5
65	MP1A	Z	-5.642	.5
66	MP1A	Mx	.005	.5
67	MP1B	X	9.773	.5
68	MP1B	Z	-5.642	.5
69	MP1B	Mx	.005	.5
70	MP1C	X	9.773	.5
71	MP1C	Z	-5.642	.5
72	MP1C	Mx	.005	.5
73	MP3A	X	20.954	.5
74	MP3A	Z	-12.098	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
75	MP3A	Mx	.01	.5
76	MP1A	X	30.869	.5
77	MP1A	Z	-17.822	.5
78	MP1A	Mx	-.015	.5
79	MP1A	X	30.869	4.5
80	MP1A	Z	-17.822	4.5
81	MP1A	Mx	-.015	4.5
82	MP4A	X	30.869	.5
83	MP4A	Z	-17.822	.5
84	MP4A	Mx	-.015	.5
85	MP4A	X	30.869	4.5
86	MP4A	Z	-17.822	4.5
87	MP4A	Mx	-.015	4.5
88	MP1B	X	29.786	.5
89	MP1B	Z	-17.197	.5
90	MP1B	Mx	.017	.5
91	MP1B	X	29.786	4.5
92	MP1B	Z	-17.197	4.5
93	MP1B	Mx	.017	4.5
94	MP4B	X	29.786	.5
95	MP4B	Z	-17.197	.5
96	MP4B	Mx	.017	.5
97	MP4B	X	29.786	4.5
98	MP4B	Z	-17.197	4.5
99	MP4B	Mx	.017	4.5
100	MP1C	X	11.159	.5
101	MP1C	Z	-6.443	.5
102	MP1C	Mx	-.002	.5
103	MP1C	X	11.159	4.5
104	MP1C	Z	-6.443	4.5
105	MP1C	Mx	-.002	4.5
106	MP4C	X	11.159	.5
107	MP4C	Z	-6.443	.5
108	MP4C	Mx	-.002	.5
109	MP4C	X	11.159	4.5
110	MP4C	Z	-6.443	4.5
111	MP4C	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	29.965	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.015	.5
4	MP2A	X	29.965	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	-.015	4.5
7	MP2B	X	31.241	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.024	.5
10	MP2B	X	31.241	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	.024	4.5
13	MP2C	X	32.959	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.016	.5
16	MP2C	X	32.959	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
17	MP2C	Z	0	4.5
18	MP2C	Mx	-.016	4.5
19	MP2A	X	29.965	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.015	.5
22	MP2A	X	29.965	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	-.015	4.5
25	MP2B	X	31.241	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.000252	.5
28	MP2B	X	31.241	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	.000252	4.5
31	MP2C	X	32.959	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.022	.5
34	MP2C	X	32.959	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	.022	4.5
37	MP3A	X	8.326	1.5
38	MP3A	Z	0	1.5
39	MP3A	Mx	-.004	1.5
40	MP3A	X	8.326	3.5
41	MP3A	Z	0	3.5
42	MP3A	Mx	-.004	3.5
43	MP3B	X	12.96	1.5
44	MP3B	Z	0	1.5
45	MP3B	Mx	.005	1.5
46	MP3B	X	12.96	3.5
47	MP3B	Z	0	3.5
48	MP3B	Mx	.005	3.5
49	MP3C	X	19.203	1.5
50	MP3C	Z	0	1.5
51	MP3C	Mx	.002	1.5
52	MP3C	X	19.203	3.5
53	MP3C	Z	0	3.5
54	MP3C	Mx	.002	3.5
55	MP2A	X	11.46	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.006	.5
58	MP2B	X	11.46	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	.006	.5
61	MP2C	X	11.46	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	.006	.5
64	MP1A	X	9.555	.5
65	MP1A	Z	0	.5
66	MP1A	Mx	.005	.5
67	MP1B	X	9.555	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	.005	.5
70	MP1C	X	9.555	.5
71	MP1C	Z	0	.5
72	MP1C	Mx	.005	.5
73	MP3A	X	21.691	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
74	MP3A	Z	0	.5
75	MP3A	Mx	.011	.5
76	MP1A	X	34.677	.5
77	MP1A	Z	0	.5
78	MP1A	Mx	-.017	.5
79	MP1A	X	34.677	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	-.017	4.5
82	MP4A	X	34.677	.5
83	MP4A	Z	0	.5
84	MP4A	Mx	-.017	.5
85	MP4A	X	34.677	4.5
86	MP4A	Z	0	4.5
87	MP4A	Mx	-.017	4.5
88	MP1B	X	28.198	.5
89	MP1B	Z	0	.5
90	MP1B	Mx	.011	.5
91	MP1B	X	28.198	4.5
92	MP1B	Z	0	4.5
93	MP1B	Mx	.011	4.5
94	MP4B	X	28.198	.5
95	MP4B	Z	0	.5
96	MP4B	Mx	.011	.5
97	MP4B	X	28.198	4.5
98	MP4B	Z	0	4.5
99	MP4B	Mx	.011	4.5
100	MP1C	X	11.965	.5
101	MP1C	Z	0	.5
102	MP1C	Mx	.001	.5
103	MP1C	X	11.965	4.5
104	MP1C	Z	0	4.5
105	MP1C	Mx	.001	4.5
106	MP4C	X	11.965	.5
107	MP4C	Z	0	.5
108	MP4C	Mx	.001	.5
109	MP4C	X	11.965	4.5
110	MP4C	Z	0	4.5
111	MP4C	Mx	.001	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	26.619	.5
2	MP2A	Z	15.368	.5
3	MP2A	Mx	-.022	.5
4	MP2A	X	26.619	4.5
5	MP2A	Z	15.368	4.5
6	MP2A	Mx	-.022	4.5
7	MP2B	X	28.311	.5
8	MP2B	Z	16.346	.5
9	MP2B	Mx	.024	.5
10	MP2B	X	28.311	4.5
11	MP2B	Z	16.346	4.5
12	MP2B	Mx	.024	4.5
13	MP2C	X	27.52	.5
14	MP2C	Z	15.888	.5
15	MP2C	Mx	-.004	.5



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
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Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP2C	X	27.52	4.5
17	MP2C	Z	15.888	4.5
18	MP2C	Mx	-.004	4.5
19	MP2A	X	26.619	.5
20	MP2A	Z	15.368	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	26.619	4.5
23	MP2A	Z	15.368	4.5
24	MP2A	Mx	-.004	4.5
25	MP2B	X	28.311	.5
26	MP2B	Z	16.346	.5
27	MP2B	Mx	-.012	.5
28	MP2B	X	28.311	4.5
29	MP2B	Z	16.346	4.5
30	MP2B	Mx	-.012	4.5
31	MP2C	X	27.52	.5
32	MP2C	Z	15.888	.5
33	MP2C	Mx	.024	.5
34	MP2C	X	27.52	4.5
35	MP2C	Z	15.888	4.5
36	MP2C	Mx	.024	4.5
37	MP3A	X	9.639	1.5
38	MP3A	Z	5.565	1.5
39	MP3A	Mx	-.005	1.5
40	MP3A	X	9.639	3.5
41	MP3A	Z	5.565	3.5
42	MP3A	Mx	-.005	3.5
43	MP3B	X	15.787	1.5
44	MP3B	Z	9.115	1.5
45	MP3B	Mx	.003	1.5
46	MP3B	X	15.787	3.5
47	MP3B	Z	9.115	3.5
48	MP3B	Mx	.003	3.5
49	MP3C	X	12.911	1.5
50	MP3C	Z	7.454	1.5
51	MP3C	Mx	.005	1.5
52	MP3C	X	12.911	3.5
53	MP3C	Z	7.454	3.5
54	MP3C	Mx	.005	3.5
55	MP2A	X	11.01	.5
56	MP2A	Z	6.357	.5
57	MP2A	Mx	.006	.5
58	MP2B	X	11.01	.5
59	MP2B	Z	6.357	.5
60	MP2B	Mx	.006	.5
61	MP2C	X	11.01	.5
62	MP2C	Z	6.357	.5
63	MP2C	Mx	.006	.5
64	MP1A	X	9.773	.5
65	MP1A	Z	5.642	.5
66	MP1A	Mx	.005	.5
67	MP1B	X	9.773	.5
68	MP1B	Z	5.642	.5
69	MP1B	Mx	.005	.5
70	MP1C	X	9.773	.5
71	MP1C	Z	5.642	.5
72	MP1C	Mx	.005	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP3A	X	20.954	.5
74	MP3A	Z	12.098	.5
75	MP3A	Mx	.01	.5
76	MP1A	X	30.869	.5
77	MP1A	Z	17.822	.5
78	MP1A	Mx	-.015	.5
79	MP1A	X	30.869	4.5
80	MP1A	Z	17.822	4.5
81	MP1A	Mx	-.015	4.5
82	MP4A	X	30.869	.5
83	MP4A	Z	17.822	.5
84	MP4A	Mx	-.015	.5
85	MP4A	X	30.869	4.5
86	MP4A	Z	17.822	4.5
87	MP4A	Mx	-.015	4.5
88	MP1B	X	17.838	.5
89	MP1B	Z	10.299	.5
90	MP1B	Mx	.004	.5
91	MP1B	X	17.838	4.5
92	MP1B	Z	10.299	4.5
93	MP1B	Mx	.004	4.5
94	MP4B	X	17.838	.5
95	MP4B	Z	10.299	.5
96	MP4B	Mx	.004	.5
97	MP4B	X	17.838	4.5
98	MP4B	Z	10.299	4.5
99	MP4B	Mx	.004	4.5
100	MP1C	X	13.878	.5
101	MP1C	Z	8.012	.5
102	MP1C	Mx	.005	.5
103	MP1C	X	13.878	4.5
104	MP1C	Z	8.012	4.5
105	MP1C	Mx	.005	4.5
106	MP4C	X	13.878	.5
107	MP4C	Z	8.012	.5
108	MP4C	Mx	.005	.5
109	MP4C	X	13.878	4.5
110	MP4C	Z	8.012	4.5
111	MP4C	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	16.14	.5
2	MP2A	Z	27.956	.5
3	MP2A	Mx	-.024	.5
4	MP2A	X	16.14	4.5
5	MP2A	Z	27.956	4.5
6	MP2A	Mx	-.024	4.5
7	MP2B	X	16.48	.5
8	MP2B	Z	28.544	.5
9	MP2B	Mx	.016	.5
10	MP2B	X	16.48	4.5
11	MP2B	Z	28.544	4.5
12	MP2B	Mx	.016	4.5
13	MP2C	X	15.163	.5
14	MP2C	Z	26.263	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2C	Mx	.008	.5
16	MP2C	X	15.163	4.5
17	MP2C	Z	26.263	4.5
18	MP2C	Mx	.008	4.5
19	MP2A	X	16.14	.5
20	MP2A	Z	27.956	.5
21	MP2A	Mx	.008	.5
22	MP2A	X	16.14	4.5
23	MP2A	Z	27.956	4.5
24	MP2A	Mx	.008	4.5
25	MP2B	X	16.48	.5
26	MP2B	Z	28.544	.5
27	MP2B	Mx	-.022	.5
28	MP2B	X	16.48	4.5
29	MP2B	Z	28.544	4.5
30	MP2B	Mx	-.022	4.5
31	MP2C	X	15.163	.5
32	MP2C	Z	26.263	.5
33	MP2C	Mx	.02	.5
34	MP2C	X	15.163	4.5
35	MP2C	Z	26.263	4.5
36	MP2C	Mx	.02	4.5
37	MP3A	X	8.369	1.5
38	MP3A	Z	14.495	1.5
39	MP3A	Mx	-.004	1.5
40	MP3A	X	8.369	3.5
41	MP3A	Z	14.495	3.5
42	MP3A	Mx	-.004	3.5
43	MP3B	X	9.602	1.5
44	MP3B	Z	16.631	1.5
45	MP3B	Mx	-.002	1.5
46	MP3B	X	9.602	3.5
47	MP3B	Z	16.631	3.5
48	MP3B	Mx	-.002	3.5
49	MP3C	X	4.819	1.5
50	MP3C	Z	8.347	1.5
51	MP3C	Mx	.005	1.5
52	MP3C	X	4.819	3.5
53	MP3C	Z	8.347	3.5
54	MP3C	Mx	.005	3.5
55	MP2A	X	7.61	.5
56	MP2A	Z	13.181	.5
57	MP2A	Mx	.004	.5
58	MP2B	X	7.61	.5
59	MP2B	Z	13.181	.5
60	MP2B	Mx	.004	.5
61	MP2C	X	7.61	.5
62	MP2C	Z	13.181	.5
63	MP2C	Mx	.004	.5
64	MP1A	X	7.372	.5
65	MP1A	Z	12.768	.5
66	MP1A	Mx	.004	.5
67	MP1B	X	7.372	.5
68	MP1B	Z	12.768	.5
69	MP1B	Mx	.004	.5
70	MP1C	X	7.372	.5
71	MP1C	Z	12.768	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
72	MP1C	Mx	.004	.5
73	MP3A	X	14.602	.5
74	MP3A	Z	25.291	.5
75	MP3A	Mx	.007	.5
76	MP1A	X	18.789	.5
77	MP1A	Z	32.544	.5
78	MP1A	Mx	-.009	.5
79	MP1A	X	18.789	4.5
80	MP1A	Z	32.544	4.5
81	MP1A	Mx	-.009	4.5
82	MP4A	X	18.789	.5
83	MP4A	Z	32.544	.5
84	MP4A	Mx	-.009	.5
85	MP4A	X	18.789	4.5
86	MP4A	Z	32.544	4.5
87	MP4A	Mx	-.009	4.5
88	MP1B	X	9.596	.5
89	MP1B	Z	16.621	.5
90	MP1B	Mx	-.002	.5
91	MP1B	X	9.596	4.5
92	MP1B	Z	16.621	4.5
93	MP1B	Mx	-.002	4.5
94	MP4B	X	9.596	.5
95	MP4B	Z	16.621	.5
96	MP4B	Mx	-.002	.5
97	MP4B	X	9.596	4.5
98	MP4B	Z	16.621	4.5
99	MP4B	Mx	-.002	4.5
100	MP1C	X	10.502	.5
101	MP1C	Z	18.191	.5
102	MP1C	Mx	.01	.5
103	MP1C	X	10.502	4.5
104	MP1C	Z	18.191	4.5
105	MP1C	Mx	.01	4.5
106	MP4C	X	10.502	.5
107	MP4C	Z	18.191	.5
108	MP4C	Mx	.01	.5
109	MP4C	X	10.502	4.5
110	MP4C	Z	18.191	4.5
111	MP4C	Mx	.01	4.5

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	33.052	.5
3	MP2A	Mx	-.019	.5
4	MP2A	X	0	4.5
5	MP2A	Z	33.052	4.5
6	MP2A	Mx	-.019	4.5
7	MP2B	X	0	.5
8	MP2B	Z	31.777	.5
9	MP2B	Mx	.004	.5
10	MP2B	X	0	4.5
11	MP2B	Z	31.777	4.5
12	MP2B	Mx	.004	4.5
13	MP2C	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
14	MP2C	Z	30.058	.5
15	MP2C	Mx	.018	.5
16	MP2C	X	0	4.5
17	MP2C	Z	30.058	4.5
18	MP2C	Mx	.018	4.5
19	MP2A	X	0	.5
20	MP2A	Z	33.052	.5
21	MP2A	Mx	.019	.5
22	MP2A	X	0	4.5
23	MP2A	Z	33.052	4.5
24	MP2A	Mx	.019	4.5
25	MP2B	X	0	.5
26	MP2B	Z	31.777	.5
27	MP2B	Mx	-.024	.5
28	MP2B	X	0	4.5
29	MP2B	Z	31.777	4.5
30	MP2B	Mx	-.024	4.5
31	MP2C	X	0	.5
32	MP2C	Z	30.058	.5
33	MP2C	Mx	.012	.5
34	MP2C	X	0	4.5
35	MP2C	Z	30.058	4.5
36	MP2C	Mx	.012	4.5
37	MP3A	X	0	1.5
38	MP3A	Z	19.542	1.5
39	MP3A	Mx	0	1.5
40	MP3A	X	0	3.5
41	MP3A	Z	19.542	3.5
42	MP3A	Mx	0	3.5
43	MP3B	X	0	1.5
44	MP3B	Z	14.908	1.5
45	MP3B	Mx	-.005	1.5
46	MP3B	X	0	3.5
47	MP3B	Z	14.908	3.5
48	MP3B	Mx	-.005	3.5
49	MP3C	X	0	1.5
50	MP3C	Z	8.665	1.5
51	MP3C	Mx	.004	1.5
52	MP3C	X	0	3.5
53	MP3C	Z	8.665	3.5
54	MP3C	Mx	.004	3.5
55	MP2A	X	0	.5
56	MP2A	Z	16.473	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	16.473	.5
60	MP2B	Mx	0	.5
61	MP2C	X	0	.5
62	MP2C	Z	16.473	.5
63	MP2C	Mx	0	.5
64	MP1A	X	0	.5
65	MP1A	Z	16.473	.5
66	MP1A	Mx	0	.5
67	MP1B	X	0	.5
68	MP1B	Z	16.473	.5
69	MP1B	Mx	0	.5
70	MP1C	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
71	MP1C	Z	16.473	.5
72	MP1C	Mx	0	.5
73	MP3A	X	0	.5
74	MP3A	Z	31.707	.5
75	MP3A	Mx	0	.5
76	MP1A	X	0	.5
77	MP1A	Z	38.546	.5
78	MP1A	Mx	0	.5
79	MP1A	X	0	4.5
80	MP1A	Z	38.546	4.5
81	MP1A	Mx	0	4.5
82	MP4A	X	0	.5
83	MP4A	Z	38.546	.5
84	MP4A	Mx	0	.5
85	MP4A	X	0	4.5
86	MP4A	Z	38.546	4.5
87	MP4A	Mx	0	4.5
88	MP1B	X	0	.5
89	MP1B	Z	25.389	.5
90	MP1B	Mx	-.008	.5
91	MP1B	X	0	4.5
92	MP1B	Z	25.389	4.5
93	MP1B	Mx	-.008	4.5
94	MP4B	X	0	.5
95	MP4B	Z	25.389	.5
96	MP4B	Mx	-.008	.5
97	MP4B	X	0	4.5
98	MP4B	Z	25.389	4.5
99	MP4B	Mx	-.008	4.5
100	MP1C	X	0	.5
101	MP1C	Z	21.925	.5
102	MP1C	Mx	.011	.5
103	MP1C	X	0	4.5
104	MP1C	Z	21.925	4.5
105	MP1C	Mx	.011	4.5
106	MP4C	X	0	.5
107	MP4C	Z	21.925	.5
108	MP4C	Mx	.011	.5
109	MP4C	X	0	4.5
110	MP4C	Z	21.925	4.5
111	MP4C	Mx	.011	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-16.14	.5
2	MP2A	Z	27.956	.5
3	MP2A	Mx	-.008	.5
4	MP2A	X	-16.14	4.5
5	MP2A	Z	27.956	4.5
6	MP2A	Mx	-.008	4.5
7	MP2B	X	-15.163	.5
8	MP2B	Z	26.263	.5
9	MP2B	Mx	-.008	.5
10	MP2B	X	-15.163	4.5
11	MP2B	Z	26.263	4.5
12	MP2B	Mx	-.008	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP2C	X	-15.62	.5
14	MP2C	Z	27.055	.5
15	MP2C	Mx	.024	.5
16	MP2C	X	-15.62	4.5
17	MP2C	Z	27.055	4.5
18	MP2C	Mx	.024	4.5
19	MP2A	X	-16.14	.5
20	MP2A	Z	27.956	.5
21	MP2A	Mx	.024	.5
22	MP2A	X	-16.14	4.5
23	MP2A	Z	27.956	4.5
24	MP2A	Mx	.024	4.5
25	MP2B	X	-15.163	.5
26	MP2B	Z	26.263	.5
27	MP2B	Mx	-.02	.5
28	MP2B	X	-15.163	4.5
29	MP2B	Z	26.263	4.5
30	MP2B	Mx	-.02	4.5
31	MP2C	X	-15.62	.5
32	MP2C	Z	27.055	.5
33	MP2C	Mx	.000252	.5
34	MP2C	X	-15.62	4.5
35	MP2C	Z	27.055	4.5
36	MP2C	Mx	.000252	4.5
37	MP3A	X	-8.369	1.5
38	MP3A	Z	14.495	1.5
39	MP3A	Mx	.004	1.5
40	MP3A	X	-8.369	3.5
41	MP3A	Z	14.495	3.5
42	MP3A	Mx	.004	3.5
43	MP3B	X	-4.819	1.5
44	MP3B	Z	8.347	1.5
45	MP3B	Mx	-.005	1.5
46	MP3B	X	-4.819	3.5
47	MP3B	Z	8.347	3.5
48	MP3B	Mx	-.005	3.5
49	MP3C	X	-6.48	1.5
50	MP3C	Z	11.224	1.5
51	MP3C	Mx	.005	1.5
52	MP3C	X	-6.48	3.5
53	MP3C	Z	11.224	3.5
54	MP3C	Mx	.005	3.5
55	MP2A	X	-7.61	.5
56	MP2A	Z	13.181	.5
57	MP2A	Mx	-.004	.5
58	MP2B	X	-7.61	.5
59	MP2B	Z	13.181	.5
60	MP2B	Mx	-.004	.5
61	MP2C	X	-7.61	.5
62	MP2C	Z	13.181	.5
63	MP2C	Mx	-.004	.5
64	MP1A	X	-7.372	.5
65	MP1A	Z	12.768	.5
66	MP1A	Mx	-.004	.5
67	MP1B	X	-7.372	.5
68	MP1B	Z	12.768	.5
69	MP1B	Mx	-.004	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
70	MP1C	X	-7.372	.5
71	MP1C	Z	12.768	.5
72	MP1C	Mx	-.004	.5
73	MP3A	X	-14.602	.5
74	MP3A	Z	25.291	.5
75	MP3A	Mx	-.007	.5
76	MP1A	X	-18.789	.5
77	MP1A	Z	32.544	.5
78	MP1A	Mx	.009	.5
79	MP1A	X	-18.789	4.5
80	MP1A	Z	32.544	4.5
81	MP1A	Mx	.009	4.5
82	MP4A	X	-18.789	.5
83	MP4A	Z	32.544	.5
84	MP4A	Mx	.009	.5
85	MP4A	X	-18.789	4.5
86	MP4A	Z	32.544	4.5
87	MP4A	Mx	.009	4.5
88	MP1B	X	-16.494	.5
89	MP1B	Z	28.569	.5
90	MP1B	Mx	-.015	.5
91	MP1B	X	-16.494	4.5
92	MP1B	Z	28.569	4.5
93	MP1B	Mx	-.015	4.5
94	MP4B	X	-16.494	.5
95	MP4B	Z	28.569	.5
96	MP4B	Mx	-.015	.5
97	MP4B	X	-16.494	4.5
98	MP4B	Z	28.569	4.5
99	MP4B	Mx	-.015	4.5
100	MP1C	X	-8.933	.5
101	MP1C	Z	15.472	.5
102	MP1C	Mx	.007	.5
103	MP1C	X	-8.933	4.5
104	MP1C	Z	15.472	4.5
105	MP1C	Mx	.007	4.5
106	MP4C	X	-8.933	.5
107	MP4C	Z	15.472	.5
108	MP4C	Mx	.007	.5
109	MP4C	X	-8.933	4.5
110	MP4C	Z	15.472	4.5
111	MP4C	Mx	.007	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-26.619	.5
2	MP2A	Z	15.368	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	-26.619	4.5
5	MP2A	Z	15.368	4.5
6	MP2A	Mx	.004	4.5
7	MP2B	X	-26.031	.5
8	MP2B	Z	15.029	.5
9	MP2B	Mx	-.018	.5
10	MP2B	X	-26.031	4.5
11	MP2B	Z	15.029	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP2B	Mx	-.018	4.5
13	MP2C	X	-28.311	.5
14	MP2C	Z	16.346	.5
15	MP2C	Mx	.024	.5
16	MP2C	X	-28.311	4.5
17	MP2C	Z	16.346	4.5
18	MP2C	Mx	.024	4.5
19	MP2A	X	-26.619	.5
20	MP2A	Z	15.368	.5
21	MP2A	Mx	.022	.5
22	MP2A	X	-26.619	4.5
23	MP2A	Z	15.368	4.5
24	MP2A	Mx	.022	4.5
25	MP2B	X	-26.031	.5
26	MP2B	Z	15.029	.5
27	MP2B	Mx	-.012	.5
28	MP2B	X	-26.031	4.5
29	MP2B	Z	15.029	4.5
30	MP2B	Mx	-.012	4.5
31	MP2C	X	-28.311	.5
32	MP2C	Z	16.346	.5
33	MP2C	Mx	-.012	.5
34	MP2C	X	-28.311	4.5
35	MP2C	Z	16.346	4.5
36	MP2C	Mx	-.012	4.5
37	MP3A	X	-9.639	1.5
38	MP3A	Z	5.565	1.5
39	MP3A	Mx	.005	1.5
40	MP3A	X	-9.639	3.5
41	MP3A	Z	5.565	3.5
42	MP3A	Mx	.005	3.5
43	MP3B	X	-7.504	1.5
44	MP3B	Z	4.332	1.5
45	MP3B	Mx	-.004	1.5
46	MP3B	X	-7.504	3.5
47	MP3B	Z	4.332	3.5
48	MP3B	Mx	-.004	3.5
49	MP3C	X	-15.787	1.5
50	MP3C	Z	9.115	1.5
51	MP3C	Mx	.003	1.5
52	MP3C	X	-15.787	3.5
53	MP3C	Z	9.115	3.5
54	MP3C	Mx	.003	3.5
55	MP2A	X	-11.01	.5
56	MP2A	Z	6.357	.5
57	MP2A	Mx	-.006	.5
58	MP2B	X	-11.01	.5
59	MP2B	Z	6.357	.5
60	MP2B	Mx	-.006	.5
61	MP2C	X	-11.01	.5
62	MP2C	Z	6.357	.5
63	MP2C	Mx	-.006	.5
64	MP1A	X	-9.773	.5
65	MP1A	Z	5.642	.5
66	MP1A	Mx	-.005	.5
67	MP1B	X	-9.773	.5
68	MP1B	Z	5.642	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
69	MP1B	Mx	-.005	.5
70	MP1C	X	-9.773	.5
71	MP1C	Z	5.642	.5
72	MP1C	Mx	-.005	.5
73	MP3A	X	-20.954	.5
74	MP3A	Z	12.098	.5
75	MP3A	Mx	-.01	.5
76	MP1A	X	-30.869	.5
77	MP1A	Z	17.822	.5
78	MP1A	Mx	.015	.5
79	MP1A	X	-30.869	4.5
80	MP1A	Z	17.822	4.5
81	MP1A	Mx	.015	4.5
82	MP4A	X	-30.869	.5
83	MP4A	Z	17.822	.5
84	MP4A	Mx	.015	.5
85	MP4A	X	-30.869	4.5
86	MP4A	Z	17.822	4.5
87	MP4A	Mx	.015	4.5
88	MP1B	X	-29.786	.5
89	MP1B	Z	17.197	.5
90	MP1B	Mx	-.017	.5
91	MP1B	X	-29.786	4.5
92	MP1B	Z	17.197	4.5
93	MP1B	Mx	-.017	4.5
94	MP4B	X	-29.786	.5
95	MP4B	Z	17.197	.5
96	MP4B	Mx	-.017	.5
97	MP4B	X	-29.786	4.5
98	MP4B	Z	17.197	4.5
99	MP4B	Mx	-.017	4.5
100	MP1C	X	-11.159	.5
101	MP1C	Z	6.443	.5
102	MP1C	Mx	.002	.5
103	MP1C	X	-11.159	4.5
104	MP1C	Z	6.443	4.5
105	MP1C	Mx	.002	4.5
106	MP4C	X	-11.159	.5
107	MP4C	Z	6.443	.5
108	MP4C	Mx	.002	.5
109	MP4C	X	-11.159	4.5
110	MP4C	Z	6.443	4.5
111	MP4C	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-29.965	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.015	.5
4	MP2A	X	-29.965	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	.015	4.5
7	MP2B	X	-31.241	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.024	.5
10	MP2B	X	-31.241	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP2B	Z	0	4.5
12	MP2B	Mx	-.024	4.5
13	MP2C	X	-32.959	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.016	.5
16	MP2C	X	-32.959	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	.016	4.5
19	MP2A	X	-29.965	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.015	.5
22	MP2A	X	-29.965	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	.015	4.5
25	MP2B	X	-31.241	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.000252	.5
28	MP2B	X	-31.241	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	-.000252	4.5
31	MP2C	X	-32.959	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.022	.5
34	MP2C	X	-32.959	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	-.022	4.5
37	MP3A	X	-8.326	1.5
38	MP3A	Z	0	1.5
39	MP3A	Mx	.004	1.5
40	MP3A	X	-8.326	3.5
41	MP3A	Z	0	3.5
42	MP3A	Mx	.004	3.5
43	MP3B	X	-12.96	1.5
44	MP3B	Z	0	1.5
45	MP3B	Mx	-.005	1.5
46	MP3B	X	-12.96	3.5
47	MP3B	Z	0	3.5
48	MP3B	Mx	-.005	3.5
49	MP3C	X	-19.203	1.5
50	MP3C	Z	0	1.5
51	MP3C	Mx	-.002	1.5
52	MP3C	X	-19.203	3.5
53	MP3C	Z	0	3.5
54	MP3C	Mx	-.002	3.5
55	MP2A	X	-11.46	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.006	.5
58	MP2B	X	-11.46	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.006	.5
61	MP2C	X	-11.46	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	-.006	.5
64	MP1A	X	-9.555	.5
65	MP1A	Z	0	.5
66	MP1A	Mx	-.005	.5
67	MP1B	X	-9.555	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP1B	Z	0	.5
69	MP1B	Mx	-.005	.5
70	MP1C	X	-9.555	.5
71	MP1C	Z	0	.5
72	MP1C	Mx	-.005	.5
73	MP3A	X	-21.691	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	-.011	.5
76	MP1A	X	-34.677	.5
77	MP1A	Z	0	.5
78	MP1A	Mx	.017	.5
79	MP1A	X	-34.677	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	.017	4.5
82	MP4A	X	-34.677	.5
83	MP4A	Z	0	.5
84	MP4A	Mx	.017	.5
85	MP4A	X	-34.677	4.5
86	MP4A	Z	0	4.5
87	MP4A	Mx	.017	4.5
88	MP1B	X	-28.198	.5
89	MP1B	Z	0	.5
90	MP1B	Mx	-.011	.5
91	MP1B	X	-28.198	4.5
92	MP1B	Z	0	4.5
93	MP1B	Mx	-.011	4.5
94	MP4B	X	-28.198	.5
95	MP4B	Z	0	.5
96	MP4B	Mx	-.011	.5
97	MP4B	X	-28.198	4.5
98	MP4B	Z	0	4.5
99	MP4B	Mx	-.011	4.5
100	MP1C	X	-11.965	.5
101	MP1C	Z	0	.5
102	MP1C	Mx	-.001	.5
103	MP1C	X	-11.965	4.5
104	MP1C	Z	0	4.5
105	MP1C	Mx	-.001	4.5
106	MP4C	X	-11.965	.5
107	MP4C	Z	0	.5
108	MP4C	Mx	-.001	.5
109	MP4C	X	-11.965	4.5
110	MP4C	Z	0	4.5
111	MP4C	Mx	-.001	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-26.619	.5
2	MP2A	Z	-15.368	.5
3	MP2A	Mx	.022	.5
4	MP2A	X	-26.619	4.5
5	MP2A	Z	-15.368	4.5
6	MP2A	Mx	.022	4.5
7	MP2B	X	-28.311	.5
8	MP2B	Z	-16.346	.5
9	MP2B	Mx	-.024	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
10	MP2B	X	-28.311	4.5
11	MP2B	Z	-16.346	4.5
12	MP2B	Mx	-.024	4.5
13	MP2C	X	-27.52	.5
14	MP2C	Z	-15.888	.5
15	MP2C	Mx	.004	.5
16	MP2C	X	-27.52	4.5
17	MP2C	Z	-15.888	4.5
18	MP2C	Mx	.004	4.5
19	MP2A	X	-26.619	.5
20	MP2A	Z	-15.368	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	-26.619	4.5
23	MP2A	Z	-15.368	4.5
24	MP2A	Mx	.004	4.5
25	MP2B	X	-28.311	.5
26	MP2B	Z	-16.346	.5
27	MP2B	Mx	.012	.5
28	MP2B	X	-28.311	4.5
29	MP2B	Z	-16.346	4.5
30	MP2B	Mx	.012	4.5
31	MP2C	X	-27.52	.5
32	MP2C	Z	-15.888	.5
33	MP2C	Mx	-.024	.5
34	MP2C	X	-27.52	4.5
35	MP2C	Z	-15.888	4.5
36	MP2C	Mx	-.024	4.5
37	MP3A	X	-9.639	1.5
38	MP3A	Z	-5.565	1.5
39	MP3A	Mx	.005	1.5
40	MP3A	X	-9.639	3.5
41	MP3A	Z	-5.565	3.5
42	MP3A	Mx	.005	3.5
43	MP3B	X	-15.787	1.5
44	MP3B	Z	-9.115	1.5
45	MP3B	Mx	-.003	1.5
46	MP3B	X	-15.787	3.5
47	MP3B	Z	-9.115	3.5
48	MP3B	Mx	-.003	3.5
49	MP3C	X	-12.911	1.5
50	MP3C	Z	-7.454	1.5
51	MP3C	Mx	-.005	1.5
52	MP3C	X	-12.911	3.5
53	MP3C	Z	-7.454	3.5
54	MP3C	Mx	-.005	3.5
55	MP2A	X	-11.01	.5
56	MP2A	Z	-6.357	.5
57	MP2A	Mx	-.006	.5
58	MP2B	X	-11.01	.5
59	MP2B	Z	-6.357	.5
60	MP2B	Mx	-.006	.5
61	MP2C	X	-11.01	.5
62	MP2C	Z	-6.357	.5
63	MP2C	Mx	-.006	.5
64	MP1A	X	-9.773	.5
65	MP1A	Z	-5.642	.5
66	MP1A	Mx	-.005	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
67	MP1B	X	-9.773	.5
68	MP1B	Z	-5.642	.5
69	MP1B	Mx	-.005	.5
70	MP1C	X	-9.773	.5
71	MP1C	Z	-5.642	.5
72	MP1C	Mx	-.005	.5
73	MP3A	X	-20.954	.5
74	MP3A	Z	-12.098	.5
75	MP3A	Mx	-.01	.5
76	MP1A	X	-30.869	.5
77	MP1A	Z	-17.822	.5
78	MP1A	Mx	.015	.5
79	MP1A	X	-30.869	4.5
80	MP1A	Z	-17.822	4.5
81	MP1A	Mx	.015	4.5
82	MP4A	X	-30.869	.5
83	MP4A	Z	-17.822	.5
84	MP4A	Mx	.015	.5
85	MP4A	X	-30.869	4.5
86	MP4A	Z	-17.822	4.5
87	MP4A	Mx	.015	4.5
88	MP1B	X	-17.838	.5
89	MP1B	Z	-10.299	.5
90	MP1B	Mx	-.004	.5
91	MP1B	X	-17.838	4.5
92	MP1B	Z	-10.299	4.5
93	MP1B	Mx	-.004	4.5
94	MP4B	X	-17.838	.5
95	MP4B	Z	-10.299	.5
96	MP4B	Mx	-.004	.5
97	MP4B	X	-17.838	4.5
98	MP4B	Z	-10.299	4.5
99	MP4B	Mx	-.004	4.5
100	MP1C	X	-13.878	.5
101	MP1C	Z	-8.012	.5
102	MP1C	Mx	-.005	.5
103	MP1C	X	-13.878	4.5
104	MP1C	Z	-8.012	4.5
105	MP1C	Mx	-.005	4.5
106	MP4C	X	-13.878	.5
107	MP4C	Z	-8.012	.5
108	MP4C	Mx	-.005	.5
109	MP4C	X	-13.878	4.5
110	MP4C	Z	-8.012	4.5
111	MP4C	Mx	-.005	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-16.14	.5
2	MP2A	Z	-27.956	.5
3	MP2A	Mx	.024	.5
4	MP2A	X	-16.14	4.5
5	MP2A	Z	-27.956	4.5
6	MP2A	Mx	.024	4.5
7	MP2B	X	-16.48	.5
8	MP2B	Z	-28.544	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP2B	Mx	-0.16	.5
10	MP2B	X	-16.48	4.5
11	MP2B	Z	-28.544	4.5
12	MP2B	Mx	-0.16	4.5
13	MP2C	X	-15.163	.5
14	MP2C	Z	-26.263	.5
15	MP2C	Mx	-0.008	.5
16	MP2C	X	-15.163	4.5
17	MP2C	Z	-26.263	4.5
18	MP2C	Mx	-0.008	4.5
19	MP2A	X	-16.14	.5
20	MP2A	Z	-27.956	.5
21	MP2A	Mx	-0.008	.5
22	MP2A	X	-16.14	4.5
23	MP2A	Z	-27.956	4.5
24	MP2A	Mx	-0.008	4.5
25	MP2B	X	-16.48	.5
26	MP2B	Z	-28.544	.5
27	MP2B	Mx	.022	.5
28	MP2B	X	-16.48	4.5
29	MP2B	Z	-28.544	4.5
30	MP2B	Mx	.022	4.5
31	MP2C	X	-15.163	.5
32	MP2C	Z	-26.263	.5
33	MP2C	Mx	-.02	.5
34	MP2C	X	-15.163	4.5
35	MP2C	Z	-26.263	4.5
36	MP2C	Mx	-.02	4.5
37	MP3A	X	-8.369	1.5
38	MP3A	Z	-14.495	1.5
39	MP3A	Mx	.004	1.5
40	MP3A	X	-8.369	3.5
41	MP3A	Z	-14.495	3.5
42	MP3A	Mx	.004	3.5
43	MP3B	X	-9.602	1.5
44	MP3B	Z	-16.631	1.5
45	MP3B	Mx	.002	1.5
46	MP3B	X	-9.602	3.5
47	MP3B	Z	-16.631	3.5
48	MP3B	Mx	.002	3.5
49	MP3C	X	-4.819	1.5
50	MP3C	Z	-8.347	1.5
51	MP3C	Mx	-.005	1.5
52	MP3C	X	-4.819	3.5
53	MP3C	Z	-8.347	3.5
54	MP3C	Mx	-.005	3.5
55	MP2A	X	-7.61	.5
56	MP2A	Z	-13.181	.5
57	MP2A	Mx	-.004	.5
58	MP2B	X	-7.61	.5
59	MP2B	Z	-13.181	.5
60	MP2B	Mx	-.004	.5
61	MP2C	X	-7.61	.5
62	MP2C	Z	-13.181	.5
63	MP2C	Mx	-.004	.5
64	MP1A	X	-7.372	.5
65	MP1A	Z	-12.768	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
66	MP1A	Mx	-0.004	.5
67	MP1B	X	-7.372	.5
68	MP1B	Z	-12.768	.5
69	MP1B	Mx	-0.004	.5
70	MP1C	X	-7.372	.5
71	MP1C	Z	-12.768	.5
72	MP1C	Mx	-0.004	.5
73	MP3A	X	-14.602	.5
74	MP3A	Z	-25.291	.5
75	MP3A	Mx	-0.007	.5
76	MP1A	X	-18.789	.5
77	MP1A	Z	-32.544	.5
78	MP1A	Mx	.009	.5
79	MP1A	X	-18.789	4.5
80	MP1A	Z	-32.544	4.5
81	MP1A	Mx	.009	4.5
82	MP4A	X	-18.789	.5
83	MP4A	Z	-32.544	.5
84	MP4A	Mx	.009	.5
85	MP4A	X	-18.789	4.5
86	MP4A	Z	-32.544	4.5
87	MP4A	Mx	.009	4.5
88	MP1B	X	-9.596	.5
89	MP1B	Z	-16.621	.5
90	MP1B	Mx	.002	.5
91	MP1B	X	-9.596	4.5
92	MP1B	Z	-16.621	4.5
93	MP1B	Mx	.002	4.5
94	MP4B	X	-9.596	.5
95	MP4B	Z	-16.621	.5
96	MP4B	Mx	.002	.5
97	MP4B	X	-9.596	4.5
98	MP4B	Z	-16.621	4.5
99	MP4B	Mx	.002	4.5
100	MP1C	X	-10.502	.5
101	MP1C	Z	-18.191	.5
102	MP1C	Mx	-.01	.5
103	MP1C	X	-10.502	4.5
104	MP1C	Z	-18.191	4.5
105	MP1C	Mx	-.01	4.5
106	MP4C	X	-10.502	.5
107	MP4C	Z	-18.191	.5
108	MP4C	Mx	-.01	.5
109	MP4C	X	-10.502	4.5
110	MP4C	Z	-18.191	4.5
111	MP4C	Mx	-.01	4.5

