

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

October 18, 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
310 Watertown Road (a/k/a 2579 Litchfield Road), Bethlehem, 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 and associated equipment on the ground adjacent to the tower. The tower was approved by the Town of Bethlehem Board of Selectman (“Town”) in August of 2000. Cellco’s use of the tower was approved by the Siting Council (“Council”) in March of 2006 (EM-VER-123-007-010-099-060308). A copy of the Town’s approval and the Council’s EM-VER-123-007-010-099-060308 approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing twelve (12) existing antennas with three (3) new Samsung MT6407-77A antennas and six (6) NHH-85B-R2B antennas on Cellco’s existing antenna platform. Cellco also intends to install six (6) remote radio heads (“RRHs”) behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and specifications for the new antennas and RRHs are included in Attachment 2.

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

Melanie A. Bachman, Esq.
October 18, 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 Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna platform, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Melanie A. Bachman, Esq.
October 18, 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:

Leonard Assard, Bethlehem First Selectman
Christine Reisel, Land Use Clerk
Gary and Amy Swingle, Property Owners
Karl Hanna, Verizon Wireless

ATTACHMENT 1

TOWN OF BETHLEHEM

Selectman's Office

36 Main Street South • PO Box 160
Bethlehem, CT 06751-0160
(203) 266-7677

RECEIVED FOR RECORD

Aug 26 2000
ATTEST Handless Hall
ASST TOWN CLERK OF BETHLEHEM

DECISION

At a Special Board of Selectmen meeting held on Friday, August 25, 2000, the Town of Bethlehem Board of Selectmen decided to APPROVE the application of SBA, Inc. for the construction of a telecommunications facility on property owned by Gary and Amy Swingle and having a street address of 310 Watertown Road, Watertown, Connecticut, in accordance with the following terms and conditions:

1. The telecommunications facility, including but not limited to the tower and all associated structures and equipment, shall be developed and constructed in accordance with the plans and written materials submitted to the Board of Selectmen as of the date of the public hearing (July 31, 2000). No changes may be made in the location, height, color, nature, or any other physical aspect of the telecommunications facility as shown on the described in those plans and written materials without further review and approval of the Board of Selectmen.
2. The Board of Selectmen finds that the applicants' plans and written materials for the telecommunications facility, submitted as of July 31, 2000, adequately addressed and satisfied the standards set forth in the Bethlehem Telecommunications Ordinance with the exception of Section I.3 and I.4, regarding the minimization of the need for towers within the Town by appropriate encouragement of co-locations; Section III.1.b(2), as to the availability within the Town of Bethlehem of emergency equipment to handle emergency circumstances occurring on the tower at heights greater than 120 feet; and Section VI, regarding a surety bond for any needed site restoration.
3. The applicant has supplemented its proposal regarding the availability of emergency equipment by offering, by letter dated August 25, 2000, contributions of \$5,000 to the capital fund of the fire services of the Town for the purchase of future equipment and training for the firefighters, and an additional \$5,000 to the Bethlehem Ambulance Association. Although those contributions do not, in themselves, assure the availability of the necessary emergency equipment, the Board of Selectmen has determined that this specific application cannot be reasonably charged with the full duty to acquire all necessary equipment, since such equipment would also benefit future applicants, who would then have no obligation to share in the burden of providing such equipment. The Board of Selectmen further finds that the proposed contributions reflect a reasonable apportionment of the obligation to provide the necessary emergency services, given the location of the tower and the portion of the Town of Bethlehem the telecommunications facility is likely to be capable of serving.

4. The Board of Selectmen finds that the remaining deficiencies in the application can be satisfactorily addressed by the imposition of the following conditions:

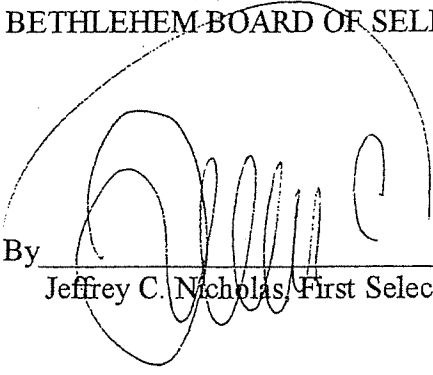
a. A surety bond for the restoration shall be provided in the sum of One Hundred Twenty-Five Thousand Dollars (\$ 125,000.00).

b. Tower access for multiple antenna for use by the Town of Bethlehem emergency services, i.e., Volunteer Fire Department, Police and Ambulance Association at no cost to the Town.

Dated at Bethlehem, Connecticut as of this 25th day of August, 2000.

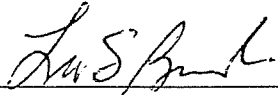
BETHLEHEM BOARD OF SELECTMEN

By



Jeffrey C. Nicholas, First Selectman

By



Leo Bulvanoski, Selectman



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

March 24, 2006

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

RE: EM-VER-123-007-010-099-060308 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify existing telecommunications facilities located at 165 Huntington Road, Scotland; 1657 Wilbur Cross Parkway, Berlin; 310 Watertown Road, Bethlehem; and 88 Parsonage Hill Road, Northford (North Branford), Connecticut.

Dear Attorney Baldwin:

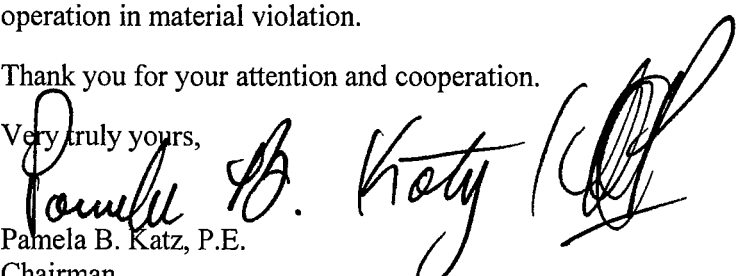
At a public meeting held on March 22, 2006, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated March 8, 2006, including the placement of all necessary equipment and shelters within the tower compounds. 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 existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

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 any of these facilities 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

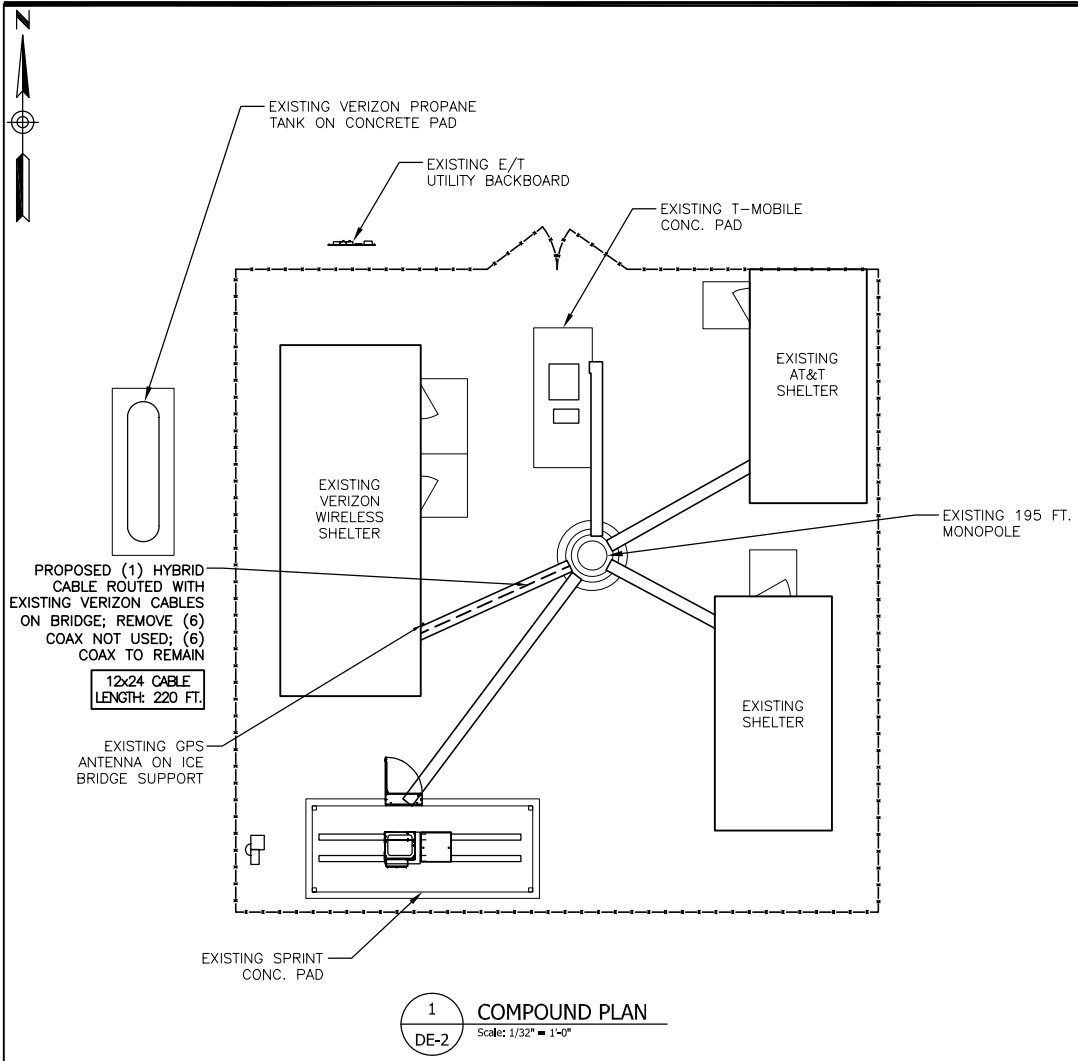
PBK/laf

See Attached List.

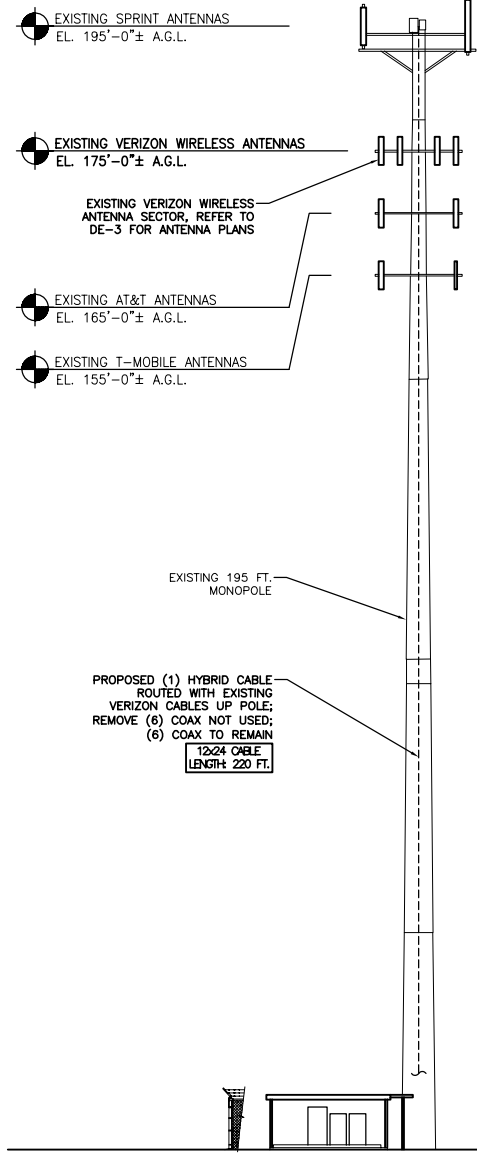
List Attachment.

- c: The Honorable Adam P. Salina, Mayor, Town of Berlin
- Hellyn Riggins, Town Planner, Town of Berlin
- The Honorable Leo S. Bulvanoski, First Selectman, Town of Bethlehem
- Jeffrey Hamel, Chairman, Planning and Zoning, Town of Bethlehem
- The Honorable Andrew Esposito III, Mayor, Town of North Branford
- Carol Zeeb, Town Planner, Town of North Branford
- The Honorable Elizabeth A. Wilson, First Selectman, Town of Scotland
- Carl S. Fontneau, Town Planner, Town of Scotland
- Berlin Fire Department
- Jean Szwabowski, Ochenknowski Towers LLC
- Sheila R. Becker, Regional Director of Compliance, SBA, Inc.
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
- Michele G. Briggs, New Cingular Wireless PCS, LLC
- Christine Farrell, T-Mobile, Inc.
- Thomas F. Flynn III, Nextel Communications, Inc.

ATTACHMENT 2



NOTES:
 1. COMPOUND PLAN IS COMPILED FROM EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT FOR A PROPOSED VERIZON ANTENNA MODIFICATION.
 2. PLANS ARE DIAGRAMMATIC ONLY AND NOT TO BE SCALED.
 3. REFER TO STRUCTURAL TOWER AND MOUNT ANALYSIS REPORTS, BY OTHERS UNDER SEPARATE COVER, FOR ANY REQUIRED TOWER & MOUNT REINFORCEMENTS, WHICH MUST BE PERFORMED PRIOR TO ANY OTHER VERIZON ANTENNA MODIFICATIONS.



verizon
 WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

On Air Engineering, LLC
 88 Foundry Pond Road
 Cold Spring, NY 10516
 201-456-4624
 onair@optonline.net