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	-10.794	.5
3	MP2A	Mx	.006	.5
4	MP2A	X	0	4.5
5	MP2A	Z	-10.794	4.5
6	MP2A	Mx	.006	4.5
7	MP2B	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP2B	Z	-10.35	.5
9	MP2B	Mx	-.001	.5
10	MP2B	X	0	4.5
11	MP2B	Z	-10.35	4.5
12	MP2B	Mx	-.001	4.5
13	MP2C	X	0	.5
14	MP2C	Z	-9.751	.5
15	MP2C	Mx	-.006	.5
16	MP2C	X	0	4.5
17	MP2C	Z	-9.751	4.5
18	MP2C	Mx	-.006	4.5
19	MP2A	X	0	.5
20	MP2A	Z	-10.794	.5
21	MP2A	Mx	-.006	.5
22	MP2A	X	0	4.5
23	MP2A	Z	-10.794	4.5
24	MP2A	Mx	-.006	4.5
25	MP2B	X	0	.5
26	MP2B	Z	-10.35	.5
27	MP2B	Mx	.008	.5
28	MP2B	X	0	4.5
29	MP2B	Z	-10.35	4.5
30	MP2B	Mx	.008	4.5
31	MP2C	X	0	.5
32	MP2C	Z	-9.751	.5
33	MP2C	Mx	-.004	.5
34	MP2C	X	0	4.5
35	MP2C	Z	-9.751	4.5
36	MP2C	Mx	-.004	4.5
37	MP3A	X	0	1.5
38	MP3A	Z	-6.225	1.5
39	MP3A	Mx	0	1.5
40	MP3A	X	0	3.5
41	MP3A	Z	-6.225	3.5
42	MP3A	Mx	0	3.5
43	MP3B	X	0	1.5
44	MP3B	Z	-4.66	1.5
45	MP3B	Mx	.001	1.5
46	MP3B	X	0	3.5
47	MP3B	Z	-4.66	3.5
48	MP3B	Mx	.001	3.5
49	MP3C	X	0	1.5
50	MP3C	Z	-2.551	1.5
51	MP3C	Mx	-.001	1.5
52	MP3C	X	0	3.5
53	MP3C	Z	-2.551	3.5
54	MP3C	Mx	-.001	3.5
55	MP2A	X	0	.5
56	MP2A	Z	-4.953	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5
59	MP2B	Z	-4.953	.5
60	MP2B	Mx	0	.5
61	MP2C	X	0	.5
62	MP2C	Z	-4.953	.5
63	MP2C	Mx	0	.5
64	MP1A	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
65	MP1A	Z	-4.953	.5
66	MP1A	Mx	0	.5
67	MP1B	X	0	.5
68	MP1B	Z	-4.953	.5
69	MP1B	Mx	0	.5
70	MP1C	X	0	.5
71	MP1C	Z	-4.953	.5
72	MP1C	Mx	0	.5
73	MP3A	X	0	.5
74	MP3A	Z	-10.039	.5
75	MP3A	Mx	0	.5
76	MP1A	X	0	.5
77	MP1A	Z	-12.714	.5
78	MP1A	Mx	0	.5
79	MP1A	X	0	4.5
80	MP1A	Z	-12.714	4.5
81	MP1A	Mx	0	4.5
82	MP4A	X	0	.5
83	MP4A	Z	-12.714	.5
84	MP4A	Mx	0	.5
85	MP4A	X	0	4.5
86	MP4A	Z	-12.714	4.5
87	MP4A	Mx	0	4.5
88	MP1B	X	0	.5
89	MP1B	Z	-8.087	.5
90	MP1B	Mx	.003	.5
91	MP1B	X	0	4.5
92	MP1B	Z	-8.087	4.5
93	MP1B	Mx	.003	4.5
94	MP4B	X	0	.5
95	MP4B	Z	-8.087	.5
96	MP4B	Mx	.003	.5
97	MP4B	X	0	4.5
98	MP4B	Z	-8.087	4.5
99	MP4B	Mx	.003	4.5
100	MP1C	X	0	.5
101	MP1C	Z	-7.039	.5
102	MP1C	Mx	-.003	.5
103	MP1C	X	0	4.5
104	MP1C	Z	-7.039	4.5
105	MP1C	Mx	-.003	4.5
106	MP4C	X	0	.5
107	MP4C	Z	-7.039	.5
108	MP4C	Mx	-.003	.5
109	MP4C	X	0	4.5
110	MP4C	Z	-7.039	4.5
111	MP4C	Mx	-.003	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	5.263	.5
2	MP2A	Z	-9.115	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	5.263	4.5
5	MP2A	Z	-9.115	4.5
6	MP2A	Mx	.003	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
7	MP2B	X	4.922	.5
8	MP2B	Z	-8.525	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	4.922	4.5
11	MP2B	Z	-8.525	4.5
12	MP2B	Mx	.003	4.5
13	MP2C	X	5.081	.5
14	MP2C	Z	-8.801	.5
15	MP2C	Mx	-.008	.5
16	MP2C	X	5.081	4.5
17	MP2C	Z	-8.801	4.5
18	MP2C	Mx	-.008	4.5
19	MP2A	X	5.263	.5
20	MP2A	Z	-9.115	.5
21	MP2A	Mx	-.008	.5
22	MP2A	X	5.263	4.5
23	MP2A	Z	-9.115	4.5
24	MP2A	Mx	-.008	4.5
25	MP2B	X	4.922	.5
26	MP2B	Z	-8.525	.5
27	MP2B	Mx	.007	.5
28	MP2B	X	4.922	4.5
29	MP2B	Z	-8.525	4.5
30	MP2B	Mx	.007	4.5
31	MP2C	X	5.081	.5
32	MP2C	Z	-8.801	.5
33	MP2C	Mx	-8.2e-5	.5
34	MP2C	X	5.081	4.5
35	MP2C	Z	-8.801	4.5
36	MP2C	Mx	-8.2e-5	4.5
37	MP3A	X	2.639	1.5
38	MP3A	Z	-4.571	1.5
39	MP3A	Mx	-.001	1.5
40	MP3A	X	2.639	3.5
41	MP3A	Z	-4.571	3.5
42	MP3A	Mx	-.001	3.5
43	MP3B	X	1.44	1.5
44	MP3B	Z	-2.494	1.5
45	MP3B	Mx	.001	1.5
46	MP3B	X	1.44	3.5
47	MP3B	Z	-2.494	3.5
48	MP3B	Mx	.001	3.5
49	MP3C	X	2.001	1.5
50	MP3C	Z	-3.466	1.5
51	MP3C	Mx	-.002	1.5
52	MP3C	X	2.001	3.5
53	MP3C	Z	-3.466	3.5
54	MP3C	Mx	-.002	3.5
55	MP2A	X	2.271	.5
56	MP2A	Z	-3.934	.5
57	MP2A	Mx	.001	.5
58	MP2B	X	2.271	.5
59	MP2B	Z	-3.934	.5
60	MP2B	Mx	.001	.5
61	MP2C	X	2.271	.5
62	MP2C	Z	-3.934	.5
63	MP2C	Mx	.001	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
64	MP1A	X	2.193	.5
65	MP1A	Z	-3.798	.5
66	MP1A	Mx	.001	.5
67	MP1B	X	2.193	.5
68	MP1B	Z	-3.798	.5
69	MP1B	Mx	.001	.5
70	MP1C	X	2.193	.5
71	MP1C	Z	-3.798	.5
72	MP1C	Mx	.001	.5
73	MP3A	X	4.595	.5
74	MP3A	Z	-7.959	.5
75	MP3A	Mx	.002	.5
76	MP1A	X	6.187	.5
77	MP1A	Z	-10.717	.5
78	MP1A	Mx	-.003	.5
79	MP1A	X	6.187	4.5
80	MP1A	Z	-10.717	4.5
81	MP1A	Mx	-.003	4.5
82	MP4A	X	6.187	.5
83	MP4A	Z	-10.717	.5
84	MP4A	Mx	-.003	.5
85	MP4A	X	6.187	4.5
86	MP4A	Z	-10.717	4.5
87	MP4A	Mx	-.003	4.5
88	MP1B	X	5.381	.5
89	MP1B	Z	-9.32	.5
90	MP1B	Mx	.005	.5
91	MP1B	X	5.381	4.5
92	MP1B	Z	-9.32	4.5
93	MP1B	Mx	.005	4.5
94	MP4B	X	5.381	.5
95	MP4B	Z	-9.32	.5
96	MP4B	Mx	.005	.5
97	MP4B	X	5.381	4.5
98	MP4B	Z	-9.32	4.5
99	MP4B	Mx	.005	4.5
100	MP1C	X	2.812	.5
101	MP1C	Z	-4.871	.5
102	MP1C	Mx	-.002	.5
103	MP1C	X	2.812	4.5
104	MP1C	Z	-4.871	4.5
105	MP1C	Mx	-.002	4.5
106	MP4C	X	2.812	.5
107	MP4C	Z	-4.871	.5
108	MP4C	Mx	-.002	.5
109	MP4C	X	2.812	4.5
110	MP4C	Z	-4.871	4.5
111	MP4C	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	8.649	.5
2	MP2A	Z	-4.994	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	8.649	4.5
5	MP2A	Z	-4.994	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP2A	Mx	-.001	4.5
7	MP2B	X	8.445	.5
8	MP2B	Z	-4.875	.5
9	MP2B	Mx	.006	.5
10	MP2B	X	8.445	4.5
11	MP2B	Z	-4.875	4.5
12	MP2B	Mx	.006	4.5
13	MP2C	X	9.239	.5
14	MP2C	Z	-5.334	.5
15	MP2C	Mx	-.008	.5
16	MP2C	X	9.239	4.5
17	MP2C	Z	-5.334	4.5
18	MP2C	Mx	-.008	4.5
19	MP2A	X	8.649	.5
20	MP2A	Z	-4.994	.5
21	MP2A	Mx	-.007	.5
22	MP2A	X	8.649	4.5
23	MP2A	Z	-4.994	4.5
24	MP2A	Mx	-.007	4.5
25	MP2B	X	8.445	.5
26	MP2B	Z	-4.875	.5
27	MP2B	Mx	.004	.5
28	MP2B	X	8.445	4.5
29	MP2B	Z	-4.875	4.5
30	MP2B	Mx	.004	4.5
31	MP2C	X	9.239	.5
32	MP2C	Z	-5.334	.5
33	MP2C	Mx	.004	.5
34	MP2C	X	9.239	4.5
35	MP2C	Z	-5.334	4.5
36	MP2C	Mx	.004	4.5
37	MP3A	X	2.931	1.5
38	MP3A	Z	-1.692	1.5
39	MP3A	Mx	-.001	1.5
40	MP3A	X	2.931	3.5
41	MP3A	Z	-1.692	3.5
42	MP3A	Mx	-.001	3.5
43	MP3B	X	2.209	1.5
44	MP3B	Z	-1.276	1.5
45	MP3B	Mx	.001	1.5
46	MP3B	X	2.209	3.5
47	MP3B	Z	-1.276	3.5
48	MP3B	Mx	.001	3.5
49	MP3C	X	5.007	1.5
50	MP3C	Z	-2.891	1.5
51	MP3C	Mx	-.000989	1.5
52	MP3C	X	5.007	3.5
53	MP3C	Z	-2.891	3.5
54	MP3C	Mx	-.000989	3.5
55	MP2A	X	3.223	.5
56	MP2A	Z	-1.861	.5
57	MP2A	Mx	.002	.5
58	MP2B	X	3.223	.5
59	MP2B	Z	-1.861	.5
60	MP2B	Mx	.002	.5
61	MP2C	X	3.223	.5
62	MP2C	Z	-1.861	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP2C	Mx	.002	.5
64	MP1A	X	2.814	.5
65	MP1A	Z	-1.625	.5
66	MP1A	Mx	.001	.5
67	MP1B	X	2.814	.5
68	MP1B	Z	-1.625	.5
69	MP1B	Mx	.001	.5
70	MP1C	X	2.814	.5
71	MP1C	Z	-1.625	.5
72	MP1C	Mx	.001	.5
73	MP3A	X	6.49	.5
74	MP3A	Z	-3.747	.5
75	MP3A	Mx	.003	.5
76	MP1A	X	10.129	.5
77	MP1A	Z	-5.848	.5
78	MP1A	Mx	-.005	.5
79	MP1A	X	10.129	4.5
80	MP1A	Z	-5.848	4.5
81	MP1A	Mx	-.005	4.5
82	MP4A	X	10.129	.5
83	MP4A	Z	-5.848	.5
84	MP4A	Mx	-.005	.5
85	MP4A	X	10.129	4.5
86	MP4A	Z	-5.848	4.5
87	MP4A	Mx	-.005	4.5
88	MP1B	X	9.748	.5
89	MP1B	Z	-5.628	.5
90	MP1B	Mx	.006	.5
91	MP1B	X	9.748	4.5
92	MP1B	Z	-5.628	4.5
93	MP1B	Mx	.006	4.5
94	MP4B	X	9.748	.5
95	MP4B	Z	-5.628	.5
96	MP4B	Mx	.006	.5
97	MP4B	X	9.748	4.5
98	MP4B	Z	-5.628	4.5
99	MP4B	Mx	.006	4.5
100	MP1C	X	3.368	.5
101	MP1C	Z	-1.944	.5
102	MP1C	Mx	-.000665	.5
103	MP1C	X	3.368	4.5
104	MP1C	Z	-1.944	4.5
105	MP1C	Mx	-.000665	4.5
106	MP4C	X	3.368	.5
107	MP4C	Z	-1.944	.5
108	MP4C	Mx	-.000665	.5
109	MP4C	X	3.368	4.5
110	MP4C	Z	-1.944	4.5
111	MP4C	Mx	-.000665	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	9.719	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.005	.5
4	MP2A	X	9.719	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP2A	Z	0	4.5
6	MP2A	Mx	-0.005	4.5
7	MP2B	X	10.163	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.008	.5
10	MP2B	X	10.163	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	.008	4.5
13	MP2C	X	10.762	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-0.005	.5
16	MP2C	X	10.762	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	-0.005	4.5
19	MP2A	X	9.719	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-0.005	.5
22	MP2A	X	9.719	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	-0.005	4.5
25	MP2B	X	10.163	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	8.2e-5	.5
28	MP2B	X	10.163	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	8.2e-5	4.5
31	MP2C	X	10.762	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.007	.5
34	MP2C	X	10.762	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	.007	4.5
37	MP3A	X	2.437	1.5
38	MP3A	Z	0	1.5
39	MP3A	Mx	-0.001	1.5
40	MP3A	X	2.437	3.5
41	MP3A	Z	0	3.5
42	MP3A	Mx	-0.001	3.5
43	MP3B	X	4.002	1.5
44	MP3B	Z	0	1.5
45	MP3B	Mx	.002	1.5
46	MP3B	X	4.002	3.5
47	MP3B	Z	0	3.5
48	MP3B	Mx	.002	3.5
49	MP3C	X	6.111	1.5
50	MP3C	Z	0	1.5
51	MP3C	Mx	.000531	1.5
52	MP3C	X	6.111	3.5
53	MP3C	Z	0	3.5
54	MP3C	Mx	.000531	3.5
55	MP2A	X	3.311	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.002	.5
58	MP2B	X	3.311	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	.002	.5
61	MP2C	X	3.311	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
62	MP2C	Z	0	.5
63	MP2C	Mx	.002	.5
64	MP1A	X	2.682	.5
65	MP1A	Z	0	.5
66	MP1A	Mx	.001	.5
67	MP1B	X	2.682	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	.001	.5
70	MP1C	X	2.682	.5
71	MP1C	Z	0	.5
72	MP1C	Mx	.001	.5
73	MP3A	X	6.645	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	.003	.5
76	MP1A	X	11.357	.5
77	MP1A	Z	0	.5
78	MP1A	Mx	-.006	.5
79	MP1A	X	11.357	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	-.006	4.5
82	MP4A	X	11.357	.5
83	MP4A	Z	0	.5
84	MP4A	Mx	-.006	.5
85	MP4A	X	11.357	4.5
86	MP4A	Z	0	4.5
87	MP4A	Mx	-.006	4.5
88	MP1B	X	9.075	.5
89	MP1B	Z	0	.5
90	MP1B	Mx	.003	.5
91	MP1B	X	9.075	4.5
92	MP1B	Z	0	4.5
93	MP1B	Mx	.003	4.5
94	MP4B	X	9.075	.5
95	MP4B	Z	0	.5
96	MP4B	Mx	.003	.5
97	MP4B	X	9.075	4.5
98	MP4B	Z	0	4.5
99	MP4B	Mx	.003	4.5
100	MP1C	X	3.568	.5
101	MP1C	Z	0	.5
102	MP1C	Mx	.00031	.5
103	MP1C	X	3.568	4.5
104	MP1C	Z	0	4.5
105	MP1C	Mx	.00031	4.5
106	MP4C	X	3.568	.5
107	MP4C	Z	0	.5
108	MP4C	Mx	.00031	.5
109	MP4C	X	3.568	4.5
110	MP4C	Z	0	4.5
111	MP4C	Mx	.00031	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	8.649	.5
2	MP2A	Z	4.994	.5
3	MP2A	Mx	-.007	.5



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
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Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP2A	X	8.649	4.5
5	MP2A	Z	4.994	4.5
6	MP2A	Mx	-.007	4.5
7	MP2B	X	9.239	.5
8	MP2B	Z	5.334	.5
9	MP2B	Mx	.008	.5
10	MP2B	X	9.239	4.5
11	MP2B	Z	5.334	4.5
12	MP2B	Mx	.008	4.5
13	MP2C	X	8.963	.5
14	MP2C	Z	5.175	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	8.963	4.5
17	MP2C	Z	5.175	4.5
18	MP2C	Mx	-.001	4.5
19	MP2A	X	8.649	.5
20	MP2A	Z	4.994	.5
21	MP2A	Mx	-.001	.5
22	MP2A	X	8.649	4.5
23	MP2A	Z	4.994	4.5
24	MP2A	Mx	-.001	4.5
25	MP2B	X	9.239	.5
26	MP2B	Z	5.334	.5
27	MP2B	Mx	-.004	.5
28	MP2B	X	9.239	4.5
29	MP2B	Z	5.334	4.5
30	MP2B	Mx	-.004	4.5
31	MP2C	X	8.963	.5
32	MP2C	Z	5.175	.5
33	MP2C	Mx	.008	.5
34	MP2C	X	8.963	4.5
35	MP2C	Z	5.175	4.5
36	MP2C	Mx	.008	4.5
37	MP3A	X	2.931	1.5
38	MP3A	Z	1.692	1.5
39	MP3A	Mx	-.001	1.5
40	MP3A	X	2.931	3.5
41	MP3A	Z	1.692	3.5
42	MP3A	Mx	-.001	3.5
43	MP3B	X	5.007	1.5
44	MP3B	Z	2.891	1.5
45	MP3B	Mx	.000989	1.5
46	MP3B	X	5.007	3.5
47	MP3B	Z	2.891	3.5
48	MP3B	Mx	.000989	3.5
49	MP3C	X	4.035	1.5
50	MP3C	Z	2.33	1.5
51	MP3C	Mx	.001	1.5
52	MP3C	X	4.035	3.5
53	MP3C	Z	2.33	3.5
54	MP3C	Mx	.001	3.5
55	MP2A	X	3.223	.5
56	MP2A	Z	1.861	.5
57	MP2A	Mx	.002	.5
58	MP2B	X	3.223	.5
59	MP2B	Z	1.861	.5
60	MP2B	Mx	.002	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
61	MP2C	X	3.223	.5
62	MP2C	Z	1.861	.5
63	MP2C	Mx	.002	.5
64	MP1A	X	2.814	.5
65	MP1A	Z	1.625	.5
66	MP1A	Mx	.001	.5
67	MP1B	X	2.814	.5
68	MP1B	Z	1.625	.5
69	MP1B	Mx	.001	.5
70	MP1C	X	2.814	.5
71	MP1C	Z	1.625	.5
72	MP1C	Mx	.001	.5
73	MP3A	X	6.49	.5
74	MP3A	Z	3.747	.5
75	MP3A	Mx	.003	.5
76	MP1A	X	10.129	.5
77	MP1A	Z	5.848	.5
78	MP1A	Mx	-.005	.5
79	MP1A	X	10.129	4.5
80	MP1A	Z	5.848	4.5
81	MP1A	Mx	-.005	4.5
82	MP4A	X	10.129	.5
83	MP4A	Z	5.848	.5
84	MP4A	Mx	-.005	.5
85	MP4A	X	10.129	4.5
86	MP4A	Z	5.848	4.5
87	MP4A	Mx	-.005	4.5
88	MP1B	X	5.543	.5
89	MP1B	Z	3.2	.5
90	MP1B	Mx	.001	.5
91	MP1B	X	5.543	4.5
92	MP1B	Z	3.2	4.5
93	MP1B	Mx	.001	4.5
94	MP4B	X	5.543	.5
95	MP4B	Z	3.2	.5
96	MP4B	Mx	.001	.5
97	MP4B	X	5.543	4.5
98	MP4B	Z	3.2	4.5
99	MP4B	Mx	.001	4.5
100	MP1C	X	4.315	.5
101	MP1C	Z	2.491	.5
102	MP1C	Mx	.002	.5
103	MP1C	X	4.315	4.5
104	MP1C	Z	2.491	4.5
105	MP1C	Mx	.002	4.5
106	MP4C	X	4.315	.5
107	MP4C	Z	2.491	.5
108	MP4C	Mx	.002	.5
109	MP4C	X	4.315	4.5
110	MP4C	Z	2.491	4.5
111	MP4C	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	5.263	.5
2	MP2A	Z	9.115	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP2A	Mx	-.008	.5
4	MP2A	X	5.263	4.5
5	MP2A	Z	9.115	4.5
6	MP2A	Mx	-.008	4.5
7	MP2B	X	5.381	.5
8	MP2B	Z	9.32	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	5.381	4.5
11	MP2B	Z	9.32	4.5
12	MP2B	Mx	.005	4.5
13	MP2C	X	4.922	.5
14	MP2C	Z	8.525	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	4.922	4.5
17	MP2C	Z	8.525	4.5
18	MP2C	Mx	.003	4.5
19	MP2A	X	5.263	.5
20	MP2A	Z	9.115	.5
21	MP2A	Mx	.003	.5
22	MP2A	X	5.263	4.5
23	MP2A	Z	9.115	4.5
24	MP2A	Mx	.003	4.5
25	MP2B	X	5.381	.5
26	MP2B	Z	9.32	.5
27	MP2B	Mx	-.007	.5
28	MP2B	X	5.381	4.5
29	MP2B	Z	9.32	4.5
30	MP2B	Mx	-.007	4.5
31	MP2C	X	4.922	.5
32	MP2C	Z	8.525	.5
33	MP2C	Mx	.007	.5
34	MP2C	X	4.922	4.5
35	MP2C	Z	8.525	4.5
36	MP2C	Mx	.007	4.5
37	MP3A	X	2.639	1.5
38	MP3A	Z	4.571	1.5
39	MP3A	Mx	-.001	1.5
40	MP3A	X	2.639	3.5
41	MP3A	Z	4.571	3.5
42	MP3A	Mx	-.001	3.5
43	MP3B	X	3.055	1.5
44	MP3B	Z	5.292	1.5
45	MP3B	Mx	-.000531	1.5
46	MP3B	X	3.055	3.5
47	MP3B	Z	5.292	3.5
48	MP3B	Mx	-.000531	3.5
49	MP3C	X	1.44	1.5
50	MP3C	Z	2.494	1.5
51	MP3C	Mx	.001	1.5
52	MP3C	X	1.44	3.5
53	MP3C	Z	2.494	3.5
54	MP3C	Mx	.001	3.5
55	MP2A	X	2.271	.5
56	MP2A	Z	3.934	.5
57	MP2A	Mx	.001	.5
58	MP2B	X	2.271	.5
59	MP2B	Z	3.934	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP2B	Mx	.001	.5
61	MP2C	X	2.271	.5
62	MP2C	Z	3.934	.5
63	MP2C	Mx	.001	.5
64	MP1A	X	2.193	.5
65	MP1A	Z	3.798	.5
66	MP1A	Mx	.001	.5
67	MP1B	X	2.193	.5
68	MP1B	Z	3.798	.5
69	MP1B	Mx	.001	.5
70	MP1C	X	2.193	.5
71	MP1C	Z	3.798	.5
72	MP1C	Mx	.001	.5
73	MP3A	X	4.595	.5
74	MP3A	Z	7.959	.5
75	MP3A	Mx	.002	.5
76	MP1A	X	6.187	.5
77	MP1A	Z	10.717	.5
78	MP1A	Mx	-.003	.5
79	MP1A	X	6.187	4.5
80	MP1A	Z	10.717	4.5
81	MP1A	Mx	-.003	4.5
82	MP4A	X	6.187	.5
83	MP4A	Z	10.717	.5
84	MP4A	Mx	-.003	.5
85	MP4A	X	6.187	4.5
86	MP4A	Z	10.717	4.5
87	MP4A	Mx	-.003	4.5
88	MP1B	X	2.953	.5
89	MP1B	Z	5.115	.5
90	MP1B	Mx	-.000513	.5
91	MP1B	X	2.953	4.5
92	MP1B	Z	5.115	4.5
93	MP1B	Mx	-.000513	4.5
94	MP4B	X	2.953	.5
95	MP4B	Z	5.115	.5
96	MP4B	Mx	-.000513	.5
97	MP4B	X	2.953	4.5
98	MP4B	Z	5.115	4.5
99	MP4B	Mx	-.000513	4.5
100	MP1C	X	3.359	.5
101	MP1C	Z	5.818	.5
102	MP1C	Mx	.003	.5
103	MP1C	X	3.359	4.5
104	MP1C	Z	5.818	4.5
105	MP1C	Mx	.003	4.5
106	MP4C	X	3.359	.5
107	MP4C	Z	5.818	.5
108	MP4C	Mx	.003	.5
109	MP4C	X	3.359	4.5
110	MP4C	Z	5.818	4.5
111	MP4C	Mx	.003	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
2	MP2A	Z	10.794	.5
3	MP2A	Mx	-.006	.5
4	MP2A	X	0	4.5
5	MP2A	Z	10.794	4.5
6	MP2A	Mx	-.006	4.5
7	MP2B	X	0	.5
8	MP2B	Z	10.35	.5
9	MP2B	Mx	.001	.5
10	MP2B	X	0	4.5
11	MP2B	Z	10.35	4.5
12	MP2B	Mx	.001	4.5
13	MP2C	X	0	.5
14	MP2C	Z	9.751	.5
15	MP2C	Mx	.006	.5
16	MP2C	X	0	4.5
17	MP2C	Z	9.751	4.5
18	MP2C	Mx	.006	4.5
19	MP2A	X	0	.5
20	MP2A	Z	10.794	.5
21	MP2A	Mx	.006	.5
22	MP2A	X	0	4.5
23	MP2A	Z	10.794	4.5
24	MP2A	Mx	.006	4.5
25	MP2B	X	0	.5
26	MP2B	Z	10.35	.5
27	MP2B	Mx	-.008	.5
28	MP2B	X	0	4.5
29	MP2B	Z	10.35	4.5
30	MP2B	Mx	-.008	4.5
31	MP2C	X	0	.5
32	MP2C	Z	9.751	.5
33	MP2C	Mx	.004	.5
34	MP2C	X	0	4.5
35	MP2C	Z	9.751	4.5
36	MP2C	Mx	.004	4.5
37	MP3A	X	0	1.5
38	MP3A	Z	6.225	1.5
39	MP3A	Mx	0	1.5
40	MP3A	X	0	3.5
41	MP3A	Z	6.225	3.5
42	MP3A	Mx	0	3.5
43	MP3B	X	0	1.5
44	MP3B	Z	4.66	1.5
45	MP3B	Mx	-.001	1.5
46	MP3B	X	0	3.5
47	MP3B	Z	4.66	3.5
48	MP3B	Mx	-.001	3.5
49	MP3C	X	0	1.5
50	MP3C	Z	2.551	1.5
51	MP3C	Mx	.001	1.5
52	MP3C	X	0	3.5
53	MP3C	Z	2.551	3.5
54	MP3C	Mx	.001	3.5
55	MP2A	X	0	.5
56	MP2A	Z	4.953	.5
57	MP2A	Mx	0	.5
58	MP2B	X	0	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP2B	Z	4.953	.5
60	MP2B	Mx	0	.5
61	MP2C	X	0	.5
62	MP2C	Z	4.953	.5
63	MP2C	Mx	0	.5
64	MP1A	X	0	.5
65	MP1A	Z	4.953	.5
66	MP1A	Mx	0	.5
67	MP1B	X	0	.5
68	MP1B	Z	4.953	.5
69	MP1B	Mx	0	.5
70	MP1C	X	0	.5
71	MP1C	Z	4.953	.5
72	MP1C	Mx	0	.5
73	MP3A	X	0	.5
74	MP3A	Z	10.039	.5
75	MP3A	Mx	0	.5
76	MP1A	X	0	.5
77	MP1A	Z	12.714	.5
78	MP1A	Mx	0	.5
79	MP1A	X	0	4.5
80	MP1A	Z	12.714	4.5
81	MP1A	Mx	0	4.5
82	MP4A	X	0	.5
83	MP4A	Z	12.714	.5
84	MP4A	Mx	0	.5
85	MP4A	X	0	4.5
86	MP4A	Z	12.714	4.5
87	MP4A	Mx	0	4.5
88	MP1B	X	0	.5
89	MP1B	Z	8.087	.5
90	MP1B	Mx	-.003	.5
91	MP1B	X	0	4.5
92	MP1B	Z	8.087	4.5
93	MP1B	Mx	-.003	4.5
94	MP4B	X	0	.5
95	MP4B	Z	8.087	.5
96	MP4B	Mx	-.003	.5
97	MP4B	X	0	4.5
98	MP4B	Z	8.087	4.5
99	MP4B	Mx	-.003	4.5
100	MP1C	X	0	.5
101	MP1C	Z	7.039	.5
102	MP1C	Mx	.003	.5
103	MP1C	X	0	4.5
104	MP1C	Z	7.039	4.5
105	MP1C	Mx	.003	4.5
106	MP4C	X	0	.5
107	MP4C	Z	7.039	.5
108	MP4C	Mx	.003	.5
109	MP4C	X	0	4.5
110	MP4C	Z	7.039	4.5
111	MP4C	Mx	.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-5.263	.5
2	MP2A	Z	9.115	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	-5.263	4.5
5	MP2A	Z	9.115	4.5
6	MP2A	Mx	-.003	4.5
7	MP2B	X	-4.922	.5
8	MP2B	Z	8.525	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	-4.922	4.5
11	MP2B	Z	8.525	4.5
12	MP2B	Mx	-.003	4.5
13	MP2C	X	-5.081	.5
14	MP2C	Z	8.801	.5
15	MP2C	Mx	.008	.5
16	MP2C	X	-5.081	4.5
17	MP2C	Z	8.801	4.5
18	MP2C	Mx	.008	4.5
19	MP2A	X	-5.263	.5
20	MP2A	Z	9.115	.5
21	MP2A	Mx	.008	.5
22	MP2A	X	-5.263	4.5
23	MP2A	Z	9.115	4.5
24	MP2A	Mx	.008	4.5
25	MP2B	X	-4.922	.5
26	MP2B	Z	8.525	.5
27	MP2B	Mx	-.007	.5
28	MP2B	X	-4.922	4.5
29	MP2B	Z	8.525	4.5
30	MP2B	Mx	-.007	4.5
31	MP2C	X	-5.081	.5
32	MP2C	Z	8.801	.5
33	MP2C	Mx	8.2e-5	.5
34	MP2C	X	-5.081	4.5
35	MP2C	Z	8.801	4.5
36	MP2C	Mx	8.2e-5	4.5
37	MP3A	X	-2.639	1.5
38	MP3A	Z	4.571	1.5
39	MP3A	Mx	.001	1.5
40	MP3A	X	-2.639	3.5
41	MP3A	Z	4.571	3.5
42	MP3A	Mx	.001	3.5
43	MP3B	X	-1.44	1.5
44	MP3B	Z	2.494	1.5
45	MP3B	Mx	-.001	1.5
46	MP3B	X	-1.44	3.5
47	MP3B	Z	2.494	3.5
48	MP3B	Mx	-.001	3.5
49	MP3C	X	-2.001	1.5
50	MP3C	Z	3.466	1.5
51	MP3C	Mx	.002	1.5
52	MP3C	X	-2.001	3.5
53	MP3C	Z	3.466	3.5
54	MP3C	Mx	.002	3.5
55	MP2A	X	-2.271	.5
56	MP2A	Z	3.934	.5
57	MP2A	Mx	-.001	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP2B	X	-2.271	.5
59	MP2B	Z	3.934	.5
60	MP2B	Mx	-.001	.5
61	MP2C	X	-2.271	.5
62	MP2C	Z	3.934	.5
63	MP2C	Mx	-.001	.5
64	MP1A	X	-2.193	.5
65	MP1A	Z	3.798	.5
66	MP1A	Mx	-.001	.5
67	MP1B	X	-2.193	.5
68	MP1B	Z	3.798	.5
69	MP1B	Mx	-.001	.5
70	MP1C	X	-2.193	.5
71	MP1C	Z	3.798	.5
72	MP1C	Mx	-.001	.5
73	MP3A	X	-4.595	.5
74	MP3A	Z	7.959	.5
75	MP3A	Mx	-.002	.5
76	MP1A	X	-6.187	.5
77	MP1A	Z	10.717	.5
78	MP1A	Mx	.003	.5
79	MP1A	X	-6.187	4.5
80	MP1A	Z	10.717	4.5
81	MP1A	Mx	.003	4.5
82	MP4A	X	-6.187	.5
83	MP4A	Z	10.717	.5
84	MP4A	Mx	.003	.5
85	MP4A	X	-6.187	4.5
86	MP4A	Z	10.717	4.5
87	MP4A	Mx	.003	4.5
88	MP1B	X	-5.381	.5
89	MP1B	Z	9.32	.5
90	MP1B	Mx	-.005	.5
91	MP1B	X	-5.381	4.5
92	MP1B	Z	9.32	4.5
93	MP1B	Mx	-.005	4.5
94	MP4B	X	-5.381	.5
95	MP4B	Z	9.32	.5
96	MP4B	Mx	-.005	.5
97	MP4B	X	-5.381	4.5
98	MP4B	Z	9.32	4.5
99	MP4B	Mx	-.005	4.5
100	MP1C	X	-2.812	.5
101	MP1C	Z	4.871	.5
102	MP1C	Mx	.002	.5
103	MP1C	X	-2.812	4.5
104	MP1C	Z	4.871	4.5
105	MP1C	Mx	.002	4.5
106	MP4C	X	-2.812	.5
107	MP4C	Z	4.871	.5
108	MP4C	Mx	.002	.5
109	MP4C	X	-2.812	4.5
110	MP4C	Z	4.871	4.5
111	MP4C	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-8.649	.5
2	MP2A	Z	4.994	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	-8.649	4.5
5	MP2A	Z	4.994	4.5
6	MP2A	Mx	.001	4.5
7	MP2B	X	-8.445	.5
8	MP2B	Z	4.875	.5
9	MP2B	Mx	-.006	.5
10	MP2B	X	-8.445	4.5
11	MP2B	Z	4.875	4.5
12	MP2B	Mx	-.006	4.5
13	MP2C	X	-9.239	.5
14	MP2C	Z	5.334	.5
15	MP2C	Mx	.008	.5
16	MP2C	X	-9.239	4.5
17	MP2C	Z	5.334	4.5
18	MP2C	Mx	.008	4.5
19	MP2A	X	-8.649	.5
20	MP2A	Z	4.994	.5
21	MP2A	Mx	.007	.5
22	MP2A	X	-8.649	4.5
23	MP2A	Z	4.994	4.5
24	MP2A	Mx	.007	4.5
25	MP2B	X	-8.445	.5
26	MP2B	Z	4.875	.5
27	MP2B	Mx	-.004	.5
28	MP2B	X	-8.445	4.5
29	MP2B	Z	4.875	4.5
30	MP2B	Mx	-.004	4.5
31	MP2C	X	-9.239	.5
32	MP2C	Z	5.334	.5
33	MP2C	Mx	-.004	.5
34	MP2C	X	-9.239	4.5
35	MP2C	Z	5.334	4.5
36	MP2C	Mx	-.004	4.5
37	MP3A	X	-2.931	1.5
38	MP3A	Z	1.692	1.5
39	MP3A	Mx	.001	1.5
40	MP3A	X	-2.931	3.5
41	MP3A	Z	1.692	3.5
42	MP3A	Mx	.001	3.5
43	MP3B	X	-2.209	1.5
44	MP3B	Z	1.276	1.5
45	MP3B	Mx	-.001	1.5
46	MP3B	X	-2.209	3.5
47	MP3B	Z	1.276	3.5
48	MP3B	Mx	-.001	3.5
49	MP3C	X	-5.007	1.5
50	MP3C	Z	2.891	1.5
51	MP3C	Mx	.000989	1.5
52	MP3C	X	-5.007	3.5
53	MP3C	Z	2.891	3.5
54	MP3C	Mx	.000989	3.5
55	MP2A	X	-3.223	.5
56	MP2A	Z	1.861	.5
57	MP2A	Mx	-.002	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP2B	X	-3.223	.5
59	MP2B	Z	1.861	.5
60	MP2B	Mx	-.002	.5
61	MP2C	X	-3.223	.5
62	MP2C	Z	1.861	.5
63	MP2C	Mx	-.002	.5
64	MP1A	X	-2.814	.5
65	MP1A	Z	1.625	.5
66	MP1A	Mx	-.001	.5
67	MP1B	X	-2.814	.5
68	MP1B	Z	1.625	.5
69	MP1B	Mx	-.001	.5
70	MP1C	X	-2.814	.5
71	MP1C	Z	1.625	.5
72	MP1C	Mx	-.001	.5
73	MP3A	X	-6.49	.5
74	MP3A	Z	3.747	.5
75	MP3A	Mx	-.003	.5
76	MP1A	X	-10.129	.5
77	MP1A	Z	5.848	.5
78	MP1A	Mx	.005	.5
79	MP1A	X	-10.129	4.5
80	MP1A	Z	5.848	4.5
81	MP1A	Mx	.005	4.5
82	MP4A	X	-10.129	.5
83	MP4A	Z	5.848	.5
84	MP4A	Mx	.005	.5
85	MP4A	X	-10.129	4.5
86	MP4A	Z	5.848	4.5
87	MP4A	Mx	.005	4.5
88	MP1B	X	-9.748	.5
89	MP1B	Z	5.628	.5
90	MP1B	Mx	-.006	.5
91	MP1B	X	-9.748	4.5
92	MP1B	Z	5.628	4.5
93	MP1B	Mx	-.006	4.5
94	MP4B	X	-9.748	.5
95	MP4B	Z	5.628	.5
96	MP4B	Mx	-.006	.5
97	MP4B	X	-9.748	4.5
98	MP4B	Z	5.628	4.5
99	MP4B	Mx	-.006	4.5
100	MP1C	X	-3.368	.5
101	MP1C	Z	1.944	.5
102	MP1C	Mx	.000665	.5
103	MP1C	X	-3.368	4.5
104	MP1C	Z	1.944	4.5
105	MP1C	Mx	.000665	4.5
106	MP4C	X	-3.368	.5
107	MP4C	Z	1.944	.5
108	MP4C	Mx	.000665	.5
109	MP4C	X	-3.368	4.5
110	MP4C	Z	1.944	4.5
111	MP4C	Mx	.000665	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
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Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-9.719	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.005	.5
4	MP2A	X	-9.719	4.5
5	MP2A	Z	0	4.5
6	MP2A	Mx	.005	4.5
7	MP2B	X	-10.163	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.008	.5
10	MP2B	X	-10.163	4.5
11	MP2B	Z	0	4.5
12	MP2B	Mx	-.008	4.5
13	MP2C	X	-10.762	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	-10.762	4.5
17	MP2C	Z	0	4.5
18	MP2C	Mx	.005	4.5
19	MP2A	X	-9.719	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.005	.5
22	MP2A	X	-9.719	4.5
23	MP2A	Z	0	4.5
24	MP2A	Mx	.005	4.5
25	MP2B	X	-10.163	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-8.2e-5	.5
28	MP2B	X	-10.163	4.5
29	MP2B	Z	0	4.5
30	MP2B	Mx	-8.2e-5	4.5
31	MP2C	X	-10.762	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.007	.5
34	MP2C	X	-10.762	4.5
35	MP2C	Z	0	4.5
36	MP2C	Mx	-.007	4.5
37	MP3A	X	-2.437	1.5
38	MP3A	Z	0	1.5
39	MP3A	Mx	.001	1.5
40	MP3A	X	-2.437	3.5
41	MP3A	Z	0	3.5
42	MP3A	Mx	.001	3.5
43	MP3B	X	-4.002	1.5
44	MP3B	Z	0	1.5
45	MP3B	Mx	-.002	1.5
46	MP3B	X	-4.002	3.5
47	MP3B	Z	0	3.5
48	MP3B	Mx	-.002	3.5
49	MP3C	X	-6.111	1.5
50	MP3C	Z	0	1.5
51	MP3C	Mx	-.000531	1.5
52	MP3C	X	-6.111	3.5
53	MP3C	Z	0	3.5
54	MP3C	Mx	-.000531	3.5
55	MP2A	X	-3.311	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.002	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP2B	X	-3.311	.5
59	MP2B	Z	0	.5
60	MP2B	Mx	-.002	.5
61	MP2C	X	-3.311	.5
62	MP2C	Z	0	.5
63	MP2C	Mx	-.002	.5
64	MP1A	X	-2.682	.5
65	MP1A	Z	0	.5
66	MP1A	Mx	-.001	.5
67	MP1B	X	-2.682	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	-.001	.5
70	MP1C	X	-2.682	.5
71	MP1C	Z	0	.5
72	MP1C	Mx	-.001	.5
73	MP3A	X	-6.645	.5
74	MP3A	Z	0	.5
75	MP3A	Mx	-.003	.5
76	MP1A	X	-11.357	.5
77	MP1A	Z	0	.5
78	MP1A	Mx	.006	.5
79	MP1A	X	-11.357	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	.006	4.5
82	MP4A	X	-11.357	.5
83	MP4A	Z	0	.5
84	MP4A	Mx	.006	.5
85	MP4A	X	-11.357	4.5
86	MP4A	Z	0	4.5
87	MP4A	Mx	.006	4.5
88	MP1B	X	-9.075	.5
89	MP1B	Z	0	.5
90	MP1B	Mx	-.003	.5
91	MP1B	X	-9.075	4.5
92	MP1B	Z	0	4.5
93	MP1B	Mx	-.003	4.5
94	MP4B	X	-9.075	.5
95	MP4B	Z	0	.5
96	MP4B	Mx	-.003	.5
97	MP4B	X	-9.075	4.5
98	MP4B	Z	0	4.5
99	MP4B	Mx	-.003	4.5
100	MP1C	X	-3.568	.5
101	MP1C	Z	0	.5
102	MP1C	Mx	-.00031	.5
103	MP1C	X	-3.568	4.5
104	MP1C	Z	0	4.5
105	MP1C	Mx	-.00031	4.5
106	MP4C	X	-3.568	.5
107	MP4C	Z	0	.5
108	MP4C	Mx	-.00031	.5
109	MP4C	X	-3.568	4.5
110	MP4C	Z	0	4.5
111	MP4C	Mx	-.00031	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-8.649	.5
2	MP2A	Z	-4.994	.5
3	MP2A	Mx	.007	.5
4	MP2A	X	-8.649	4.5
5	MP2A	Z	-4.994	4.5
6	MP2A	Mx	.007	4.5
7	MP2B	X	-9.239	.5
8	MP2B	Z	-5.334	.5
9	MP2B	Mx	-.008	.5
10	MP2B	X	-9.239	4.5
11	MP2B	Z	-5.334	4.5
12	MP2B	Mx	-.008	4.5
13	MP2C	X	-8.963	.5
14	MP2C	Z	-5.175	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	-8.963	4.5
17	MP2C	Z	-5.175	4.5
18	MP2C	Mx	.001	4.5
19	MP2A	X	-8.649	.5
20	MP2A	Z	-4.994	.5
21	MP2A	Mx	.001	.5
22	MP2A	X	-8.649	4.5
23	MP2A	Z	-4.994	4.5
24	MP2A	Mx	.001	4.5
25	MP2B	X	-9.239	.5
26	MP2B	Z	-5.334	.5
27	MP2B	Mx	.004	.5
28	MP2B	X	-9.239	4.5
29	MP2B	Z	-5.334	4.5
30	MP2B	Mx	.004	4.5
31	MP2C	X	-8.963	.5
32	MP2C	Z	-5.175	.5
33	MP2C	Mx	-.008	.5
34	MP2C	X	-8.963	4.5
35	MP2C	Z	-5.175	4.5
36	MP2C	Mx	-.008	4.5
37	MP3A	X	-2.931	1.5
38	MP3A	Z	-1.692	1.5
39	MP3A	Mx	.001	1.5
40	MP3A	X	-2.931	3.5
41	MP3A	Z	-1.692	3.5
42	MP3A	Mx	.001	3.5
43	MP3B	X	-5.007	1.5
44	MP3B	Z	-2.891	1.5
45	MP3B	Mx	-.000989	1.5
46	MP3B	X	-5.007	3.5
47	MP3B	Z	-2.891	3.5
48	MP3B	Mx	-.000989	3.5
49	MP3C	X	-4.035	1.5
50	MP3C	Z	-2.33	1.5
51	MP3C	Mx	-.001	1.5
52	MP3C	X	-4.035	3.5
53	MP3C	Z	-2.33	3.5
54	MP3C	Mx	-.001	3.5
55	MP2A	X	-3.223	.5
56	MP2A	Z	-1.861	.5
57	MP2A	Mx	-.002	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP2B	X	-3.223	.5
59	MP2B	Z	-1.861	.5
60	MP2B	Mx	-.002	.5
61	MP2C	X	-3.223	.5
62	MP2C	Z	-1.861	.5
63	MP2C	Mx	-.002	.5
64	MP1A	X	-2.814	.5
65	MP1A	Z	-1.625	.5
66	MP1A	Mx	-.001	.5
67	MP1B	X	-2.814	.5
68	MP1B	Z	-1.625	.5
69	MP1B	Mx	-.001	.5
70	MP1C	X	-2.814	.5
71	MP1C	Z	-1.625	.5
72	MP1C	Mx	-.001	.5
73	MP3A	X	-6.49	.5
74	MP3A	Z	-3.747	.5
75	MP3A	Mx	-.003	.5
76	MP1A	X	-10.129	.5
77	MP1A	Z	-5.848	.5
78	MP1A	Mx	.005	.5
79	MP1A	X	-10.129	4.5
80	MP1A	Z	-5.848	4.5
81	MP1A	Mx	.005	4.5
82	MP4A	X	-10.129	.5
83	MP4A	Z	-5.848	.5
84	MP4A	Mx	.005	.5
85	MP4A	X	-10.129	4.5
86	MP4A	Z	-5.848	4.5
87	MP4A	Mx	.005	4.5
88	MP1B	X	-5.543	.5
89	MP1B	Z	-3.2	.5
90	MP1B	Mx	-.001	.5
91	MP1B	X	-5.543	4.5
92	MP1B	Z	-3.2	4.5
93	MP1B	Mx	-.001	4.5
94	MP4B	X	-5.543	.5
95	MP4B	Z	-3.2	.5
96	MP4B	Mx	-.001	.5
97	MP4B	X	-5.543	4.5
98	MP4B	Z	-3.2	4.5
99	MP4B	Mx	-.001	4.5
100	MP1C	X	-4.315	.5
101	MP1C	Z	-2.491	.5
102	MP1C	Mx	-.002	.5
103	MP1C	X	-4.315	4.5
104	MP1C	Z	-2.491	4.5
105	MP1C	Mx	-.002	4.5
106	MP4C	X	-4.315	.5
107	MP4C	Z	-2.491	.5
108	MP4C	Mx	-.002	.5
109	MP4C	X	-4.315	4.5
110	MP4C	Z	-2.491	4.5
111	MP4C	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-5.263	.5
2	MP2A	Z	-9.115	.5
3	MP2A	Mx	.008	.5
4	MP2A	X	-5.263	4.5
5	MP2A	Z	-9.115	4.5
6	MP2A	Mx	.008	4.5
7	MP2B	X	-5.381	.5
8	MP2B	Z	-9.32	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	-5.381	4.5
11	MP2B	Z	-9.32	4.5
12	MP2B	Mx	-.005	4.5
13	MP2C	X	-4.922	.5
14	MP2C	Z	-8.525	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	-4.922	4.5
17	MP2C	Z	-8.525	4.5
18	MP2C	Mx	-.003	4.5
19	MP2A	X	-5.263	.5
20	MP2A	Z	-9.115	.5
21	MP2A	Mx	-.003	.5
22	MP2A	X	-5.263	4.5
23	MP2A	Z	-9.115	4.5
24	MP2A	Mx	-.003	4.5
25	MP2B	X	-5.381	.5
26	MP2B	Z	-9.32	.5
27	MP2B	Mx	.007	.5
28	MP2B	X	-5.381	4.5
29	MP2B	Z	-9.32	4.5
30	MP2B	Mx	.007	4.5
31	MP2C	X	-4.922	.5
32	MP2C	Z	-8.525	.5
33	MP2C	Mx	-.007	.5
34	MP2C	X	-4.922	4.5
35	MP2C	Z	-8.525	4.5
36	MP2C	Mx	-.007	4.5
37	MP3A	X	-2.639	1.5
38	MP3A	Z	-4.571	1.5
39	MP3A	Mx	.001	1.5
40	MP3A	X	-2.639	3.5
41	MP3A	Z	-4.571	3.5
42	MP3A	Mx	.001	3.5
43	MP3B	X	-3.055	1.5
44	MP3B	Z	-5.292	1.5
45	MP3B	Mx	.000531	1.5
46	MP3B	X	-3.055	3.5
47	MP3B	Z	-5.292	3.5
48	MP3B	Mx	.000531	3.5
49	MP3C	X	-1.44	1.5
50	MP3C	Z	-2.494	1.5
51	MP3C	Mx	-.001	1.5
52	MP3C	X	-1.44	3.5
53	MP3C	Z	-2.494	3.5
54	MP3C	Mx	-.001	3.5
55	MP2A	X	-2.271	.5
56	MP2A	Z	-3.934	.5
57	MP2A	Mx	-.001	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP2B	X	-2.271	.5
59	MP2B	Z	-3.934	.5
60	MP2B	Mx	-.001	.5
61	MP2C	X	-2.271	.5
62	MP2C	Z	-3.934	.5
63	MP2C	Mx	-.001	.5
64	MP1A	X	-2.193	.5
65	MP1A	Z	-3.798	.5
66	MP1A	Mx	-.001	.5
67	MP1B	X	-2.193	.5
68	MP1B	Z	-3.798	.5
69	MP1B	Mx	-.001	.5
70	MP1C	X	-2.193	.5
71	MP1C	Z	-3.798	.5
72	MP1C	Mx	-.001	.5
73	MP3A	X	-4.595	.5
74	MP3A	Z	-7.959	.5
75	MP3A	Mx	-.002	.5
76	MP1A	X	-6.187	.5
77	MP1A	Z	-10.717	.5
78	MP1A	Mx	.003	.5
79	MP1A	X	-6.187	4.5
80	MP1A	Z	-10.717	4.5
81	MP1A	Mx	.003	4.5
82	MP4A	X	-6.187	.5
83	MP4A	Z	-10.717	.5
84	MP4A	Mx	.003	.5
85	MP4A	X	-6.187	4.5
86	MP4A	Z	-10.717	4.5
87	MP4A	Mx	.003	4.5
88	MP1B	X	-2.953	.5
89	MP1B	Z	-5.115	.5
90	MP1B	Mx	.000513	.5
91	MP1B	X	-2.953	4.5
92	MP1B	Z	-5.115	4.5
93	MP1B	Mx	.000513	4.5
94	MP4B	X	-2.953	.5
95	MP4B	Z	-5.115	.5
96	MP4B	Mx	.000513	.5
97	MP4B	X	-2.953	4.5
98	MP4B	Z	-5.115	4.5
99	MP4B	Mx	.000513	4.5
100	MP1C	X	-3.359	.5
101	MP1C	Z	-5.818	.5
102	MP1C	Mx	-.003	.5
103	MP1C	X	-3.359	4.5
104	MP1C	Z	-5.818	4.5
105	MP1C	Mx	-.003	4.5
106	MP4C	X	-3.359	.5
107	MP4C	Z	-5.818	.5
108	MP4C	Mx	-.003	.5
109	MP4C	X	-3.359	4.5
110	MP4C	Z	-5.818	4.5
111	MP4C	Mx	-.003	4.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 77 : Lm1) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M29	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M31	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	Y	-9.606	-9.606	0	%100
2	M2	Y	-7.611	-7.611	0	%100
3	M3	Y	-7.611	-7.611	0	%100
4	M7	Y	-7.611	-7.611	0	%100
5	M9	Y	-7.611	-7.611	0	%100
6	M13	Y	-7.611	-7.611	0	%100
7	FACE	Y	-7.611	-7.611	0	%100
8	M10	Y	-10.089	-10.089	0	%100
9	M11	Y	-9.606	-9.606	0	%100
10	M14	Y	-9.606	-9.606	0	%100
11	MP1A	Y	-4.977	-4.977	0	%100
12	MP2A	Y	-4.977	-4.977	0	%100
13	MP3A	Y	-4.977	-4.977	0	%100
14	MP4A	Y	-4.977	-4.977	0	%100
15	MP1C	Y	-4.977	-4.977	0	%100
16	MP2C	Y	-4.977	-4.977	0	%100
17	MP3C	Y	-4.977	-4.977	0	%100
18	MP4C	Y	-4.977	-4.977	0	%100
19	MP1B	Y	-4.977	-4.977	0	%100
20	MP2B	Y	-4.977	-4.977	0	%100
21	MP3B	Y	-4.977	-4.977	0	%100
22	MP4B	Y	-4.977	-4.977	0	%100
23	M47	Y	-10.089	-10.089	0	%100
24	M48	Y	-10.089	-10.089	0	%100
25	M49	Y	-5.682	-5.682	0	%100
26	M64	Y	-5.682	-5.682	0	%100
27	M72	Y	-5.682	-5.682	0	%100
28	M58	Y	-5.682	-5.682	0	%100
29	M65	Y	-5.682	-5.682	0	%100
30	M66	Y	-5.682	-5.682	0	%100
31	M67	Y	-5.682	-5.682	0	%100
32	M74	Y	-5.682	-5.682	0	%100
33	M75	Y	-5.682	-5.682	0	%100
34	M76	Y	-7.611	-7.611	0	%100
35	M77	Y	-7.611	-7.611	0	%100
36	M78	Y	-7.611	-7.611	0	%100
37	M79	Y	-7.611	-7.611	0	%100
38	M80	Y	-7.611	-7.611	0	%100



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 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
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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, %]
39	M81	Y	-7.611	-7.611	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	-8.946	-8.946	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-4.833	-4.833	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-4.833	-4.833	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	-4.833	-4.833	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	-19.331	-19.331	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	-4.833	-4.833	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	-19.331	-19.331	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-12.224	-12.224	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	-8.946	-8.946	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-9.182	-9.182	0	%100
23	MP2A	X	0	0	0	%100
24	MP2A	Z	-9.182	-9.182	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	-9.182	-9.182	0	%100
27	MP4A	X	0	0	0	%100
28	MP4A	Z	-9.182	-9.182	0	%100
29	MP1C	X	0	0	0	%100
30	MP1C	Z	-9.182	-9.182	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	-9.182	-9.182	0	%100
33	MP3C	X	0	0	0	%100
34	MP3C	Z	-9.182	-9.182	0	%100
35	MP4C	X	0	0	0	%100
36	MP4C	Z	-9.182	-9.182	0	%100
37	MP1B	X	0	0	0	%100
38	MP1B	Z	-9.182	-9.182	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	-9.182	-9.182	0	%100
41	MP3B	X	0	0	0	%100
42	MP3B	Z	-9.182	-9.182	0	%100
43	MP4B	X	0	0	0	%100
44	MP4B	Z	-9.182	-9.182	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	0	0	0	%100
48	M48	Z	-12.224	-12.224	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	-11.115	-11.115	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	-11.115	-11.115	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
53	M72	X	0	0	0	%100
54	M72	Z	-11.115	-11.115	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	-2.779	-2.779	0	%100
57	M65	X	0	0	0	%100
58	M65	Z	-2.779	-2.779	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	-2.779	-2.779	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	-2.779	-2.779	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	-2.779	-2.779	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	-2.779	-2.779	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	-3.532	-3.532	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	-3.532	-3.532	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	-14.126	-14.126	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	-7.1	-7.1	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	-7.1	-7.1	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	5.964	5.964	0	%100
2	M1	Z	-10.33	-10.33	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	7.249	7.249	0	%100
8	M7	Z	-12.556	-12.556	0	%100
9	M9	X	7.249	7.249	0	%100
10	M9	Z	-12.556	-12.556	0	%100
11	M13	X	7.249	7.249	0	%100
12	M13	Z	-12.556	-12.556	0	%100
13	FACE	X	7.249	7.249	0	%100
14	FACE	Z	-12.556	-12.556	0	%100
15	M10	X	8.149	8.149	0	%100
16	M10	Z	-14.115	-14.115	0	%100
17	M11	X	1.491	1.491	0	%100
18	M11	Z	-2.582	-2.582	0	%100
19	M14	X	1.491	1.491	0	%100
20	M14	Z	-2.582	-2.582	0	%100
21	MP1A	X	4.591	4.591	0	%100
22	MP1A	Z	-7.952	-7.952	0	%100
23	MP2A	X	4.591	4.591	0	%100
24	MP2A	Z	-7.952	-7.952	0	%100
25	MP3A	X	4.591	4.591	0	%100
26	MP3A	Z	-7.952	-7.952	0	%100
27	MP4A	X	4.591	4.591	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
28	MP4A	Z	-7.952	-7.952	0	%100
29	MP1C	X	4.591	4.591	0	%100
30	MP1C	Z	-7.952	-7.952	0	%100
31	MP2C	X	4.591	4.591	0	%100
32	MP2C	Z	-7.952	-7.952	0	%100
33	MP3C	X	4.591	4.591	0	%100
34	MP3C	Z	-7.952	-7.952	0	%100
35	MP4C	X	4.591	4.591	0	%100
36	MP4C	Z	-7.952	-7.952	0	%100
37	MP1B	X	4.591	4.591	0	%100
38	MP1B	Z	-7.952	-7.952	0	%100
39	MP2B	X	4.591	4.591	0	%100
40	MP2B	Z	-7.952	-7.952	0	%100
41	MP3B	X	4.591	4.591	0	%100
42	MP3B	Z	-7.952	-7.952	0	%100
43	MP4B	X	4.591	4.591	0	%100
44	MP4B	Z	-7.952	-7.952	0	%100
45	M47	X	2.037	2.037	0	%100
46	M47	Z	-3.529	-3.529	0	%100
47	M48	X	2.037	2.037	0	%100
48	M48	Z	-3.529	-3.529	0	%100
49	M49	X	4.168	4.168	0	%100
50	M49	Z	-7.22	-7.22	0	%100
51	M64	X	4.168	4.168	0	%100
52	M64	Z	-7.22	-7.22	0	%100
53	M72	X	4.168	4.168	0	%100
54	M72	Z	-7.22	-7.22	0	%100
55	M58	X	4.168	4.168	0	%100
56	M58	Z	-7.22	-7.22	0	%100
57	M65	X	4.168	4.168	0	%100
58	M65	Z	-7.22	-7.22	0	%100
59	M66	X	4.168	4.168	0	%100
60	M66	Z	-7.22	-7.22	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	5.297	5.297	0	%100
68	M76	Z	-9.175	-9.175	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	5.297	5.297	0	%100
72	M78	Z	-9.175	-9.175	0	%100
73	M79	X	4.733	4.733	0	%100
74	M79	Z	-8.198	-8.198	0	%100
75	M80	X	1.183	1.183	0	%100
76	M80	Z	-2.05	-2.05	0	%100
77	M81	X	1.183	1.183	0	%100
78	M81	Z	-2.05	-2.05	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	7.747	7.747	0	%100
2	M1	Z	-4.473	-4.473	0	%100



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Feb 25, 2021
 8:12 PM
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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, %]
3	M2	X	4.185	4.185	0 %100
4	M2	Z	-2.416	-2.416	0 %100
5	M3	X	4.185	4.185	0 %100
6	M3	Z	-2.416	-2.416	0 %100
7	M7	X	16.741	16.741	0 %100
8	M7	Z	-9.666	-9.666	0 %100
9	M9	X	4.185	4.185	0 %100
10	M9	Z	-2.416	-2.416	0 %100
11	M13	X	16.741	16.741	0 %100
12	M13	Z	-9.666	-9.666	0 %100
13	FACE	X	4.185	4.185	0 %100
14	FACE	Z	-2.416	-2.416	0 %100
15	M10	X	10.586	10.586	0 %100
16	M10	Z	-6.112	-6.112	0 %100
17	M11	X	7.747	7.747	0 %100
18	M11	Z	-4.473	-4.473	0 %100
19	M14	X	0	0	0 %100
20	M14	Z	0	0	0 %100
21	MP1A	X	7.952	7.952	0 %100
22	MP1A	Z	-4.591	-4.591	0 %100
23	MP2A	X	7.952	7.952	0 %100
24	MP2A	Z	-4.591	-4.591	0 %100
25	MP3A	X	7.952	7.952	0 %100
26	MP3A	Z	-4.591	-4.591	0 %100
27	MP4A	X	7.952	7.952	0 %100
28	MP4A	Z	-4.591	-4.591	0 %100
29	MP1C	X	7.952	7.952	0 %100
30	MP1C	Z	-4.591	-4.591	0 %100
31	MP2C	X	7.952	7.952	0 %100
32	MP2C	Z	-4.591	-4.591	0 %100
33	MP3C	X	7.952	7.952	0 %100
34	MP3C	Z	-4.591	-4.591	0 %100
35	MP4C	X	7.952	7.952	0 %100
36	MP4C	Z	-4.591	-4.591	0 %100
37	MP1B	X	7.952	7.952	0 %100
38	MP1B	Z	-4.591	-4.591	0 %100
39	MP2B	X	7.952	7.952	0 %100
40	MP2B	Z	-4.591	-4.591	0 %100
41	MP3B	X	7.952	7.952	0 %100
42	MP3B	Z	-4.591	-4.591	0 %100
43	MP4B	X	7.952	7.952	0 %100
44	MP4B	Z	-4.591	-4.591	0 %100
45	M47	X	10.586	10.586	0 %100
46	M47	Z	-6.112	-6.112	0 %100
47	M48	X	0	0	0 %100
48	M48	Z	0	0	0 %100
49	M49	X	2.407	2.407	0 %100
50	M49	Z	-1.389	-1.389	0 %100
51	M64	X	2.407	2.407	0 %100
52	M64	Z	-1.389	-1.389	0 %100
53	M72	X	2.407	2.407	0 %100
54	M72	Z	-1.389	-1.389	0 %100
55	M58	X	9.626	9.626	0 %100
56	M58	Z	-5.558	-5.558	0 %100
57	M65	X	9.626	9.626	0 %100
58	M65	Z	-5.558	-5.558	0 %100
59	M66	X	9.626	9.626	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
60	M66	Z	-5.558	-5.558	0	%100
61	M67	X	2.407	2.407	0	%100
62	M67	Z	-1.389	-1.389	0	%100
63	M74	X	2.407	2.407	0	%100
64	M74	Z	-1.389	-1.389	0	%100
65	M75	X	2.407	2.407	0	%100
66	M75	Z	-1.389	-1.389	0	%100
67	M76	X	12.234	12.234	0	%100
68	M76	Z	-7.063	-7.063	0	%100
69	M77	X	3.058	3.058	0	%100
70	M77	Z	-1.766	-1.766	0	%100
71	M78	X	3.058	3.058	0	%100
72	M78	Z	-1.766	-1.766	0	%100
73	M79	X	6.149	6.149	0	%100
74	M79	Z	-3.55	-3.55	0	%100
75	M80	X	6.149	6.149	0	%100
76	M80	Z	-3.55	-3.55	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	0	0	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	2.982	2.982	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	14.498	14.498	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	14.498	14.498	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	14.498	14.498	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M13	X	14.498	14.498	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	0	0	0	%100
15	M10	X	4.075	4.075	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	11.928	11.928	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	2.982	2.982	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	9.182	9.182	0	%100
22	MP1A	Z	0	0	0	%100
23	MP2A	X	9.182	9.182	0	%100
24	MP2A	Z	0	0	0	%100
25	MP3A	X	9.182	9.182	0	%100
26	MP3A	Z	0	0	0	%100
27	MP4A	X	9.182	9.182	0	%100
28	MP4A	Z	0	0	0	%100
29	MP1C	X	9.182	9.182	0	%100
30	MP1C	Z	0	0	0	%100
31	MP2C	X	9.182	9.182	0	%100
32	MP2C	Z	0	0	0	%100
33	MP3C	X	9.182	9.182	0	%100
34	MP3C	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
35	MP4C	X	9.182	9.182	0	%100
36	MP4C	Z	0	0	0	%100
37	MP1B	X	9.182	9.182	0	%100
38	MP1B	Z	0	0	0	%100
39	MP2B	X	9.182	9.182	0	%100
40	MP2B	Z	0	0	0	%100
41	MP3B	X	9.182	9.182	0	%100
42	MP3B	Z	0	0	0	%100
43	MP4B	X	9.182	9.182	0	%100
44	MP4B	Z	0	0	0	%100
45	M47	X	16.299	16.299	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	4.075	4.075	0	%100
48	M48	Z	0	0	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	0	0	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	0	0	0	%100
55	M58	X	8.337	8.337	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	8.337	8.337	0	%100
58	M65	Z	0	0	0	%100
59	M66	X	8.337	8.337	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	8.337	8.337	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	8.337	8.337	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	8.337	8.337	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	10.595	10.595	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	10.595	10.595	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	0	0	0	%100
73	M79	X	2.367	2.367	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	9.466	9.466	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	2.367	2.367	0	%100
78	M81	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	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	16.741	16.741	0	%100
4	M2	Z	9.666	9.666	0	%100
5	M3	X	16.741	16.741	0	%100
6	M3	Z	9.666	9.666	0	%100
7	M7	X	4.185	4.185	0	%100
8	M7	Z	2.416	2.416	0	%100
9	M9	X	4.185	4.185	0	%100