LICENSURE

DAVID WEINPAHL, P.E.
 CT LIC NO. 22144

SUBMITTALS

NO.	DATE	REVISION
0	04.15.21	REVIEW
1	06.21.21	REVISED PER NEW RFDS

NO.	DATE	DESCRIPTION

DRAWN BY: AG
 CHECKED BY: DW

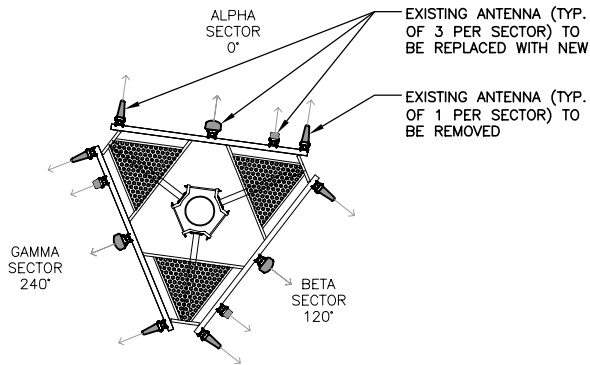
PROJECT NAME:
**ANTMO MT6407
 850-LTE-PCS-AWS
 DESIGN EXHIBITS**

SITE NAME:
BETHLEHEM NE CT

SITE ADDRESS:
**SBA SITE # CT01501
 310 WATERTOWN RD.
 BETHLEHEM, CT 06763**

SHEET TITLE:
**COMPOUND PLAN
 & ELEVATION**

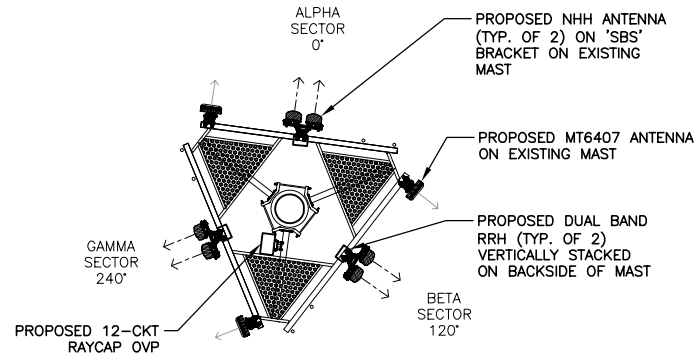
SHEET NUMBER:
DE-2



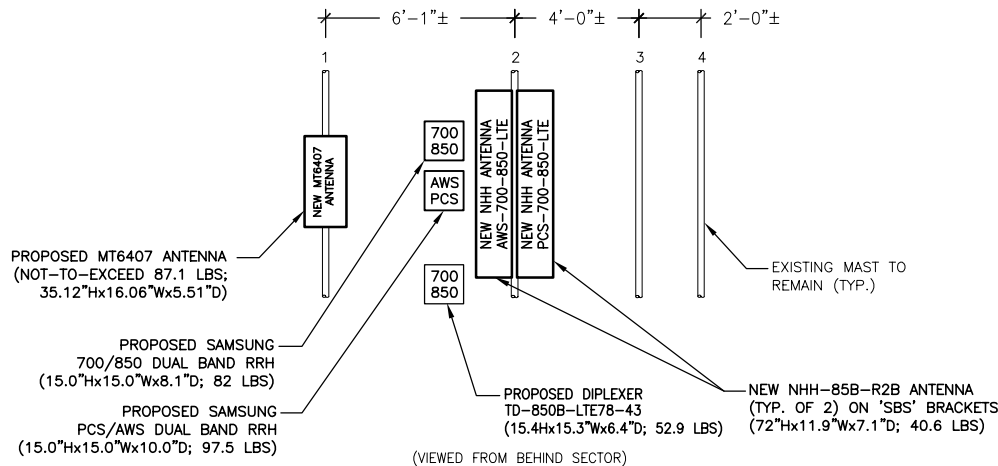
1 ANTENNA PLAN @ 175 FT. - EXISTING
Scale: 1/8" = 1'-0"

NOTE: REFER TO MOUNT MODIFICATION DRAWINGS, UNDER SEPARATE COVER BY MASER CONSULTING

NOTE: NEW DUAL RRH LOCATIONS SHOWN BASED ON MOUNT ANALYSIS BY OTHERS



2 ANTENNA PLAN @ 175 FT. - PROPOSED
Scale: 1/8" = 1'-0"



3 ANTENNA ELEVATION (TYP.) - PROPOSED
Scale: 1/4" = 1'-0"



WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE



DAVID WEINHART, P.E.

CT LIC NO. 22144

SUBMITTALS

NO	DATE	REVIEW
0	04.15.21	REVIEW
1	06.21.21	REVISED PER NEW RFDS

NO DATE DESCRIPTION

DRAWN BY: AG

CHECKED BY: DW

PROJECT NAME:
**ANTMO MT6407
850-LTE-PCS-AWS
DESIGN EXHIBITS**

SITE NAME:
BETHLEHEM NE CT

SITE ADDRESS:
**SBA SITE # CT01501
310 WATERTOWN RD.
BETHLEHEM, CT 06763**

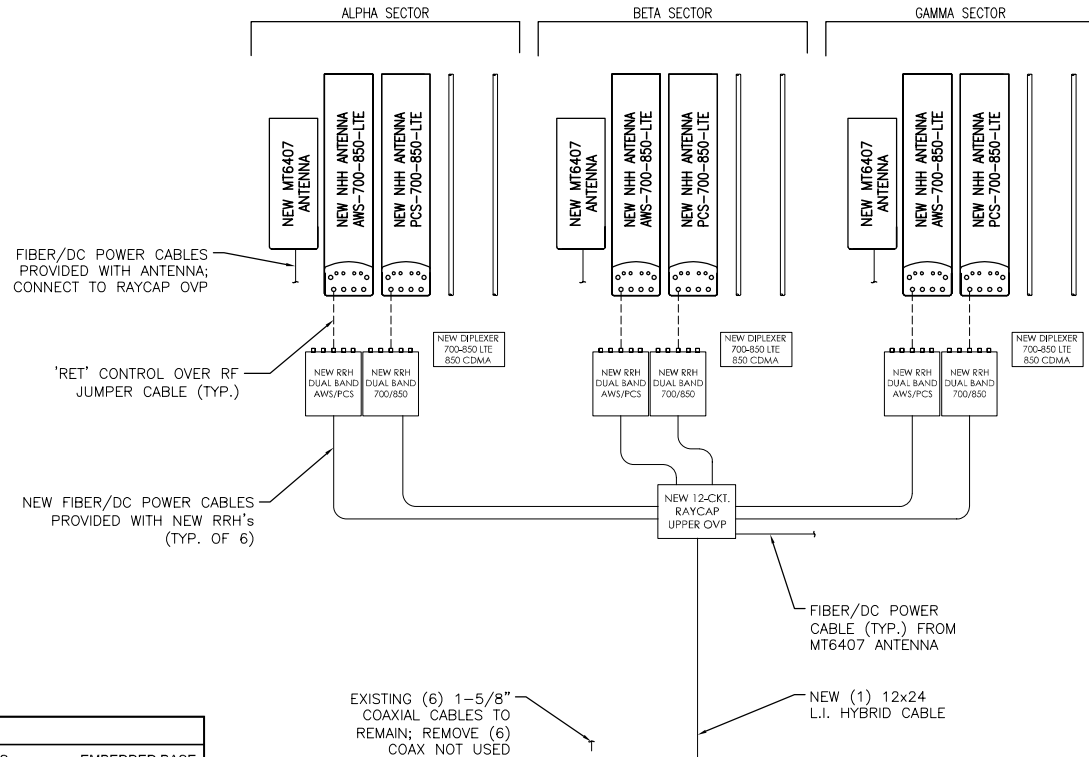
SHEET TITLE:
**ANTENNA PLANS
& ELEVATION**

SHEET NUMBER:
DE-3

GENERAL NOTES:

- CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
- CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS INSTRUCTIONS. EXTERIOR CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING SUPPORTS EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS WHEN REQUIRED.
- ALL CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS
- REFER TO RFDS FOR DETAILED PLUMBING DIAGRAM SHOWING ALL JUMPER AND OTHER CABLING CONNECTIONS AT ANTENNAS, RRH's, DIPLEXERS OR OTHER DEVICES.

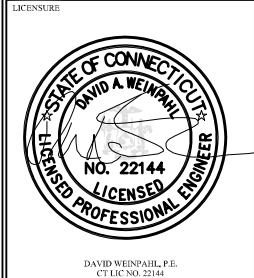
NOTE: ALL ANTENNAS VIEWED FROM REAR



BILL OF MATERIALS			
SITE NAME: BETHLEHEM NE CT	ANTMO MT6407-850-LTE-PCS-AWS		EMBEDDED BASE
DESCRIPTION	QTY	LENGTH	COMMENTS
LOWER OVP	2	-	RACK MOUNT
12-CKT, UPPER OVP	1	-	
12x24 HYBRID CABLE	1	220 FT.	
RET CONTROL CABLE	-	-	NOT REQUIRED FOR NHH ANTENNAS
1/2" JUMPER CABLE	-	-	SEE NOTE 2
AWS/PCS DUAL BAND RRH	3	-	REFER TO RFDS - 1 PER SECTOR
700/850 DUAL BAND RRH	3	-	REFER TO RFDS - 1 PER SECTOR
700/850 DIPLEXER	3	-	REFER TO RFDS - 1 PER SECTOR
MT6407 ANTENNA	3	-	SAMSUNG INTEGRATED
NHH AWS-700-850LTE ANTENNA	3	-	REFER TO RFDS - 1 PER SECTOR
NHH PCS-700-850LTE ANTENNA	3	-	REFER TO RFDS - 1 PER SECTOR
SBS MOUNTING BRACKET	3	-	REFER TO RFDS - 1 PER SECTOR
850-CDMA ANTENNA	-	-	EXISTING (6) TO BE REMOVED - 2 PER SECTOR

- NOTES:
- ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
 - CONTRACTOR SHALL DETERMINE AND PROVIDE ALL REQUIRED PRE-FAB JUMPER QUANTITIES AND LENGTHS, KEEPING ALL LENGTHS TO A MINIMUM.

1 DE-4 RF PLUMBING DIAGRAM Scale: N.T.S.



SUBMITTALS	
NO.	DATE
0	04.15.21
1	06.21.21

PROJECT NAME:
**ANTMO MT6407
 850-LTE-PCS-AWS
 DESIGN EXHIBITS**

SITE NAME:
BETHLEHEM NE CT

SITE ADDRESS:
**SBA SITE # CT01501
 310 WATERTOWN RD.
 BETHLEHEM, CT 06763**

SHEET TITLE:
**RF PLUMBING
 DIAGRAM & B.O.M.**

SHEET NUMBER:
DE-4

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELLCO PARTNERSHIP d/b/a VERIZON*, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELLCO PARTNERSHIP d/b/a VERIZON* IS TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.




WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



88 Foundry Pond Road
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201-456-4624
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LICENSURE



DAVID WEINHART, P.E.
CT LIC NO. 22144

SUBMITTALS	
0	04.15.21 REVIEW
1	06.21.21 REVISED PER NEW RFDS

NO.	DATE	DESCRIPTION

PROJECT NAME:
**ANTMO MT6407
850-LTE-PCS-AWS
DESIGN EXHIBITS**

SITE NAME:
BETHLEHEM NE CT

SITE ADDRESS:
**SBA SITE # CT01501
310 WATERTOWN RD.
BETHLEHEM, CT 06763**

SHEET TITLE:
**GENERAL
CONSTRUCTION
NOTES**

SHEET NUMBER:
DE-5

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

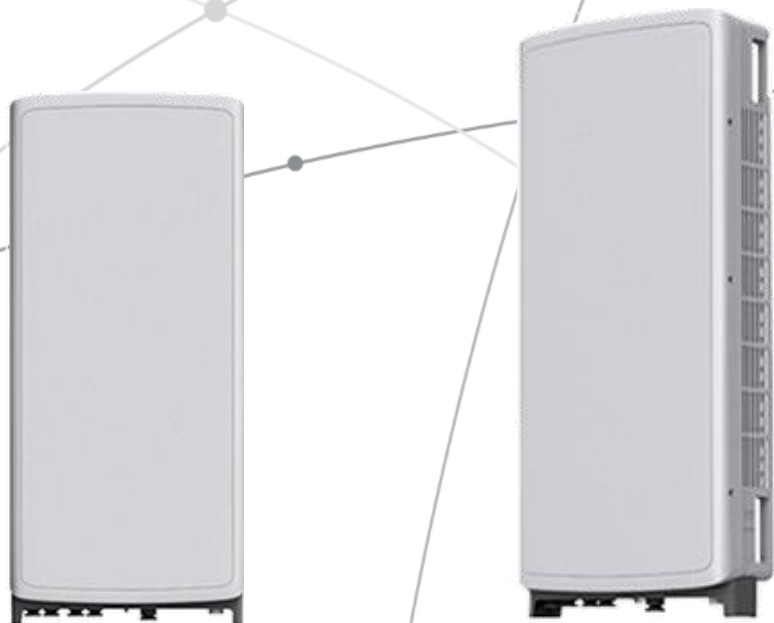
Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: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

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A



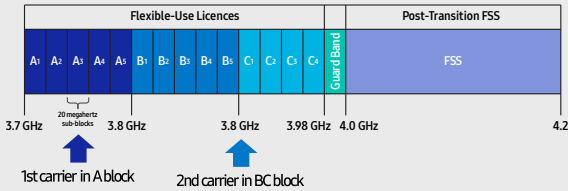
Points of Differentiation

Wide Bandwidth

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

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

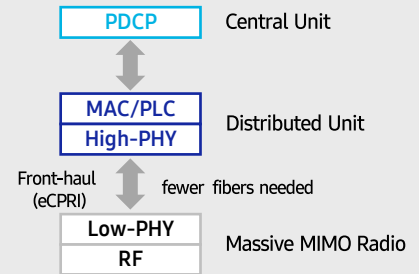
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

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

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

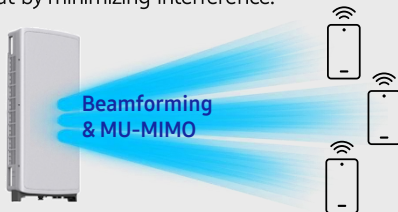


Enhanced Performance

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

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

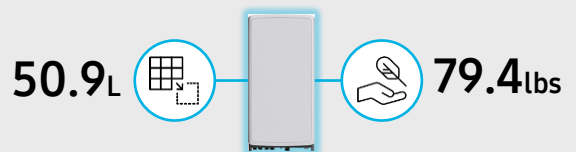
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

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

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



Technical Specifications

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



SAMSUNG



About Samsung Electronics Co., Ltd.

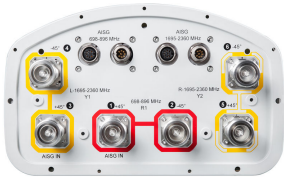
Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

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

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NHH-85B-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 85° HPBW, 2x RET. Both high bands share the same electrical tilt.