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 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
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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.%]
10	M9	Z	2.416	2.416	0 %100
11	M13	X	4.185	4.185	0 %100
12	M13	Z	2.416	2.416	0 %100
13	FACE	X	4.185	4.185	0 %100
14	FACE	Z	2.416	2.416	0 %100
15	M10	X	0	0	0 %100
16	M10	Z	0	0	0 %100
17	M11	X	7.747	7.747	0 %100
18	M11	Z	4.473	4.473	0 %100
19	M14	X	7.747	7.747	0 %100
20	M14	Z	4.473	4.473	0 %100
21	MP1A	X	7.952	7.952	0 %100
22	MP1A	Z	4.591	4.591	0 %100
23	MP2A	X	7.952	7.952	0 %100
24	MP2A	Z	4.591	4.591	0 %100
25	MP3A	X	7.952	7.952	0 %100
26	MP3A	Z	4.591	4.591	0 %100
27	MP4A	X	7.952	7.952	0 %100
28	MP4A	Z	4.591	4.591	0 %100
29	MP1C	X	7.952	7.952	0 %100
30	MP1C	Z	4.591	4.591	0 %100
31	MP2C	X	7.952	7.952	0 %100
32	MP2C	Z	4.591	4.591	0 %100
33	MP3C	X	7.952	7.952	0 %100
34	MP3C	Z	4.591	4.591	0 %100
35	MP4C	X	7.952	7.952	0 %100
36	MP4C	Z	4.591	4.591	0 %100
37	MP1B	X	7.952	7.952	0 %100
38	MP1B	Z	4.591	4.591	0 %100
39	MP2B	X	7.952	7.952	0 %100
40	MP2B	Z	4.591	4.591	0 %100
41	MP3B	X	7.952	7.952	0 %100
42	MP3B	Z	4.591	4.591	0 %100
43	MP4B	X	7.952	7.952	0 %100
44	MP4B	Z	4.591	4.591	0 %100
45	M47	X	10.586	10.586	0 %100
46	M47	Z	6.112	6.112	0 %100
47	M48	X	10.586	10.586	0 %100
48	M48	Z	6.112	6.112	0 %100
49	M49	X	2.407	2.407	0 %100
50	M49	Z	1.389	1.389	0 %100
51	M64	X	2.407	2.407	0 %100
52	M64	Z	1.389	1.389	0 %100
53	M72	X	2.407	2.407	0 %100
54	M72	Z	1.389	1.389	0 %100
55	M58	X	2.407	2.407	0 %100
56	M58	Z	1.389	1.389	0 %100
57	M65	X	2.407	2.407	0 %100
58	M65	Z	1.389	1.389	0 %100
59	M66	X	2.407	2.407	0 %100
60	M66	Z	1.389	1.389	0 %100
61	M67	X	9.626	9.626	0 %100
62	M67	Z	5.558	5.558	0 %100
63	M74	X	9.626	9.626	0 %100
64	M74	Z	5.558	5.558	0 %100
65	M75	X	9.626	9.626	0 %100
66	M75	Z	5.558	5.558	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
67	M76	X	3.058	3.058	0	%100
68	M76	Z	1.766	1.766	0	%100
69	M77	X	12.234	12.234	0	%100
70	M77	Z	7.063	7.063	0	%100
71	M78	X	3.058	3.058	0	%100
72	M78	Z	1.766	1.766	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	6.149	6.149	0	%100
76	M80	Z	3.55	3.55	0	%100
77	M81	X	6.149	6.149	0	%100
78	M81	Z	3.55	3.55	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	1.491	1.491	0	%100
2	M1	Z	2.582	2.582	0	%100
3	M2	X	7.249	7.249	0	%100
4	M2	Z	12.556	12.556	0	%100
5	M3	X	7.249	7.249	0	%100
6	M3	Z	12.556	12.556	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	7.249	7.249	0	%100
10	M9	Z	12.556	12.556	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	7.249	7.249	0	%100
14	FACE	Z	12.556	12.556	0	%100
15	M10	X	2.037	2.037	0	%100
16	M10	Z	3.529	3.529	0	%100
17	M11	X	1.491	1.491	0	%100
18	M11	Z	2.582	2.582	0	%100
19	M14	X	5.964	5.964	0	%100
20	M14	Z	10.33	10.33	0	%100
21	MP1A	X	4.591	4.591	0	%100
22	MP1A	Z	7.952	7.952	0	%100
23	MP2A	X	4.591	4.591	0	%100
24	MP2A	Z	7.952	7.952	0	%100
25	MP3A	X	4.591	4.591	0	%100
26	MP3A	Z	7.952	7.952	0	%100
27	MP4A	X	4.591	4.591	0	%100
28	MP4A	Z	7.952	7.952	0	%100
29	MP1C	X	4.591	4.591	0	%100
30	MP1C	Z	7.952	7.952	0	%100
31	MP2C	X	4.591	4.591	0	%100
32	MP2C	Z	7.952	7.952	0	%100
33	MP3C	X	4.591	4.591	0	%100
34	MP3C	Z	7.952	7.952	0	%100
35	MP4C	X	4.591	4.591	0	%100
36	MP4C	Z	7.952	7.952	0	%100
37	MP1B	X	4.591	4.591	0	%100
38	MP1B	Z	7.952	7.952	0	%100
39	MP2B	X	4.591	4.591	0	%100
40	MP2B	Z	7.952	7.952	0	%100
41	MP3B	X	4.591	4.591	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
42	MP3B	Z	7.952	7.952	0	%100
43	MP4B	X	4.591	4.591	0	%100
44	MP4B	Z	7.952	7.952	0	%100
45	M47	X	2.037	2.037	0	%100
46	M47	Z	3.529	3.529	0	%100
47	M48	X	8.149	8.149	0	%100
48	M48	Z	14.115	14.115	0	%100
49	M49	X	4.168	4.168	0	%100
50	M49	Z	7.22	7.22	0	%100
51	M64	X	4.168	4.168	0	%100
52	M64	Z	7.22	7.22	0	%100
53	M72	X	4.168	4.168	0	%100
54	M72	Z	7.22	7.22	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	0	0	0	%100
58	M65	Z	0	0	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	4.168	4.168	0	%100
62	M67	Z	7.22	7.22	0	%100
63	M74	X	4.168	4.168	0	%100
64	M74	Z	7.22	7.22	0	%100
65	M75	X	4.168	4.168	0	%100
66	M75	Z	7.22	7.22	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	5.297	5.297	0	%100
70	M77	Z	9.175	9.175	0	%100
71	M78	X	5.297	5.297	0	%100
72	M78	Z	9.175	9.175	0	%100
73	M79	X	1.183	1.183	0	%100
74	M79	Z	2.05	2.05	0	%100
75	M80	X	1.183	1.183	0	%100
76	M80	Z	2.05	2.05	0	%100
77	M81	X	4.733	4.733	0	%100
78	M81	Z	8.198	8.198	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	8.946	8.946	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	4.833	4.833	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	4.833	4.833	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	4.833	4.833	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	19.331	19.331	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	4.833	4.833	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	19.331	19.331	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	12.224	12.224	0	%100



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 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
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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.-%]
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	8.946	8.946	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	9.182	9.182	0	%100
23	MP2A	X	0	0	0	%100
24	MP2A	Z	9.182	9.182	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	9.182	9.182	0	%100
27	MP4A	X	0	0	0	%100
28	MP4A	Z	9.182	9.182	0	%100
29	MP1C	X	0	0	0	%100
30	MP1C	Z	9.182	9.182	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	9.182	9.182	0	%100
33	MP3C	X	0	0	0	%100
34	MP3C	Z	9.182	9.182	0	%100
35	MP4C	X	0	0	0	%100
36	MP4C	Z	9.182	9.182	0	%100
37	MP1B	X	0	0	0	%100
38	MP1B	Z	9.182	9.182	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	9.182	9.182	0	%100
41	MP3B	X	0	0	0	%100
42	MP3B	Z	9.182	9.182	0	%100
43	MP4B	X	0	0	0	%100
44	MP4B	Z	9.182	9.182	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	0	0	0	%100
48	M48	Z	12.224	12.224	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	11.115	11.115	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	11.115	11.115	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	11.115	11.115	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	2.779	2.779	0	%100
57	M65	X	0	0	0	%100
58	M65	Z	2.779	2.779	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	2.779	2.779	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	2.779	2.779	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	2.779	2.779	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	2.779	2.779	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	3.532	3.532	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	3.532	3.532	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	14.126	14.126	0	%100
73	M79	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
74	M79	Z	7.1	7.1	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	7.1	7.1	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	-5.964	-5.964	0	%100
2	M1	Z	10.33	10.33	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-7.249	-7.249	0	%100
8	M7	Z	12.556	12.556	0	%100
9	M9	X	-7.249	-7.249	0	%100
10	M9	Z	12.556	12.556	0	%100
11	M13	X	-7.249	-7.249	0	%100
12	M13	Z	12.556	12.556	0	%100
13	FACE	X	-7.249	-7.249	0	%100
14	FACE	Z	12.556	12.556	0	%100
15	M10	X	-8.149	-8.149	0	%100
16	M10	Z	14.115	14.115	0	%100
17	M11	X	-1.491	-1.491	0	%100
18	M11	Z	2.582	2.582	0	%100
19	M14	X	-1.491	-1.491	0	%100
20	M14	Z	2.582	2.582	0	%100
21	MP1A	X	-4.591	-4.591	0	%100
22	MP1A	Z	7.952	7.952	0	%100
23	MP2A	X	-4.591	-4.591	0	%100
24	MP2A	Z	7.952	7.952	0	%100
25	MP3A	X	-4.591	-4.591	0	%100
26	MP3A	Z	7.952	7.952	0	%100
27	MP4A	X	-4.591	-4.591	0	%100
28	MP4A	Z	7.952	7.952	0	%100
29	MP1C	X	-4.591	-4.591	0	%100
30	MP1C	Z	7.952	7.952	0	%100
31	MP2C	X	-4.591	-4.591	0	%100
32	MP2C	Z	7.952	7.952	0	%100
33	MP3C	X	-4.591	-4.591	0	%100
34	MP3C	Z	7.952	7.952	0	%100
35	MP4C	X	-4.591	-4.591	0	%100
36	MP4C	Z	7.952	7.952	0	%100
37	MP1B	X	-4.591	-4.591	0	%100
38	MP1B	Z	7.952	7.952	0	%100
39	MP2B	X	-4.591	-4.591	0	%100
40	MP2B	Z	7.952	7.952	0	%100
41	MP3B	X	-4.591	-4.591	0	%100
42	MP3B	Z	7.952	7.952	0	%100
43	MP4B	X	-4.591	-4.591	0	%100
44	MP4B	Z	7.952	7.952	0	%100
45	M47	X	-2.037	-2.037	0	%100
46	M47	Z	3.529	3.529	0	%100
47	M48	X	-2.037	-2.037	0	%100
48	M48	Z	3.529	3.529	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
49	M49	X	-4.168	-4.168	0	%100
50	M49	Z	7.22	7.22	0	%100
51	M64	X	-4.168	-4.168	0	%100
52	M64	Z	7.22	7.22	0	%100
53	M72	X	-4.168	-4.168	0	%100
54	M72	Z	7.22	7.22	0	%100
55	M58	X	-4.168	-4.168	0	%100
56	M58	Z	7.22	7.22	0	%100
57	M65	X	-4.168	-4.168	0	%100
58	M65	Z	7.22	7.22	0	%100
59	M66	X	-4.168	-4.168	0	%100
60	M66	Z	7.22	7.22	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	-5.297	-5.297	0	%100
68	M76	Z	9.175	9.175	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	-5.297	-5.297	0	%100
72	M78	Z	9.175	9.175	0	%100
73	M79	X	-4.733	-4.733	0	%100
74	M79	Z	8.198	8.198	0	%100
75	M80	X	-1.183	-1.183	0	%100
76	M80	Z	2.05	2.05	0	%100
77	M81	X	-1.183	-1.183	0	%100
78	M81	Z	2.05	2.05	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	-7.747	-7.747	0	%100
2	M1	Z	4.473	4.473	0	%100
3	M2	X	-4.185	-4.185	0	%100
4	M2	Z	2.416	2.416	0	%100
5	M3	X	-4.185	-4.185	0	%100
6	M3	Z	2.416	2.416	0	%100
7	M7	X	-16.741	-16.741	0	%100
8	M7	Z	9.666	9.666	0	%100
9	M9	X	-4.185	-4.185	0	%100
10	M9	Z	2.416	2.416	0	%100
11	M13	X	-16.741	-16.741	0	%100
12	M13	Z	9.666	9.666	0	%100
13	FACE	X	-4.185	-4.185	0	%100
14	FACE	Z	2.416	2.416	0	%100
15	M10	X	-10.586	-10.586	0	%100
16	M10	Z	6.112	6.112	0	%100
17	M11	X	-7.747	-7.747	0	%100
18	M11	Z	4.473	4.473	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	-7.952	-7.952	0	%100
22	MP1A	Z	4.591	4.591	0	%100
23	MP2A	X	-7.952	-7.952	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
24	MP2A	Z	4.591	4.591	0 %100
25	MP3A	X	-7.952	-7.952	0 %100
26	MP3A	Z	4.591	4.591	0 %100
27	MP4A	X	-7.952	-7.952	0 %100
28	MP4A	Z	4.591	4.591	0 %100
29	MP1C	X	-7.952	-7.952	0 %100
30	MP1C	Z	4.591	4.591	0 %100
31	MP2C	X	-7.952	-7.952	0 %100
32	MP2C	Z	4.591	4.591	0 %100
33	MP3C	X	-7.952	-7.952	0 %100
34	MP3C	Z	4.591	4.591	0 %100
35	MP4C	X	-7.952	-7.952	0 %100
36	MP4C	Z	4.591	4.591	0 %100
37	MP1B	X	-7.952	-7.952	0 %100
38	MP1B	Z	4.591	4.591	0 %100
39	MP2B	X	-7.952	-7.952	0 %100
40	MP2B	Z	4.591	4.591	0 %100
41	MP3B	X	-7.952	-7.952	0 %100
42	MP3B	Z	4.591	4.591	0 %100
43	MP4B	X	-7.952	-7.952	0 %100
44	MP4B	Z	4.591	4.591	0 %100
45	M47	X	-10.586	-10.586	0 %100
46	M47	Z	6.112	6.112	0 %100
47	M48	X	0	0	0 %100
48	M48	Z	0	0	0 %100
49	M49	X	-2.407	-2.407	0 %100
50	M49	Z	1.389	1.389	0 %100
51	M64	X	-2.407	-2.407	0 %100
52	M64	Z	1.389	1.389	0 %100
53	M72	X	-2.407	-2.407	0 %100
54	M72	Z	1.389	1.389	0 %100
55	M58	X	-9.626	-9.626	0 %100
56	M58	Z	5.558	5.558	0 %100
57	M65	X	-9.626	-9.626	0 %100
58	M65	Z	5.558	5.558	0 %100
59	M66	X	-9.626	-9.626	0 %100
60	M66	Z	5.558	5.558	0 %100
61	M67	X	-2.407	-2.407	0 %100
62	M67	Z	1.389	1.389	0 %100
63	M74	X	-2.407	-2.407	0 %100
64	M74	Z	1.389	1.389	0 %100
65	M75	X	-2.407	-2.407	0 %100
66	M75	Z	1.389	1.389	0 %100
67	M76	X	-12.234	-12.234	0 %100
68	M76	Z	7.063	7.063	0 %100
69	M77	X	-3.058	-3.058	0 %100
70	M77	Z	1.766	1.766	0 %100
71	M78	X	-3.058	-3.058	0 %100
72	M78	Z	1.766	1.766	0 %100
73	M79	X	-6.149	-6.149	0 %100
74	M79	Z	3.55	3.55	0 %100
75	M80	X	-6.149	-6.149	0 %100
76	M80	Z	3.55	3.55	0 %100
77	M81	X	0	0	0 %100
78	M81	Z	0	0	0 %100



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 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
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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	-2.982	-2.982	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-14.498	-14.498	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-14.498	-14.498	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-14.498	-14.498	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M13	X	-14.498	-14.498	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	0	0	0	%100
15	M10	X	-4.075	-4.075	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-11.928	-11.928	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	-2.982	-2.982	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	-9.182	-9.182	0	%100
22	MP1A	Z	0	0	0	%100
23	MP2A	X	-9.182	-9.182	0	%100
24	MP2A	Z	0	0	0	%100
25	MP3A	X	-9.182	-9.182	0	%100
26	MP3A	Z	0	0	0	%100
27	MP4A	X	-9.182	-9.182	0	%100
28	MP4A	Z	0	0	0	%100
29	MP1C	X	-9.182	-9.182	0	%100
30	MP1C	Z	0	0	0	%100
31	MP2C	X	-9.182	-9.182	0	%100
32	MP2C	Z	0	0	0	%100
33	MP3C	X	-9.182	-9.182	0	%100
34	MP3C	Z	0	0	0	%100
35	MP4C	X	-9.182	-9.182	0	%100
36	MP4C	Z	0	0	0	%100
37	MP1B	X	-9.182	-9.182	0	%100
38	MP1B	Z	0	0	0	%100
39	MP2B	X	-9.182	-9.182	0	%100
40	MP2B	Z	0	0	0	%100
41	MP3B	X	-9.182	-9.182	0	%100
42	MP3B	Z	0	0	0	%100
43	MP4B	X	-9.182	-9.182	0	%100
44	MP4B	Z	0	0	0	%100
45	M47	X	-16.299	-16.299	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	-4.075	-4.075	0	%100
48	M48	Z	0	0	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	0	0	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	0	0	0	%100
55	M58	X	-8.337	-8.337	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	-8.337	-8.337	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
58	M65	Z	0	0	0	%100
59	M66	X	-8.337	-8.337	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	-8.337	-8.337	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	-8.337	-8.337	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	-8.337	-8.337	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	-10.595	-10.595	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	-10.595	-10.595	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	0	0	0	%100
73	M79	X	-2.367	-2.367	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	-9.466	-9.466	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	-2.367	-2.367	0	%100
78	M81	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	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-16.741	-16.741	0	%100
4	M2	Z	-9.666	-9.666	0	%100
5	M3	X	-16.741	-16.741	0	%100
6	M3	Z	-9.666	-9.666	0	%100
7	M7	X	-4.185	-4.185	0	%100
8	M7	Z	-2.416	-2.416	0	%100
9	M9	X	-4.185	-4.185	0	%100
10	M9	Z	-2.416	-2.416	0	%100
11	M13	X	-4.185	-4.185	0	%100
12	M13	Z	-2.416	-2.416	0	%100
13	FACE	X	-4.185	-4.185	0	%100
14	FACE	Z	-2.416	-2.416	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-7.747	-7.747	0	%100
18	M11	Z	-4.473	-4.473	0	%100
19	M14	X	-7.747	-7.747	0	%100
20	M14	Z	-4.473	-4.473	0	%100
21	MP1A	X	-7.952	-7.952	0	%100
22	MP1A	Z	-4.591	-4.591	0	%100
23	MP2A	X	-7.952	-7.952	0	%100
24	MP2A	Z	-4.591	-4.591	0	%100
25	MP3A	X	-7.952	-7.952	0	%100
26	MP3A	Z	-4.591	-4.591	0	%100
27	MP4A	X	-7.952	-7.952	0	%100
28	MP4A	Z	-4.591	-4.591	0	%100
29	MP1C	X	-7.952	-7.952	0	%100
30	MP1C	Z	-4.591	-4.591	0	%100
31	MP2C	X	-7.952	-7.952	0	%100
32	MP2C	Z	-4.591	-4.591	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
33	MP3C	X	-7.952	-7.952	0	%100
34	MP3C	Z	-4.591	-4.591	0	%100
35	MP4C	X	-7.952	-7.952	0	%100
36	MP4C	Z	-4.591	-4.591	0	%100
37	MP1B	X	-7.952	-7.952	0	%100
38	MP1B	Z	-4.591	-4.591	0	%100
39	MP2B	X	-7.952	-7.952	0	%100
40	MP2B	Z	-4.591	-4.591	0	%100
41	MP3B	X	-7.952	-7.952	0	%100
42	MP3B	Z	-4.591	-4.591	0	%100
43	MP4B	X	-7.952	-7.952	0	%100
44	MP4B	Z	-4.591	-4.591	0	%100
45	M47	X	-10.586	-10.586	0	%100
46	M47	Z	-6.112	-6.112	0	%100
47	M48	X	-10.586	-10.586	0	%100
48	M48	Z	-6.112	-6.112	0	%100
49	M49	X	-2.407	-2.407	0	%100
50	M49	Z	-1.389	-1.389	0	%100
51	M64	X	-2.407	-2.407	0	%100
52	M64	Z	-1.389	-1.389	0	%100
53	M72	X	-2.407	-2.407	0	%100
54	M72	Z	-1.389	-1.389	0	%100
55	M58	X	-2.407	-2.407	0	%100
56	M58	Z	-1.389	-1.389	0	%100
57	M65	X	-2.407	-2.407	0	%100
58	M65	Z	-1.389	-1.389	0	%100
59	M66	X	-2.407	-2.407	0	%100
60	M66	Z	-1.389	-1.389	0	%100
61	M67	X	-9.626	-9.626	0	%100
62	M67	Z	-5.558	-5.558	0	%100
63	M74	X	-9.626	-9.626	0	%100
64	M74	Z	-5.558	-5.558	0	%100
65	M75	X	-9.626	-9.626	0	%100
66	M75	Z	-5.558	-5.558	0	%100
67	M76	X	-3.058	-3.058	0	%100
68	M76	Z	-1.766	-1.766	0	%100
69	M77	X	-12.234	-12.234	0	%100
70	M77	Z	-7.063	-7.063	0	%100
71	M78	X	-3.058	-3.058	0	%100
72	M78	Z	-1.766	-1.766	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	-6.149	-6.149	0	%100
76	M80	Z	-3.55	-3.55	0	%100
77	M81	X	-6.149	-6.149	0	%100
78	M81	Z	-3.55	-3.55	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	-1.491	-1.491	0	%100
2	M1	Z	-2.582	-2.582	0	%100
3	M2	X	-7.249	-7.249	0	%100
4	M2	Z	-12.556	-12.556	0	%100
5	M3	X	-7.249	-7.249	0	%100
6	M3	Z	-12.556	-12.556	0	%100
7	M7	X	0	0	0	%100



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Feb 25, 2021
 8:12 PM
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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, %]
8	M7	Z	0	0	%100
9	M9	X	-7.249	-7.249	%100
10	M9	Z	-12.556	-12.556	%100
11	M13	X	0	0	%100
12	M13	Z	0	0	%100
13	FACE	X	-7.249	-7.249	%100
14	FACE	Z	-12.556	-12.556	%100
15	M10	X	-2.037	-2.037	%100
16	M10	Z	-3.529	-3.529	%100
17	M11	X	-1.491	-1.491	%100
18	M11	Z	-2.582	-2.582	%100
19	M14	X	-5.964	-5.964	%100
20	M14	Z	-10.33	-10.33	%100
21	MP1A	X	-4.591	-4.591	%100
22	MP1A	Z	-7.952	-7.952	%100
23	MP2A	X	-4.591	-4.591	%100
24	MP2A	Z	-7.952	-7.952	%100
25	MP3A	X	-4.591	-4.591	%100
26	MP3A	Z	-7.952	-7.952	%100
27	MP4A	X	-4.591	-4.591	%100
28	MP4A	Z	-7.952	-7.952	%100
29	MP1C	X	-4.591	-4.591	%100
30	MP1C	Z	-7.952	-7.952	%100
31	MP2C	X	-4.591	-4.591	%100
32	MP2C	Z	-7.952	-7.952	%100
33	MP3C	X	-4.591	-4.591	%100
34	MP3C	Z	-7.952	-7.952	%100
35	MP4C	X	-4.591	-4.591	%100
36	MP4C	Z	-7.952	-7.952	%100
37	MP1B	X	-4.591	-4.591	%100
38	MP1B	Z	-7.952	-7.952	%100
39	MP2B	X	-4.591	-4.591	%100
40	MP2B	Z	-7.952	-7.952	%100
41	MP3B	X	-4.591	-4.591	%100
42	MP3B	Z	-7.952	-7.952	%100
43	MP4B	X	-4.591	-4.591	%100
44	MP4B	Z	-7.952	-7.952	%100
45	M47	X	-2.037	-2.037	%100
46	M47	Z	-3.529	-3.529	%100
47	M48	X	-8.149	-8.149	%100
48	M48	Z	-14.115	-14.115	%100
49	M49	X	-4.168	-4.168	%100
50	M49	Z	-7.22	-7.22	%100
51	M64	X	-4.168	-4.168	%100
52	M64	Z	-7.22	-7.22	%100
53	M72	X	-4.168	-4.168	%100
54	M72	Z	-7.22	-7.22	%100
55	M58	X	0	0	%100
56	M58	Z	0	0	%100
57	M65	X	0	0	%100
58	M65	Z	0	0	%100
59	M66	X	0	0	%100
60	M66	Z	0	0	%100
61	M67	X	-4.168	-4.168	%100
62	M67	Z	-7.22	-7.22	%100
63	M74	X	-4.168	-4.168	%100
64	M74	Z	-7.22	-7.22	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
65	M75	X	-4.168	-4.168	0	%100
66	M75	Z	-7.22	-7.22	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	-5.297	-5.297	0	%100
70	M77	Z	-9.175	-9.175	0	%100
71	M78	X	-5.297	-5.297	0	%100
72	M78	Z	-9.175	-9.175	0	%100
73	M79	X	-1.183	-1.183	0	%100
74	M79	Z	-2.05	-2.05	0	%100
75	M80	X	-1.183	-1.183	0	%100
76	M80	Z	-2.05	-2.05	0	%100
77	M81	X	-4.733	-4.733	0	%100
78	M81	Z	-8.198	-8.198	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	-2.726	-2.726	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.344	-1.344	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-1.344	-1.344	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	-1.344	-1.344	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	-5.378	-5.378	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	-1.344	-1.344	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	-5.378	-5.378	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-3.488	-3.488	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	-2.726	-2.726	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-3.446	-3.446	0	%100
23	MP2A	X	0	0	0	%100
24	MP2A	Z	-3.446	-3.446	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	-3.446	-3.446	0	%100
27	MP4A	X	0	0	0	%100
28	MP4A	Z	-3.446	-3.446	0	%100
29	MP1C	X	0	0	0	%100
30	MP1C	Z	-3.446	-3.446	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	-3.446	-3.446	0	%100
33	MP3C	X	0	0	0	%100
34	MP3C	Z	-3.446	-3.446	0	%100
35	MP4C	X	0	0	0	%100
36	MP4C	Z	-3.446	-3.446	0	%100
37	MP1B	X	0	0	0	%100
38	MP1B	Z	-3.446	-3.446	0	%100
39	MP2B	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
40	MP2B	Z	-3.446	-3.446	0	%100
41	MP3B	X	0	0	0	%100
42	MP3B	Z	-3.446	-3.446	0	%100
43	MP4B	X	0	0	0	%100
44	MP4B	Z	-3.446	-3.446	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	0	0	0	%100
48	M48	Z	-3.488	-3.488	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	-3.814	-3.814	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	-3.814	-3.814	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	-3.814	-3.814	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	-0.954	-0.954	0	%100
57	M65	X	0	0	0	%100
58	M65	Z	-0.954	-0.954	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	-0.954	-0.954	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	-0.954	-0.954	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	-0.954	-0.954	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	-0.954	-0.954	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	-0.991	-0.991	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	-0.991	-0.991	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	-3.962	-3.962	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	-2.375	-2.375	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	-2.375	-2.375	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	1.818	1.818	0	%100
2	M1	Z	-3.148	-3.148	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	2.017	2.017	0	%100
8	M7	Z	-3.493	-3.493	0	%100
9	M9	X	2.017	2.017	0	%100
10	M9	Z	-3.493	-3.493	0	%100
11	M13	X	2.017	2.017	0	%100
12	M13	Z	-3.493	-3.493	0	%100
13	FACE	X	2.017	2.017	0	%100
14	FACE	Z	-3.493	-3.493	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	M10	X	2.326	2.326	0	%100
16	M10	Z	-4.028	-4.028	0	%100
17	M11	X	.454	.454	0	%100
18	M11	Z	-.787	-.787	0	%100
19	M14	X	.454	.454	0	%100
20	M14	Z	-.787	-.787	0	%100
21	MP1A	X	1.723	1.723	0	%100
22	MP1A	Z	-2.984	-2.984	0	%100
23	MP2A	X	1.723	1.723	0	%100
24	MP2A	Z	-2.984	-2.984	0	%100
25	MP3A	X	1.723	1.723	0	%100
26	MP3A	Z	-2.984	-2.984	0	%100
27	MP4A	X	1.723	1.723	0	%100
28	MP4A	Z	-2.984	-2.984	0	%100
29	MP1C	X	1.723	1.723	0	%100
30	MP1C	Z	-2.984	-2.984	0	%100
31	MP2C	X	1.723	1.723	0	%100
32	MP2C	Z	-2.984	-2.984	0	%100
33	MP3C	X	1.723	1.723	0	%100
34	MP3C	Z	-2.984	-2.984	0	%100
35	MP4C	X	1.723	1.723	0	%100
36	MP4C	Z	-2.984	-2.984	0	%100
37	MP1B	X	1.723	1.723	0	%100
38	MP1B	Z	-2.984	-2.984	0	%100
39	MP2B	X	1.723	1.723	0	%100
40	MP2B	Z	-2.984	-2.984	0	%100
41	MP3B	X	1.723	1.723	0	%100
42	MP3B	Z	-2.984	-2.984	0	%100
43	MP4B	X	1.723	1.723	0	%100
44	MP4B	Z	-2.984	-2.984	0	%100
45	M47	X	.581	.581	0	%100
46	M47	Z	-1.007	-1.007	0	%100
47	M48	X	.581	.581	0	%100
48	M48	Z	-1.007	-1.007	0	%100
49	M49	X	1.43	1.43	0	%100
50	M49	Z	-2.477	-2.477	0	%100
51	M64	X	1.43	1.43	0	%100
52	M64	Z	-2.477	-2.477	0	%100
53	M72	X	1.43	1.43	0	%100
54	M72	Z	-2.477	-2.477	0	%100
55	M58	X	1.43	1.43	0	%100
56	M58	Z	-2.477	-2.477	0	%100
57	M65	X	1.43	1.43	0	%100
58	M65	Z	-2.477	-2.477	0	%100
59	M66	X	1.43	1.43	0	%100
60	M66	Z	-2.477	-2.477	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	1.486	1.486	0	%100
68	M76	Z	-2.574	-2.574	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	1.486	1.486	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
72	M78	Z	-2.574	-2.574	0	%100
73	M79	X	1.583	1.583	0	%100
74	M79	Z	-2.743	-2.743	0	%100
75	M80	X	.396	.396	0	%100
76	M80	Z	-.686	-.686	0	%100
77	M81	X	.396	.396	0	%100
78	M81	Z	-.686	-.686	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	2.361	2.361	0	%100
2	M1	Z	-1.363	-1.363	0	%100
3	M2	X	1.164	1.164	0	%100
4	M2	Z	-.672	-.672	0	%100
5	M3	X	1.164	1.164	0	%100
6	M3	Z	-.672	-.672	0	%100
7	M7	X	4.657	4.657	0	%100
8	M7	Z	-2.689	-2.689	0	%100
9	M9	X	1.164	1.164	0	%100
10	M9	Z	-.672	-.672	0	%100
11	M13	X	4.657	4.657	0	%100
12	M13	Z	-2.689	-2.689	0	%100
13	FACE	X	1.164	1.164	0	%100
14	FACE	Z	-.672	-.672	0	%100
15	M10	X	3.021	3.021	0	%100
16	M10	Z	-1.744	-1.744	0	%100
17	M11	X	2.361	2.361	0	%100
18	M11	Z	-1.363	-1.363	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	2.984	2.984	0	%100
22	MP1A	Z	-1.723	-1.723	0	%100
23	MP2A	X	2.984	2.984	0	%100
24	MP2A	Z	-1.723	-1.723	0	%100
25	MP3A	X	2.984	2.984	0	%100
26	MP3A	Z	-1.723	-1.723	0	%100
27	MP4A	X	2.984	2.984	0	%100
28	MP4A	Z	-1.723	-1.723	0	%100
29	MP1C	X	2.984	2.984	0	%100
30	MP1C	Z	-1.723	-1.723	0	%100
31	MP2C	X	2.984	2.984	0	%100
32	MP2C	Z	-1.723	-1.723	0	%100
33	MP3C	X	2.984	2.984	0	%100
34	MP3C	Z	-1.723	-1.723	0	%100
35	MP4C	X	2.984	2.984	0	%100
36	MP4C	Z	-1.723	-1.723	0	%100
37	MP1B	X	2.984	2.984	0	%100
38	MP1B	Z	-1.723	-1.723	0	%100
39	MP2B	X	2.984	2.984	0	%100
40	MP2B	Z	-1.723	-1.723	0	%100
41	MP3B	X	2.984	2.984	0	%100
42	MP3B	Z	-1.723	-1.723	0	%100
43	MP4B	X	2.984	2.984	0	%100
44	MP4B	Z	-1.723	-1.723	0	%100
45	M47	X	3.021	3.021	0	%100
46	M47	Z	-1.744	-1.744	0	%100



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Feb 25, 2021
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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, %]
47	M48	X	0	0	0	%100
48	M48	Z	0	0	0	%100
49	M49	X	.826	.826	0	%100
50	M49	Z	-.477	-.477	0	%100
51	M64	X	.826	.826	0	%100
52	M64	Z	-.477	-.477	0	%100
53	M72	X	.826	.826	0	%100
54	M72	Z	-.477	-.477	0	%100
55	M58	X	3.303	3.303	0	%100
56	M58	Z	-1.907	-1.907	0	%100
57	M65	X	3.303	3.303	0	%100
58	M65	Z	-1.907	-1.907	0	%100
59	M66	X	3.303	3.303	0	%100
60	M66	Z	-1.907	-1.907	0	%100
61	M67	X	.826	.826	0	%100
62	M67	Z	-.477	-.477	0	%100
63	M74	X	.826	.826	0	%100
64	M74	Z	-.477	-.477	0	%100
65	M75	X	.826	.826	0	%100
66	M75	Z	-.477	-.477	0	%100
67	M76	X	3.431	3.431	0	%100
68	M76	Z	-1.981	-1.981	0	%100
69	M77	X	.858	.858	0	%100
70	M77	Z	-.495	-.495	0	%100
71	M78	X	.858	.858	0	%100
72	M78	Z	-.495	-.495	0	%100
73	M79	X	2.057	2.057	0	%100
74	M79	Z	-1.188	-1.188	0	%100
75	M80	X	2.057	2.057	0	%100
76	M80	Z	-1.188	-1.188	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	0	0	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	.909	.909	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	4.033	4.033	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	4.033	4.033	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	4.033	4.033	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M13	X	4.033	4.033	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	0	0	0	%100
15	M10	X	1.163	1.163	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	3.635	3.635	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	.909	.909	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	3.446	3.446	0	%100



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Feb 25, 2021
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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, %]	
22	MP1A	Z	0	0	0	%100
23	MP2A	X	3.446	3.446	0	%100
24	MP2A	Z	0	0	0	%100
25	MP3A	X	3.446	3.446	0	%100
26	MP3A	Z	0	0	0	%100
27	MP4A	X	3.446	3.446	0	%100
28	MP4A	Z	0	0	0	%100
29	MP1C	X	3.446	3.446	0	%100
30	MP1C	Z	0	0	0	%100
31	MP2C	X	3.446	3.446	0	%100
32	MP2C	Z	0	0	0	%100
33	MP3C	X	3.446	3.446	0	%100
34	MP3C	Z	0	0	0	%100
35	MP4C	X	3.446	3.446	0	%100
36	MP4C	Z	0	0	0	%100
37	MP1B	X	3.446	3.446	0	%100
38	MP1B	Z	0	0	0	%100
39	MP2B	X	3.446	3.446	0	%100
40	MP2B	Z	0	0	0	%100
41	MP3B	X	3.446	3.446	0	%100
42	MP3B	Z	0	0	0	%100
43	MP4B	X	3.446	3.446	0	%100
44	MP4B	Z	0	0	0	%100
45	M47	X	4.651	4.651	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	1.163	1.163	0	%100
48	M48	Z	0	0	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	0	0	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	0	0	0	%100
55	M58	X	2.861	2.861	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	2.861	2.861	0	%100
58	M65	Z	0	0	0	%100
59	M66	X	2.861	2.861	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	2.861	2.861	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	2.861	2.861	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	2.861	2.861	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	2.972	2.972	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	2.972	2.972	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	0	0	0	%100
73	M79	X	.792	.792	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	3.167	3.167	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	.792	.792	0	%100
78	M81	Z	0	0	0	%100