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

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Grounding Type	RF connector body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information

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

NHH-85B-R2B

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 301 mm | 11.85 in

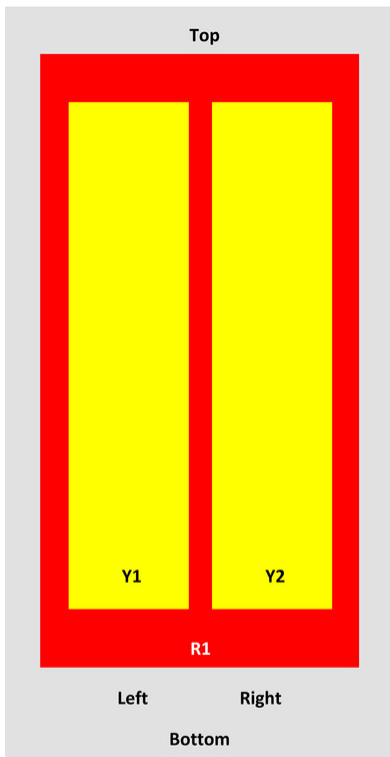
Depth 180 mm | 7.087 in

Length 1851 mm | 72.874 in

Net Weight, without mounting kit 19.8 kg | 43.651 lb

Array Layout

NHH



Array	Freq (MHz)	Coms	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANXXXXXXXXXXXXXXX1
Y1	1695-2360	3-4	2	ANXXXXXXXXXXXXXXX2
Y2	1695-2360	5-6		

View from the front of the antenna

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

Electrical Specifications

Impedance 50 ohm

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

NHH-85B-R2B

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

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.4	14.4	17.1	17.6	17.9	18.1
Beamwidth, Horizontal, degrees	82.5	87	80	79.3	78	78
Beamwidth, Vertical, degrees	12.3	11.2	5.7	5.3	5	4.6
Beam Tilt, degrees	0–12	0–12	0–8	0–8	0–8	0–8
USLS (First Lobe), dB	18	16	14	16	17	18
Front-to-Back Ratio at 180°, dB	28	26	34	30	30	30
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	25	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.1	14.1	16.6	17.3	17.6	17.7
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.5	±0.6	±0.4	±0.4	±0.4
Gain by Beam Tilt, average, dBi	0° 14.1 6° 14.2 12° 14.0	0° 14.0 6° 14.3 12° 13.8	0° 16.6 4° 16.6 8° 16.7	0° 17.3 4° 17.4 8° 17.3	0° 17.6 4° 17.6 8° 17.5	0° 17.6 4° 17.8 8° 17.6
Beamwidth, Horizontal Tolerance, degrees	±1.8	±2	±4.8	±4.0	±4.0	±2.6
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.9	±0.2	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	18	16	14	15	16	17
Front-to-Back Total Power at 180° ± 30°, dB	22	22	27	26	25	26
CPR at Boresight, dB	21	22	19	19	19	22

NHH-85B-R2B

CPR at Sector, dB	20	20	15	17	17	16
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Mechanical Specifications

Effective Projective Area (EPA), frontal	0.27 m ² 2.906 ft ²
Effective Projective Area (EPA), lateral	0.22 m ² 2.368 ft ²
Wind Loading @ Velocity, frontal	283.0 N @ 150 km/h (63.6 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	545.0 N @ 150 km/h (122.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	409 mm 16.102 in
Depth, packed	299 mm 11.772 in
Length, packed	1970 mm 77.559 in
Weight, gross	31.9 kg 70.327 lb

Regulatory Compliance/Certifications

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



Included Products

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

Performance Note	Severe environmental conditions may degrade optimum performance
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ATTACHMENT 3

	General	Power	Density					
Site Name: Bethlehem NE								
Tower Height: Verizon @ 175ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS. EXP.	FRACTION MPE	Total
*Sprint	1	438	195	850	0.0044	0.5667	0.08%	
*Sprint	5	623	195	1900	0.0314	1.0000	0.31%	
*Sprint	2	1556	195	1900	0.0313	1.0000	0.31%	
*Sprint	8	640	195	2500	0.0515	1.0000	0.52%	
*Sprint	2	433	195	850	0.0087	0.5667	0.15%	
*AT&T 850MHz UMTS	2	414	165	850	0.0118	0.5667	0.21%	
*AT&T 700MHz LTE	4	736	165	700	0.0419	0.4667	0.90%	
*AT&T 1900MHz LTE	4	1469	165	1900	0.0836	1.0000	0.84%	
*AT&T 700MHz LTE	2	865	165	700	0.0246	0.4667	0.53%	
*T-Mobile	6	1101	155	1900/2100	0.1070	1.0000	1.07%	
*LTE	1	865	155	700	0.0140	0.4667	0.30%	
VZW 700	4	618	175	751	0.0029	0.5007	0.58%	
VZW CDMA	2	290	175	878.49	0.0007	0.5857	0.12%	
VZW Cellular	4	440	175	872.5	0.0021	0.5817	0.36%	
VZW PCS	4	1358	175	1975	0.0064	1.0000	0.64%	
VZW AWS	4	1409	175	2120	0.0066	1.0000	0.66%	
VZW CBAND	4	6531	175	3730.08	0.0307	1.0000	3.07%	
								10.65%
* Source: Siting Council								

ATTACHMENT 4



Tower Engineering Solutions

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

Structural Analysis Report

Existing 195 ft Nudd Corporation Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT01501-S

Customer Site Name: Morris

Carrier Name: Verizon (App#: 130516-4)

Carrier Site ID / Name: 467590 / BETHLEHEM NE CT

Site Location: 310 Watertown Road

Bethlehem, Connecticut

Litchfield County

Latitude: 41.667219

Longitude: -73.170516

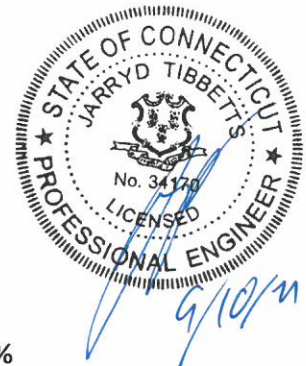
Analysis Result:

Max Structural Usage: 91.6% [Pass]

Max Foundation Usage: 93.5% [Pass]

Additional Usage Caused by Mount Modification: +1.8%

Report Prepared By : Changzhi Zang





Tower Engineering Solutions

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1320 Greenway Drive, Suite 600, Irving, Texas 75038

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Latitude: 41.667219

Longitude: -73.170516

Analysis Result:

Max Structural Usage: 91.6% [Pass]

Max Foundation Usage: 93.5% [Pass]

Additional Usage Caused by Mount Modification: 1.8

Report Prepared By : Changzhi Zang

Introduction

The purpose of this report is to summarize the analysis results on the 195 ft Nudd Corporation Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Fred A. Nudd Corporation (Drawing No. 00-7627-1) original design drawings dated May 8, 2000 o2wireless Solutions (Job No. 2230-043) Monopole Tower Structural Analysis Report dated September 4, 2002
Foundation Drawing	Fred A. Nudd Corporation (Drawing No. 00-7627-1) original design drawings dated May 8, 2000
Geotechnical Report	Jaworski Geotech, Inc., Project # 99290G, Dated 11/17/1999
Pending Modification Drawings	TES, Project #111743, dated June 16, 2021
Mount Analysis	TES, Project #109277, dated June 16, 2021 Maser Consulting Connecticut, Project #: 21777147A, dated June 30, 2021

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 120.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 93.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			- Panel	(1) RRH Collar Mount and Low Profile Platform with: (1) Platform Reinforcement Kit (SitePro1 Part PRK-1245L); (1) Handrail Components- V-Brace Kit (SitePro1 Part PRK-SFS-L); (1) Handrail Components [(3) Pipe 2.0 STD x12.5' Horiz. Rail; Pipe 2.0 STD x (3) 4' long corner braces; (6) Sitepro1 Part # Puck brackets; (9) Pipe2.5 STD mount pipes; (18) Sitepro1 SCX x -K cross-over plates]	Hybrid	Sprint Nextel
		ALU 800 Mhz – RRU's				
		- RETs				
		ALU 1900 Mhz – RRU's				
		ALU 800 Mhz Filter – Filters				
		Commscope DT465B-2XR – Panel				
		ALU TD-RRH8x20-25 – RRU's				
		Commscope JAHH-65B-R3B - Panel	Low Profile Platform & [(3) Commscope BSAMNT-SDS-2-2]	Hybrid	Verizon	
		Antel LPA-80080/6CF - Panel				
		Alcatel-Lucent B66A - RRU				
		Alcatel-Lucent B13 RRH4X30-4R				
		Powerwave 7770.00 - Panel	Low Profile Platform	*(1) 3" Conduit Fiber		
		Powerwave LGP2140X TMA				
		Ericsson RRUS-11				
		Panel				
		Andrew ABT-DF-DMADBH				
		Raycap DC6-48-60-18-8F				
		Kathrein 800 10764 - Panel				
		Ericsson - AIR6449 B41 - Panel	Low Profile Platform SitePro1 HRK12 [Support Rail Kit]	(3) 1.9" Fiber	T-Mobile	
		- Panel				
		Panel				
		Ericsson - 4449 B71 + B85 - RRU				
		Ericsson - 4415 B66A - RRU				
		Ericsson - 4424 B25 - RRU				
		Ericsson - KRY 112 144/1 - TMA				
		Kathrein - 782 11056 - Bias T				

* (2) 3/4" DC and (1) 7/16" Fiber are inside (1) 3" Conduit.

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

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Commscope NHH-85B-R2B - Panel	Low Profile Platform with: (3) Commscope BSAMNT-SBS-1-2 [Side-By-Side Mounting Kit] [support rail kit] [Crossover Plate] (1) Site Pro 1 SQCX4-K [Crossover Plate w/square U-bolts] (3)72"x P2.5 STD Mount Pipe (1) 36"x P2.0 STD OVP Pipe	Hybrid	Verizon
			Samsung MT6407-77A - Panel			
			Samsung B5/B13 RRH-BR04C -			
			Samsung B2/B66A RRH-BR049 -			
			Commscope TD-850B-LTE78-43 - Diplexer			

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

Analysis Results

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

	Pole shafts
Max. Usage:	
Pass/Fail	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions			

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 2.2153 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

This analysis was performed based on the information supplied to **Tower Engineering Solutions,** Verification of the information provided was not included in the Scope of Work for . The accuracy of the analysis is dependent on the accuracy of the information provided.

The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of . In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, should be notified in writing and the applicable minimum values provided by the client.

The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 91.62% at 81.0ft

Structure: CT01501-S-SBA
Site Name: Morris
Height: 195.00 (ft)
Base Elev: 0.000 (ft)

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

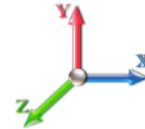
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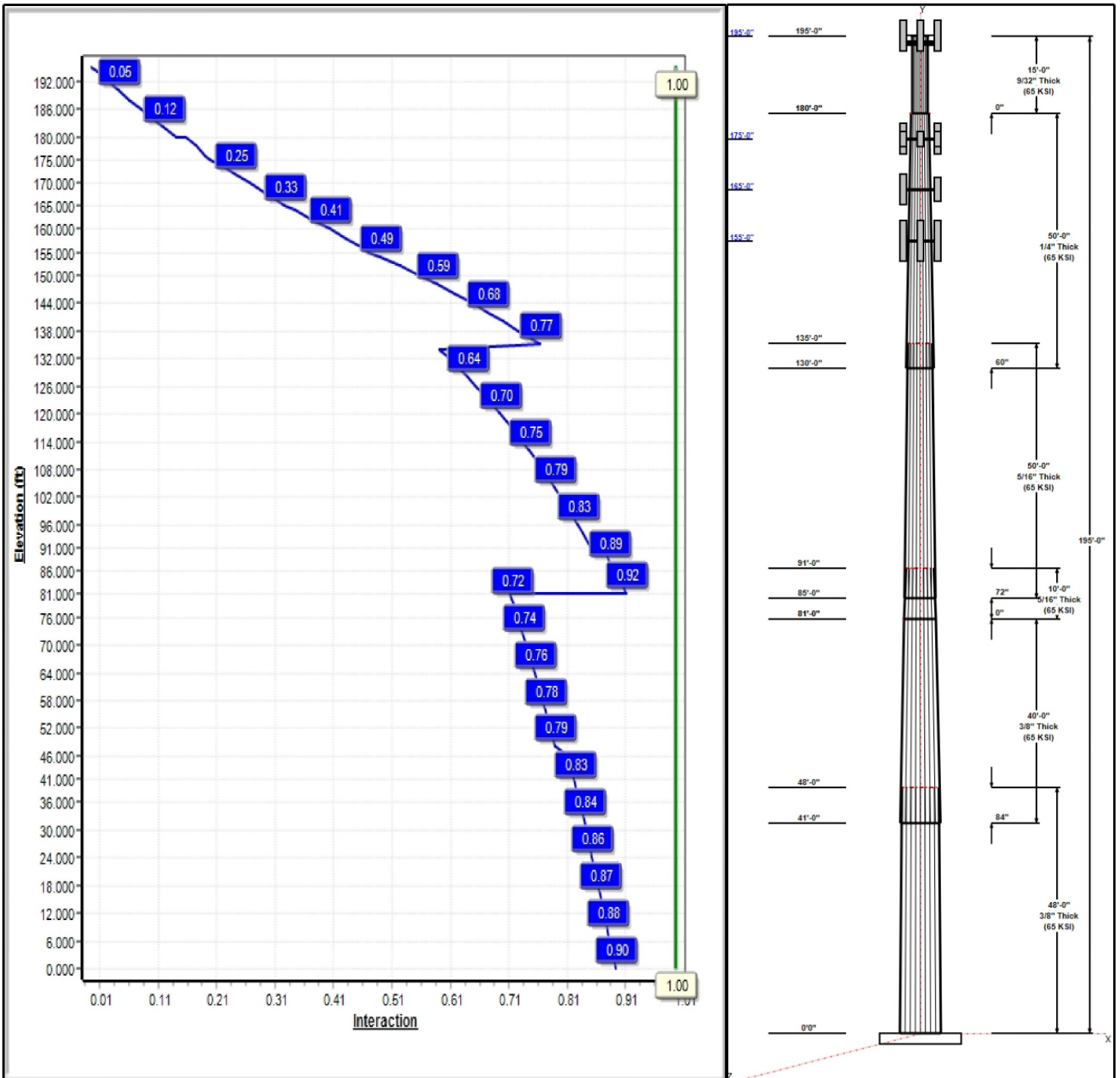
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Load Case : 1.2D + 1.6 93 mph Wind



Iterations: 32

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Structure: CT01501-S-SBA

Type: Custom
Site Name: Morris
Height: 195.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.23542

9/10/2021

Page: 2



Shaft Properties

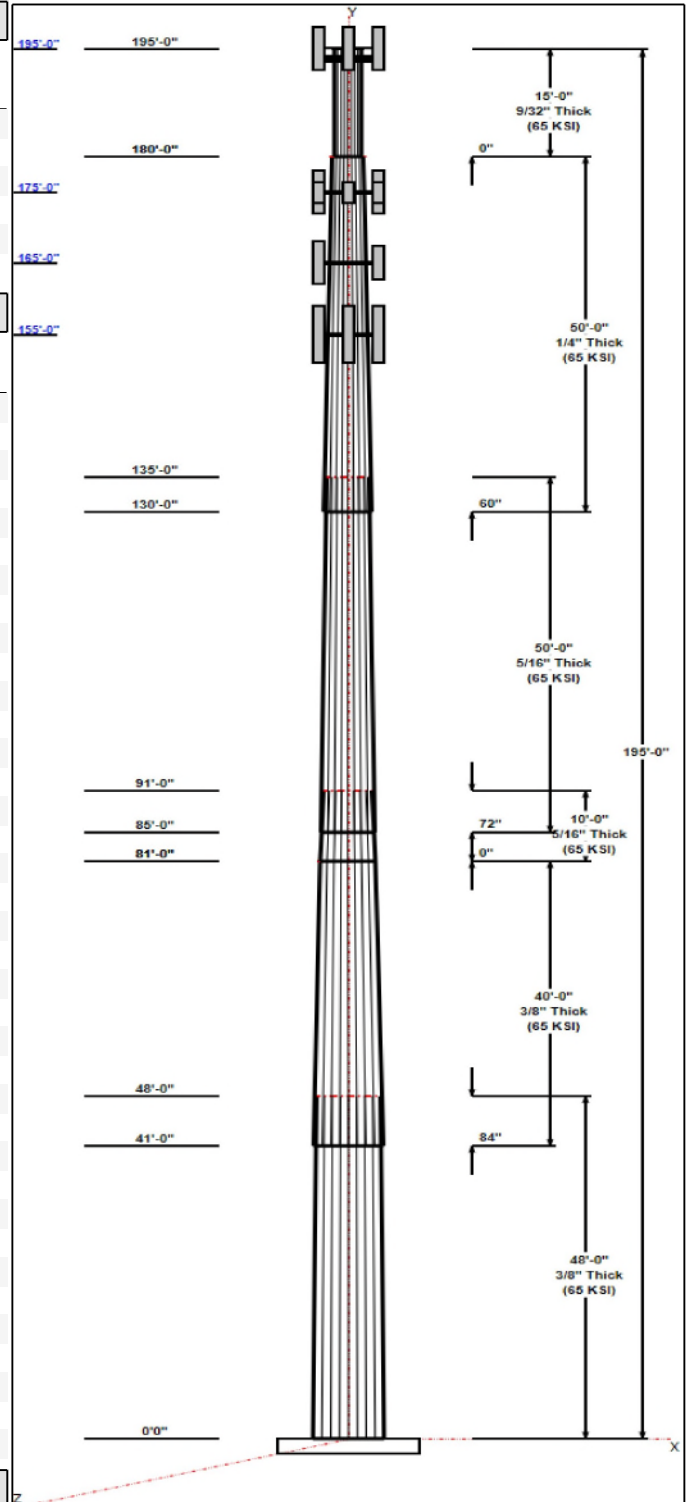
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	48.00	53.20	64.50	0.375		0.23542	65
2	40.00	46.18	55.60	0.375	Slip	0.23542	65
3	10.00	43.83	46.18	0.313	Butt	0.23542	65
4	50.00	34.09	45.86	0.313	Slip	0.23542	65
5	50.00	24.00	35.77	0.250	Slip	0.23542	65
6	15.00	24.00	24.00	0.281	Butt	0.00000	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
195.00	195.00	3	APXVSP18-C-A20	Sprint Nextel
195.00	195.00	6	800 Mhz	Sprint Nextel
195.00	195.00	4	ACU-A20-N	Sprint Nextel
195.00	195.00	3	1900MHz RRH	Sprint Nextel
195.00	195.00	3	800 Mhz Filter	Sprint Nextel
195.00	195.00	3	Commscope DT465B-2XR	Sprint Nextel
195.00	195.00	3	TD-RRH8x20-25	Sprint Nextel
195.00	195.00	1	Modified Platform + HR &	Sprint Nextel
193.00	193.00	1	Collar Mount	Sprint Nextel
175.00	175.00	1	Low Profile Platform	Verizon
175.00	175.00	3	Commscope	Verizon
175.00	175.00	1	HRK14	Verizon
175.00	175.00	6	Commscope	Verizon
175.00	175.00	3	Samsung MT6407-77A	Verizon
175.00	175.00	3	Samsung B5/B13	Verizon
175.00	175.00	3	Samsung B2/B66A	Verizon
175.00	175.00	1	RFS DB-C1-12C-24AB-0Z	Verizon
175.00	175.00	3	Commscope	Verizon
165.00	165.00	6	7770.00	AT&T
165.00	165.00	12	LGP2140X TMA	AT&T
165.00	165.00	6	RRUS-11	AT&T
165.00	165.00	1	AM-X-CD-16-65-00T-RET	AT&T
165.00	165.00	1	ABT-DF-DMADBH	AT&T
165.00	165.00	1	DC6-48-60-18-8F	AT&T
165.00	165.00	2	800 10764	AT&T
165.00	165.00	1	Low Profile Platform	AT&T
155.00	155.00	3	782 11056	T-Mobile
155.00	155.00	3	S20057A1	T-Mobile
155.00	155.00	3	KRY 112 144/1	T-Mobile
155.00	155.00	1	Low Profile Platform	T-Mobile
155.00	155.00	1	HRK12 (Handrail Kit)	T-Mobile
155.00	155.00	3	Ericsson AIR6449 B41	T-Mobile
155.00	155.00	3	RFS	T-Mobile
155.00	155.00	3	RFS	T-Mobile
155.00	155.00	3	Ericsson 4449 B71 + B85	T-Mobile
155.00	155.00	3	Ericsson 4415 B66A	T-Mobile
155.00	155.00	3	Ericsson 4424 B25	T-Mobile

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	195.00	Inside	1-1/4" Hybrid	Sprint Nextel
0.00	175.00	Inside	1 5/8" Coax	Verizon
0.00	175.00	Inside	1 5/8" Hybrid	Verizon



Structure: CT01501-S-SBA

Type: Custom
Site Name: Morris
Height: 195.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.00000

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0.00	165.00	Inside	1 5/8" Coax	AT&T
0.00	165.00	Inside	3" Conduit	AT&T
0.00	165.00	Inside	3/4" DC	AT&T
0.00	165.00	Inside	7/16" Fiber	AT&T
0.00	155.00	Inside	1 5/8" Coax	T-Mobile
0.00	155.00	Inside	1.9" Fiber	T-Mobile

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
24	2.00" A687	105.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.5000	51.5	45.0	Round

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6 93 mph Wind	5401.4	38.6	64.0
0.9D + 1.6W 93 mph Wind	5307.6	38.6	48.0
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1725.8	12.2	95.7
1.2D + 1.0E	239.5	1.6	64.0
0.9D + 1.0E	235.0	1.6	48.0
1.0D + 1.0W 60 mph Wind	1392.5	10.0	53.3

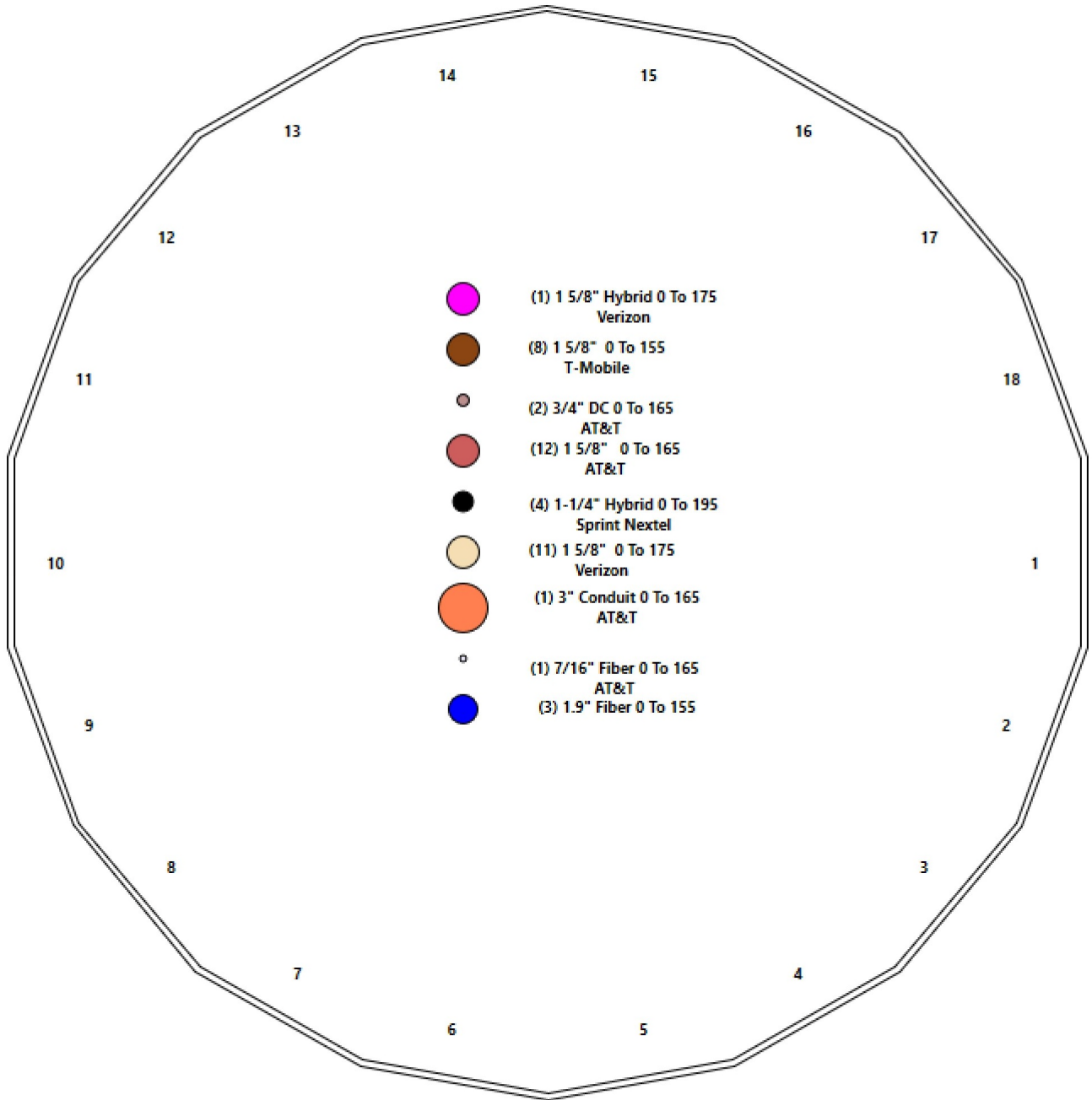
Structure: CT01501-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Morris
Height: 195.00 (ft)

9/10/2021



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Shaft Properties

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	48.000	0.3750	65		0.00	11,368
2	18	40.000	0.3750	65	Slip	84.00	8,183
3	18	10.000	0.3125	65	Flange	0.00	1,508
4	18	50.000	0.3125	65	Slip	72.00	6,694
5	18	50.000	0.2500	65	Slip	60.00	4,001
6	18	15.000	0.2810	65	Flange	0.00	1,080
Total Shaft Weight:							32,834

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	64.50	0.00	76.32	39651.33	28.92	172.00	53.20	48.00	62.87	22166.3	23.60	141.8	0.235417
2	55.60	41.00	65.73	25324.08	24.73	148.26	46.18	81.00	54.52	14452.7	20.30	123.1	0.235417
3	46.18	81.00	45.49	12093.31	24.65	147.78	43.83	91.00	43.16	10325.2	23.32	140.2	0.235417
4	45.86	85.00	45.18	11844.57	24.47	146.77	34.09	135.00	33.51	4830.83	17.83	109.1	0.235417
5	35.77	130.0	28.18	4492.97	23.82	143.08	24.00	180.00	18.84	1343.00	15.52	96.00	0.235417
6	24.00	180.0	21.15	1503.63	13.65	85.41	24.00	195.00	21.15	1503.63	13.65	85.41	0.000000

Load Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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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	195.00	APXVSP18-C-A20	3	57.00	8.02	0.83	234.45	10.888	0.83	0.00	0.00
2	195.00	800 Mhz	6	68.30	3.46	0.67	161.15	4.809	0.67	0.00	0.00
3	195.00	ACU-A20-N	4	1.00	0.14	0.67	5.41	0.445	0.67	0.00	0.00
4	195.00	1900MHz RRH	3	44.00	3.80	0.67	156.07	5.227	0.67	0.00	0.00
5	195.00	800 Mhz Filter	3	10.00	0.49	0.70	26.48	1.066	0.70	0.00	0.00
6	195.00	Commscope DT465B-2XR	3	58.00	9.10	0.83	295.39	10.479	0.83	0.00	0.00
7	195.00	TD-RRH8x20-25	3	70.00	4.05	0.50	184.03	4.886	0.50	0.00	0.00
8	195.00	Modified Platform + HR & Kicker	1	2246.00	51.70	1.00	4660.37	90.974	1.00	0.00	0.00
9	193.00	Collar Mount	1	350.00	5.00	1.00	650.68	8.579	1.00	0.00	0.00
10	175.00	Low Profile Platform	1	1500.00	22.00	1.00	2829.24	39.936	1.00	0.00	0.00
11	175.00	Commscope BSAMNT-SDS-2-2	3	25.35	0.00	1.00	43.32	0.000	1.00	0.00	0.00
12	175.00	HRK14	1	504.00	8.13	1.00	1111.41	16.199	1.00	0.00	0.00
13	175.00	Commscope NHH-85B-R2B	6	43.70	8.17	0.85	251.38	9.526	0.85	0.00	0.00
14	175.00	Samsung MT6407-77A	3	79.40	4.69	0.70	201.19	5.653	0.70	0.00	0.00
15	175.00	Samsung B5/B13 RRH-BR04C	3	70.30	1.87	0.67	141.02	2.453	0.67	0.00	0.00
16	175.00	Samsung B2/B66A RRH-BR049	3	84.40	1.87	0.67	162.44	2.453	0.67	0.00	0.00
17	175.00	RFS DB-C1-12C-24AB-0Z	1	32.00	4.06	1.00	147.70	4.895	1.00	0.00	0.00
18	175.00	Commscope TD-850B-LTE78-43	3	52.90	1.96	0.71	109.53	2.692	0.76	0.00	0.00
19	165.00	7770.00	6	35.00	5.50	0.73	171.77	6.576	0.73	0.00	0.00
20	165.00	LGP2140X TMA	12	19.00	1.30	0.67	44.11	2.162	0.67	0.00	0.00
21	165.00	RRUS-11	6	51.00	2.52	0.71	123.97	3.159	0.71	0.00	0.00
22	165.00	AM-X-CD-16-65-00T-RET	1	48.50	8.02	0.90	212.33	10.841	0.90	0.00	0.00
23	165.00	ABT-DF-DMADBH	1	1.10	0.05	1.00	3.35	0.244	1.00	0.00	0.00
24	165.00	DC6-48-60-18-8F	1	31.80	0.92	1.00	94.22	1.362	1.00	0.00	0.00
25	165.00	800 10764	2	40.80	5.88	0.90	169.53	8.043	0.90	0.00	0.00
26	165.00	Low Profile Platform	1	1500.00	22.00	1.00	2821.45	39.831	1.00	0.00	0.00
27	155.00	782 11056	3	5.30	0.28	0.87	14.78	0.683	0.87	0.00	0.00
28	155.00	S20057A1	3	11.00	0.82	0.73	29.94	1.520	0.73	0.00	0.00
29	155.00	KRY 112 144/1	3	11.00	0.41	0.70	21.82	0.887	0.70	0.00	0.00
30	155.00	Low Profile Platform	1	1500.00	22.00	1.00	2813.21	39.720	1.00	0.00	0.00
31	155.00	HRK12 (Handrail Kit)	1	261.72	7.75	1.00	573.34	15.349	1.00	0.00	0.00
32	155.00	Ericsson AIR6449 B41	3	103.00	5.65	0.71	240.57	6.604	0.71	0.00	0.00
33	155.00	RFS APX16DWV-16DWVS-E-A20	3	40.70	6.61	0.67	158.14	8.795	0.67	0.00	0.00
34	155.00	RFS APXVAALL24-43-U-NA20	3	128.00	20.24	0.70	547.48	22.147	0.70	0.00	0.00
35	155.00	Ericsson 4449 B71 + B85	3	73.20	1.97	0.67	131.13	2.541	0.67	0.00	0.00
36	155.00	Ericsson 4415 B66A	3	49.60	1.86	0.67	112.15	2.427	0.67	0.00	0.00
37	155.00	Ericsson 4424 B25	3	88.00	2.05	0.67	174.74	2.648	0.67	0.00	0.00
Totals:			110	12,660.17			30,010.82				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	195.00	(4) 1-1/4" Hybrid	0.00	Inside
0.00	175.00	(11) 1 5/8" Coax	0.00	Inside
0.00	175.00	(1) 1 5/8" Hybrid	0.00	Inside
0.00	165.00	(12) 1 5/8" Coax	0.00	Inside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
0.00	165.00	(1) 3" Conduit		0.00		Inside					
0.00	165.00	(2) 3/4" DC		0.00		Inside					
0.00	165.00	(1) 7/16" Fiber		0.00		Inside					
0.00	155.00	(8) 1 5/8" Coax		0.00		Inside					
0.00	155.00	(3) 1.9" Fiber		0.00		Inside					