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Feb 25, 2021
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Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	4.657	4.657	0	%100
4	M2	Z	2.689	2.689	0	%100
5	M3	X	4.657	4.657	0	%100
6	M3	Z	2.689	2.689	0	%100
7	M7	X	1.164	1.164	0	%100
8	M7	Z	.672	.672	0	%100
9	M9	X	1.164	1.164	0	%100
10	M9	Z	.672	.672	0	%100
11	M13	X	1.164	1.164	0	%100
12	M13	Z	.672	.672	0	%100
13	FACE	X	1.164	1.164	0	%100
14	FACE	Z	.672	.672	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	2.361	2.361	0	%100
18	M11	Z	1.363	1.363	0	%100
19	M14	X	2.361	2.361	0	%100
20	M14	Z	1.363	1.363	0	%100
21	MP1A	X	2.984	2.984	0	%100
22	MP1A	Z	1.723	1.723	0	%100
23	MP2A	X	2.984	2.984	0	%100
24	MP2A	Z	1.723	1.723	0	%100
25	MP3A	X	2.984	2.984	0	%100
26	MP3A	Z	1.723	1.723	0	%100
27	MP4A	X	2.984	2.984	0	%100
28	MP4A	Z	1.723	1.723	0	%100
29	MP1C	X	2.984	2.984	0	%100
30	MP1C	Z	1.723	1.723	0	%100
31	MP2C	X	2.984	2.984	0	%100
32	MP2C	Z	1.723	1.723	0	%100
33	MP3C	X	2.984	2.984	0	%100
34	MP3C	Z	1.723	1.723	0	%100
35	MP4C	X	2.984	2.984	0	%100
36	MP4C	Z	1.723	1.723	0	%100
37	MP1B	X	2.984	2.984	0	%100
38	MP1B	Z	1.723	1.723	0	%100
39	MP2B	X	2.984	2.984	0	%100
40	MP2B	Z	1.723	1.723	0	%100
41	MP3B	X	2.984	2.984	0	%100
42	MP3B	Z	1.723	1.723	0	%100
43	MP4B	X	2.984	2.984	0	%100
44	MP4B	Z	1.723	1.723	0	%100
45	M47	X	3.021	3.021	0	%100
46	M47	Z	1.744	1.744	0	%100
47	M48	X	3.021	3.021	0	%100
48	M48	Z	1.744	1.744	0	%100
49	M49	X	.826	.826	0	%100
50	M49	Z	.477	.477	0	%100
51	M64	X	.826	.826	0	%100
52	M64	Z	.477	.477	0	%100
53	M72	X	.826	.826	0	%100
54	M72	Z	.477	.477	0	%100
55	M58	X	.826	.826	0	%100
56	M58	Z	.477	.477	0	%100
57	M65	X	.826	.826	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
58	M65	Z	.477	.477	0	%100
59	M66	X	.826	.826	0	%100
60	M66	Z	.477	.477	0	%100
61	M67	X	3.303	3.303	0	%100
62	M67	Z	1.907	1.907	0	%100
63	M74	X	3.303	3.303	0	%100
64	M74	Z	1.907	1.907	0	%100
65	M75	X	3.303	3.303	0	%100
66	M75	Z	1.907	1.907	0	%100
67	M76	X	.858	.858	0	%100
68	M76	Z	.495	.495	0	%100
69	M77	X	3.431	3.431	0	%100
70	M77	Z	1.981	1.981	0	%100
71	M78	X	.858	.858	0	%100
72	M78	Z	.495	.495	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	2.057	2.057	0	%100
76	M80	Z	1.188	1.188	0	%100
77	M81	X	2.057	2.057	0	%100
78	M81	Z	1.188	1.188	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	.454	.454	0	%100
2	M1	Z	.787	.787	0	%100
3	M2	X	2.017	2.017	0	%100
4	M2	Z	3.493	3.493	0	%100
5	M3	X	2.017	2.017	0	%100
6	M3	Z	3.493	3.493	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	2.017	2.017	0	%100
10	M9	Z	3.493	3.493	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	2.017	2.017	0	%100
14	FACE	Z	3.493	3.493	0	%100
15	M10	X	.581	.581	0	%100
16	M10	Z	1.007	1.007	0	%100
17	M11	X	.454	.454	0	%100
18	M11	Z	.787	.787	0	%100
19	M14	X	1.818	1.818	0	%100
20	M14	Z	3.148	3.148	0	%100
21	MP1A	X	1.723	1.723	0	%100
22	MP1A	Z	2.984	2.984	0	%100
23	MP2A	X	1.723	1.723	0	%100
24	MP2A	Z	2.984	2.984	0	%100
25	MP3A	X	1.723	1.723	0	%100
26	MP3A	Z	2.984	2.984	0	%100
27	MP4A	X	1.723	1.723	0	%100
28	MP4A	Z	2.984	2.984	0	%100
29	MP1C	X	1.723	1.723	0	%100
30	MP1C	Z	2.984	2.984	0	%100
31	MP2C	X	1.723	1.723	0	%100
32	MP2C	Z	2.984	2.984	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
33	MP3C	X	1.723	1.723	0	%100
34	MP3C	Z	2.984	2.984	0	%100
35	MP4C	X	1.723	1.723	0	%100
36	MP4C	Z	2.984	2.984	0	%100
37	MP1B	X	1.723	1.723	0	%100
38	MP1B	Z	2.984	2.984	0	%100
39	MP2B	X	1.723	1.723	0	%100
40	MP2B	Z	2.984	2.984	0	%100
41	MP3B	X	1.723	1.723	0	%100
42	MP3B	Z	2.984	2.984	0	%100
43	MP4B	X	1.723	1.723	0	%100
44	MP4B	Z	2.984	2.984	0	%100
45	M47	X	.581	.581	0	%100
46	M47	Z	1.007	1.007	0	%100
47	M48	X	2.326	2.326	0	%100
48	M48	Z	4.028	4.028	0	%100
49	M49	X	1.43	1.43	0	%100
50	M49	Z	2.477	2.477	0	%100
51	M64	X	1.43	1.43	0	%100
52	M64	Z	2.477	2.477	0	%100
53	M72	X	1.43	1.43	0	%100
54	M72	Z	2.477	2.477	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	0	0	0	%100
58	M65	Z	0	0	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	1.43	1.43	0	%100
62	M67	Z	2.477	2.477	0	%100
63	M74	X	1.43	1.43	0	%100
64	M74	Z	2.477	2.477	0	%100
65	M75	X	1.43	1.43	0	%100
66	M75	Z	2.477	2.477	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	1.486	1.486	0	%100
70	M77	Z	2.574	2.574	0	%100
71	M78	X	1.486	1.486	0	%100
72	M78	Z	2.574	2.574	0	%100
73	M79	X	.396	.396	0	%100
74	M79	Z	.686	.686	0	%100
75	M80	X	.396	.396	0	%100
76	M80	Z	.686	.686	0	%100
77	M81	X	1.583	1.583	0	%100
78	M81	Z	2.743	2.743	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	2.726	2.726	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.344	1.344	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	1.344	1.344	0	%100
7	M7	X	0	0	0	%100



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 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
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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, %]
8	M7	Z	1.344	1.344	0 %100
9	M9	X	0	0	0 %100
10	M9	Z	5.378	5.378	0 %100
11	M13	X	0	0	0 %100
12	M13	Z	1.344	1.344	0 %100
13	FACE	X	0	0	0 %100
14	FACE	Z	5.378	5.378	0 %100
15	M10	X	0	0	0 %100
16	M10	Z	3.488	3.488	0 %100
17	M11	X	0	0	0 %100
18	M11	Z	0	0	0 %100
19	M14	X	0	0	0 %100
20	M14	Z	2.726	2.726	0 %100
21	MP1A	X	0	0	0 %100
22	MP1A	Z	3.446	3.446	0 %100
23	MP2A	X	0	0	0 %100
24	MP2A	Z	3.446	3.446	0 %100
25	MP3A	X	0	0	0 %100
26	MP3A	Z	3.446	3.446	0 %100
27	MP4A	X	0	0	0 %100
28	MP4A	Z	3.446	3.446	0 %100
29	MP1C	X	0	0	0 %100
30	MP1C	Z	3.446	3.446	0 %100
31	MP2C	X	0	0	0 %100
32	MP2C	Z	3.446	3.446	0 %100
33	MP3C	X	0	0	0 %100
34	MP3C	Z	3.446	3.446	0 %100
35	MP4C	X	0	0	0 %100
36	MP4C	Z	3.446	3.446	0 %100
37	MP1B	X	0	0	0 %100
38	MP1B	Z	3.446	3.446	0 %100
39	MP2B	X	0	0	0 %100
40	MP2B	Z	3.446	3.446	0 %100
41	MP3B	X	0	0	0 %100
42	MP3B	Z	3.446	3.446	0 %100
43	MP4B	X	0	0	0 %100
44	MP4B	Z	3.446	3.446	0 %100
45	M47	X	0	0	0 %100
46	M47	Z	0	0	0 %100
47	M48	X	0	0	0 %100
48	M48	Z	3.488	3.488	0 %100
49	M49	X	0	0	0 %100
50	M49	Z	3.814	3.814	0 %100
51	M64	X	0	0	0 %100
52	M64	Z	3.814	3.814	0 %100
53	M72	X	0	0	0 %100
54	M72	Z	3.814	3.814	0 %100
55	M58	X	0	0	0 %100
56	M58	Z	.954	.954	0 %100
57	M65	X	0	0	0 %100
58	M65	Z	.954	.954	0 %100
59	M66	X	0	0	0 %100
60	M66	Z	.954	.954	0 %100
61	M67	X	0	0	0 %100
62	M67	Z	.954	.954	0 %100
63	M74	X	0	0	0 %100
64	M74	Z	.954	.954	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	M75	X	0	0	0	%100
66	M75	Z	.954	.954	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	.991	.991	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	.991	.991	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	3.962	3.962	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	2.375	2.375	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	2.375	2.375	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	-1.818	-1.818	0	%100
2	M1	Z	3.148	3.148	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-2.017	-2.017	0	%100
8	M7	Z	3.493	3.493	0	%100
9	M9	X	-2.017	-2.017	0	%100
10	M9	Z	3.493	3.493	0	%100
11	M13	X	-2.017	-2.017	0	%100
12	M13	Z	3.493	3.493	0	%100
13	FACE	X	-2.017	-2.017	0	%100
14	FACE	Z	3.493	3.493	0	%100
15	M10	X	-2.326	-2.326	0	%100
16	M10	Z	4.028	4.028	0	%100
17	M11	X	-.454	-.454	0	%100
18	M11	Z	.787	.787	0	%100
19	M14	X	-.454	-.454	0	%100
20	M14	Z	.787	.787	0	%100
21	MP1A	X	-1.723	-1.723	0	%100
22	MP1A	Z	2.984	2.984	0	%100
23	MP2A	X	-1.723	-1.723	0	%100
24	MP2A	Z	2.984	2.984	0	%100
25	MP3A	X	-1.723	-1.723	0	%100
26	MP3A	Z	2.984	2.984	0	%100
27	MP4A	X	-1.723	-1.723	0	%100
28	MP4A	Z	2.984	2.984	0	%100
29	MP1C	X	-1.723	-1.723	0	%100
30	MP1C	Z	2.984	2.984	0	%100
31	MP2C	X	-1.723	-1.723	0	%100
32	MP2C	Z	2.984	2.984	0	%100
33	MP3C	X	-1.723	-1.723	0	%100
34	MP3C	Z	2.984	2.984	0	%100
35	MP4C	X	-1.723	-1.723	0	%100
36	MP4C	Z	2.984	2.984	0	%100
37	MP1B	X	-1.723	-1.723	0	%100
38	MP1B	Z	2.984	2.984	0	%100
39	MP2B	X	-1.723	-1.723	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
40	MP2B	Z	2.984	2.984	0	%100
41	MP3B	X	-1.723	-1.723	0	%100
42	MP3B	Z	2.984	2.984	0	%100
43	MP4B	X	-1.723	-1.723	0	%100
44	MP4B	Z	2.984	2.984	0	%100
45	M47	X	-.581	-.581	0	%100
46	M47	Z	1.007	1.007	0	%100
47	M48	X	-.581	-.581	0	%100
48	M48	Z	1.007	1.007	0	%100
49	M49	X	-1.43	-1.43	0	%100
50	M49	Z	2.477	2.477	0	%100
51	M64	X	-1.43	-1.43	0	%100
52	M64	Z	2.477	2.477	0	%100
53	M72	X	-1.43	-1.43	0	%100
54	M72	Z	2.477	2.477	0	%100
55	M58	X	-1.43	-1.43	0	%100
56	M58	Z	2.477	2.477	0	%100
57	M65	X	-1.43	-1.43	0	%100
58	M65	Z	2.477	2.477	0	%100
59	M66	X	-1.43	-1.43	0	%100
60	M66	Z	2.477	2.477	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	-1.486	-1.486	0	%100
68	M76	Z	2.574	2.574	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	-1.486	-1.486	0	%100
72	M78	Z	2.574	2.574	0	%100
73	M79	X	-1.583	-1.583	0	%100
74	M79	Z	2.743	2.743	0	%100
75	M80	X	-.396	-.396	0	%100
76	M80	Z	.686	.686	0	%100
77	M81	X	-.396	-.396	0	%100
78	M81	Z	.686	.686	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	-2.361	-2.361	0	%100
2	M1	Z	1.363	1.363	0	%100
3	M2	X	-1.164	-1.164	0	%100
4	M2	Z	.672	.672	0	%100
5	M3	X	-1.164	-1.164	0	%100
6	M3	Z	.672	.672	0	%100
7	M7	X	-4.657	-4.657	0	%100
8	M7	Z	2.689	2.689	0	%100
9	M9	X	-1.164	-1.164	0	%100
10	M9	Z	.672	.672	0	%100
11	M13	X	-4.657	-4.657	0	%100
12	M13	Z	2.689	2.689	0	%100
13	FACE	X	-1.164	-1.164	0	%100
14	FACE	Z	.672	.672	0	%100



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 Designer :
 Job Number :
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Feb 25, 2021
 8:12 PM
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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, %]
15	M10	X	-3.021	-3.021	0 %100
16	M10	Z	1.744	1.744	0 %100
17	M11	X	-2.361	-2.361	0 %100
18	M11	Z	1.363	1.363	0 %100
19	M14	X	0	0	0 %100
20	M14	Z	0	0	0 %100
21	MP1A	X	-2.984	-2.984	0 %100
22	MP1A	Z	1.723	1.723	0 %100
23	MP2A	X	-2.984	-2.984	0 %100
24	MP2A	Z	1.723	1.723	0 %100
25	MP3A	X	-2.984	-2.984	0 %100
26	MP3A	Z	1.723	1.723	0 %100
27	MP4A	X	-2.984	-2.984	0 %100
28	MP4A	Z	1.723	1.723	0 %100
29	MP1C	X	-2.984	-2.984	0 %100
30	MP1C	Z	1.723	1.723	0 %100
31	MP2C	X	-2.984	-2.984	0 %100
32	MP2C	Z	1.723	1.723	0 %100
33	MP3C	X	-2.984	-2.984	0 %100
34	MP3C	Z	1.723	1.723	0 %100
35	MP4C	X	-2.984	-2.984	0 %100
36	MP4C	Z	1.723	1.723	0 %100
37	MP1B	X	-2.984	-2.984	0 %100
38	MP1B	Z	1.723	1.723	0 %100
39	MP2B	X	-2.984	-2.984	0 %100
40	MP2B	Z	1.723	1.723	0 %100
41	MP3B	X	-2.984	-2.984	0 %100
42	MP3B	Z	1.723	1.723	0 %100
43	MP4B	X	-2.984	-2.984	0 %100
44	MP4B	Z	1.723	1.723	0 %100
45	M47	X	-3.021	-3.021	0 %100
46	M47	Z	1.744	1.744	0 %100
47	M48	X	0	0	0 %100
48	M48	Z	0	0	0 %100
49	M49	X	-0.826	-0.826	0 %100
50	M49	Z	0.477	0.477	0 %100
51	M64	X	-0.826	-0.826	0 %100
52	M64	Z	0.477	0.477	0 %100
53	M72	X	-0.826	-0.826	0 %100
54	M72	Z	0.477	0.477	0 %100
55	M58	X	-3.303	-3.303	0 %100
56	M58	Z	1.907	1.907	0 %100
57	M65	X	-3.303	-3.303	0 %100
58	M65	Z	1.907	1.907	0 %100
59	M66	X	-3.303	-3.303	0 %100
60	M66	Z	1.907	1.907	0 %100
61	M67	X	-0.826	-0.826	0 %100
62	M67	Z	0.477	0.477	0 %100
63	M74	X	-0.826	-0.826	0 %100
64	M74	Z	0.477	0.477	0 %100
65	M75	X	-0.826	-0.826	0 %100
66	M75	Z	0.477	0.477	0 %100
67	M76	X	-3.431	-3.431	0 %100
68	M76	Z	1.981	1.981	0 %100
69	M77	X	-0.858	-0.858	0 %100
70	M77	Z	0.495	0.495	0 %100
71	M78	X	-0.858	-0.858	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
72	M78	Z	.495	.495	0	%100
73	M79	X	-2.057	-2.057	0	%100
74	M79	Z	1.188	1.188	0	%100
75	M80	X	-2.057	-2.057	0	%100
76	M80	Z	1.188	1.188	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	0	0	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	-.909	-.909	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-4.033	-4.033	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-4.033	-4.033	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-4.033	-4.033	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M13	X	-4.033	-4.033	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	0	0	0	%100
15	M10	X	-1.163	-1.163	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-3.635	-3.635	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	-.909	-.909	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	-3.446	-3.446	0	%100
22	MP1A	Z	0	0	0	%100
23	MP2A	X	-3.446	-3.446	0	%100
24	MP2A	Z	0	0	0	%100
25	MP3A	X	-3.446	-3.446	0	%100
26	MP3A	Z	0	0	0	%100
27	MP4A	X	-3.446	-3.446	0	%100
28	MP4A	Z	0	0	0	%100
29	MP1C	X	-3.446	-3.446	0	%100
30	MP1C	Z	0	0	0	%100
31	MP2C	X	-3.446	-3.446	0	%100
32	MP2C	Z	0	0	0	%100
33	MP3C	X	-3.446	-3.446	0	%100
34	MP3C	Z	0	0	0	%100
35	MP4C	X	-3.446	-3.446	0	%100
36	MP4C	Z	0	0	0	%100
37	MP1B	X	-3.446	-3.446	0	%100
38	MP1B	Z	0	0	0	%100
39	MP2B	X	-3.446	-3.446	0	%100
40	MP2B	Z	0	0	0	%100
41	MP3B	X	-3.446	-3.446	0	%100
42	MP3B	Z	0	0	0	%100
43	MP4B	X	-3.446	-3.446	0	%100
44	MP4B	Z	0	0	0	%100
45	M47	X	-4.651	-4.651	0	%100
46	M47	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
47	M48	X	-1.163	-1.163	0	%100
48	M48	Z	0	0	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	0	0	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	0	0	0	%100
55	M58	X	-2.861	-2.861	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	-2.861	-2.861	0	%100
58	M65	Z	0	0	0	%100
59	M66	X	-2.861	-2.861	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	-2.861	-2.861	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	-2.861	-2.861	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	-2.861	-2.861	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	-2.972	-2.972	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	-2.972	-2.972	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	0	0	0	%100
73	M79	X	-0.792	-0.792	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	-3.167	-3.167	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	-0.792	-0.792	0	%100
78	M81	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	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-4.657	-4.657	0	%100
4	M2	Z	-2.689	-2.689	0	%100
5	M3	X	-4.657	-4.657	0	%100
6	M3	Z	-2.689	-2.689	0	%100
7	M7	X	-1.164	-1.164	0	%100
8	M7	Z	-0.672	-0.672	0	%100
9	M9	X	-1.164	-1.164	0	%100
10	M9	Z	-0.672	-0.672	0	%100
11	M13	X	-1.164	-1.164	0	%100
12	M13	Z	-0.672	-0.672	0	%100
13	FACE	X	-1.164	-1.164	0	%100
14	FACE	Z	-0.672	-0.672	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-2.361	-2.361	0	%100
18	M11	Z	-1.363	-1.363	0	%100
19	M14	X	-2.361	-2.361	0	%100
20	M14	Z	-1.363	-1.363	0	%100
21	MP1A	X	-2.984	-2.984	0	%100



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 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
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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, %]
22	MP1A	Z	-1.723	-1.723	0	%100
23	MP2A	X	-2.984	-2.984	0	%100
24	MP2A	Z	-1.723	-1.723	0	%100
25	MP3A	X	-2.984	-2.984	0	%100
26	MP3A	Z	-1.723	-1.723	0	%100
27	MP4A	X	-2.984	-2.984	0	%100
28	MP4A	Z	-1.723	-1.723	0	%100
29	MP1C	X	-2.984	-2.984	0	%100
30	MP1C	Z	-1.723	-1.723	0	%100
31	MP2C	X	-2.984	-2.984	0	%100
32	MP2C	Z	-1.723	-1.723	0	%100
33	MP3C	X	-2.984	-2.984	0	%100
34	MP3C	Z	-1.723	-1.723	0	%100
35	MP4C	X	-2.984	-2.984	0	%100
36	MP4C	Z	-1.723	-1.723	0	%100
37	MP1B	X	-2.984	-2.984	0	%100
38	MP1B	Z	-1.723	-1.723	0	%100
39	MP2B	X	-2.984	-2.984	0	%100
40	MP2B	Z	-1.723	-1.723	0	%100
41	MP3B	X	-2.984	-2.984	0	%100
42	MP3B	Z	-1.723	-1.723	0	%100
43	MP4B	X	-2.984	-2.984	0	%100
44	MP4B	Z	-1.723	-1.723	0	%100
45	M47	X	-3.021	-3.021	0	%100
46	M47	Z	-1.744	-1.744	0	%100
47	M48	X	-3.021	-3.021	0	%100
48	M48	Z	-1.744	-1.744	0	%100
49	M49	X	-.826	-.826	0	%100
50	M49	Z	-.477	-.477	0	%100
51	M64	X	-.826	-.826	0	%100
52	M64	Z	-.477	-.477	0	%100
53	M72	X	-.826	-.826	0	%100
54	M72	Z	-.477	-.477	0	%100
55	M58	X	-.826	-.826	0	%100
56	M58	Z	-.477	-.477	0	%100
57	M65	X	-.826	-.826	0	%100
58	M65	Z	-.477	-.477	0	%100
59	M66	X	-.826	-.826	0	%100
60	M66	Z	-.477	-.477	0	%100
61	M67	X	-3.303	-3.303	0	%100
62	M67	Z	-1.907	-1.907	0	%100
63	M74	X	-3.303	-3.303	0	%100
64	M74	Z	-1.907	-1.907	0	%100
65	M75	X	-3.303	-3.303	0	%100
66	M75	Z	-1.907	-1.907	0	%100
67	M76	X	-.858	-.858	0	%100
68	M76	Z	-.495	-.495	0	%100
69	M77	X	-3.431	-3.431	0	%100
70	M77	Z	-1.981	-1.981	0	%100
71	M78	X	-.858	-.858	0	%100
72	M78	Z	-.495	-.495	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	-2.057	-2.057	0	%100
76	M80	Z	-1.188	-1.188	0	%100
77	M81	X	-2.057	-2.057	0	%100
78	M81	Z	-1.188	-1.188	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	- .454	- .454	0	%100
2	M1	Z	- .787	- .787	0	%100
3	M2	X	-2.017	-2.017	0	%100
4	M2	Z	-3.493	-3.493	0	%100
5	M3	X	-2.017	-2.017	0	%100
6	M3	Z	-3.493	-3.493	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	-2.017	-2.017	0	%100
10	M9	Z	-3.493	-3.493	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	-2.017	-2.017	0	%100
14	FACE	Z	-3.493	-3.493	0	%100
15	M10	X	- .581	- .581	0	%100
16	M10	Z	-1.007	-1.007	0	%100
17	M11	X	- .454	- .454	0	%100
18	M11	Z	- .787	- .787	0	%100
19	M14	X	-1.818	-1.818	0	%100
20	M14	Z	-3.148	-3.148	0	%100
21	MP1A	X	-1.723	-1.723	0	%100
22	MP1A	Z	-2.984	-2.984	0	%100
23	MP2A	X	-1.723	-1.723	0	%100
24	MP2A	Z	-2.984	-2.984	0	%100
25	MP3A	X	-1.723	-1.723	0	%100
26	MP3A	Z	-2.984	-2.984	0	%100
27	MP4A	X	-1.723	-1.723	0	%100
28	MP4A	Z	-2.984	-2.984	0	%100
29	MP1C	X	-1.723	-1.723	0	%100
30	MP1C	Z	-2.984	-2.984	0	%100
31	MP2C	X	-1.723	-1.723	0	%100
32	MP2C	Z	-2.984	-2.984	0	%100
33	MP3C	X	-1.723	-1.723	0	%100
34	MP3C	Z	-2.984	-2.984	0	%100
35	MP4C	X	-1.723	-1.723	0	%100
36	MP4C	Z	-2.984	-2.984	0	%100
37	MP1B	X	-1.723	-1.723	0	%100
38	MP1B	Z	-2.984	-2.984	0	%100
39	MP2B	X	-1.723	-1.723	0	%100
40	MP2B	Z	-2.984	-2.984	0	%100
41	MP3B	X	-1.723	-1.723	0	%100
42	MP3B	Z	-2.984	-2.984	0	%100
43	MP4B	X	-1.723	-1.723	0	%100
44	MP4B	Z	-2.984	-2.984	0	%100
45	M47	X	- .581	- .581	0	%100
46	M47	Z	-1.007	-1.007	0	%100
47	M48	X	-2.326	-2.326	0	%100
48	M48	Z	-4.028	-4.028	0	%100
49	M49	X	-1.43	-1.43	0	%100
50	M49	Z	-2.477	-2.477	0	%100
51	M64	X	-1.43	-1.43	0	%100
52	M64	Z	-2.477	-2.477	0	%100
53	M72	X	-1.43	-1.43	0	%100
54	M72	Z	-2.477	-2.477	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
58	M65	Z	0	0	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	-1.43	-1.43	0	%100
62	M67	Z	-2.477	-2.477	0	%100
63	M74	X	-1.43	-1.43	0	%100
64	M74	Z	-2.477	-2.477	0	%100
65	M75	X	-1.43	-1.43	0	%100
66	M75	Z	-2.477	-2.477	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	-1.486	-1.486	0	%100
70	M77	Z	-2.574	-2.574	0	%100
71	M78	X	-1.486	-1.486	0	%100
72	M78	Z	-2.574	-2.574	0	%100
73	M79	X	-.396	-.396	0	%100
74	M79	Z	-.686	-.686	0	%100
75	M80	X	-.396	-.396	0	%100
76	M80	Z	-.686	-.686	0	%100
77	M81	X	-1.583	-1.583	0	%100
78	M81	Z	-2.743	-2.743	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	-.613	-.613	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.331	-.331	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.331	-.331	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	-.331	-.331	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	-1.324	-1.324	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	-.331	-.331	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	-1.324	-1.324	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-.838	-.838	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	-.613	-.613	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	-.629	-.629	0	%100
23	MP2A	X	0	0	0	%100
24	MP2A	Z	-.629	-.629	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	-.629	-.629	0	%100
27	MP4A	X	0	0	0	%100
28	MP4A	Z	-.629	-.629	0	%100
29	MP1C	X	0	0	0	%100
30	MP1C	Z	-.629	-.629	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	-.629	-.629	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
33	MP3C	X	0	0	0	%100
34	MP3C	Z	-.629	-.629	0	%100
35	MP4C	X	0	0	0	%100
36	MP4C	Z	-.629	-.629	0	%100
37	MP1B	X	0	0	0	%100
38	MP1B	Z	-.629	-.629	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	-.629	-.629	0	%100
41	MP3B	X	0	0	0	%100
42	MP3B	Z	-.629	-.629	0	%100
43	MP4B	X	0	0	0	%100
44	MP4B	Z	-.629	-.629	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	0	0	0	%100
48	M48	Z	-.838	-.838	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	-.762	-.762	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	-.762	-.762	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	-.762	-.762	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	-.19	-.19	0	%100
57	M65	X	0	0	0	%100
58	M65	Z	-.19	-.19	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	-.19	-.19	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	-.19	-.19	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	-.19	-.19	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	-.19	-.19	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	-.242	-.242	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	-.242	-.242	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	-.968	-.968	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	-.486	-.486	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	-.486	-.486	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	.409	.409	0	%100
2	M1	Z	-.708	-.708	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	.497	.497	0	%100



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 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
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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	M7	Z	-86	-86	0 %100
9	M9	X	.497	.497	0 %100
10	M9	Z	-86	-86	0 %100
11	M13	X	.497	.497	0 %100
12	M13	Z	-86	-86	0 %100
13	FACE	X	.497	.497	0 %100
14	FACE	Z	-86	-86	0 %100
15	M10	X	.558	.558	0 %100
16	M10	Z	-.967	-.967	0 %100
17	M11	X	.102	.102	0 %100
18	M11	Z	-.177	-.177	0 %100
19	M14	X	.102	.102	0 %100
20	M14	Z	-.177	-.177	0 %100
21	MP1A	X	.315	.315	0 %100
22	MP1A	Z	-.545	-.545	0 %100
23	MP2A	X	.315	.315	0 %100
24	MP2A	Z	-.545	-.545	0 %100
25	MP3A	X	.315	.315	0 %100
26	MP3A	Z	-.545	-.545	0 %100
27	MP4A	X	.315	.315	0 %100
28	MP4A	Z	-.545	-.545	0 %100
29	MP1C	X	.315	.315	0 %100
30	MP1C	Z	-.545	-.545	0 %100
31	MP2C	X	.315	.315	0 %100
32	MP2C	Z	-.545	-.545	0 %100
33	MP3C	X	.315	.315	0 %100
34	MP3C	Z	-.545	-.545	0 %100
35	MP4C	X	.315	.315	0 %100
36	MP4C	Z	-.545	-.545	0 %100
37	MP1B	X	.315	.315	0 %100
38	MP1B	Z	-.545	-.545	0 %100
39	MP2B	X	.315	.315	0 %100
40	MP2B	Z	-.545	-.545	0 %100
41	MP3B	X	.315	.315	0 %100
42	MP3B	Z	-.545	-.545	0 %100
43	MP4B	X	.315	.315	0 %100
44	MP4B	Z	-.545	-.545	0 %100
45	M47	X	.14	.14	0 %100
46	M47	Z	-.242	-.242	0 %100
47	M48	X	.14	.14	0 %100
48	M48	Z	-.242	-.242	0 %100
49	M49	X	.286	.286	0 %100
50	M49	Z	-.495	-.495	0 %100
51	M64	X	.286	.286	0 %100
52	M64	Z	-.495	-.495	0 %100
53	M72	X	.286	.286	0 %100
54	M72	Z	-.495	-.495	0 %100
55	M58	X	.286	.286	0 %100
56	M58	Z	-.495	-.495	0 %100
57	M65	X	.286	.286	0 %100
58	M65	Z	-.495	-.495	0 %100
59	M66	X	.286	.286	0 %100
60	M66	Z	-.495	-.495	0 %100
61	M67	X	0	0	0 %100
62	M67	Z	0	0	0 %100
63	M74	X	0	0	0 %100
64	M74	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
65	M75	X	0	0	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	.363	.363	0	%100
68	M76	Z	-.629	-.629	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	.363	.363	0	%100
72	M78	Z	-.629	-.629	0	%100
73	M79	X	.324	.324	0	%100
74	M79	Z	-.562	-.562	0	%100
75	M80	X	.081	.081	0	%100
76	M80	Z	-.14	-.14	0	%100
77	M81	X	.081	.081	0	%100
78	M81	Z	-.14	-.14	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	.531	.531	0	%100
2	M1	Z	-.306	-.306	0	%100
3	M2	X	.287	.287	0	%100
4	M2	Z	-.166	-.166	0	%100
5	M3	X	.287	.287	0	%100
6	M3	Z	-.166	-.166	0	%100
7	M7	X	1.147	1.147	0	%100
8	M7	Z	-.662	-.662	0	%100
9	M9	X	.287	.287	0	%100
10	M9	Z	-.166	-.166	0	%100
11	M13	X	1.147	1.147	0	%100
12	M13	Z	-.662	-.662	0	%100
13	FACE	X	.287	.287	0	%100
14	FACE	Z	-.166	-.166	0	%100
15	M10	X	.725	.725	0	%100
16	M10	Z	-.419	-.419	0	%100
17	M11	X	.531	.531	0	%100
18	M11	Z	-.306	-.306	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	.545	.545	0	%100
22	MP1A	Z	-.315	-.315	0	%100
23	MP2A	X	.545	.545	0	%100
24	MP2A	Z	-.315	-.315	0	%100
25	MP3A	X	.545	.545	0	%100
26	MP3A	Z	-.315	-.315	0	%100
27	MP4A	X	.545	.545	0	%100
28	MP4A	Z	-.315	-.315	0	%100
29	MP1C	X	.545	.545	0	%100
30	MP1C	Z	-.315	-.315	0	%100
31	MP2C	X	.545	.545	0	%100
32	MP2C	Z	-.315	-.315	0	%100
33	MP3C	X	.545	.545	0	%100
34	MP3C	Z	-.315	-.315	0	%100
35	MP4C	X	.545	.545	0	%100
36	MP4C	Z	-.315	-.315	0	%100
37	MP1B	X	.545	.545	0	%100
38	MP1B	Z	-.315	-.315	0	%100
39	MP2B	X	.545	.545	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
40	MP2B	Z	-.315	-.315	0	%100
41	MP3B	X	.545	.545	0	%100
42	MP3B	Z	-.315	-.315	0	%100
43	MP4B	X	.545	.545	0	%100
44	MP4B	Z	-.315	-.315	0	%100
45	M47	X	.725	.725	0	%100
46	M47	Z	-.419	-.419	0	%100
47	M48	X	0	0	0	%100
48	M48	Z	0	0	0	%100
49	M49	X	.165	.165	0	%100
50	M49	Z	-.095	-.095	0	%100
51	M64	X	.165	.165	0	%100
52	M64	Z	-.095	-.095	0	%100
53	M72	X	.165	.165	0	%100
54	M72	Z	-.095	-.095	0	%100
55	M58	X	.66	.66	0	%100
56	M58	Z	-.381	-.381	0	%100
57	M65	X	.66	.66	0	%100
58	M65	Z	-.381	-.381	0	%100
59	M66	X	.66	.66	0	%100
60	M66	Z	-.381	-.381	0	%100
61	M67	X	.165	.165	0	%100
62	M67	Z	-.095	-.095	0	%100
63	M74	X	.165	.165	0	%100
64	M74	Z	-.095	-.095	0	%100
65	M75	X	.165	.165	0	%100
66	M75	Z	-.095	-.095	0	%100
67	M76	X	.838	.838	0	%100
68	M76	Z	-.484	-.484	0	%100
69	M77	X	.21	.21	0	%100
70	M77	Z	-.121	-.121	0	%100
71	M78	X	.21	.21	0	%100
72	M78	Z	-.121	-.121	0	%100
73	M79	X	.421	.421	0	%100
74	M79	Z	-.243	-.243	0	%100
75	M80	X	.421	.421	0	%100
76	M80	Z	-.243	-.243	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	0	0	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	.204	.204	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.993	.993	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.993	.993	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	.993	.993	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M13	X	.993	.993	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
15	M10	X	.279	.279	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	.817	.817	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	.204	.204	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	.629	.629	0	%100
22	MP1A	Z	0	0	0	%100
23	MP2A	X	.629	.629	0	%100
24	MP2A	Z	0	0	0	%100
25	MP3A	X	.629	.629	0	%100
26	MP3A	Z	0	0	0	%100
27	MP4A	X	.629	.629	0	%100
28	MP4A	Z	0	0	0	%100
29	MP1C	X	.629	.629	0	%100
30	MP1C	Z	0	0	0	%100
31	MP2C	X	.629	.629	0	%100
32	MP2C	Z	0	0	0	%100
33	MP3C	X	.629	.629	0	%100
34	MP3C	Z	0	0	0	%100
35	MP4C	X	.629	.629	0	%100
36	MP4C	Z	0	0	0	%100
37	MP1B	X	.629	.629	0	%100
38	MP1B	Z	0	0	0	%100
39	MP2B	X	.629	.629	0	%100
40	MP2B	Z	0	0	0	%100
41	MP3B	X	.629	.629	0	%100
42	MP3B	Z	0	0	0	%100
43	MP4B	X	.629	.629	0	%100
44	MP4B	Z	0	0	0	%100
45	M47	X	1.117	1.117	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	.279	.279	0	%100
48	M48	Z	0	0	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	0	0	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	0	0	0	%100
55	M58	X	.571	.571	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	.571	.571	0	%100
58	M65	Z	0	0	0	%100
59	M66	X	.571	.571	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	.571	.571	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	.571	.571	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	.571	.571	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	.726	.726	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	.726	.726	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
72	M78	Z	0	0	0	%100
73	M79	X	.162	.162	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	.649	.649	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	.162	.162	0	%100
78	M81	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	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	1.147	1.147	0	%100
4	M2	Z	.662	.662	0	%100
5	M3	X	1.147	1.147	0	%100
6	M3	Z	.662	.662	0	%100
7	M7	X	.287	.287	0	%100
8	M7	Z	.166	.166	0	%100
9	M9	X	.287	.287	0	%100
10	M9	Z	.166	.166	0	%100
11	M13	X	.287	.287	0	%100
12	M13	Z	.166	.166	0	%100
13	FACE	X	.287	.287	0	%100
14	FACE	Z	.166	.166	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	.531	.531	0	%100
18	M11	Z	.306	.306	0	%100
19	M14	X	.531	.531	0	%100
20	M14	Z	.306	.306	0	%100
21	MP1A	X	.545	.545	0	%100
22	MP1A	Z	.315	.315	0	%100
23	MP2A	X	.545	.545	0	%100
24	MP2A	Z	.315	.315	0	%100
25	MP3A	X	.545	.545	0	%100
26	MP3A	Z	.315	.315	0	%100
27	MP4A	X	.545	.545	0	%100
28	MP4A	Z	.315	.315	0	%100
29	MP1C	X	.545	.545	0	%100
30	MP1C	Z	.315	.315	0	%100
31	MP2C	X	.545	.545	0	%100
32	MP2C	Z	.315	.315	0	%100
33	MP3C	X	.545	.545	0	%100
34	MP3C	Z	.315	.315	0	%100
35	MP4C	X	.545	.545	0	%100
36	MP4C	Z	.315	.315	0	%100
37	MP1B	X	.545	.545	0	%100
38	MP1B	Z	.315	.315	0	%100
39	MP2B	X	.545	.545	0	%100
40	MP2B	Z	.315	.315	0	%100
41	MP3B	X	.545	.545	0	%100
42	MP3B	Z	.315	.315	0	%100
43	MP4B	X	.545	.545	0	%100
44	MP4B	Z	.315	.315	0	%100
45	M47	X	.725	.725	0	%100
46	M47	Z	.419	.419	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
47	M48	X	.725	.725	0	%100
48	M48	Z	.419	.419	0	%100
49	M49	X	.165	.165	0	%100
50	M49	Z	.095	.095	0	%100
51	M64	X	.165	.165	0	%100
52	M64	Z	.095	.095	0	%100
53	M72	X	.165	.165	0	%100
54	M72	Z	.095	.095	0	%100
55	M58	X	.165	.165	0	%100
56	M58	Z	.095	.095	0	%100
57	M65	X	.165	.165	0	%100
58	M65	Z	.095	.095	0	%100
59	M66	X	.165	.165	0	%100
60	M66	Z	.095	.095	0	%100
61	M67	X	.66	.66	0	%100
62	M67	Z	.381	.381	0	%100
63	M74	X	.66	.66	0	%100
64	M74	Z	.381	.381	0	%100
65	M75	X	.66	.66	0	%100
66	M75	Z	.381	.381	0	%100
67	M76	X	.21	.21	0	%100
68	M76	Z	.121	.121	0	%100
69	M77	X	.838	.838	0	%100
70	M77	Z	.484	.484	0	%100
71	M78	X	.21	.21	0	%100
72	M78	Z	.121	.121	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	.421	.421	0	%100
76	M80	Z	.243	.243	0	%100
77	M81	X	.421	.421	0	%100
78	M81	Z	.243	.243	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	.102	.102	0	%100
2	M1	Z	.177	.177	0	%100
3	M2	X	.497	.497	0	%100
4	M2	Z	.86	.86	0	%100
5	M3	X	.497	.497	0	%100
6	M3	Z	.86	.86	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	.497	.497	0	%100
10	M9	Z	.86	.86	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	.497	.497	0	%100
14	FACE	Z	.86	.86	0	%100
15	M10	X	.14	.14	0	%100
16	M10	Z	.242	.242	0	%100
17	M11	X	.102	.102	0	%100
18	M11	Z	.177	.177	0	%100
19	M14	X	.409	.409	0	%100
20	M14	Z	.708	.708	0	%100
21	MP1A	X	.315	.315	0	%100