Shaft Section Properties

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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Increment Length: 2 (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	64.500	76.322	39651.3	28.92	172.00	67.4	1210.	0.0
2.00		0.3750	64.029	75.762	38784.3	28.70	170.74	67.6	1193.	517.5
4.00		0.3750	63.558	75.201	37930.0	28.47	169.49	67.9	1175.	513.7
6.00		0.3750	63.087	74.641	37088.4	28.25	168.23	68.2	1157.	509.9
8.00		0.3750	62.617	74.080	36259.3	28.03	166.98	68.4	1140.	506.1
10.00		0.3750	62.146	73.520	35442.6	27.81	165.72	68.7	1123.	502.3
12.00		0.3750	61.675	72.960	34638.3	27.59	164.47	69.0	1106.	498.4
14.00		0.3750	61.204	72.399	33846.3	27.37	163.21	69.2	1089.	494.6
16.00		0.3750	60.733	71.839	33066.4	27.15	161.96	69.5	1072.	490.8
18.00		0.3750	60.262	71.279	32298.6	26.93	160.70	69.7	1055.	487.0
20.00		0.3750	59.792	70.718	31542.8	26.70	159.44	70.0	1039.	483.2
22.00		0.3750	59.321	70.158	30798.9	26.48	158.19	70.3	1022.	479.4
24.00		0.3750	58.850	69.597	30066.7	26.26	156.93	70.5	1006.	475.6
26.00		0.3750	58.379	69.037	29346.3	26.04	155.68	70.8	990.1	471.7
28.00		0.3750	57.908	68.477	28637.4	25.82	154.42	71.0	974.0	467.9
30.00		0.3750	57.437	67.916	27940.1	25.60	153.17	71.3	958.1	464.1
32.00		0.3750	56.967	67.356	27254.2	25.38	151.91	71.6	942.3	460.3
34.00		0.3750	56.496	66.795	26579.6	25.15	150.66	71.8	926.6	456.5
36.00		0.3750	56.025	66.235	25916.2	24.93	149.40	72.1	911.1	452.7
38.00		0.3750	55.554	65.675	25263.9	24.71	148.14	72.3	895.7	448.9
40.00		0.3750	55.083	65.114	24622.7	24.49	146.89	72.6	880.4	445.0
41.00	Bot - Section 2	0.3750	54.848	64.834	24306.2	24.38	146.26	72.7	872.8	221.1
42.00		0.3750	54.612	64.554	23992.5	24.27	145.63	72.9	865.3	443.3
44.00		0.3750	54.142	63.993	23373.0	24.05	144.38	73.1	850.3	880.9
46.00		0.3750	53.671	63.433	22764.4	23.83	143.12	73.4	835.4	873.3
48.00	Top - Section 1	0.3750	53.950	63.765	23124.0	23.96	143.87	0.0	0.0	865.7
50.00		0.3750	53.479	63.205	22519.6	23.74	142.61	73.5	829.4	432.1
52.00		0.3750	53.008	62.645	21925.9	23.51	141.36	73.7	814.7	428.2
54.00		0.3750	52.537	62.084	21342.8	23.29	140.10	74.0	800.1	424.4
56.00		0.3750	52.067	61.524	20770.0	23.07	138.84	74.3	785.7	420.6
58.00		0.3750	51.596	60.963	20207.6	22.85	137.59	74.5	771.4	416.8
60.00		0.3750	51.125	60.403	19655.5	22.63	136.33	74.8	757.2	413.0
62.00		0.3750	50.654	59.843	19113.5	22.41	135.08	75.0	743.2	409.2
64.00		0.3750	50.183	59.282	18581.5	22.19	133.82	75.3	729.3	405.4
66.00		0.3750	49.712	58.722	18059.6	21.96	132.57	75.6	715.5	401.5
68.00		0.3750	49.242	58.161	17547.4	21.74	131.31	75.8	701.9	397.7
70.00		0.3750	48.771	57.601	17045.1	21.52	130.06	76.1	688.4	393.9
72.00		0.3750	48.300	57.041	16552.4	21.30	128.80	76.3	675.0	390.1
74.00		0.3750	47.829	56.480	16069.4	21.08	127.54	76.6	661.7	386.3
76.00		0.3750	47.358	55.920	15595.8	20.86	126.29	76.9	648.6	382.5
78.00		0.3750	46.887	55.360	15131.6	20.64	125.03	77.1	635.6	378.7
80.00		0.3750	46.417	54.799	14676.7	20.41	123.78	77.4	622.8	374.8
81.00	Top - Section 2	0.3750	46.181	54.519	14452.7	20.30	123.15	77.5	616.4	186.0
81.00	Bot - Section 3	0.3125	46.181	45.494	12093.3	24.36	147.78	72.4	515.8	
82.00		0.3125	45.946	45.261	11908.1	24.51	147.03	72.6	510.5	154.4
84.00		0.3125	45.475	44.794	11543.3	24.25	145.52	72.9	500.0	306.4
85.00	Bot - Section 4	0.3125	45.240	44.560	11363.7	24.12	144.77	73.0	494.7	152.0
86.00		0.3125	45.004	44.327	11186.0	23.98	144.01	73.2	489.6	304.6
88.00		0.3125	44.533	43.860	10836.2	23.72	142.51	73.5	479.3	604.4
90.00		0.3125	44.062	43.393	10493.7	23.45	141.00	73.8	469.1	598.0

Increment Length: 2 (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)
91.00	Top - Section 3	0.3125	44.452	43.779	10776.5	23.67	142.25	0.0	0.0	296.6
92.00		0.3125	44.217	43.546	10605.0	23.54	141.49	73.7	472.4	148.6
94.00		0.3125	43.746	43.079	10267.5	23.27	139.99	74.0	462.3	294.8
96.00		0.3125	43.275	42.612	9937.2	23.01	138.48	74.3	452.3	291.6
98.00		0.3125	42.804	42.145	9614.0	22.74	136.97	74.7	442.4	288.4
100.00		0.3125	42.333	41.678	9298.0	22.48	135.47	75.0	432.6	285.2
102.00		0.3125	41.862	41.211	8988.9	22.21	133.96	75.3	422.9	282.1
104.00		0.3125	41.392	40.744	8686.8	21.94	132.45	75.6	413.4	278.9
106.00		0.3125	40.921	40.277	8391.5	21.68	130.95	75.9	403.9	275.7
108.00		0.3125	40.450	39.810	8103.0	21.41	129.44	76.2	394.6	272.5
110.00		0.3125	39.979	39.343	7821.2	21.15	127.93	76.5	385.3	269.3
112.00		0.3125	39.508	38.876	7546.0	20.88	126.43	76.8	376.2	266.2
114.00		0.3125	39.037	38.409	7277.3	20.62	124.92	77.2	367.2	263.0
116.00		0.3125	38.567	37.942	7015.0	20.35	123.41	77.5	358.3	259.8
118.00		0.3125	38.096	37.475	6759.2	20.08	121.91	77.8	349.5	256.6
120.00		0.3125	37.625	37.008	6509.6	19.82	120.40	78.1	340.8	253.4
122.00		0.3125	37.154	36.541	6266.3	19.55	118.89	78.4	332.2	250.3
124.00		0.3125	36.683	36.074	6029.1	19.29	117.39	78.7	323.7	247.1
126.00		0.3125	36.212	35.607	5798.0	19.02	115.88	79.0	315.4	243.9
128.00		0.3125	35.742	35.140	5572.8	18.76	114.37	79.3	307.1	240.7
130.00	Bot - Section 5	0.3125	35.271	34.673	5353.6	18.49	112.87	79.7	299.0	237.6
132.00		0.3125	34.800	34.206	5140.2	18.23	111.36	80.0	290.9	424.9
134.00		0.3125	34.329	33.739	4932.5	17.96	109.85	80.3	283.0	419.2
135.00	Top - Section 4	0.2500	34.594	27.251	4060.9	22.99	138.37	0.0	0.0	207.5
136.00		0.2500	34.358	27.064	3978.0	22.82	137.43	74.6	228.0	92.4
138.00		0.2500	33.887	26.690	3815.5	22.49	135.55	74.9	221.8	182.9
140.00		0.2500	33.417	26.317	3657.5	22.16	133.67	75.3	215.6	180.4
142.00		0.2500	32.946	25.943	3504.0	21.83	131.78	75.7	209.5	177.8
144.00		0.2500	32.475	25.570	3354.8	21.49	129.90	76.1	203.5	175.3
146.00		0.2500	32.004	25.196	3209.9	21.16	128.02	76.5	197.5	172.7
148.00		0.2500	31.533	24.822	3069.2	20.83	126.13	76.9	191.7	170.2
150.00		0.2500	31.062	24.449	2932.7	20.50	124.25	77.3	186.0	167.7
152.00		0.2500	30.592	24.075	2800.3	20.17	122.37	77.7	180.3	165.1
154.00		0.2500	30.121	23.702	2671.9	19.83	120.48	78.1	174.7	162.6
155.00		0.2500	29.885	23.515	2609.3	19.67	119.54	78.3	172.0	80.3
156.00		0.2500	29.650	23.328	2547.6	19.50	118.60	78.5	169.2	79.7
158.00		0.2500	29.179	22.954	2427.1	19.17	116.72	78.9	163.8	157.5
160.00		0.2500	28.708	22.581	2310.5	18.84	114.83	79.2	158.5	154.9
162.00		0.2500	28.237	22.207	2197.7	18.51	112.95	79.6	153.3	152.4
164.00		0.2500	27.767	21.834	2088.7	18.17	111.07	80.0	148.2	149.9
165.00		0.2500	27.531	21.647	2035.5	18.01	110.12	80.2	145.6	74.0
166.00		0.2500	27.296	21.460	1983.3	17.84	109.18	80.4	143.1	73.3
168.00		0.2500	26.825	21.087	1881.5	17.51	107.30	80.8	138.1	144.8
170.00		0.2500	26.354	20.713	1783.3	17.18	105.42	81.2	133.3	142.2
172.00		0.2500	25.883	20.339	1688.5	16.85	103.53	81.6	128.5	139.7
174.00		0.2500	25.412	19.966	1597.2	16.51	101.65	82.0	123.8	137.1
175.00		0.2500	25.177	19.779	1552.7	16.35	100.71	82.2	121.5	67.6
176.00		0.2500	24.942	19.592	1509.2	16.18	99.77	82.4	119.2	67.0
178.00		0.2500	24.471	19.219	1424.5	15.85	97.88	82.5	114.7	132.1
180.00	Top - Section 5	0.2500	24.000	18.845	1343.0	15.52	96.00	82.5	110.2	129.5
180.00	Bot - Section 6	0.2810	24.000	21.154	1503.6	13.80	85.41	82.5	123.4	
182.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	144.0
184.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	144.0
186.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	144.0
188.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	144.0
190.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	144.0
192.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	144.0
193.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	72.0
194.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	72.0
195.00		0.2810	24.000	21.154	1503.6	13.65	85.41	82.5	123.4	72.0

Increment Length: 2 (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)
										32833.6

Wind Loading - Shaft

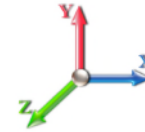
Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6 93 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 32