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 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
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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, %]
22	MP1A	Z	.545	.545	0 %100
23	MP2A	X	.315	.315	0 %100
24	MP2A	Z	.545	.545	0 %100
25	MP3A	X	.315	.315	0 %100
26	MP3A	Z	.545	.545	0 %100
27	MP4A	X	.315	.315	0 %100
28	MP4A	Z	.545	.545	0 %100
29	MP1C	X	.315	.315	0 %100
30	MP1C	Z	.545	.545	0 %100
31	MP2C	X	.315	.315	0 %100
32	MP2C	Z	.545	.545	0 %100
33	MP3C	X	.315	.315	0 %100
34	MP3C	Z	.545	.545	0 %100
35	MP4C	X	.315	.315	0 %100
36	MP4C	Z	.545	.545	0 %100
37	MP1B	X	.315	.315	0 %100
38	MP1B	Z	.545	.545	0 %100
39	MP2B	X	.315	.315	0 %100
40	MP2B	Z	.545	.545	0 %100
41	MP3B	X	.315	.315	0 %100
42	MP3B	Z	.545	.545	0 %100
43	MP4B	X	.315	.315	0 %100
44	MP4B	Z	.545	.545	0 %100
45	M47	X	.14	.14	0 %100
46	M47	Z	.242	.242	0 %100
47	M48	X	.558	.558	0 %100
48	M48	Z	.967	.967	0 %100
49	M49	X	.286	.286	0 %100
50	M49	Z	.495	.495	0 %100
51	M64	X	.286	.286	0 %100
52	M64	Z	.495	.495	0 %100
53	M72	X	.286	.286	0 %100
54	M72	Z	.495	.495	0 %100
55	M58	X	0	0	0 %100
56	M58	Z	0	0	0 %100
57	M65	X	0	0	0 %100
58	M65	Z	0	0	0 %100
59	M66	X	0	0	0 %100
60	M66	Z	0	0	0 %100
61	M67	X	.286	.286	0 %100
62	M67	Z	.495	.495	0 %100
63	M74	X	.286	.286	0 %100
64	M74	Z	.495	.495	0 %100
65	M75	X	.286	.286	0 %100
66	M75	Z	.495	.495	0 %100
67	M76	X	0	0	0 %100
68	M76	Z	0	0	0 %100
69	M77	X	.363	.363	0 %100
70	M77	Z	.629	.629	0 %100
71	M78	X	.363	.363	0 %100
72	M78	Z	.629	.629	0 %100
73	M79	X	.081	.081	0 %100
74	M79	Z	.14	.14	0 %100
75	M80	X	.081	.081	0 %100
76	M80	Z	.14	.14	0 %100
77	M81	X	.324	.324	0 %100
78	M81	Z	.562	.562	0 %100



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 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

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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	.613	.613	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.331	.331	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	.331	.331	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	.331	.331	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	1.324	1.324	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	.331	.331	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	1.324	1.324	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	.838	.838	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	.613	.613	0	%100
21	MP1A	X	0	0	0	%100
22	MP1A	Z	.629	.629	0	%100
23	MP2A	X	0	0	0	%100
24	MP2A	Z	.629	.629	0	%100
25	MP3A	X	0	0	0	%100
26	MP3A	Z	.629	.629	0	%100
27	MP4A	X	0	0	0	%100
28	MP4A	Z	.629	.629	0	%100
29	MP1C	X	0	0	0	%100
30	MP1C	Z	.629	.629	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	.629	.629	0	%100
33	MP3C	X	0	0	0	%100
34	MP3C	Z	.629	.629	0	%100
35	MP4C	X	0	0	0	%100
36	MP4C	Z	.629	.629	0	%100
37	MP1B	X	0	0	0	%100
38	MP1B	Z	.629	.629	0	%100
39	MP2B	X	0	0	0	%100
40	MP2B	Z	.629	.629	0	%100
41	MP3B	X	0	0	0	%100
42	MP3B	Z	.629	.629	0	%100
43	MP4B	X	0	0	0	%100
44	MP4B	Z	.629	.629	0	%100
45	M47	X	0	0	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	0	0	0	%100
48	M48	Z	.838	.838	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	.762	.762	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	.762	.762	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	.762	.762	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	.19	.19	0	%100
57	M65	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
58	M65	Z	.19	.19	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	.19	.19	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	.19	.19	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	.19	.19	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	.19	.19	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	.242	.242	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	.242	.242	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	.968	.968	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	.486	.486	0	%100
75	M80	X	0	0	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	.486	.486	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	-.409	-.409	0	%100
2	M1	Z	.708	.708	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-.497	-.497	0	%100
8	M7	Z	.86	.86	0	%100
9	M9	X	-.497	-.497	0	%100
10	M9	Z	.86	.86	0	%100
11	M13	X	-.497	-.497	0	%100
12	M13	Z	.86	.86	0	%100
13	FACE	X	-.497	-.497	0	%100
14	FACE	Z	.86	.86	0	%100
15	M10	X	-.558	-.558	0	%100
16	M10	Z	.967	.967	0	%100
17	M11	X	-.102	-.102	0	%100
18	M11	Z	.177	.177	0	%100
19	M14	X	-.102	-.102	0	%100
20	M14	Z	.177	.177	0	%100
21	MP1A	X	-.315	-.315	0	%100
22	MP1A	Z	.545	.545	0	%100
23	MP2A	X	-.315	-.315	0	%100
24	MP2A	Z	.545	.545	0	%100
25	MP3A	X	-.315	-.315	0	%100
26	MP3A	Z	.545	.545	0	%100
27	MP4A	X	-.315	-.315	0	%100
28	MP4A	Z	.545	.545	0	%100
29	MP1C	X	-.315	-.315	0	%100
30	MP1C	Z	.545	.545	0	%100
31	MP2C	X	-.315	-.315	0	%100
32	MP2C	Z	.545	.545	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
33	MP3C	X	-.315	-.315	0	%100
34	MP3C	Z	.545	.545	0	%100
35	MP4C	X	-.315	-.315	0	%100
36	MP4C	Z	.545	.545	0	%100
37	MP1B	X	-.315	-.315	0	%100
38	MP1B	Z	.545	.545	0	%100
39	MP2B	X	-.315	-.315	0	%100
40	MP2B	Z	.545	.545	0	%100
41	MP3B	X	-.315	-.315	0	%100
42	MP3B	Z	.545	.545	0	%100
43	MP4B	X	-.315	-.315	0	%100
44	MP4B	Z	.545	.545	0	%100
45	M47	X	-.14	-.14	0	%100
46	M47	Z	.242	.242	0	%100
47	M48	X	-.14	-.14	0	%100
48	M48	Z	.242	.242	0	%100
49	M49	X	-.286	-.286	0	%100
50	M49	Z	.495	.495	0	%100
51	M64	X	-.286	-.286	0	%100
52	M64	Z	.495	.495	0	%100
53	M72	X	-.286	-.286	0	%100
54	M72	Z	.495	.495	0	%100
55	M58	X	-.286	-.286	0	%100
56	M58	Z	.495	.495	0	%100
57	M65	X	-.286	-.286	0	%100
58	M65	Z	.495	.495	0	%100
59	M66	X	-.286	-.286	0	%100
60	M66	Z	.495	.495	0	%100
61	M67	X	0	0	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	0	0	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	0	0	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	-.363	-.363	0	%100
68	M76	Z	.629	.629	0	%100
69	M77	X	0	0	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	-.363	-.363	0	%100
72	M78	Z	.629	.629	0	%100
73	M79	X	-.324	-.324	0	%100
74	M79	Z	.562	.562	0	%100
75	M80	X	-.081	-.081	0	%100
76	M80	Z	.14	.14	0	%100
77	M81	X	-.081	-.081	0	%100
78	M81	Z	.14	.14	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	-.531	-.531	0	%100
2	M1	Z	.306	.306	0	%100
3	M2	X	-.287	-.287	0	%100
4	M2	Z	.166	.166	0	%100
5	M3	X	-.287	-.287	0	%100
6	M3	Z	.166	.166	0	%100
7	M7	X	-1.147	-1.147	0	%100



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 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, %]
8	M7	Z	.662	.662	0 %100
9	M9	X	-.287	-.287	0 %100
10	M9	Z	.166	.166	0 %100
11	M13	X	-1.147	-1.147	0 %100
12	M13	Z	.662	.662	0 %100
13	FACE	X	-.287	-.287	0 %100
14	FACE	Z	.166	.166	0 %100
15	M10	X	-.725	-.725	0 %100
16	M10	Z	.419	.419	0 %100
17	M11	X	-.531	-.531	0 %100
18	M11	Z	.306	.306	0 %100
19	M14	X	0	0	0 %100
20	M14	Z	0	0	0 %100
21	MP1A	X	-.545	-.545	0 %100
22	MP1A	Z	.315	.315	0 %100
23	MP2A	X	-.545	-.545	0 %100
24	MP2A	Z	.315	.315	0 %100
25	MP3A	X	-.545	-.545	0 %100
26	MP3A	Z	.315	.315	0 %100
27	MP4A	X	-.545	-.545	0 %100
28	MP4A	Z	.315	.315	0 %100
29	MP1C	X	-.545	-.545	0 %100
30	MP1C	Z	.315	.315	0 %100
31	MP2C	X	-.545	-.545	0 %100
32	MP2C	Z	.315	.315	0 %100
33	MP3C	X	-.545	-.545	0 %100
34	MP3C	Z	.315	.315	0 %100
35	MP4C	X	-.545	-.545	0 %100
36	MP4C	Z	.315	.315	0 %100
37	MP1B	X	-.545	-.545	0 %100
38	MP1B	Z	.315	.315	0 %100
39	MP2B	X	-.545	-.545	0 %100
40	MP2B	Z	.315	.315	0 %100
41	MP3B	X	-.545	-.545	0 %100
42	MP3B	Z	.315	.315	0 %100
43	MP4B	X	-.545	-.545	0 %100
44	MP4B	Z	.315	.315	0 %100
45	M47	X	-.725	-.725	0 %100
46	M47	Z	.419	.419	0 %100
47	M48	X	0	0	0 %100
48	M48	Z	0	0	0 %100
49	M49	X	-.165	-.165	0 %100
50	M49	Z	.095	.095	0 %100
51	M64	X	-.165	-.165	0 %100
52	M64	Z	.095	.095	0 %100
53	M72	X	-.165	-.165	0 %100
54	M72	Z	.095	.095	0 %100
55	M58	X	-.66	-.66	0 %100
56	M58	Z	.381	.381	0 %100
57	M65	X	-.66	-.66	0 %100
58	M65	Z	.381	.381	0 %100
59	M66	X	-.66	-.66	0 %100
60	M66	Z	.381	.381	0 %100
61	M67	X	-.165	-.165	0 %100
62	M67	Z	.095	.095	0 %100
63	M74	X	-.165	-.165	0 %100
64	M74	Z	.095	.095	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	M75	X	-.165	-.165	0	%100
66	M75	Z	.095	.095	0	%100
67	M76	X	-.838	-.838	0	%100
68	M76	Z	.484	.484	0	%100
69	M77	X	-.21	-.21	0	%100
70	M77	Z	.121	.121	0	%100
71	M78	X	-.21	-.21	0	%100
72	M78	Z	.121	.121	0	%100
73	M79	X	-.421	-.421	0	%100
74	M79	Z	.243	.243	0	%100
75	M80	X	-.421	-.421	0	%100
76	M80	Z	.243	.243	0	%100
77	M81	X	0	0	0	%100
78	M81	Z	0	0	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	-.204	-.204	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.993	-.993	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.993	-.993	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-.993	-.993	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	0	0	0	%100
11	M13	X	-.993	-.993	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	0	0	0	%100
14	FACE	Z	0	0	0	%100
15	M10	X	-.279	-.279	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-.817	-.817	0	%100
18	M11	Z	0	0	0	%100
19	M14	X	-.204	-.204	0	%100
20	M14	Z	0	0	0	%100
21	MP1A	X	-.629	-.629	0	%100
22	MP1A	Z	0	0	0	%100
23	MP2A	X	-.629	-.629	0	%100
24	MP2A	Z	0	0	0	%100
25	MP3A	X	-.629	-.629	0	%100
26	MP3A	Z	0	0	0	%100
27	MP4A	X	-.629	-.629	0	%100
28	MP4A	Z	0	0	0	%100
29	MP1C	X	-.629	-.629	0	%100
30	MP1C	Z	0	0	0	%100
31	MP2C	X	-.629	-.629	0	%100
32	MP2C	Z	0	0	0	%100
33	MP3C	X	-.629	-.629	0	%100
34	MP3C	Z	0	0	0	%100
35	MP4C	X	-.629	-.629	0	%100
36	MP4C	Z	0	0	0	%100
37	MP1B	X	-.629	-.629	0	%100
38	MP1B	Z	0	0	0	%100
39	MP2B	X	-.629	-.629	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
40	MP2B	Z	0	0	0	%100
41	MP3B	X	-0.629	-0.629	0	%100
42	MP3B	Z	0	0	0	%100
43	MP4B	X	-0.629	-0.629	0	%100
44	MP4B	Z	0	0	0	%100
45	M47	X	-1.117	-1.117	0	%100
46	M47	Z	0	0	0	%100
47	M48	X	-0.279	-0.279	0	%100
48	M48	Z	0	0	0	%100
49	M49	X	0	0	0	%100
50	M49	Z	0	0	0	%100
51	M64	X	0	0	0	%100
52	M64	Z	0	0	0	%100
53	M72	X	0	0	0	%100
54	M72	Z	0	0	0	%100
55	M58	X	-0.571	-0.571	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	-0.571	-0.571	0	%100
58	M65	Z	0	0	0	%100
59	M66	X	-0.571	-0.571	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	-0.571	-0.571	0	%100
62	M67	Z	0	0	0	%100
63	M74	X	-0.571	-0.571	0	%100
64	M74	Z	0	0	0	%100
65	M75	X	-0.571	-0.571	0	%100
66	M75	Z	0	0	0	%100
67	M76	X	-0.726	-0.726	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	-0.726	-0.726	0	%100
70	M77	Z	0	0	0	%100
71	M78	X	0	0	0	%100
72	M78	Z	0	0	0	%100
73	M79	X	-0.162	-0.162	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	-0.649	-0.649	0	%100
76	M80	Z	0	0	0	%100
77	M81	X	-0.162	-0.162	0	%100
78	M81	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-1.147	-1.147	0	%100
4	M2	Z	-0.662	-0.662	0	%100
5	M3	X	-1.147	-1.147	0	%100
6	M3	Z	-0.662	-0.662	0	%100
7	M7	X	-0.287	-0.287	0	%100
8	M7	Z	-0.166	-0.166	0	%100
9	M9	X	-0.287	-0.287	0	%100
10	M9	Z	-0.166	-0.166	0	%100
11	M13	X	-0.287	-0.287	0	%100
12	M13	Z	-0.166	-0.166	0	%100
13	FACE	X	-0.287	-0.287	0	%100
14	FACE	Z	-0.166	-0.166	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-.531	-.531	0	%100
18	M11	Z	-.306	-.306	0	%100
19	M14	X	-.531	-.531	0	%100
20	M14	Z	-.306	-.306	0	%100
21	MP1A	X	-.545	-.545	0	%100
22	MP1A	Z	-.315	-.315	0	%100
23	MP2A	X	-.545	-.545	0	%100
24	MP2A	Z	-.315	-.315	0	%100
25	MP3A	X	-.545	-.545	0	%100
26	MP3A	Z	-.315	-.315	0	%100
27	MP4A	X	-.545	-.545	0	%100
28	MP4A	Z	-.315	-.315	0	%100
29	MP1C	X	-.545	-.545	0	%100
30	MP1C	Z	-.315	-.315	0	%100
31	MP2C	X	-.545	-.545	0	%100
32	MP2C	Z	-.315	-.315	0	%100
33	MP3C	X	-.545	-.545	0	%100
34	MP3C	Z	-.315	-.315	0	%100
35	MP4C	X	-.545	-.545	0	%100
36	MP4C	Z	-.315	-.315	0	%100
37	MP1B	X	-.545	-.545	0	%100
38	MP1B	Z	-.315	-.315	0	%100
39	MP2B	X	-.545	-.545	0	%100
40	MP2B	Z	-.315	-.315	0	%100
41	MP3B	X	-.545	-.545	0	%100
42	MP3B	Z	-.315	-.315	0	%100
43	MP4B	X	-.545	-.545	0	%100
44	MP4B	Z	-.315	-.315	0	%100
45	M47	X	-.725	-.725	0	%100
46	M47	Z	-.419	-.419	0	%100
47	M48	X	-.725	-.725	0	%100
48	M48	Z	-.419	-.419	0	%100
49	M49	X	-.165	-.165	0	%100
50	M49	Z	-.095	-.095	0	%100
51	M64	X	-.165	-.165	0	%100
52	M64	Z	-.095	-.095	0	%100
53	M72	X	-.165	-.165	0	%100
54	M72	Z	-.095	-.095	0	%100
55	M58	X	-.165	-.165	0	%100
56	M58	Z	-.095	-.095	0	%100
57	M65	X	-.165	-.165	0	%100
58	M65	Z	-.095	-.095	0	%100
59	M66	X	-.165	-.165	0	%100
60	M66	Z	-.095	-.095	0	%100
61	M67	X	-.66	-.66	0	%100
62	M67	Z	-.381	-.381	0	%100
63	M74	X	-.66	-.66	0	%100
64	M74	Z	-.381	-.381	0	%100
65	M75	X	-.66	-.66	0	%100
66	M75	Z	-.381	-.381	0	%100
67	M76	X	-.21	-.21	0	%100
68	M76	Z	-.121	-.121	0	%100
69	M77	X	-.838	-.838	0	%100
70	M77	Z	-.484	-.484	0	%100
71	M78	X	-.21	-.21	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
72	M78	Z	-121	-121	0	%100
73	M79	X	0	0	0	%100
74	M79	Z	0	0	0	%100
75	M80	X	-421	-421	0	%100
76	M80	Z	-243	-243	0	%100
77	M81	X	-421	-421	0	%100
78	M81	Z	-243	-243	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	-102	-102	0	%100
2	M1	Z	-177	-177	0	%100
3	M2	X	-497	-497	0	%100
4	M2	Z	-86	-86	0	%100
5	M3	X	-497	-497	0	%100
6	M3	Z	-86	-86	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	M9	X	-497	-497	0	%100
10	M9	Z	-86	-86	0	%100
11	M13	X	0	0	0	%100
12	M13	Z	0	0	0	%100
13	FACE	X	-497	-497	0	%100
14	FACE	Z	-86	-86	0	%100
15	M10	X	-14	-14	0	%100
16	M10	Z	-242	-242	0	%100
17	M11	X	-102	-102	0	%100
18	M11	Z	-177	-177	0	%100
19	M14	X	-409	-409	0	%100
20	M14	Z	-708	-708	0	%100
21	MP1A	X	-315	-315	0	%100
22	MP1A	Z	-545	-545	0	%100
23	MP2A	X	-315	-315	0	%100
24	MP2A	Z	-545	-545	0	%100
25	MP3A	X	-315	-315	0	%100
26	MP3A	Z	-545	-545	0	%100
27	MP4A	X	-315	-315	0	%100
28	MP4A	Z	-545	-545	0	%100
29	MP1C	X	-315	-315	0	%100
30	MP1C	Z	-545	-545	0	%100
31	MP2C	X	-315	-315	0	%100
32	MP2C	Z	-545	-545	0	%100
33	MP3C	X	-315	-315	0	%100
34	MP3C	Z	-545	-545	0	%100
35	MP4C	X	-315	-315	0	%100
36	MP4C	Z	-545	-545	0	%100
37	MP1B	X	-315	-315	0	%100
38	MP1B	Z	-545	-545	0	%100
39	MP2B	X	-315	-315	0	%100
40	MP2B	Z	-545	-545	0	%100
41	MP3B	X	-315	-315	0	%100
42	MP3B	Z	-545	-545	0	%100
43	MP4B	X	-315	-315	0	%100
44	MP4B	Z	-545	-545	0	%100
45	M47	X	-14	-14	0	%100
46	M47	Z	-242	-242	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
47	M48	X	-558	-558	0	%100
48	M48	Z	-967	-967	0	%100
49	M49	X	-286	-286	0	%100
50	M49	Z	-495	-495	0	%100
51	M64	X	-286	-286	0	%100
52	M64	Z	-495	-495	0	%100
53	M72	X	-286	-286	0	%100
54	M72	Z	-495	-495	0	%100
55	M58	X	0	0	0	%100
56	M58	Z	0	0	0	%100
57	M65	X	0	0	0	%100
58	M65	Z	0	0	0	%100
59	M66	X	0	0	0	%100
60	M66	Z	0	0	0	%100
61	M67	X	-286	-286	0	%100
62	M67	Z	-495	-495	0	%100
63	M74	X	-286	-286	0	%100
64	M74	Z	-495	-495	0	%100
65	M75	X	-286	-286	0	%100
66	M75	Z	-495	-495	0	%100
67	M76	X	0	0	0	%100
68	M76	Z	0	0	0	%100
69	M77	X	-363	-363	0	%100
70	M77	Z	-629	-629	0	%100
71	M78	X	-363	-363	0	%100
72	M78	Z	-629	-629	0	%100
73	M79	X	-081	-081	0	%100
74	M79	Z	-14	-14	0	%100
75	M80	X	-081	-081	0	%100
76	M80	Z	-14	-14	0	%100
77	M81	X	-324	-324	0	%100
78	M81	Z	-562	-562	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M9	Y	-5.141	-5.141	.01	7.24
2	FACE	Y	-1.05	-3.081	0	2
3	FACE	Y	-3.081	-5	2	4
4	FACE	Y	-5	-4.686	4	6
5	FACE	Y	-4.686	-4.686	6	8
6	FACE	Y	-4.686	-5	8	10
7	FACE	Y	-5	-3.081	10	12
8	FACE	Y	-3.081	-1.05	12	14
9	M10	Y	-8.833	-4.93	0	1.949
10	M10	Y	-4.93	-1.027	1.949	3.897
11	M48	Y	-8.833	-4.93	0	1.949
12	M48	Y	-4.93	-1.027	1.949	3.897
13	M7	Y	-5.141	-5.141	.01	7.24
14	M13	Y	-1.05	-3.081	0	2
15	M13	Y	-3.081	-5	2	4
16	M13	Y	-5	-4.686	4	6
17	M13	Y	-4.686	-4.686	6	8
18	M13	Y	-4.686	-5	8	10
19	M13	Y	-5	-3.081	10	12
20	M13	Y	-3.081	-1.05	12	14
21	M47	Y	-8.833	-4.93	0	1.949



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
22	M47	Y	-4.93	-1.027	1.949	3.897
23	M2	Y	-5.141	-5.141	.01	7.24
24	M3	Y	-1.076	-2.685	0	2.333
25	M3	Y	-2.685	-4.754	2.333	4.667
26	M3	Y	-4.754	-6.02	4.667	7
27	M3	Y	-6.02	-4.754	7	9.333
28	M3	Y	-4.754	-2.685	9.333	11.667
29	M3	Y	-2.685	-1.076	11.667	14

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M9	Y	-9.939	-9.939	.01	7.24
2	FACE	Y	-.202	-5.956	0	2
3	FACE	Y	-5.956	-9.666	2	4
4	FACE	Y	-9.666	-9.059	4	6
5	FACE	Y	-9.059	-9.059	6	8
6	FACE	Y	-9.059	-9.666	8	10
7	FACE	Y	-9.666	-5.956	10	12
8	FACE	Y	-5.956	-.202	12	14
9	M10	Y	-17.077	-9.532	0	1.949
10	M10	Y	-9.532	-1.986	1.949	3.897
11	M48	Y	-17.077	-9.532	0	1.949
12	M48	Y	-9.532	-1.986	1.949	3.897
13	M7	Y	-9.939	-9.939	.01	7.24
14	M13	Y	-.202	-5.956	0	2
15	M13	Y	-5.956	-9.666	2	4
16	M13	Y	-9.666	-9.059	4	6
17	M13	Y	-9.059	-9.059	6	8
18	M13	Y	-9.059	-9.666	8	10
19	M13	Y	-9.666	-5.956	10	12
20	M13	Y	-5.956	-.202	12	14
21	M47	Y	-17.077	-9.532	0	1.949
22	M47	Y	-9.532	-1.986	1.949	3.897
23	M2	Y	-9.939	-9.939	.01	7.24
24	M3	Y	-2.081	-5.191	0	2.333
25	M3	Y	-5.191	-9.192	2.333	4.667
26	M3	Y	-9.192	-11.637	4.667	7
27	M3	Y	-11.637	-9.192	7	9.333
28	M3	Y	-9.192	-5.191	9.333	11.667
29	M3	Y	-5.191	-2.081	11.667	14

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N14	N5	N7	N19A	Y	Two Way	-.005
2	N19A	N14	N6	N8	Y	Two Way	-.005
3	N8	N6	N5	N7	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N7	N5	N14	N19A	Y	Two Way	-.01
2	N19A	N14	N6	N8	Y	Two Way	-.01
3	N8	N6	N5	N7	Y	Two Way	-.01



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

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc.....	LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn	
1	M1	HSS4X4X5	.228	0	13	.085	0 z	8	16417...	169740	19.285	19.285	1...H1-1b
2	M2	L3X3X4	.291	3.625	13	.013	3.625 z	24	14708...	46656	1.688	3.193	1...H2-1
3	M3	L3X3X4	.872	7	23	.081	7 y	23	3944.5...	46656	1.688	2.867	1...H2-1
4	M7	L3X3X4	.284	3.625	18	.013	3.625 z	13	14708...	46656	1.688	3.204	1...H2-1
5	M9	L3X3X4	.291	3.625	17	.014	3.625 z	17	14708...	46656	1.688	3.183	1...H2-1
6	M13	L3X3X4	.825	7	15	.077	7 z	15	3944.5...	46656	1.688	2.857	1...H2-1
7	FACE	L3X3X4	.884	7	19	.081	7 y	19	3944.5...	46656	1.688	2.859	1...H2-1
8	M10	LL3x3x4x0	.092	3.897	8	.010	0 z	2	76393...	93312	6.48	4.362	1...H1-1b
9	M11	HSS4X4X5	.230	0	17	.083	0 z	4	16417...	169740	19.285	19.285	1...H1-1b
10	M14	HSS4X4X5	.206	0	16	.075	0 z	12	16417...	169740	19.285	19.285	1...H1-1b
11	MP1A	PIPE 2.0	.320	1.458	20	.100	1.458	7	17855...	32130	1.872	1.872	2...H1-1b
12	MP2A	PIPE 2.0	.409	1.557	20	.118	3.521	4	19360...	32130	1.872	1.872	1...H1-1b
13	MP3A	PIPE 2.0	.379	1.458	30	.092	1.458	20	17855...	32130	1.872	1.872	2...H1-1b
14	MP4A	PIPE 2.0	.268	1.458	18	.082	3.427	7	17855...	32130	1.872	1.872	2...H1-1b
15	MP1C	PIPE 2.0	.322	1.458	40	.081	1.458	3	17855...	32130	1.872	1.872	3...H1-1b
16	MP2C	PIPE 2.0	.387	1.557	16	.130	1.49	12	19360...	32130	1.872	1.872	1...H1-1b
17	MP3C	PIPE 2.0	.318	1.458	14	.078	1.458	17	17855...	32130	1.872	1.872	2...H1-1b
18	MP4C	PIPE 2.0	.250	1.458	14	.072	3.427	3	17855...	32130	1.872	1.872	2...H1-1b
19	MP1B	PIPE 2.0	.322	1.458	24	.086	1.458	3	17855...	32130	1.872	1.872	2...H1-1b
20	MP2B	PIPE 2.0	.409	1.557	24	.136	1.49	9	19360...	32130	1.872	1.872	1...H1-1b
21	MP3B	PIPE 2.0	.325	1.458	22	.080	1.458	13	17855...	32130	1.872	1.872	3...H1-1b
22	MP4B	PIPE 2.0	.272	3.427	45	.081	1.458	9	17855...	32130	1.872	1.872	3...H1-1b
23	M47	LL3x3x4x0	.090	3.897	40	.018	0 y	46	76393...	93312	6.48	4.362	1...H1-1b
24	M48	LL3x3x4x0	.098	3.897	7	.015	0 y	36	76393...	93312	6.48	4.362	1...H1-1b
25	M49	PIPE 2.5	.135	6	18	.077	6	13	15797.3	50715	3.596	3.596	1...H1-1b
26	M64	PIPE 2.5	.135	6	18	.077	6	13	15797.3	50715	3.596	3.596	1...H1-1b
27	M72	PIPE 2.5	.135	6	18	.077	6	13	15797.3	50715	3.596	3.596	1...H1-1b
28	M58	PIPE 2.5	.122	6	2	.062	6	20	15797.3	50715	3.596	3.596	1...H1-1b
29	M65	PIPE 2.5	.122	6	2	.062	6	20	15797.3	50715	3.596	3.596	1...H1-1b
30	M66	PIPE 2.5	.122	6	2	.062	6	20	15797.3	50715	3.596	3.596	1...H1-1b
31	M67	PIPE 2.5	.122	6	22	.065	6	18	15797.3	50715	3.596	3.596	1...H1-1b
32	M74	PIPE 2.5	.122	6	22	.065	6	18	15797.3	50715	3.596	3.596	1...H1-1b
33	M75	PIPE 2.5	.122	6	22	.065	6	18	15797.3	50715	3.596	3.596	1...H1-1b
34	M76	L3X3X4	.226	2.211	1	.027	0 y	6	41866...	46656	1.688	3.756	2...H2-1
35	M77	L3X3X4	.190	0	1	.026	.023 y	2	41866...	46656	1.688	3.756	2...H2-1
36	M78	L3X3X4	.156	2.211	5	.023	0 y	40	41866...	46656	1.688	3.756	2...H2-1
37	M79	HSS3X3X4	.297	0	21	.046	0 y	38	95125...	101016	8.556	8.556	2...H1-1b
38	M80	HSS3X3X4	.305	0	17	.070	0 y	33	95125...	101016	8.556	8.556	2...H1-1b
39	M81	HSS3X3X4	.274	0	13	.056	0 y	48	95125...	101016	8.556	8.556	2...H1-1b

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	N3	max	874.416	9	1710.093	22	1782.828	1	1.874	13	1.435	1	-.951	3
2		min	-1353.651	3	630.733	4	-1844.178	7	.218	7	-1.311	7	-3.51	21
3	N15	max	1891.38	10	1756.792	18	803.288	1	-1.179	1	1.367	11	.659	4
4		min	-1965.259	4	589.306	1	-385.915	7	-4.004	19	-1.418	5	-.545	10
5	N21	max	1238.752	11	1655.123	14	1436.195	1	2.06	13	1.142	7	3.115	16
6		min	-712.756	5	609.179	8	-1855.666	7	.275	7	-1.057	1	1.027	10
7	N126A	max	1019.887	10	1107.954	24	822.916	1	1.11	24	1.018	2	-.639	5
8		min	-677.014	4	450.131	6	-678.439	7	.296	7	-1.077	8	-1.905	23
9	N128	max	635.187	11	1208.664	22	908.967	1	-.733	1	1.02	11	.09	3
10		min	-674.191	5	485.46	4	-1237.31	7	-2.363	19	-1.071	5	-.291	33
11	N130	max	622.528	10	1067.952	16	896.384	2	1.035	14	.872	7	1.842	16
12		min	-899.129	4	424.767	10	-648.758	8	.358	8	-.981	1	.563	10



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467991-VZW_MT_LO_H

Feb 25, 2021
 8:12 PM
 Checked By: _____

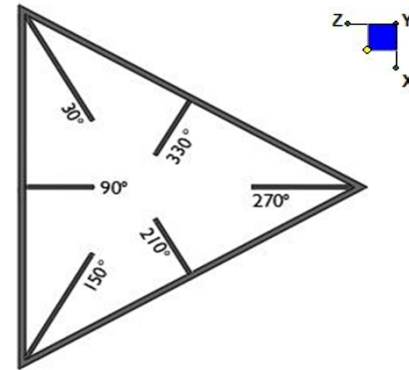
Envelope Joint Reactions (Continued)

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
13	Totals:	max	6147.448	10	8382.436	18	6636.407	1					
14		min	-6147.448	4	3764.197	12	-6636.406	7					

I. Mount-to-Tower Connection Check - Proposed

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N128	90
N130	210
N126A	330



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch) :

d_y (in) (Delta Y of typ. bolt config. sketch) :

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

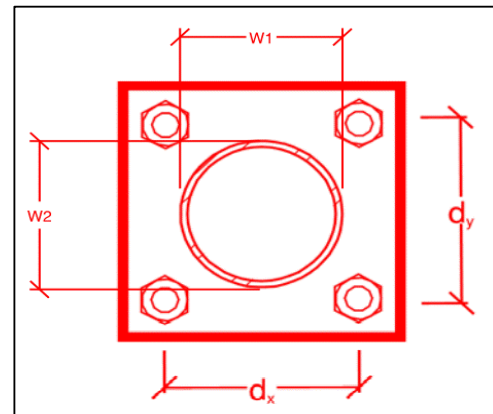
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

Yes
4
6
6
A325N
0.625
10.2
2.1
20.7
12.4
12.3%*
4.2%



*Note: Tension reduction not required if tension or shear capacity < 30%

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

$\Phi \cdot R_n$ (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
8.25
8.25
3
3
36
0.75
5
6.96
2.43
21.6%
35.0%

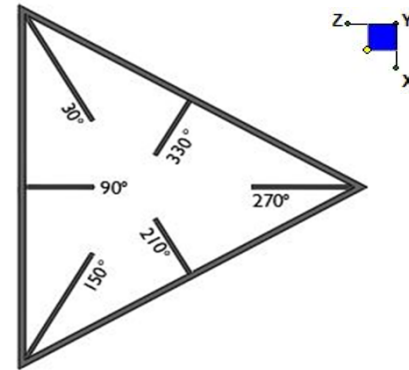
Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in) :	7.5
$\Phi \cdot M_{n_{xx}}$ (kip-in) :	37.6
$M_{u_{yy}}$ (kip-in) :	0.6
$\Phi \cdot M_{n_{yy}}$ (kip-in) :	37.6

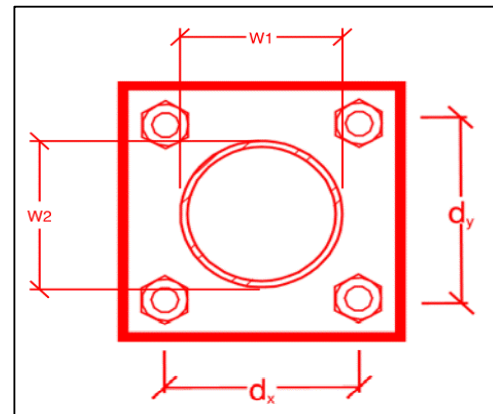
I. Mount-to-Tower Connection Check - Existing

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N21	210
N15	90
N3	330



TYPICAL PLATFORM



Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

Phi*Rn (kip/in):

Required Weld Strength (kip/in):

Weld Capacity:

Rect
5
5
4
4
36
0.5
6
8.35
2.29
27.5%

Max Plate Bending Strengths

Mu _{xx} (kip-in) :	#N/A
Phi*Mn _{xx} (kip-in) :	10.1
Phi*Mn _{yy} (kip-in) :	10.1

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the 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:

- 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) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

Photo Requirements:

- Base and “During Installation Photos”
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
 - Overall tower structure before and after installation of the modifications
 - Photos of the appropriate mount before and 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 each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
 - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
 - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
 - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
 - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (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, a tape drop measurement shall be provided before the elevation change
 - 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.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
 - If the drawings are as specified on the drawings
 - The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized
 - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____

Name _____

Signature _____


















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

Issue:

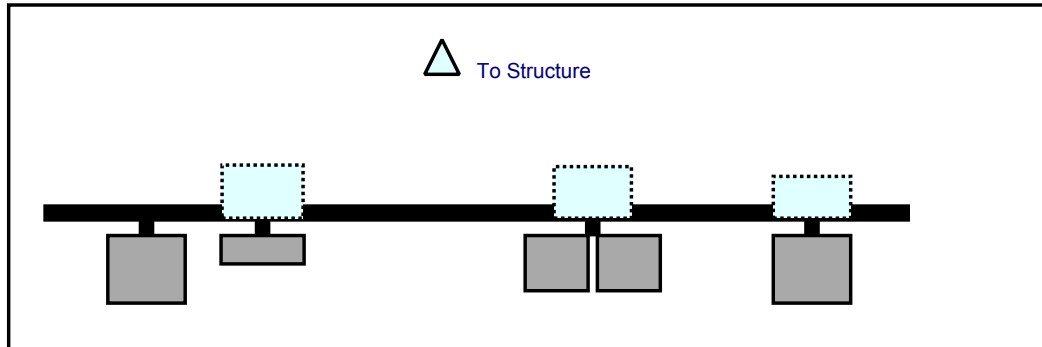
Contractor to ensure the existing and proposed mount connections do not nor will not interfere with the safety climb wire rope. Contractor to install safety climb wire rope guides as necessary.

Response:

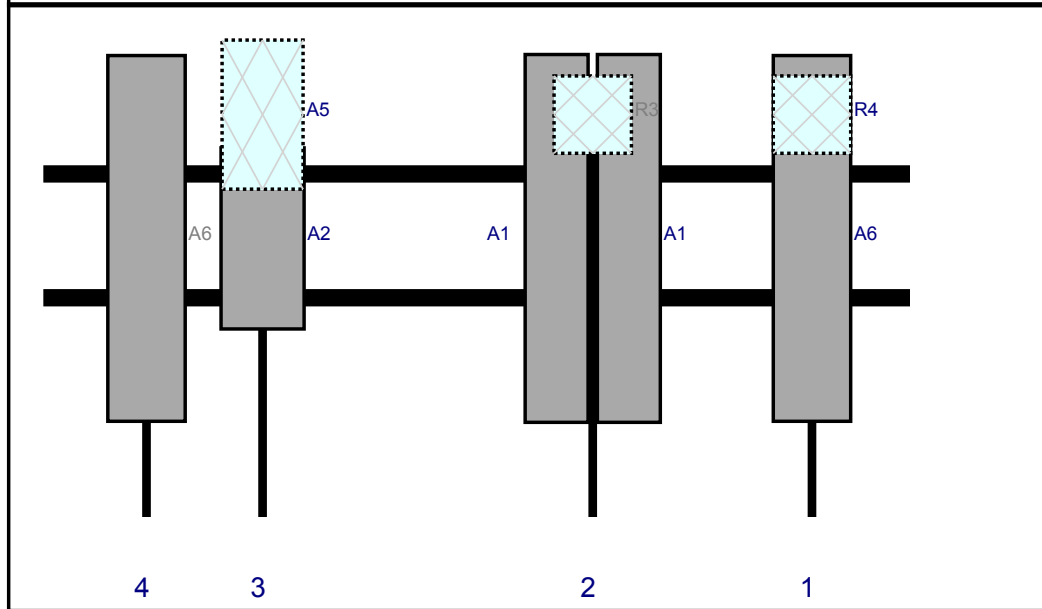
Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present
-  Certifications – Submission of this document including certifications
-  Specific Required Additional Photos

Plan view

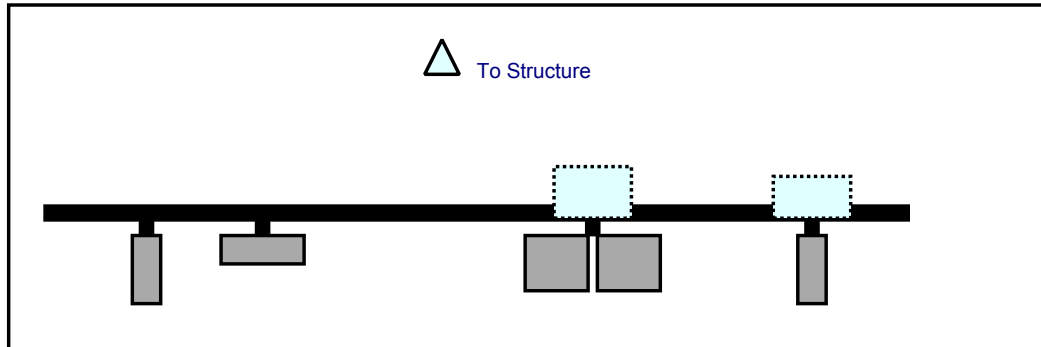


Front view
Looking at Structure

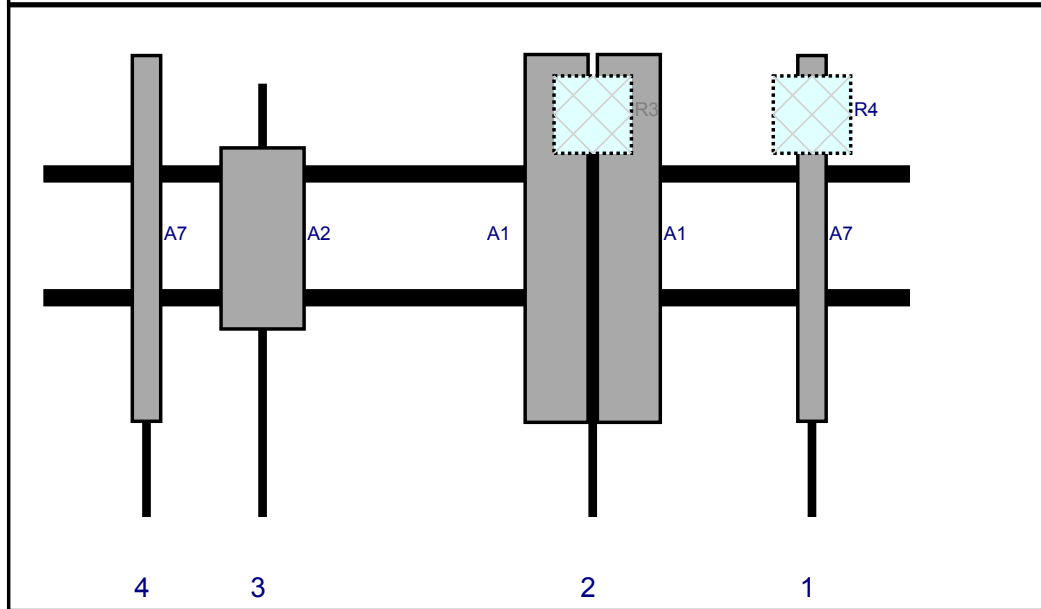


Ref	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	LPA-80063/6CF	70.9	15	149	1	a	Front	30	0	Retained	01/09/2021
R4	B5/B13 RRH-BR04C	15	15	149	1	a	Behind	6	0	Added	
A1	MX06FIT665-02	71.3	12.2	106.5	2	a	Front	30	-7	Added	
A1	MX06FIT665-02	71.3	12.2	106.5	2	b	Front	30	7	Added	
R3	B2/B66A RRH-BR049	15	15	106.5	2	a	Behind	6	0	Added	
A2	V S01	35.1	16.1	42.5	3	a	Front	30	0	Added	
A5	RV DC-6627-PF-48	28.9	15.7	42.5	3	a	Behind	6	0	Added	
A6	LPA-80063/6CF	70.9	15	20	4	a	Front	30	0	Retained	01/09/2021

Plan view

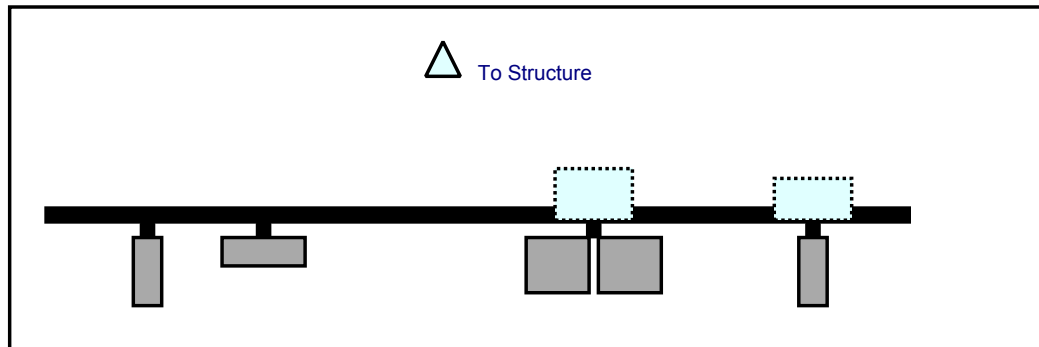


Front view
Looking at Structure

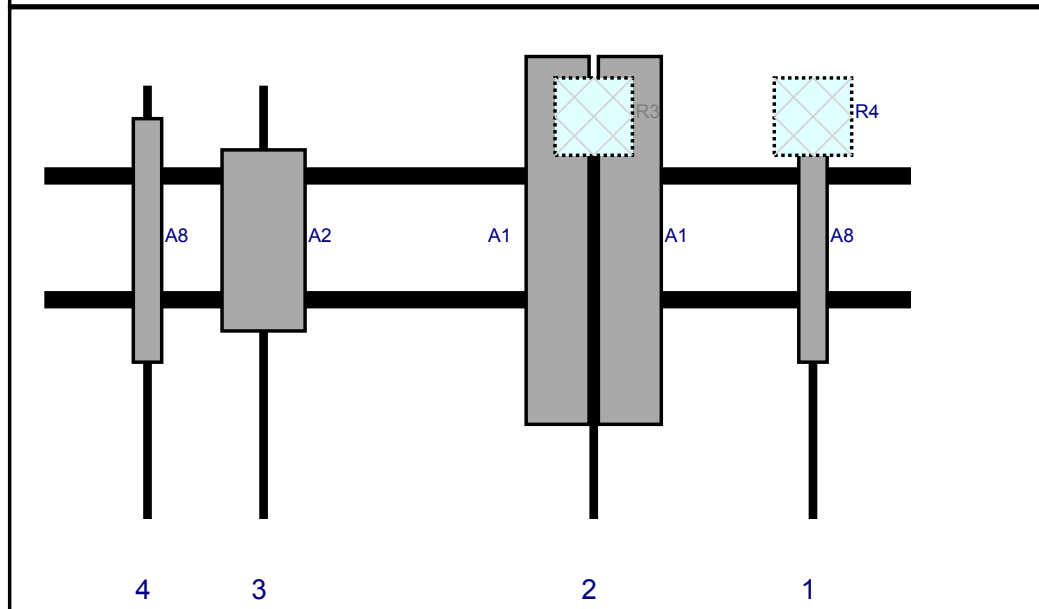


Ref	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	LPA-80080/6CF ___	70.9	5.5	149	1	a	Front	30	0	Retained	01/09/2021
R4	B5/B13 RRH-BR04C	15	15	149	1	a	Behind	6	0	Added	
A1	MX06FIT665-02	71.3	12.2	106.5	2	a	Front	30	-7	Added	
A1	MX06FIT665-02	71.3	12.2	106.5	2	b	Front	30	7	Added	
R3	B2/B66A RRH-BR049	15	15	106.5	2	a	Behind	6	0	Added	
A2	V S01	35.1	16.1	42.5	3	a	Front	30	0	Added	
A7	LPA-80080/6CF ___	70.9	5.5	20	4	a	Front	30	0	Retained	01/09/2021

Plan view



Front view
Looking at Structure



Ref	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A8	LPA-80080/4CF ___	47.2	5.5	149	1	a	Front	30	0	Retained	01/09/2021
R4	B5/B13 RRH-BR04C	15	15	149	1	a	Behind	6	0	Added	
A1	MX06FIT665-02	71.3	12.2	106.5	2	a	Front	30	-7	Added	
A1	MX06FIT665-02	71.3	12.2	106.5	2	b	Front	30	7	Added	
R3	B2/B66A RRH-BR049	15	15	106.5	2	a	Behind	6	0	Added	
A2	V S01	35.1	16.1	42.5	3	a	Front	30	0	Added	
A8	LPA-80080/4CF ___	47.2	5.5	20	4	a	Front	30	0	Retained	01/09/2021

Maser Consulting Connecticut

Subject TIA-222-H Adoption and Wind Speed Usage

Site Information Site ID: 467991-VZW / BETHEL_WEST_CT
Site Name: BETHEL_WEST_CT
Carrier Name: Verizon Wireless
Address: 11 Francis J. Clarke Cir
Bethel, Connecticut 06801
Fairfield County

Latitude: 41.360500°
Longitude: -73.424472°

Structure Information Tower Type: Monopole
Mount Type: 14.00-Ft Platform

To Whom It May Concern,

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

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

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

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

Sincerely,

Dejian Xu, PE
Technical Specialist

March 29, 2021

Mr. Andrew Leone
Verizon Wireless
20 Alexander Dr.
Wallingford, CT 06492

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

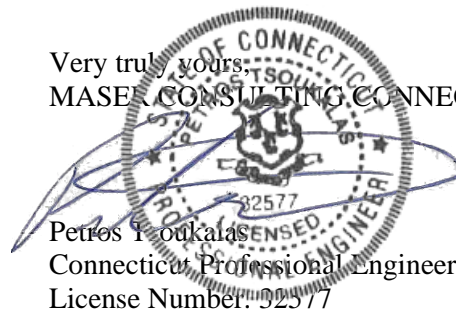
Dear Mr. Leone,

This letter is intended to clarify and confirm the antenna naming convention used by Verizon Wireless as a part of an antenna upgrade project on numerous wireless facilities.

The antenna naming convention “Licensed Sub-6, L-Sub6, nL-Sub6, VZS01” and any other slight variants refer to the 64T64RMMU antenna manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the “Antenna Mount Analysis”.

If you have any questions or comments, or require additional information, please do not hesitate to contact me.

Very truly yours,
MASER CONSULTING CONNECTICUT



Petros I. Ioukalis
Connecticut Professional Engineer
License Number: 32577

PROJECT NOTES

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



**MOUNT MODIFICATION DRAWINGS
EXISTING 14.00' PLATFORM MOUNT**

**SITE NAME: BETHEL_WEST_CT
SITE NUMBER: 467991**

**11 FRANCIS J. CLARKE CIR
BETHEL, CT 06801
FAIRFIELD COUNTY**

PROJECT INFORMATION	
SITE INFORMATION	
LATITUDE:	41.360500° N
LONGITUDE:	73.424472° W
JURISDICTION	FAIRFIELD COUNTY
APPLICANT/LESSEE	
COMPANY	VERIZON WIRELESS
CLIENT REPRESENTATIVE	
COMPANY	VERIZON WIRELESS
ADDRESS	118 FLANDERS ROAD, 3RD FLOOR
CITY, STATE, ZIP	WESTBOROUGH, MA 01518
CONTACT	ANDREW CANDIELLO
E-MAIL	ANDREW.CANDIELLO@VERIZONWIRELESS.COM
PROJECT MANAGER	
COMPANY	MASER CONSULTING CONNECTICUT
CONTACT	GREG DULNIK
PHONE	(615) 686-2575
E-MAIL	GREG.DULNIK@COLLIERSENGINEERING.COM

SHEET INDEX	
SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	MOUNT PHOTOS
	SPECIFICATION SHEETS

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #	10041402
VZW LOCATION CODE (PSLC)	467991
FUZE ID	16244640
PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT	

REFERENCED DOCUMENTS	
FAILING MOUNT ANALYSIS REPORT	
SMART TOOL PROJECT #	10032207
MASER CONSULTING PROJECT #	20777631A
ANALYSIS DATE	01/28/2021



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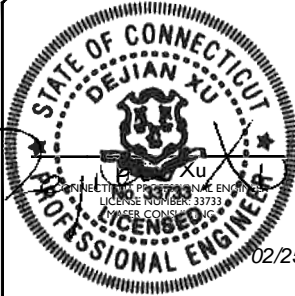
- NEW JERSEY
- NEW MEXICO
- NEW YORK
- MARYLAND
- PENNSYLVANIA
- GEORGIA
- VIRGINIA
- TEXAS
- FLORIDA
- TENNESSEE
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SCALE:	AS SHOWN	JOB NUMBER:	20777631A	
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	2/25/2021	ISSUED FOR CONSTRUCTION		



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SITE NAME:
**BETHEL_WEST_CT
467991**
**11 FRANCIS J. CLARKE CIR
BETHEL, CT 06801
FAIRFIELD COUNTY**

MT. LAUREL OFFICE
2000 Piedmont Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
TITLE SHEET
SHEET NUMBER:
T-1

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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 ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- 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, ANSI/TIA-322.
- 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.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

- WIND LOADS
- BASIC WIND SPEED (3 SECOND GUST), V = 115 MPH
 - EXPOSURE CATEGORY C
 - TOPOGRAPHIC CATEGORY I
 - MEAN BASE ELEVATION (AMSL) = 411.08'

- ICE LOADS
- ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
 - ICE THICKNESS = 1.0 IN

- SEISMIC LOADS
- SEISMIC DESIGN CATEGORY B
 - SHORT TERM MCER GROUND MOTION, S_s = .226
 - LONG TERM MCER GROUND MOTION, S_l = .056

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 GREG.DULNIK@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 COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
 - ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

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LICENSE NUMBER 33733
02/25/2021

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SITE NAME:

BETHEL_WEST_CT
467991

11 FRANCIS J. CLARKE CIR
BETHEL, CT 06801
FAIRFIELD COUNTY

MT. LAUREL OFFICE
2000 Piedmont Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
S-2

V:\Projects\7124\Unexc'Drwing\dwg2.dwg 2/25/2021 10:52:00 AM By: KERTON

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
X	EOB APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZW PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT
 NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CORRECTION OF FAILING MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN:

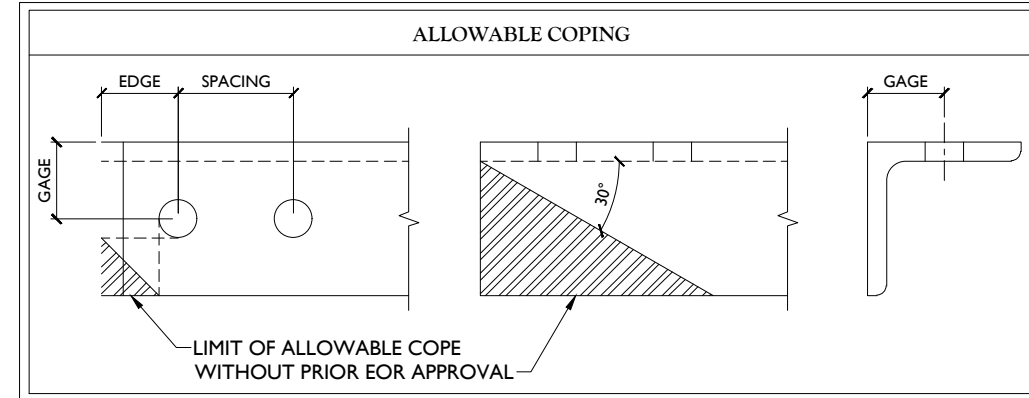
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

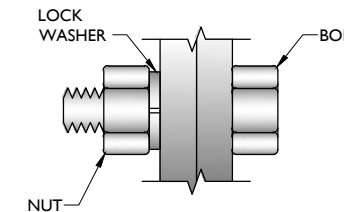
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



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

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



TYP. BOLT ASSEMBLY

NOTES:

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

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verizon

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SCALE: AS SHOWN JOB NUMBER: 20777631A
 0 2/25/2021 ISSUED FOR CONSTRUCTION FAC. DX.
 REV. DATE DESCRIPTION DRAWN BY CHECKED BY

STATE OF CONNECTICUT
 DEJIAN XU
 LICENSE NUMBER 33733
 PROFESSIONAL ENGINEER
 02/25/2021

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:
 BETHEL_WEST_CT
 467991
 11 FRANCIS J. CLARKE CIR
 BETHEL, CT 06801
 FAIRFIELD COUNTY

MT. LAUREL OFFICE
 2000 Piedmont Drive
 Suite 100
 Mount Laurel, NJ 08054
 Phone: 856.797.0412
 Fax: 856.722.1120

SHEET TITLE:
 MODIFICATION NOTES

SHEET NUMBER:
 S-3



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REV	DATE	DESCRIPTION	DRAWN BY / CHECKED BY
0	2/25/2021	ISSUED FOR CONSTRUCTION	FAC. / DK.



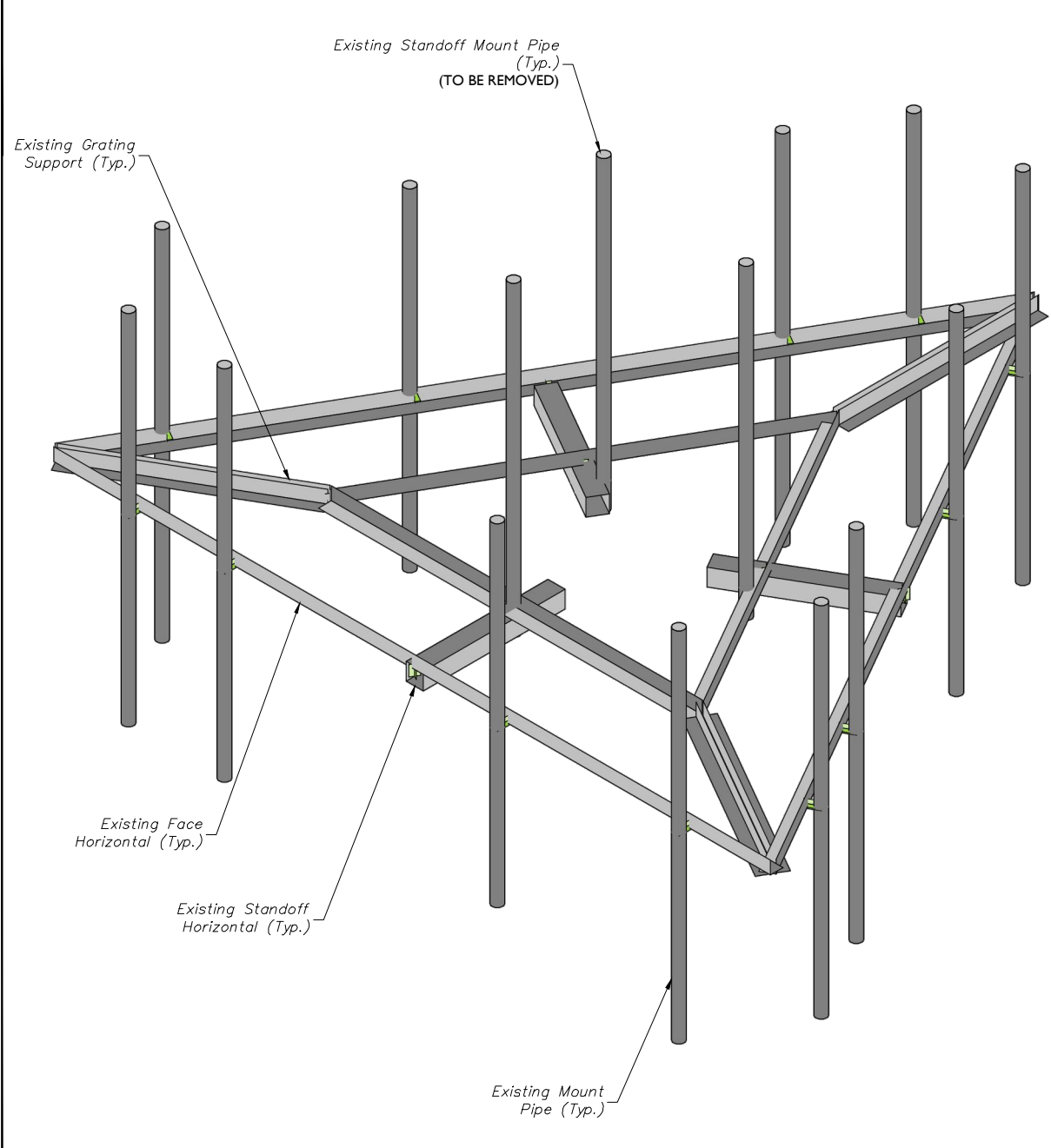
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 467991
 11 FRANCIS J. CLARKE CIR
 BETHEL, CT 06801
 FAIRFIELD COUNTY

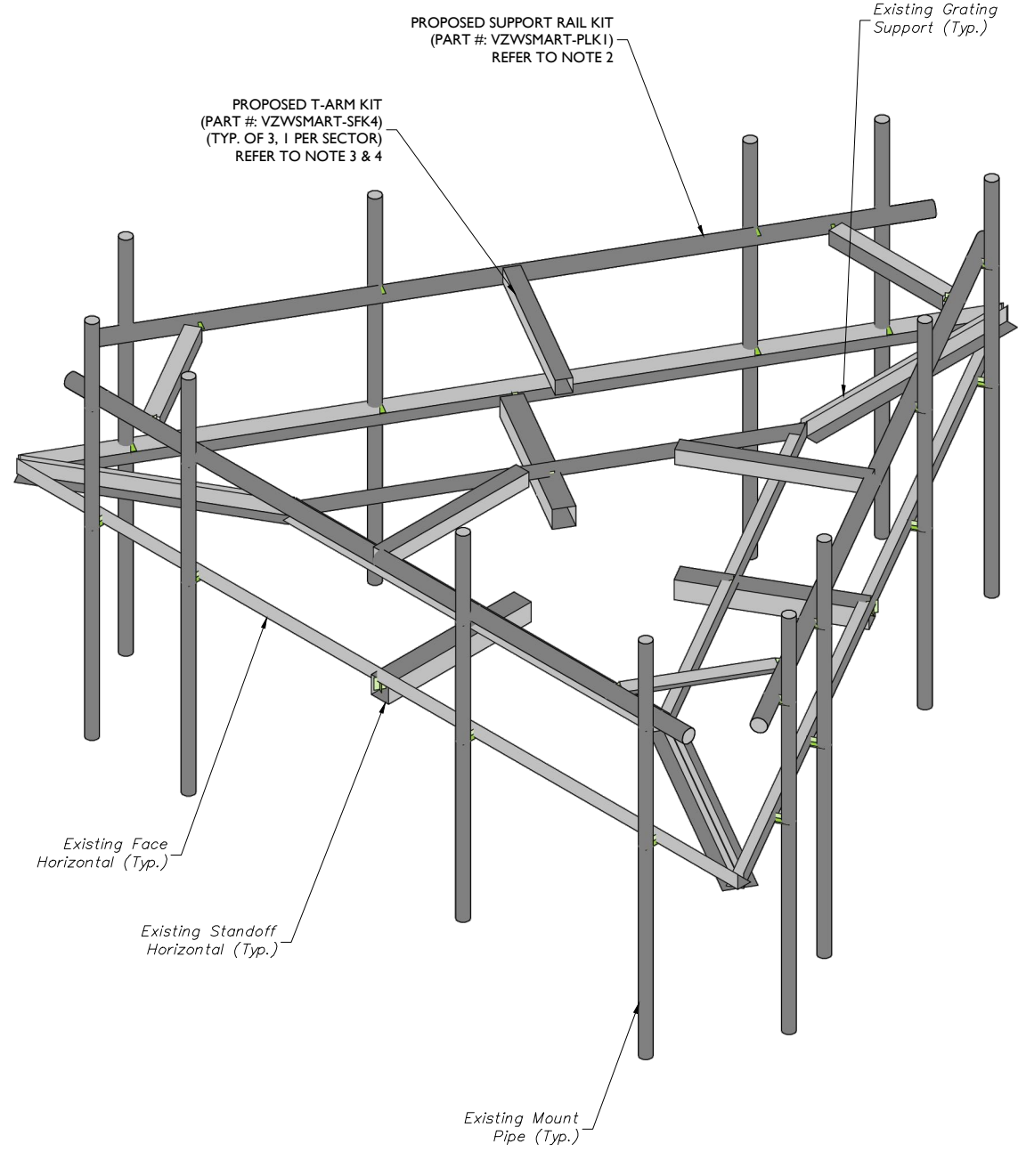
MT. LAUREL OFFICE
 2000 Pilgrim Drive
 Suite 100
 Mount Laurel, NJ 08054
 Phone: 856.797.0412
 Fax: 856.722.1120

SHEET TITLE:
 MODIFICATION DETAILS

SHEET NUMBER:
 S-4



1 EXISTING PLATFORM ISOMETRIC VIEW
 SCALE : N.T.S.



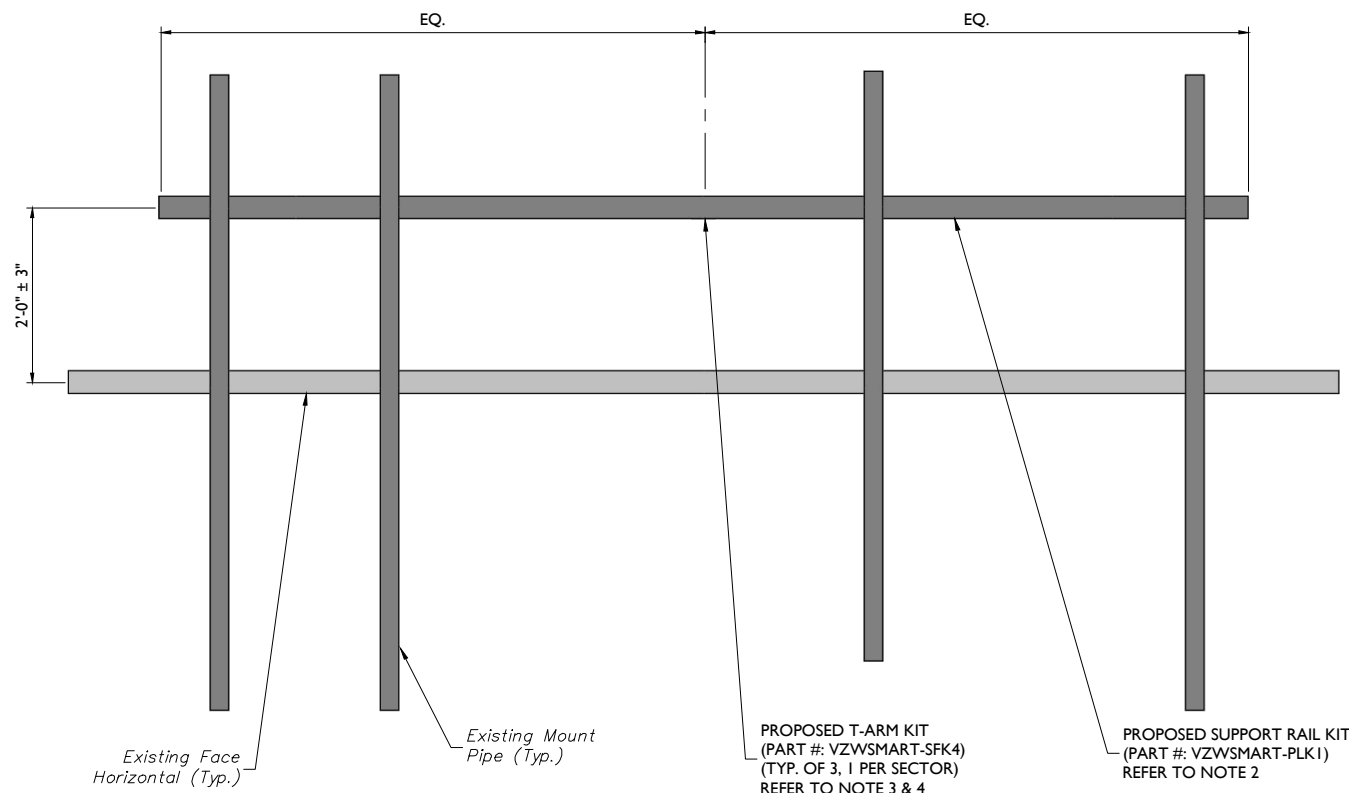
2 PROPOSED PLATFORM ISOMETRIC VIEW
 SCALE : N.T.S.

STRUCTURAL NOTES:

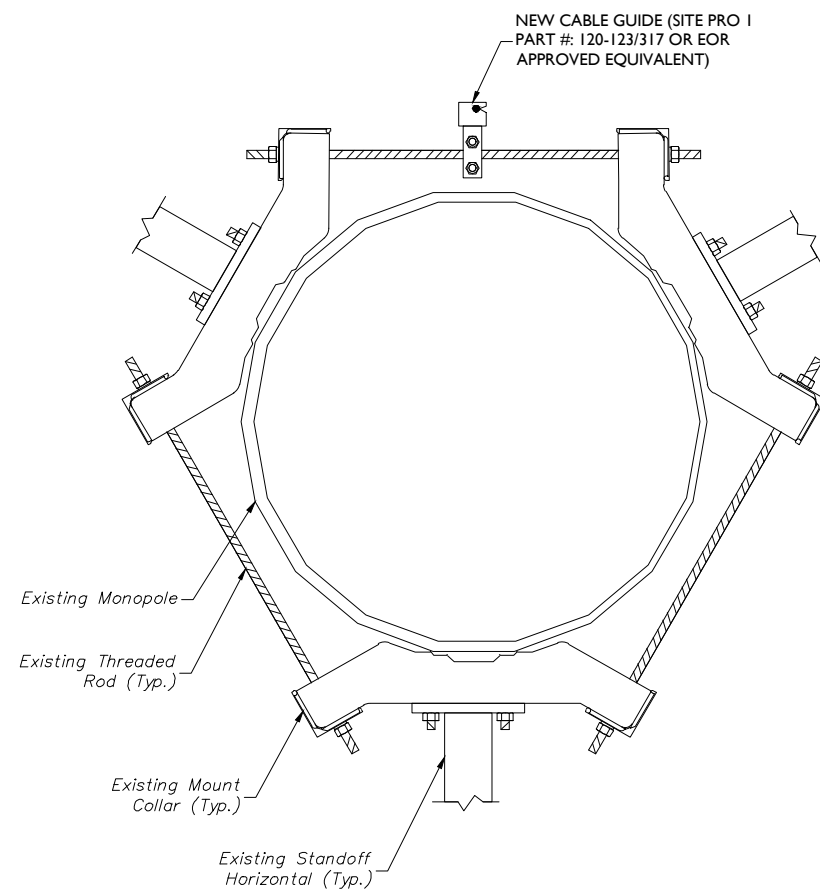
- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING ON 01/09/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (138'-7") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

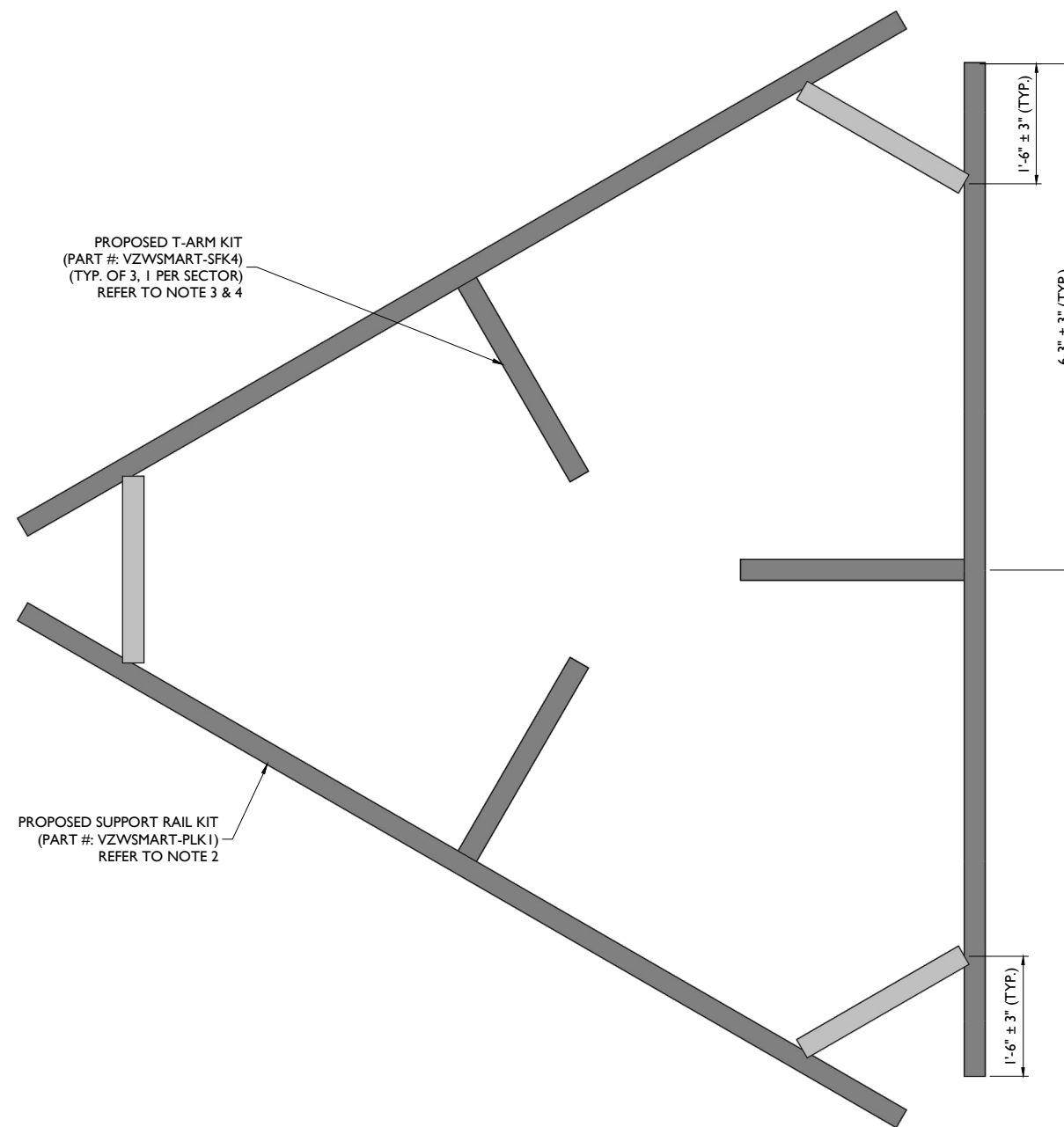
- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- CONNECT OTHER END OF T-ARM KIT TO NEW MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
- FINAL LENGTH TO BE DETERMINED IN FIELD, CONTRACTOR TO TRIM AS REQUIRED.