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	17.879	19.67	467.97	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	17.879	19.67	464.56	0.650	0.000	2.00	10.876	7.07	222.5	0.0	621.0
4.00		1.00	0.85	17.879	19.67	461.14	0.650	0.000	2.00	10.796	7.02	220.8	0.0	616.4
6.00		1.00	0.85	17.879	19.67	457.72	0.650	0.000	2.00	10.717	6.97	219.2	0.0	611.9
8.00		1.00	0.85	17.879	19.67	454.31	0.650	0.000	2.00	10.637	6.91	217.6	0.0	607.3
10.00		1.00	0.85	17.879	19.67	450.89	0.650	0.000	2.00	10.557	6.86	215.9	0.0	602.7
12.00		1.00	0.85	17.879	19.67	447.48	0.650	0.000	2.00	10.478	6.81	214.3	0.0	598.1
14.00		1.00	0.85	17.879	19.67	444.06	0.650	0.000	2.00	10.398	6.76	212.7	0.0	593.5
16.00		1.00	0.86	18.100	19.91	443.36	0.650	0.000	2.00	10.318	6.71	213.7	0.0	589.0
18.00		1.00	0.88	18.554	20.41	445.41	0.650	0.000	2.00	10.239	6.66	217.3	0.0	584.4
20.00		1.00	0.90	18.971	20.87	446.85	0.650	0.000	2.00	10.159	6.60	220.5	0.0	579.8
22.00		1.00	0.92	19.355	21.29	447.81	0.650	0.000	2.00	10.079	6.55	223.2	0.0	575.2
24.00		1.00	0.94	19.713	21.68	448.34	0.650	0.000	2.00	9.999	6.50	225.5	0.0	570.7
26.00		1.00	0.95	20.048	22.05	448.52	0.650	0.000	2.00	9.920	6.45	227.5	0.0	566.1
28.00		1.00	0.97	20.363	22.40	448.38	0.650	0.000	2.00	9.840	6.40	229.2	0.0	561.5
30.00		1.00	0.98	20.661	22.73	447.98	0.650	0.000	2.00	9.760	6.34	230.7	0.0	556.9
32.00		1.00	1.00	20.944	23.04	447.34	0.650	0.000	2.00	9.681	6.29	231.9	0.0	552.4
34.00		1.00	1.01	21.213	23.33	446.48	0.650	0.000	2.00	9.601	6.24	233.0	0.0	547.8
36.00		1.00	1.02	21.470	23.62	445.43	0.650	0.000	2.00	9.521	6.19	233.9	0.0	543.2
38.00		1.00	1.03	21.715	23.89	444.21	0.650	0.000	2.00	9.442	6.14	234.6	0.0	538.6
40.00		1.00	1.04	21.951	24.15	442.83	0.650	0.000	2.00	9.362	6.09	235.1	0.0	534.1
41.00	Bot - Section 2	1.00	1.05	22.065	24.27	442.08	0.650	0.000	1.00	4.651	3.02	117.4	0.0	265.3
42.00		1.00	1.05	22.178	24.40	441.30	0.650	0.000	1.00	4.695	3.05	119.1	0.0	532.0
44.00		1.00	1.06	22.396	24.64	439.64	0.650	0.000	2.00	9.330	6.06	239.0	0.0	1057.1
46.00		1.00	1.07	22.607	24.87	437.87	0.650	0.000	2.00	9.250	6.01	239.2	0.0	1047.9
48.00	Top - Section 1	1.00	1.08	22.810	25.09	435.97	0.650	0.000	2.00	9.170	5.96	239.3	0.0	1038.8
50.00		1.00	1.09	23.007	25.31	440.15	0.650	0.000	2.00	9.091	5.91	239.3	0.0	518.5
52.00		1.00	1.10	23.198	25.52	438.08	0.650	0.000	2.00	9.011	5.86	239.1	0.0	513.9
54.00		1.00	1.11	23.383	25.72	435.92	0.650	0.000	2.00	8.931	5.81	238.9	0.0	509.3
56.00		1.00	1.12	23.562	25.92	433.67	0.650	0.000	2.00	8.851	5.75	238.6	0.0	504.7
58.00		1.00	1.13	23.737	26.11	431.33	0.650	0.000	2.00	8.772	5.70	238.2	0.0	500.2
60.00		1.00	1.14	23.907	26.30	428.93	0.650	0.000	2.00	8.692	5.65	237.7	0.0	495.6
62.00		1.00	1.14	24.073	26.48	426.45	0.650	0.000	2.00	8.612	5.60	237.2	0.0	491.0
64.00		1.00	1.15	24.234	26.66	423.90	0.650	0.000	2.00	8.533	5.55	236.6	0.0	486.4
66.00		1.00	1.16	24.392	26.83	421.28	0.650	0.000	2.00	8.453	5.49	235.9	0.0	481.8
68.00		1.00	1.17	24.545	27.00	418.60	0.650	0.000	2.00	8.373	5.44	235.1	0.0	477.3
70.00		1.00	1.17	24.696	27.17	415.87	0.650	0.000	2.00	8.294	5.39	234.3	0.0	472.7
72.00		1.00	1.18	24.843	27.33	413.08	0.650	0.000	2.00	8.214	5.34	233.4	0.0	468.1
74.00		1.00	1.19	24.986	27.48	410.23	0.650	0.000	2.00	8.134	5.29	232.5	0.0	463.5
76.00		1.00	1.19	25.127	27.64	407.34	0.650	0.000	2.00	8.055	5.24	231.5	0.0	459.0
78.00		1.00	1.20	25.265	27.79	404.39	0.650	0.000	2.00	7.975	5.18	230.5	0.0	454.4
80.00		1.00	1.21	25.400	27.94	401.40	0.650	0.000	2.00	7.895	5.13	229.4	0.0	449.8
81.00	Top - Section 2	1.00	1.21	25.466	28.01	399.88	0.650	0.000	1.00	3.918	2.55	114.1	0.0	223.2
82.00		1.00	1.21	25.532	28.09	398.36	0.650	0.000	1.00	3.898	2.53	113.9	0.0	185.3
84.00		1.00	1.22	25.662	28.23	395.28	0.650	0.000	2.00	7.736	5.03	227.1	0.0	367.7
85.00	Bot - Section 4	1.00	1.22	25.726	28.30	393.72	0.650	0.000	1.00	3.838	2.49	113.0	0.0	182.4
86.00		1.00	1.23	25.789	28.37	392.16	0.650	0.000	1.00	3.871	2.52	114.2	0.0	365.5

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00	1.00	1.23	25.915	28.51	388.99	0.650	0.000	2.00	7.682	4.99	227.8	0.0	725.3	
90.00	1.00	1.24	26.037	28.64	385.79	0.650	0.000	2.00	7.603	4.94	226.5	0.0	717.6	
91.00	Top - Section 3	1.00	1.24	26.098	28.71	384.18	0.650	0.000	1.00	3.771	2.45	112.6	0.0	356.0
92.00	1.00	1.24	26.158	28.77	388.04	0.650	0.000	1.00	3.752	2.44	112.3	0.0	178.3	
94.00	1.00	1.25	26.277	28.90	384.78	0.650	0.000	2.00	7.443	4.84	223.8	0.0	353.7	
96.00	1.00	1.25	26.394	29.03	381.48	0.650	0.000	2.00	7.364	4.79	222.3	0.0	349.9	
98.00	1.00	1.26	26.509	29.16	378.15	0.650	0.000	2.00	7.284	4.73	220.9	0.0	346.1	
100.00	1.00	1.27	26.621	29.28	374.79	0.650	0.000	2.00	7.204	4.68	219.4	0.0	342.3	
102.00	1.00	1.27	26.733	29.41	371.39	0.650	0.000	2.00	7.125	4.63	217.9	0.0	338.5	
104.00	1.00	1.28	26.842	29.53	367.97	0.650	0.000	2.00	7.045	4.58	216.3	0.0	334.6	
106.00	1.00	1.28	26.950	29.65	364.51	0.650	0.000	2.00	6.965	4.53	214.7	0.0	330.8	
108.00	1.00	1.29	27.056	29.76	361.03	0.650	0.000	2.00	6.886	4.48	213.1	0.0	327.0	
110.00	1.00	1.29	27.161	29.88	357.51	0.650	0.000	2.00	6.806	4.42	211.5	0.0	323.2	
112.00	1.00	1.30	27.264	29.99	353.97	0.650	0.000	2.00	6.726	4.37	209.8	0.0	319.4	
114.00	1.00	1.30	27.366	30.10	350.41	0.650	0.000	2.00	6.646	4.32	208.1	0.0	315.6	
116.00	1.00	1.31	27.466	30.21	346.82	0.650	0.000	2.00	6.567	4.27	206.3	0.0	311.8	
118.00	1.00	1.31	27.565	30.32	343.20	0.650	0.000	2.00	6.487	4.22	204.6	0.0	308.0	
120.00	1.00	1.32	27.663	30.43	339.56	0.650	0.000	2.00	6.407	4.16	202.8	0.0	304.1	
122.00	1.00	1.32	27.760	30.54	335.89	0.650	0.000	2.00	6.328	4.11	200.9	0.0	300.3	
124.00	1.00	1.32	27.855	30.64	332.20	0.650	0.000	2.00	6.248	4.06	199.1	0.0	296.5	
126.00	1.00	1.33	27.949	30.74	328.49	0.650	0.000	2.00	6.168	4.01	197.2	0.0	292.7	
128.00	1.00	1.33	28.042	30.85	324.76	0.650	0.000	2.00	6.089	3.96	195.3	0.0	288.9	
130.00	Bot - Section 5	1.00	1.34	28.133	30.95	321.00	0.650	0.000	2.00	6.009	3.91	193.4	0.0	285.1
132.00	1.00	1.34	28.224	31.05	317.23	0.650	0.000	2.00	6.014	3.91	194.2	0.0	509.9	
134.00	1.00	1.35	28.313	31.14	313.43	0.650	0.000	2.00	5.934	3.86	192.2	0.0	503.0	
135.00	Top - Section 4	1.00	1.35	28.358	31.19	311.53	0.650	0.000	1.00	2.937	1.91	95.3	0.0	248.9
136.00	1.00	1.35	28.402	31.24	314.19	0.650	0.000	1.00	2.917	1.90	94.8	0.0	110.9	
138.00	1.00	1.35	28.489	31.34	310.36	0.650	0.000	2.00	5.775	3.75	188.2	0.0	219.5	
140.00	1.00	1.36	28.576	31.43	306.51	0.650	0.000	2.00	5.695	3.70	186.2	0.0	216.4	
142.00	1.00	1.36	28.661	31.53	302.64	0.650	0.000	2.00	5.616	3.65	184.1	0.0	213.4	
144.00	1.00	1.37	28.746	31.62	298.76	0.650	0.000	2.00	5.536	3.60	182.0	0.0	210.3	
146.00	1.00	1.37	28.829	31.71	294.86	0.650	0.000	2.00	5.456	3.55	179.9	0.0	207.3	
148.00	1.00	1.37	28.912	31.80	290.93	0.650	0.000	2.00	5.376	3.49	177.8	0.0	204.2	
150.00	1.00	1.38	28.994	31.89	286.99	0.650	0.000	2.00	5.297	3.44	175.7	0.0	201.2	
152.00	1.00	1.38	29.075	31.98	283.04	0.650	0.000	2.00	5.217	3.39	173.5	0.0	198.1	
154.00	1.00	1.39	29.155	32.07	279.07	0.650	0.000	2.00	5.137	3.34	171.3	0.0	195.1	
155.00	Appurtenance(s)	1.00	1.39	29.195	32.11	277.07	0.650	0.000	1.00	2.539	1.65	84.8	0.0	96.4
156.00	1.00	1.39	29.234	32.16	275.08	0.650	0.000	1.00	2.519	1.64	84.2	0.0	95.6	
158.00	1.00	1.39	29.313	32.24	271.07	0.650	0.000	2.00	4.978	3.24	166.9	0.0	189.0	
160.00	1.00	1.40	29.390	32.33	267.05	0.650	0.000	2.00	4.898	3.18	164.7	0.0	185.9	
162.00	1.00	1.40	29.467	32.41	263.02	0.650	0.000	2.00	4.819	3.13	162.4	0.0	182.9	
164.00	1.00	1.40	29.544	32.50	258.96	0.650	0.000	2.00	4.739	3.08	160.2	0.0	179.8	
165.00	Appurtenance(s)	1.00	1.41	29.581	32.54	256.93	0.650	0.000	1.00	2.340	1.52	79.2	0.0	88.8
166.00	1.00	1.41	29.619	32.58	254.90	0.650	0.000	1.00	2.320	1.51	78.6	0.0	88.0	
168.00	1.00	1.41	29.694	32.66	250.82	0.650	0.000	2.00	4.580	2.98	155.6	0.0	173.7	
170.00	1.00	1.42	29.768	32.74	246.72	0.650	0.000	2.00	4.500	2.92	153.2	0.0	170.7	
172.00	1.00	1.42	29.841	32.83	242.61	0.650	0.000	2.00	4.420	2.87	150.9	0.0	167.6	
174.00	1.00	1.42	29.914	32.91	238.49	0.650	0.000	2.00	4.341	2.82	148.5	0.0	164.6	
175.00	Appurtenance(s)	1.00	1.42	29.950	32.95	236.42	0.650	0.000	1.00	2.140	1.39	73.3	0.0	81.1
176.00	1.00	1.43	29.986	32.98	234.35	0.650	0.000	1.00	2.120	1.38	72.7	0.0	80.4	
178.00	1.00	1.43	30.057	33.06	230.20	0.650	0.000	2.00	4.181	2.72	143.8	0.0	158.5	
180.00	Top - Section 5	1.00	1.43	30.128	33.14	226.04	0.650	0.000	2.00	4.102	2.67	141.4	0.0	155.4
182.00	1.00	1.44	30.198	33.22	226.30	0.650	0.000	2.00	4.062	2.64	140.3	0.0	172.8	
184.00	1.00	1.44	30.268	33.29	226.56	0.650	0.000	2.00	4.062	2.64	140.6	0.0	172.8	
186.00	1.00	1.44	30.337	33.37	226.82	0.650	0.000	2.00	4.062	2.64	141.0	0.0	172.8	
188.00	1.00	1.45	30.405	33.45	227.08	0.650	0.000	2.00	4.062	2.64	141.3	0.0	172.8	
190.00	1.00	1.45	30.473	33.52	227.33	0.650	0.000	2.00	4.062	2.64	141.6	0.0	172.8	

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
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192.00	1.00	1.45	30.540	33.59	227.58	0.650	0.000	2.00	4.062	2.64	141.9	0.0	172.8
193.00 Appurtenance(s)	1.00	1.45	30.574	33.63	227.70	0.650	0.000	1.00	2.031	1.32	71.0	0.0	86.4
194.00	1.00	1.46	30.607	33.67	227.83	0.650	0.000	1.00	2.031	1.32	71.1	0.0	86.4
195.00 Appurtenance(s)	1.00	1.46	30.640	33.70	227.95	0.650	0.000	1.00	2.031	1.32	71.2	0.0	86.4
Totals:								195.00			19,816.1		39,400.3

Discrete Appurtenance Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

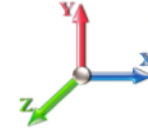


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Load Case: 1.2D + 1.6 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 32