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



3 CABLE GUIDE THREADED ROD ATTACHMENT - PLAN VIEW



3 PROPOSED FRAME PLAN VIEW
SCALE : N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
3. CONNECT OTHER END OF T-ARM KIT TO NEW MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
4. FINAL LENGTH TO BE DETERMINED IN FIELD, CONTRACTOR TO TRIM AS REQUIRED.

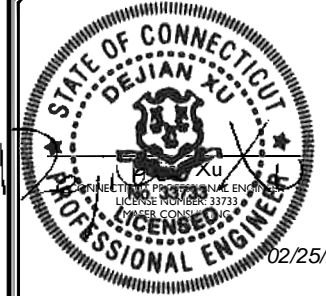
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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY



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 Fax: 856.722.1120

SHEET TITLE:
MODIFICATION DETAILS

SHEET NUMBER:
S-5



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

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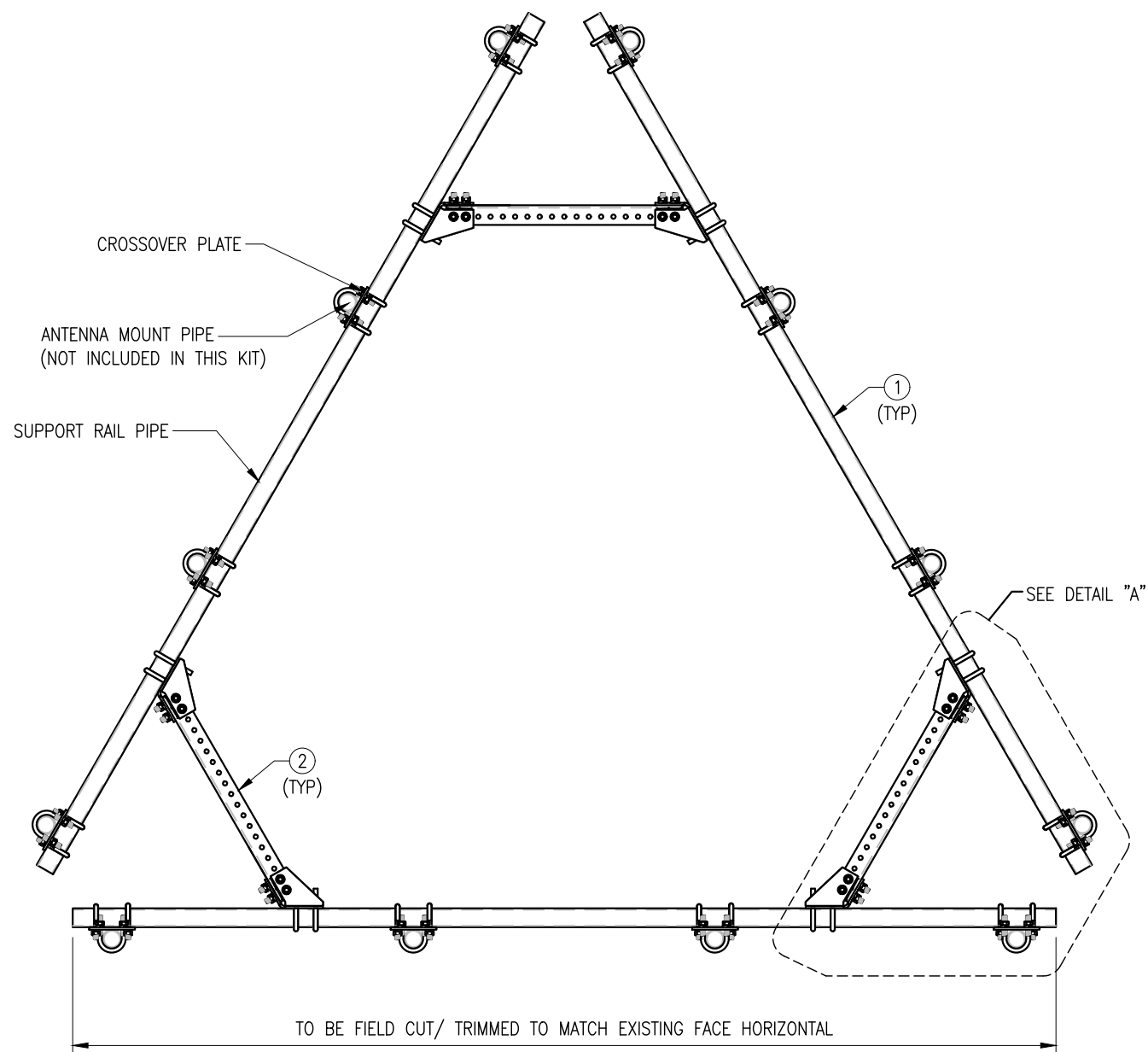
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BETHEL_WEST_CT
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FAIRFIELD COUNTY

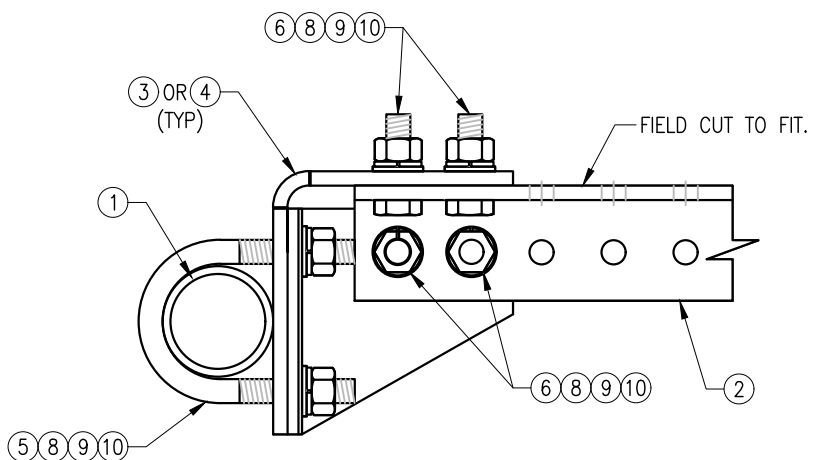
M MT. LAUREL OFFICE
2000 Pilgrim Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
MOUNT PHOTOS

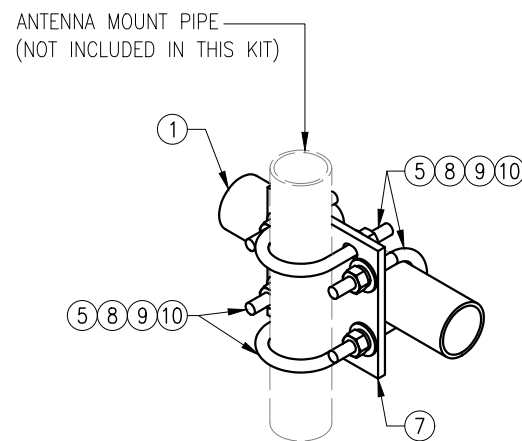
SHEET NUMBER:
S-6



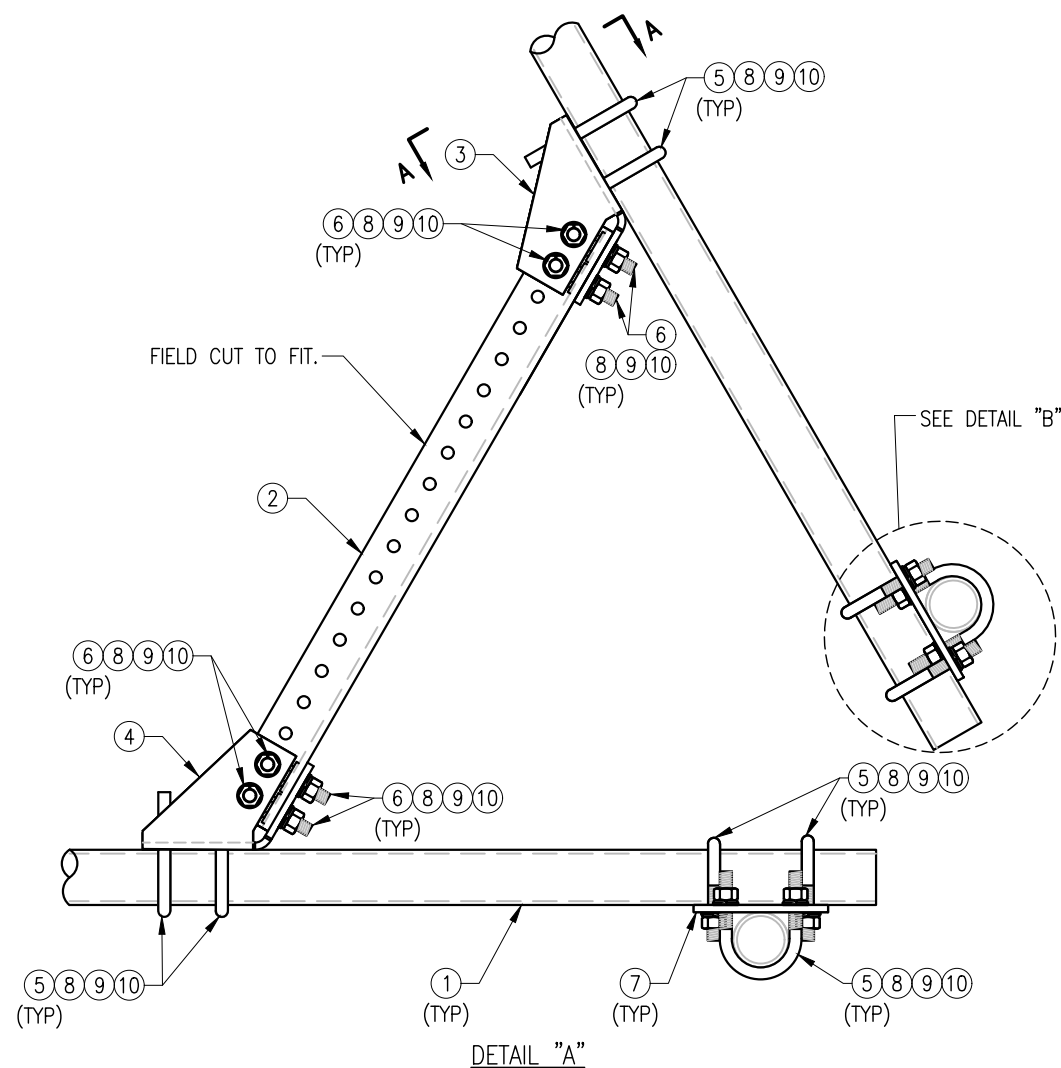
PLAN VIEW



SECTION "A-A"



DETAIL "B"



DETAIL "A"

NOTES:

1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
GALVANIZED WT					504

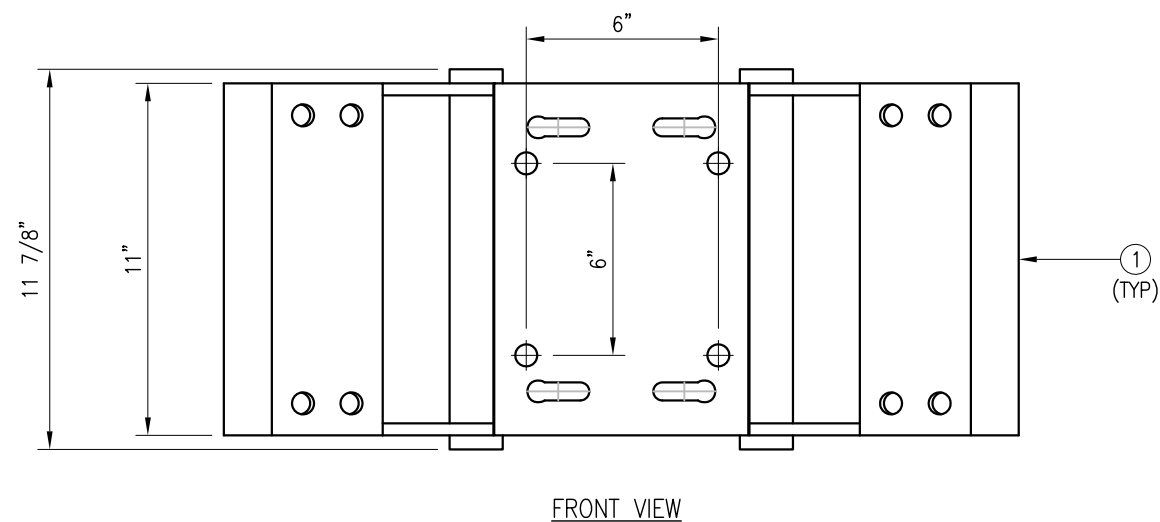
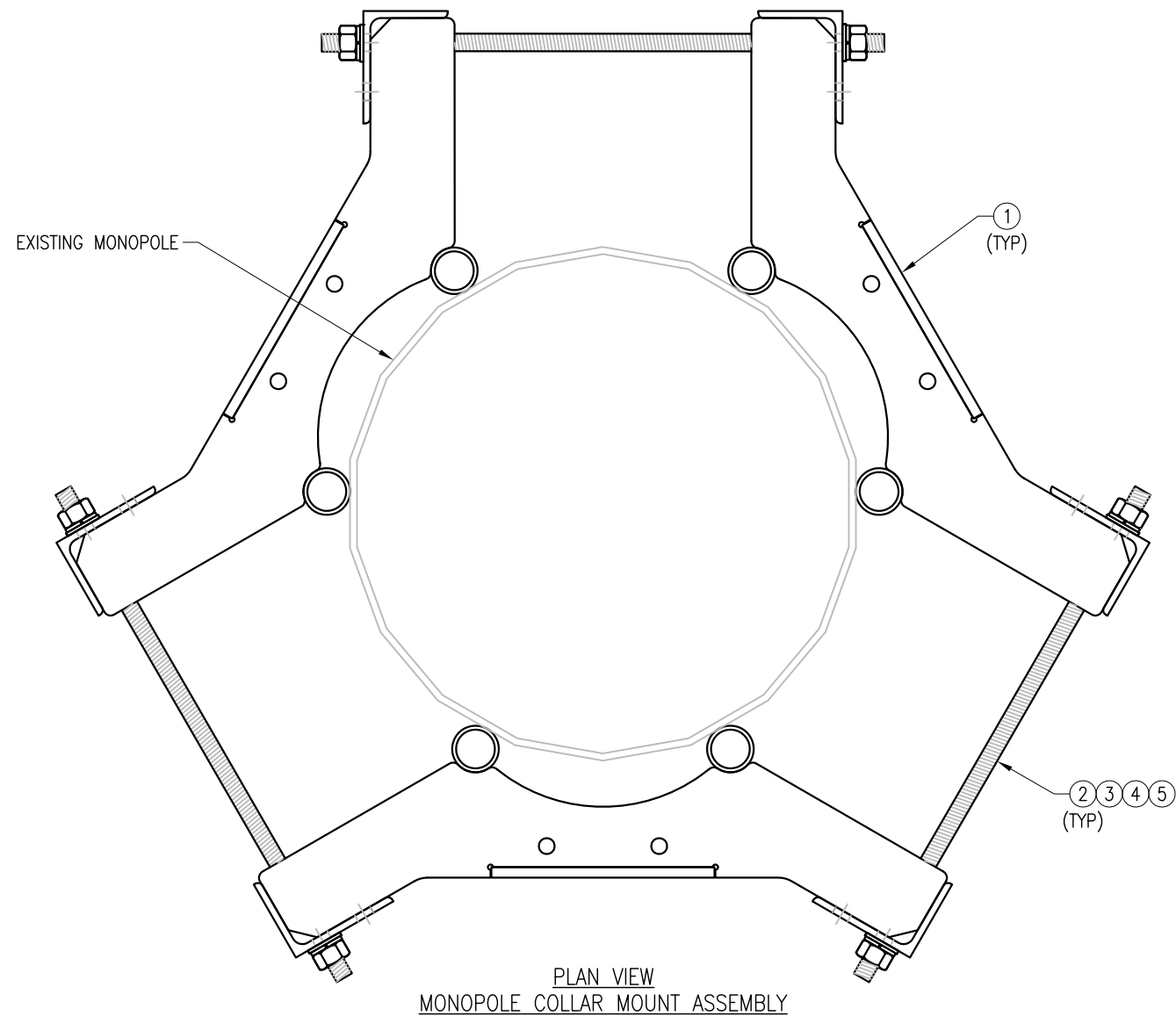
DRAWN BY: H.R. CHECKED BY: HMA

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

SHEET TITLE:

VZWSMART-PLK1
 SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART-PLK1 REV #: 0



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

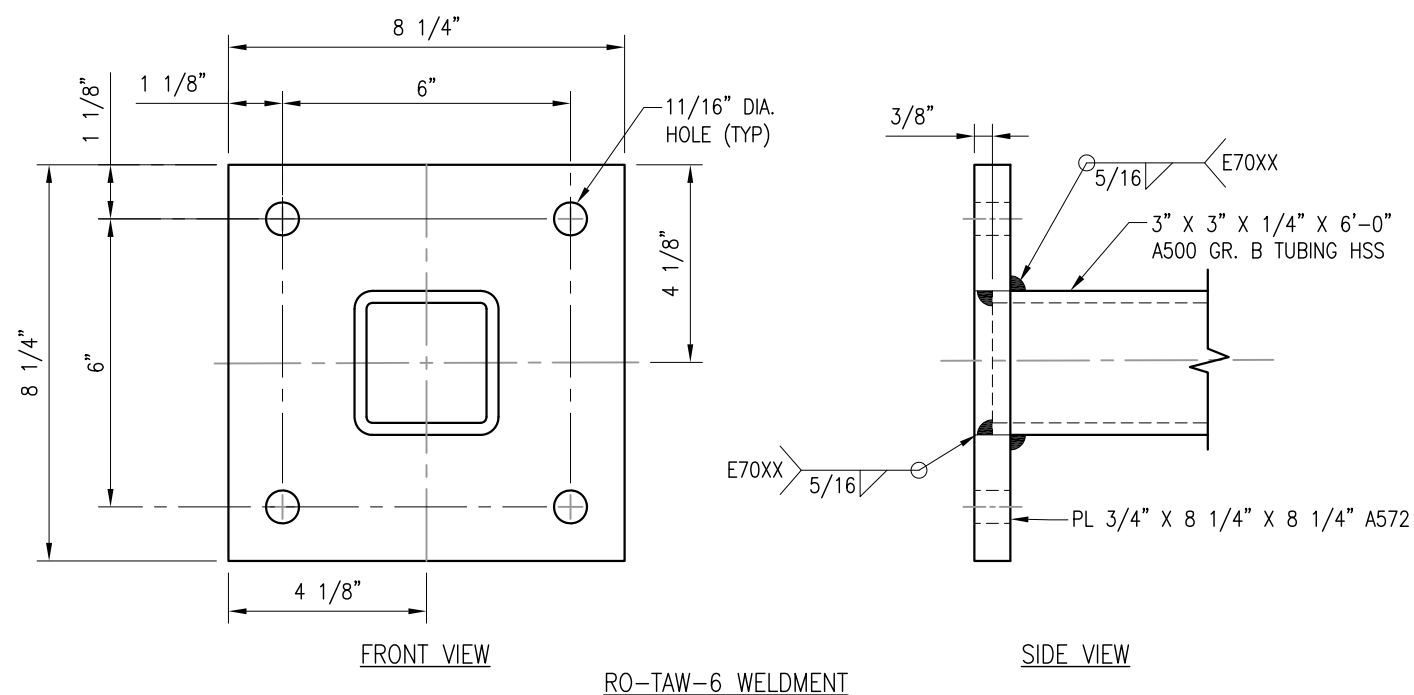
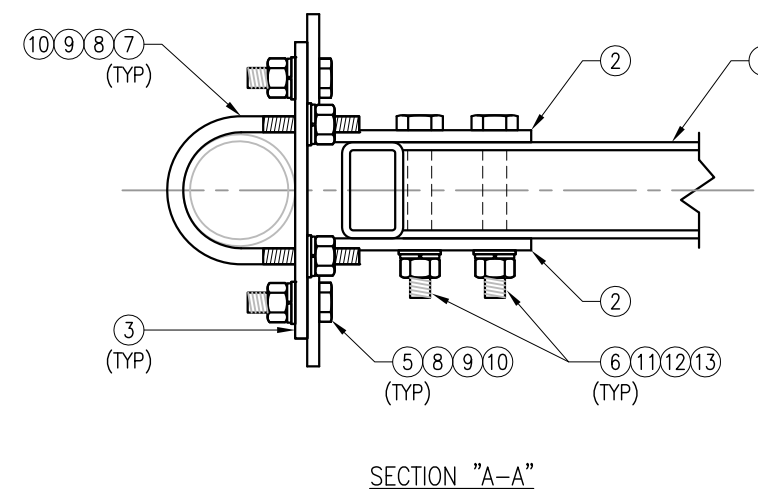
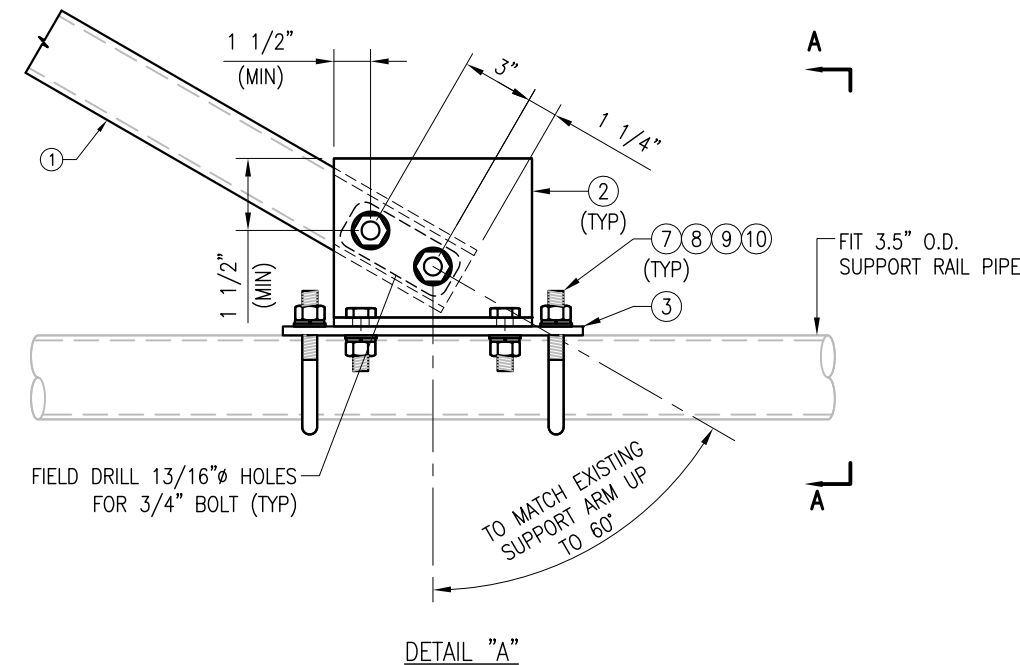
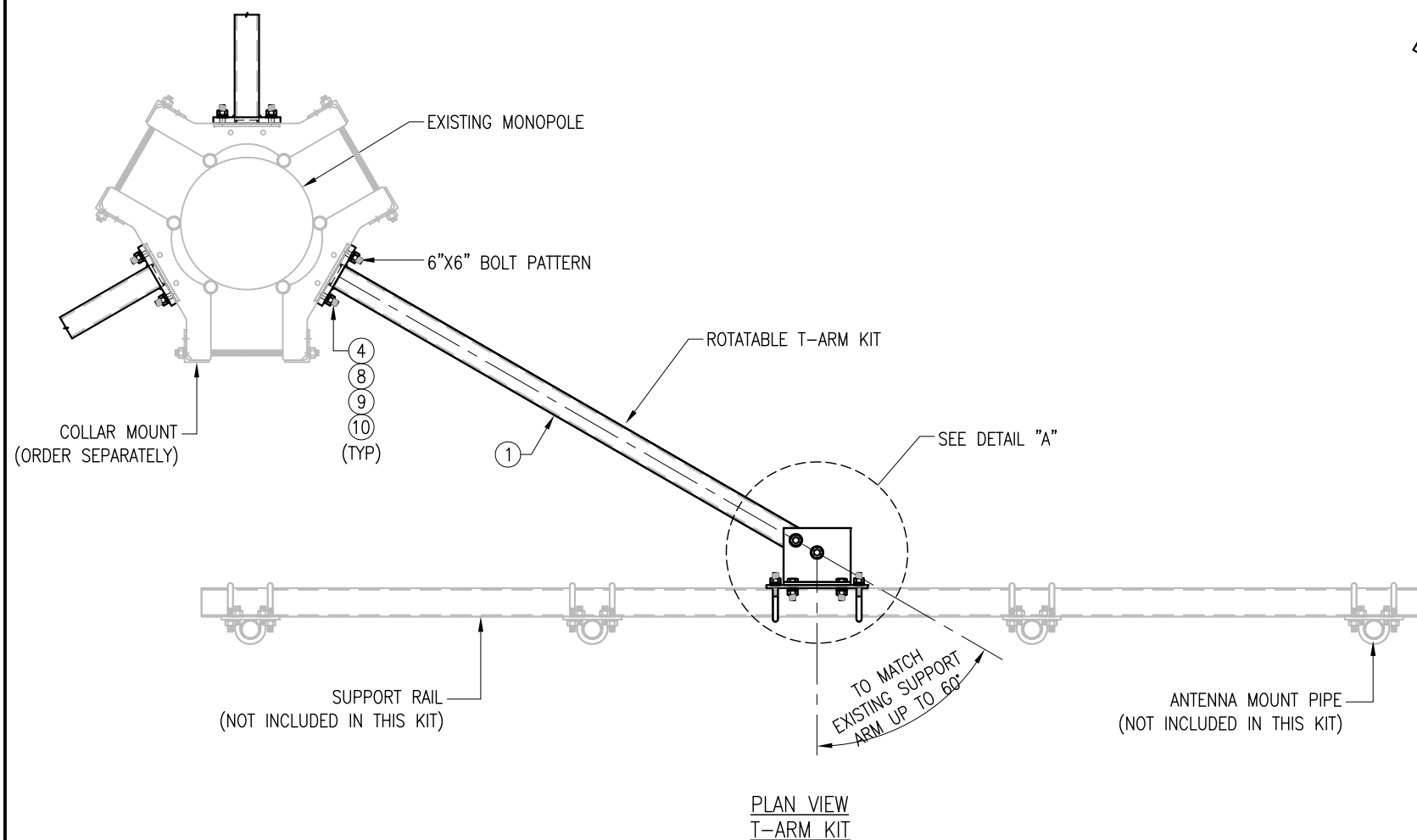
VZSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT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

DRAWN BY: BT CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
 VZSMART-PLK7
 MONOPOLE COLLAR
 MOUNT ASSEMBLY

SHEET NUMBER: VZSMART-PLK7 REV #: 0



VZWSMART-SFK4 (T-ARM KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	RO-TAW-6	T-ARM WELDMENT	SFK4-F1	71
2	2	BP825-94375	PL 3/8" X 8 1/4" X 9 7/16" A36 BEND PLATE	SFK4-F2	17
3	1	PL375-92512025	PL 3/8" X 9 1/4" X 1'-0 1/2" A36	SFK4-F3	12
4	4	---	BOLT 5/8" X 2 1/4" A325	---	0
5	4	---	BOLT 5/8" X 2" A325	---	0
6	2	---	BOLT 3/4" X 5 1/4" A325	---	0
7	2	MS02-625-3625-600	RU-BOLT 5/8" X 3 5/8" I.W. X 6" I.L. A36 (OR EQUIV.)	RBC-1	3
8	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
9	12	LW-625	5/8" HDG LOCK WASHER	---	0
10	12	NUT-625	5/8" HDG HEX NUT	---	1
11	2	FW-75	3/4" HDG USS FLAT WASHER	---	0
12	2	LW-75	3/4" HDG LOCK WASHER	---	0
13	2	NUT-75	3/4" HDG HEX NUT	---	0
GALVANIZED WT					106

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

DRAWN BY: BT CHECKED BY: HMA/KW

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

SHEET TITLE:

VZWSMART-SFK4
T-ARM KIT

SHEET NUMBER: REV #:

VZWSMART-SFK4 0

ATTACHMENT 5



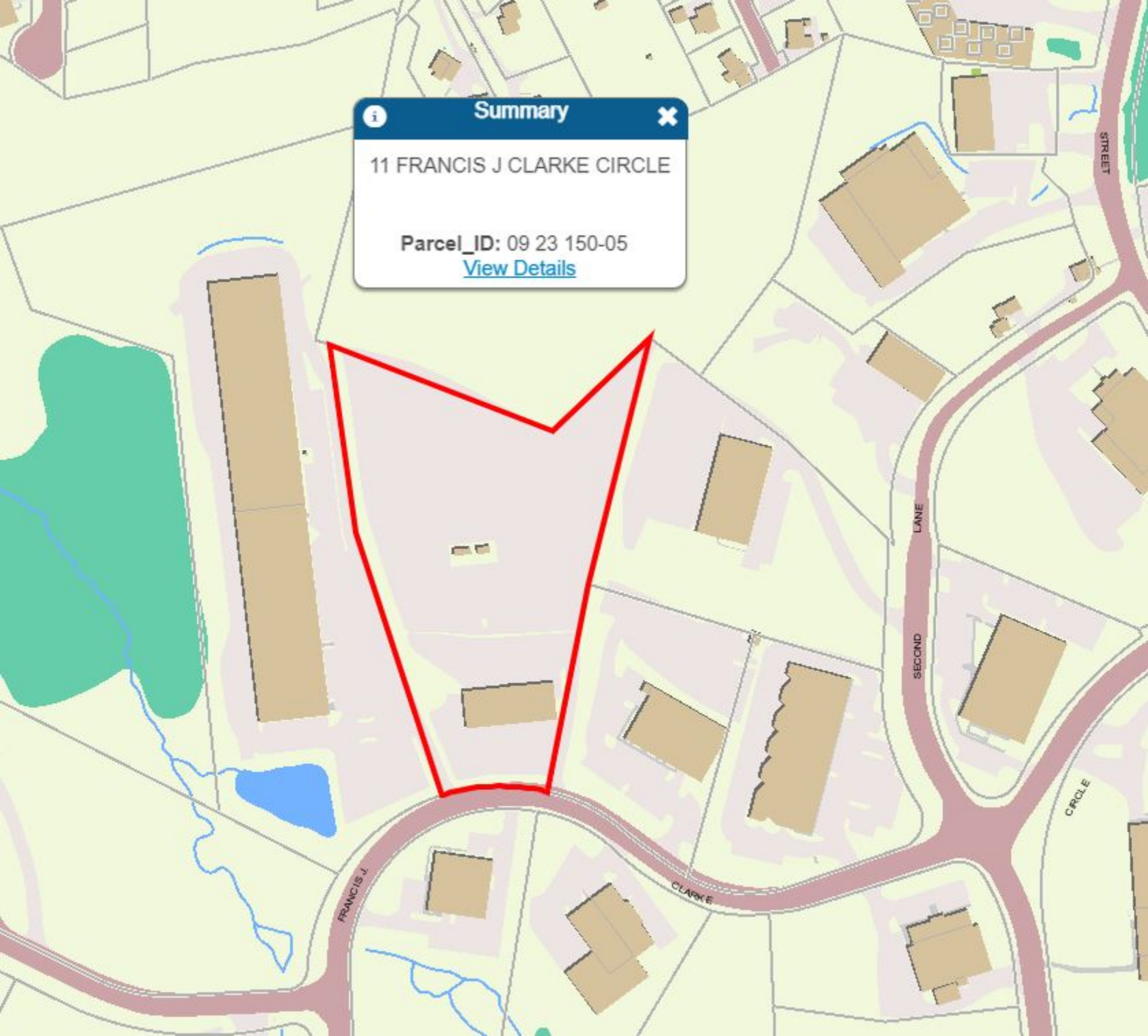
Summary



11 FRANCIS J CLARKE CIRCLE

Parcel_ID: 09 23 150-05

[View Details](#)



Bethel, CT : Assessor Database

Property Search:

Parcel ID:
Alternate ID:
Owner 1 Name:
Street Number:
Street Name:

Property Detail:

Parcel ID:	Alternate ID/Map Block Lot:	Card:	Card:	Street Name:	Street Number:	Zoning:	LUC:	Acres:
09 23 150-05	R05677	1	1	FRANCIS J CLARKE CIRCLE	11	IP	WAREHOUSES	5.80

Owner Information:

Owner 1 Name:	STERGUE COSTA
Owner 2 Name:	
Street 1:	562 REDDING ROAD
Street 2:	
City:	WEST REDDING
State:	CT
Zip:	06896
Volume:	385
Page:	409
Deed Date:	1986-07-22

Property Images:

Picture:



Sketch:



ID	Code	Description
A	VS2	ZS
B	044	LIGHT MANUFACTURING
C	044	LIGHT MANUFACTURING
D	082	MULTI-USE OFFICE
E	OD1	OVERHEAD DR-WOOD/MT
F	OD1	OVERHEAD DR-WOOD/MT
G	SS1	SPRINKLER SYS WET
H	OD1	OVERHEAD DR-WOOD/MT
I	PA1	PAVING ASPHALT PARKING

Building Information:

Building Number:	1
Units:	7
Structure Type:	MFG/PROCESSING
Grade:	C
Identical Units:	1
Year Built:	1992

Valuation:

Appraised Land:	\$392,800.00
Appraised Land PA490:	\$0.00
Appraised Bldg:	\$1,184,000.00
Appraised Total:	\$1,576,800.00
Total Assessment:	\$1,103,760.00

Out-Buildings:

Code:	Description:	Units:	Year Built:	Size1:	Size2:	Area:	Grade:	Condition:
PA1	PAVING ASPHALT PARKING	1	1992	0	0	20000	C	NORMAL (Comm)

Building Interior/Exterior Information:

Floor From:	Floor To:	Area:	Use Type:	Exterior Walls:	Construction Type:	Heating:	A/C:	Plumbing:	Functional Uti
01	01	9610	LIGHT MANUFACTURING	FRAME	WOOD FRAME/JOIST/BEAM	UNIT HEATERS	NONE	BELOW NORMAL	3
02	02	7378	LIGHT MANUFACTURING	FRAME	WOOD FRAME/JOIST/BEAM	UNIT HEATERS	NONE	BELOW NORMAL	3

02	02	2232	MULTI-USE OFFICE	FRAME	WOOD FRAME/JOIST/BEAM	HOT AIR	CENTRAL	NORMAL	3
----	----	------	------------------	-------	-----------------------	---------	---------	--------	---

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Tue, June 18, 2019 : 01:34 PM : 0.15s : 10mb



ATTACHMENT 6



BETHEL WEST
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 06/16/2021 US POSTAGE \$002.89 ⁰ ZIP 06103 041L12203937
	Postmaster, per (name of receiving employee) YCP		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Matthew Knickerbocker, First Selectman Town of Bethel 1 School Street Bethel, CT 06801				
2.	Beth Cavagna, Director Land Use/Town Planner Town of Bethel 1 School Street Bethel, CT 06801				
3.	Costa Stergue 562 Redding Road West Redding, CT 06896				
4.					
5.					
6.					