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor	x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	800 Mhz Filter	3	30.640	33.704	0.52	0.75	0.77	36.00	0.000	0.000	41.62	0.00	0.00	
2	195.00	1900MHz RRH	3	30.640	33.704	0.50	0.75	5.73	158.40	0.000	0.000	308.92	0.00	0.00	
3	195.00	ACU-A20-N	4	30.640	33.704	0.50	0.75	0.28	4.80	0.000	0.000	15.18	0.00	0.00	
4	195.00	800 Mhz	6	30.640	33.704	0.50	0.75	10.43	491.76	0.000	0.000	562.56	0.00	0.00	
5	195.00	APXVSP18-C-A20	3	30.640	33.704	0.62	0.75	14.98	205.20	0.000	0.000	807.68	0.00	0.00	
6	195.00	Modified Platform + HR &	1	30.640	33.704	1.00	1.00	51.70	2695.20	0.000	0.000	2788.02	0.00	0.00	
7	195.00	TD-RRH8x20-25	3	30.640	33.704	0.38	0.75	4.56	252.00	0.000	0.000	245.70	0.00	0.00	
8	195.00	Commscope DT465B-2XR	3	30.640	33.704	0.62	0.75	16.99	208.80	0.000	0.000	916.45	0.00	0.00	
9	193.00	Collar Mount	1	30.574	33.631	1.00	1.00	5.00	420.00	0.000	0.000	269.05	0.00	0.00	
10	175.00	Commscope	3	29.950	32.945	1.00	1.00	0.00	91.26	0.000	0.000	0.00	0.00	0.00	
11	175.00	Commscope	3	29.950	32.945	0.53	0.75	3.13	190.44	0.000	0.000	164.81	0.00	0.00	
12	175.00	RFS DB-C1-12C-24AB-0Z	1	29.950	32.945	0.75	0.75	3.04	38.40	0.000	0.000	160.51	0.00	0.00	
13	175.00	Samsung B2/B66A	3	29.950	32.945	0.50	0.75	2.82	303.84	0.000	0.000	148.60	0.00	0.00	
14	175.00	Samsung B5/B13	3	29.950	32.945	0.50	0.75	2.82	253.08	0.000	0.000	148.60	0.00	0.00	
15	175.00	Samsung MT6407-77A	3	29.950	32.945	0.52	0.75	7.39	285.84	0.000	0.000	389.37	0.00	0.00	
16	175.00	Commscope	6	29.950	32.945	0.64	0.75	31.25	314.64	0.000	0.000	1647.27	0.00	0.00	
17	175.00	HRK14	1	29.950	32.945	1.00	1.00	8.13	604.80	0.000	0.000	428.55	0.00	0.00	
18	175.00	Low Profile Platform	1	29.950	32.945	1.00	1.00	22.00	1800.00	0.000	0.000	1159.67	0.00	0.00	
19	165.00	Low Profile Platform	1	29.581	32.540	1.00	1.00	22.00	1800.00	0.000	0.000	1145.39	0.00	0.00	
20	165.00	DC6-48-60-18-8F	1	29.581	32.540	1.00	1.00	0.92	38.16	0.000	0.000	47.90	0.00	0.00	
21	165.00	ABT-DF-DMADBH	1	29.581	32.540	1.00	1.00	0.05	1.32	0.000	0.000	2.60	0.00	0.00	
22	165.00	AM-X-CD-16-65-00T-RET	1	29.581	32.540	0.72	0.80	5.77	58.20	0.000	0.000	300.63	0.00	0.00	
23	165.00	RRUS-11	6	29.581	32.540	0.57	0.80	8.59	367.20	0.000	0.000	447.13	0.00	0.00	
24	165.00	LGP2140X TMA	12	29.581	32.540	0.54	0.80	8.36	273.60	0.000	0.000	435.33	0.00	0.00	
25	165.00	7770.00	6	29.581	32.540	0.58	0.80	19.27	252.00	0.000	0.000	1003.36	0.00	0.00	
26	165.00	800 10764	2	29.581	32.540	0.72	0.80	8.47	97.92	0.000	0.000	440.83	0.00	0.00	
27	155.00	RFS	3	29.195	32.114	0.52	0.75	31.88	460.80	0.000	0.000	1637.97	0.00	0.00	
28	155.00	Ericsson 4449 B71 + B85	3	29.195	32.114	0.50	0.75	2.97	263.52	0.000	0.000	152.59	0.00	0.00	
29	155.00	Ericsson 4415 B66A	3	29.195	32.114	0.50	0.75	2.80	178.56	0.000	0.000	144.07	0.00	0.00	
30	155.00	RFS	3	29.195	32.114	0.50	0.75	9.96	146.52	0.000	0.000	512.00	0.00	0.00	
31	155.00	Ericsson AIR6449 B41	3	29.195	32.114	0.53	0.75	9.03	370.80	0.000	0.000	463.77	0.00	0.00	
32	155.00	Low Profile Platform	1	29.195	32.114	1.00	1.00	22.00	1800.00	0.000	0.000	1130.41	0.00	0.00	
33	155.00	Ericsson 4424 B25	3	29.195	32.114	0.50	0.75	3.09	316.80	0.000	0.000	158.79	0.00	0.00	
34	155.00	782 11056	3	29.195	32.114	0.65	0.75	0.55	19.08	0.000	0.000	28.16	0.00	0.00	
35	155.00	S20057A1	3	29.195	32.114	0.55	0.75	1.35	39.60	0.000	0.000	69.20	0.00	0.00	
36	155.00	KRY 112 144/1	3	29.195	32.114	0.52	0.75	0.65	39.60	0.000	0.000	33.18	0.00	0.00	
37	155.00	HRK12 (Handrail Kit)	1	29.195	32.114	1.00	1.00	7.75	314.06	0.000	0.000	398.21	0.00	0.00	

Totals: 15,192.20

18,754.10

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

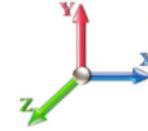


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Load Case: 1.2D + 1.6 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 32

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
2.00		222.46	734.01	0.00	0.00
4.00		220.83	729.44	0.00	0.00
6.00		219.20	724.86	0.00	0.00
8.00		217.57	720.29	0.00	0.00
10.00		215.94	715.71	0.00	0.00
12.00		214.31	711.13	0.00	0.00
14.00		212.68	706.56	0.00	0.00
16.00		213.65	701.98	0.00	0.00
18.00		217.33	697.40	0.00	0.00
20.00		220.47	692.83	0.00	0.00
22.00		223.18	688.25	0.00	0.00
24.00		225.50	683.67	0.00	0.00
26.00		227.51	679.10	0.00	0.00
28.00		229.23	674.52	0.00	0.00
30.00		230.70	669.94	0.00	0.00
32.00		231.95	665.37	0.00	0.00
34.00		232.99	660.79	0.00	0.00
36.00		233.86	656.21	0.00	0.00
38.00		234.55	651.64	0.00	0.00
40.00		235.10	647.06	0.00	0.00
41.00		117.41	321.81	0.00	0.00
42.00		119.11	588.48	0.00	0.00
44.00		239.03	1170.10	0.00	0.00
46.00		239.22	1160.95	0.00	0.00
48.00		239.29	1151.79	0.00	0.00
50.00		239.26	631.47	0.00	0.00
52.00		239.13	626.89	0.00	0.00
54.00		238.91	622.32	0.00	0.00
56.00		238.60	617.74	0.00	0.00
58.00		238.20	613.16	0.00	0.00
60.00		237.73	608.59	0.00	0.00
62.00		237.18	604.01	0.00	0.00
64.00		236.56	599.43	0.00	0.00
66.00		235.88	594.86	0.00	0.00
68.00		235.12	590.28	0.00	0.00
70.00		234.31	585.70	0.00	0.00
72.00		233.44	581.13	0.00	0.00
74.00		232.51	576.55	0.00	0.00
76.00		231.53	571.97	0.00	0.00
78.00		230.50	567.40	0.00	0.00
80.00		229.42	562.82	0.00	0.00
81.00		114.14	279.69	0.00	0.00
82.00		113.85	241.80	0.00	0.00
84.00		227.11	480.73	0.00	0.00
85.00		112.96	238.94	0.00	0.00
86.00		114.21	421.99	0.00	0.00

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00	227.75	838.26	0.00	0.00
90.00	226.46	830.63	0.00	0.00
91.00	112.60	412.46	0.00	0.00
92.00	112.26	234.79	0.00	0.00
94.00	223.75	466.72	0.00	0.00
96.00	222.34	462.91	0.00	0.00
98.00	220.89	459.10	0.00	0.00
100.00	219.41	455.28	0.00	0.00
102.00	217.88	451.47	0.00	0.00
104.00	216.33	447.66	0.00	0.00
106.00	214.74	443.84	0.00	0.00
108.00	213.12	440.03	0.00	0.00
110.00	211.47	436.21	0.00	0.00
112.00	209.79	432.40	0.00	0.00
114.00	208.08	428.59	0.00	0.00
116.00	206.34	424.77	0.00	0.00
118.00	204.57	420.96	0.00	0.00
120.00	202.77	417.15	0.00	0.00
122.00	200.95	413.33	0.00	0.00
124.00	199.10	409.52	0.00	0.00
126.00	197.22	405.70	0.00	0.00
128.00	195.32	401.89	0.00	0.00
130.00	193.40	398.08	0.00	0.00
132.00	194.18	622.91	0.00	0.00
134.00	192.21	616.05	0.00	0.00
135.00	95.29	305.45	0.00	0.00
136.00	94.79	167.40	0.00	0.00
138.00	188.21	332.50	0.00	0.00
140.00	186.18	329.45	0.00	0.00
142.00	184.12	326.40	0.00	0.00
144.00	182.05	323.35	0.00	0.00
146.00	179.95	320.30	0.00	0.00
148.00	177.83	317.25	0.00	0.00
150.00	175.69	314.20	0.00	0.00
152.00	173.53	311.15	0.00	0.00
154.00	171.35	308.10	0.00	0.00
155.00	(29) attachments	4813.17	4102.25	0.00
156.00		84.24	133.23	0.00
158.00		166.93	264.17	0.00
160.00		164.70	261.12	0.00
162.00		162.44	258.07	0.00
164.00		160.17	255.02	0.00
165.00	(30) attachments	3902.35	3014.76	0.00
166.00		78.60	107.64	0.00
168.00		155.57	212.99	0.00
170.00		153.24	209.94	0.00
172.00		150.90	206.88	0.00
174.00		148.54	203.83	0.00
175.00	(24) attachments	4320.71	3983.07	0.00
176.00		72.74	84.96	0.00
178.00		143.77	167.64	0.00
180.00		141.37	164.58	0.00
182.00		140.32	181.92	0.00
184.00		140.64	181.92	0.00
186.00		140.96	181.92	0.00
188.00		141.28	181.92	0.00
190.00		141.60	181.92	0.00

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 17



192.00		141.91	181.92	0.00	0.00
193.00	(1) attachments	340.08	510.96	0.00	0.00
194.00		71.11	90.96	0.00	0.00
195.00	(26) attachments	<u>5757.31</u>	<u>4143.12</u>	<u>0.00</u>	<u>0.00</u>
	Totals:	38,570.19	64,014.29	0.00	0.00

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

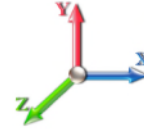


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Load Case: 1.2D + 1.6 93 mph Wind

Iterations 32

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	-63.99	-38.61	0.00	-5401.3	0.00	5401.37	4628.91	2314.46	12221.1	6119.66	0.00	0.000	0.000	0.897
2.00	-63.20	-38.48	0.00	-5324.1	0.00	5324.15	4612.68	2306.34	12088.3	6053.16	0.02	-0.077	0.000	0.894
4.00	-62.42	-38.34	0.00	-5247.2	0.00	5247.20	4596.18	2298.09	11955.5	5986.64	0.07	-0.155	0.000	0.890
6.00	-61.64	-38.20	0.00	-5170.5	0.00	5170.53	4579.43	2289.71	11822.6	5920.10	0.15	-0.233	0.000	0.887
8.00	-60.87	-38.06	0.00	-5094.1	0.00	5094.13	4562.40	2281.20	11689.7	5853.55	0.26	-0.311	0.000	0.884
10.00	-60.11	-37.93	0.00	-5018.0	0.00	5018.00	4545.12	2272.56	11556.8	5787.00	0.41	-0.391	0.000	0.881
12.00	-59.34	-37.79	0.00	-4942.1	0.00	4942.15	4527.57	2263.79	11423.9	5720.46	0.59	-0.471	0.000	0.877
14.00	-58.58	-37.65	0.00	-4866.5	0.00	4866.57	4509.77	2254.88	11291.0	5653.92	0.81	-0.551	0.000	0.874
16.00	-57.83	-37.52	0.00	-4791.2	0.00	4791.26	4491.69	2245.85	11158.2	5587.41	1.06	-0.632	0.000	0.871
18.00	-57.08	-37.37	0.00	-4716.2	0.00	4716.23	4473.36	2236.68	11025.4	5520.93	1.34	-0.714	0.000	0.867
20.00	-56.34	-37.22	0.00	-4641.4	0.00	4641.49	4454.76	2227.38	10892.7	5454.49	1.66	-0.797	0.000	0.864
22.00	-55.60	-37.07	0.00	-4567.0	0.00	4567.04	4435.90	2217.95	10760.1	5388.08	2.01	-0.880	0.000	0.860
24.00	-54.87	-36.92	0.00	-4492.9	0.00	4492.90	4416.78	2208.39	10627.6	5321.73	2.40	-0.963	0.000	0.857
26.00	-54.14	-36.76	0.00	-4419.0	0.00	4419.07	4397.40	2198.70	10495.2	5255.44	2.82	-1.048	0.000	0.853
28.00	-53.41	-36.59	0.00	-4345.5	0.00	4345.56	4377.75	2188.87	10363.0	5189.22	3.27	-1.133	0.000	0.850
30.00	-52.69	-36.43	0.00	-4272.3	0.00	4272.37	4357.84	2178.92	10230.9	5123.07	3.77	-1.218	0.000	0.846
32.00	-51.98	-36.26	0.00	-4199.5	0.00	4199.52	4337.67	2168.83	10099.0	5057.01	4.30	-1.305	0.000	0.843
34.00	-51.27	-36.09	0.00	-4127.0	0.00	4127.00	4317.23	2158.62	9967.25	4991.03	4.86	-1.392	0.000	0.839
36.00	-50.56	-35.92	0.00	-4054.8	0.00	4054.82	4296.53	2148.27	9835.69	4925.16	5.47	-1.479	0.000	0.835
38.00	-49.86	-35.74	0.00	-3982.9	0.00	3982.99	4275.57	2137.79	9704.34	4859.38	6.10	-1.567	0.000	0.832
40.00	-49.18	-35.55	0.00	-3911.5	0.00	3911.50	4254.35	2127.17	9573.22	4793.73	6.78	-1.656	0.000	0.828
41.00	-48.84	-35.46	0.00	-3875.9	0.00	3875.96	4243.64	2121.82	9507.75	4760.94	7.13	-1.701	0.000	0.826
42.00	-48.21	-35.38	0.00	-3840.5	0.00	3840.50	4232.86	2116.43	9442.34	4728.19	7.49	-1.746	0.000	0.824
44.00	-46.99	-35.18	0.00	-3769.7	0.00	3769.74	4211.11	2105.56	9311.72	4662.78	8.24	-1.837	0.000	0.820
46.00	-45.78	-34.97	0.00	-3699.3	0.00	3699.39	4189.10	2094.55	9181.37	4597.51	9.03	-1.928	0.000	0.816
48.00	-44.59	-34.77	0.00	-3629.4	0.00	3629.44	4202.19	2101.09	9258.62	4636.19	9.86	-2.019	0.000	0.794
50.00	-43.91	-34.57	0.00	-3559.9	0.00	3559.91	4180.07	2090.03	9128.39	4570.98	10.73	-2.111	0.000	0.790
52.00	-43.24	-34.38	0.00	-3490.7	0.00	3490.76	4157.69	2078.84	8998.45	4505.91	11.63	-2.200	0.000	0.785
54.00	-42.57	-34.18	0.00	-3422.0	0.00	3422.01	4135.04	2067.52	8868.82	4441.00	12.57	-2.290	0.000	0.781
56.00	-41.91	-33.99	0.00	-3353.6	0.00	3353.64	4112.14	2056.07	8739.51	4376.25	13.55	-2.380	0.000	0.777
58.00	-41.25	-33.79	0.00	-3285.6	0.00	3285.67	4088.97	2044.48	8610.54	4311.67	14.57	-2.471	0.000	0.772
60.00	-40.60	-33.59	0.00	-3218.1	0.00	3218.10	4065.54	2032.77	8481.93	4247.27	15.62	-2.563	0.000	0.768
62.00	-39.96	-33.39	0.00	-3150.9	0.00	3150.93	4041.84	2020.92	8353.69	4183.06	16.72	-2.655	0.000	0.763
64.00	-39.31	-33.19	0.00	-3084.1	0.00	3084.15	4017.89	2008.94	8225.84	4119.03	17.85	-2.748	0.000	0.759
66.00	-38.68	-32.99	0.00	-3017.7	0.00	3017.78	3993.67	1996.83	8098.39	4055.21	19.02	-2.841	0.000	0.754
68.00	-38.05	-32.78	0.00	-2951.8	0.00	2951.81	3969.18	1984.59	7971.36	3991.60	20.23	-2.935	0.000	0.749
70.00	-37.42	-32.58	0.00	-2886.2	0.00	2886.24	3944.44	1972.22	7844.75	3928.21	21.48	-3.030	0.000	0.745
72.00	-36.80	-32.38	0.00	-2821.0	0.00	2821.08	3919.43	1959.72	7718.60	3865.04	22.77	-3.125	0.000	0.740
74.00	-36.18	-32.18	0.00	-2756.3	0.00	2756.32	3894.16	1947.08	7592.91	3802.10	24.10	-3.221	0.000	0.735
76.00	-35.57	-31.97	0.00	-2691.9	0.00	2691.97	3868.63	1934.31	7467.70	3739.40	25.47	-3.318	0.000	0.729
78.00	-34.96	-31.77	0.00	-2628.0	0.00	2628.03	3842.83	1921.42	7342.98	3676.95	26.88	-3.415	0.000	0.724
80.00	-34.37	-31.55	0.00	-2564.4	0.00	2564.49	3816.78	1908.39	7218.77	3614.75	28.33	-3.512	0.000	0.719
81.00	-34.07	-31.45	0.00	-2532.9	0.00	2532.94	3803.65	1901.82	7156.86	3583.75	29.07	-3.562	0.000	0.716
81.00	-34.07	-31.45	0.00	-2532.9	0.00	2532.94	2964.89	1482.44	5593.90	2801.11	29.07	-3.562	0.000	0.916
82.00	-33.79	-31.37	0.00	-2501.5	0.00	2501.50	2956.04	1478.02	5548.38	2778.31	29.82	-3.611	0.000	0.912
84.00	-33.28	-31.16	0.00	-2438.7	0.00	2438.76	2938.13	1469.07	5457.49	2732.80	31.36	-3.729	0.000	0.904
85.00	-33.02	-31.07	0.00	-2407.6	0.00	2407.60	2929.08	1464.54	5412.12	2710.08	32.15	-3.789	0.000	0.900
86.00	-32.56	-30.98	0.00	-2376.5	0.00	2376.53	2919.97	1459.98	5366.81	2687.40	32.95	-3.849	0.000	0.896

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00	-31.67	-30.76	0.00	-2314.5	0.00	2314.58	2901.54	1450.77	5276.37	2642.11	34.58	-3.968	0.000	0.887
90.00	-30.81	-30.52	0.00	-2253.0	0.00	2253.06	2882.85	1441.42	5186.17	2596.94	36.27	-4.088	0.000	0.879
91.00	-30.37	-30.41	0.00	-2222.5	0.00	2222.54	2898.33	1449.17	5260.79	2634.30	37.13	-4.149	0.000	0.855
92.00	-30.10	-30.33	0.00	-2192.1	0.00	2192.12	2889.00	1444.50	5215.68	2611.72	38.01	-4.210	0.000	0.850
94.00	-29.59	-30.13	0.00	-2131.4	0.00	2131.46	2870.13	1435.06	5125.65	2566.64	39.80	-4.326	0.000	0.841
96.00	-29.09	-29.94	0.00	-2071.1	0.00	2071.19	2851.00	1425.50	5035.90	2521.69	41.63	-4.442	0.000	0.832
98.00	-28.59	-29.74	0.00	-2011.3	0.00	2011.32	2831.61	1415.80	4946.44	2476.90	43.52	-4.559	0.000	0.823
100.00	-28.09	-29.54	0.00	-1951.8	0.00	1951.85	2811.95	1405.98	4857.28	2432.25	45.45	-4.676	0.000	0.813
102.00	-27.60	-29.34	0.00	-1892.7	0.00	1892.77	2792.03	1396.02	4768.43	2387.76	47.43	-4.794	0.000	0.803
104.00	-27.11	-29.15	0.00	-1834.0	0.00	1834.08	2771.85	1385.93	4679.92	2343.44	49.46	-4.912	0.000	0.793
106.00	-26.63	-28.95	0.00	-1775.7	0.00	1775.79	2751.41	1375.70	4591.76	2299.29	51.54	-5.030	0.000	0.782
108.00	-26.15	-28.75	0.00	-1717.9	0.00	1717.90	2730.70	1365.35	4503.96	2255.33	53.67	-5.149	0.000	0.772
110.00	-25.67	-28.55	0.00	-1660.4	0.00	1660.40	2709.73	1354.87	4416.54	2211.55	55.85	-5.267	0.000	0.761
112.00	-25.20	-28.36	0.00	-1603.2	0.00	1603.29	2688.50	1344.25	4329.52	2167.98	58.08	-5.386	0.000	0.749
114.00	-24.74	-28.16	0.00	-1546.5	0.00	1546.58	2667.01	1333.50	4242.91	2124.61	60.36	-5.505	0.000	0.738
116.00	-24.28	-27.96	0.00	-1490.2	0.00	1490.26	2645.25	1322.63	4156.72	2081.45	62.69	-5.623	0.000	0.726
118.00	-23.82	-27.77	0.00	-1434.3	0.00	1434.33	2623.23	1311.62	4070.97	2038.51	65.07	-5.742	0.000	0.713
120.00	-23.37	-27.57	0.00	-1378.7	0.00	1378.79	2600.95	1300.48	3985.68	1995.80	67.50	-5.860	0.000	0.700
122.00	-22.92	-27.38	0.00	-1323.6	0.00	1323.65	2578.41	1289.20	3900.86	1953.33	69.97	-5.979	0.000	0.687
124.00	-22.48	-27.18	0.00	-1268.9	0.00	1268.90	2555.60	1277.80	3816.53	1911.10	72.50	-6.096	0.000	0.673
126.00	-22.04	-26.99	0.00	-1214.5	0.00	1214.53	2532.53	1266.26	3732.70	1869.12	75.07	-6.213	0.000	0.659
128.00	-21.61	-26.79	0.00	-1160.5	0.00	1160.56	2509.20	1254.60	3649.39	1827.41	77.70	-6.330	0.000	0.644
130.00	-21.18	-26.60	0.00	-1106.9	0.00	1106.97	2485.60	1242.80	3566.61	1785.96	80.37	-6.446	0.000	0.629
132.00	-20.53	-26.38	0.00	-1053.7	0.00	1053.77	2461.74	1230.87	3484.38	1744.78	83.09	-6.561	0.000	0.613
134.00	-19.91	-26.15	0.00	-1001.0	0.00	1001.01	2437.62	1218.81	3402.71	1703.88	85.85	-6.674	0.000	0.596
135.00	-19.59	-26.03	0.00	-974.87	0.00	974.87	1823.78	911.89	2575.19	1289.51	87.26	-6.731	0.000	0.768
136.00	-19.39	-25.95	0.00	-948.83	0.00	948.83	1816.04	908.02	2546.55	1275.17	88.67	-6.788	0.000	0.756
138.00	-19.02	-25.77	0.00	-896.93	0.00	896.93	1800.35	900.17	2489.45	1246.57	91.53	-6.920	0.000	0.731
140.00	-18.66	-25.59	0.00	-845.39	0.00	845.39	1784.40	892.20	2432.60	1218.11	94.45	-7.050	0.000	0.705
142.00	-18.30	-25.40	0.00	-794.22	0.00	794.22	1768.19	884.09	2376.03	1189.78	97.43	-7.177	0.000	0.679
144.00	-17.95	-25.22	0.00	-743.41	0.00	743.41	1751.71	875.86	2319.73	1161.59	100.45	-7.302	0.000	0.651
146.00	-17.60	-25.04	0.00	-692.97	0.00	692.97	1734.98	867.49	2263.74	1133.55	103.53	-7.424	0.000	0.622
148.00	-17.26	-24.86	0.00	-642.89	0.00	642.89	1717.98	858.99	2208.06	1105.67	106.66	-7.542	0.000	0.592
150.00	-16.93	-24.67	0.00	-593.17	0.00	593.17	1700.71	850.36	2152.72	1077.96	109.84	-7.657	0.000	0.561
152.00	-16.59	-24.49	0.00	-543.83	0.00	543.83	1683.19	841.59	2097.72	1050.42	113.06	-7.767	0.000	0.528
154.00	-16.28	-24.30	0.00	-494.84	0.00	494.84	1665.40	832.70	2043.08	1023.06	116.33	-7.873	0.000	0.494
155.00	-12.86	-18.98	0.00	-470.54	0.00	470.54	1656.41	828.20	2015.90	1009.45	117.98	-7.924	0.000	0.474
156.00	-12.72	-18.90	0.00	-451.56	0.00	451.56	1647.35	823.68	1988.82	995.89	119.64	-7.975	0.000	0.462
158.00	-12.45	-18.72	0.00	-413.77	0.00	413.77	1629.04	814.52	1934.94	968.91	122.99	-8.071	0.000	0.435
160.00	-12.18	-18.53	0.00	-376.34	0.00	376.34	1610.46	805.23	1881.48	942.14	126.38	-8.164	0.000	0.408
162.00	-11.92	-18.36	0.00	-339.27	0.00	339.27	1591.62	795.81	1828.44	915.58	129.81	-8.252	0.000	0.379
164.00	-11.68	-18.17	0.00	-302.56	0.00	302.56	1572.52	786.26	1775.84	889.24	133.27	-8.335	0.000	0.348
165.00	-9.25	-13.88	0.00	-284.38	0.00	284.38	1562.88	781.44	1749.71	876.15	135.01	-8.375	0.000	0.331
166.00	-9.14	-13.80	0.00	-270.51	0.00	270.51	1553.16	776.58	1723.69	863.13	136.77	-8.414	0.000	0.320
168.00	-8.94	-13.62	0.00	-242.92	0.00	242.92	1533.53	766.77	1672.01	837.25	140.29	-8.487	0.000	0.296
170.00	-8.74	-13.45	0.00	-215.67	0.00	215.67	1513.65	756.82	1620.81	811.61	143.85	-8.557	0.000	0.272
172.00	-8.54	-13.28	0.00	-188.78	0.00	188.78	1493.49	746.75	1570.12	786.22	147.44	-8.621	0.000	0.246
174.00	-8.35	-13.11	0.00	-162.22	0.00	162.22	1473.08	736.54	1519.93	761.10	151.05	-8.680	0.000	0.219
175.00	-5.06	-8.24	0.00	-149.12	0.00	149.12	1462.77	731.39	1495.04	748.63	152.86	-8.708	0.000	0.203
176.00	-4.98	-8.15	0.00	-140.88	0.00	140.88	1452.40	726.20	1470.28	736.23	154.68	-8.735	0.000	0.195
178.00	-4.83	-7.99	0.00	-124.57	0.00	124.57	1427.84	713.92	1417.58	709.84	158.34	-8.785	0.000	0.179
180.00	-4.69	-7.83	0.00	-108.59	0.00	108.59	1400.09	700.04	1362.73	682.38	162.01	-8.831	0.000	0.163
180.00	-4.69	-7.83	0.00	-108.59	0.00	108.59	1571.64	785.82	1525.71	763.99	162.01	-8.831	0.000	0.145
182.00	-4.52	-7.67	0.00	-92.93	0.00	92.93	1571.64	785.82	1525.71	763.99	165.71	-8.874	0.000	0.125
184.00	-4.36	-7.50	0.00	-77.60	0.00	77.60	1571.64	785.82	1525.71	763.99	169.42	-8.906	0.000	0.104
186.00	-4.20	-7.34	0.00	-62.60	0.00	62.60	1571.64	785.82	1525.71	763.99	173.14	-8.933	0.000	0.085
188.00	-4.04	-7.17	0.00	-47.93	0.00	47.93	1571.64	785.82	1525.71	763.99	176.87	-8.954	0.000	0.065

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
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190.00	-3.88	-7.00	0.00	-33.59	0.00	33.59	1571.64	785.82	1525.71	763.99	180.61	-8.969	0.000	0.047
192.00	-3.72	-6.83	0.00	-19.59	0.00	19.59	1571.64	785.82	1525.71	763.99	184.36	-8.979	0.000	0.028
193.00	-3.27	-6.42	0.00	-12.75	0.00	12.75	1571.64	785.82	1525.71	763.99	186.23	-8.982	0.000	0.019
194.00	-3.19	-6.33	0.00	-6.33	0.00	6.33	1571.64	785.82	1525.71	763.99	188.10	-8.984	0.000	0.010
195.00	0.00	-5.76	0.00	0.00	0.00	0.00	1571.64	785.82	1525.71	763.99	189.98	-8.985	0.000	0.000

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 32

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	17.879	19.67	467.97	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	17.879	19.67	464.56	0.650	0.000	2.00	10.876	7.07	222.5	0.0	465.8
4.00		1.00	0.85	17.879	19.67	461.14	0.650	0.000	2.00	10.796	7.02	220.8	0.0	462.3
6.00		1.00	0.85	17.879	19.67	457.72	0.650	0.000	2.00	10.717	6.97	219.2	0.0	458.9
8.00		1.00	0.85	17.879	19.67	454.31	0.650	0.000	2.00	10.637	6.91	217.6	0.0	455.5
10.00		1.00	0.85	17.879	19.67	450.89	0.650	0.000	2.00	10.557	6.86	215.9	0.0	452.0
12.00		1.00	0.85	17.879	19.67	447.48	0.650	0.000	2.00	10.478	6.81	214.3	0.0	448.6
14.00		1.00	0.85	17.879	19.67	444.06	0.650	0.000	2.00	10.398	6.76	212.7	0.0	445.2
16.00		1.00	0.86	18.100	19.91	443.36	0.650	0.000	2.00	10.318	6.71	213.7	0.0	441.7
18.00		1.00	0.88	18.554	20.41	445.41	0.650	0.000	2.00	10.239	6.66	217.3	0.0	438.3
20.00		1.00	0.90	18.971	20.87	446.85	0.650	0.000	2.00	10.159	6.60	220.5	0.0	434.9
22.00		1.00	0.92	19.355	21.29	447.81	0.650	0.000	2.00	10.079	6.55	223.2	0.0	431.4
24.00		1.00	0.94	19.713	21.68	448.34	0.650	0.000	2.00	9.999	6.50	225.5	0.0	428.0
26.00		1.00	0.95	20.048	22.05	448.52	0.650	0.000	2.00	9.920	6.45	227.5	0.0	424.6
28.00		1.00	0.97	20.363	22.40	448.38	0.650	0.000	2.00	9.840	6.40	229.2	0.0	421.1
30.00		1.00	0.98	20.661	22.73	447.98	0.650	0.000	2.00	9.760	6.34	230.7	0.0	417.7
32.00		1.00	1.00	20.944	23.04	447.34	0.650	0.000	2.00	9.681	6.29	231.9	0.0	414.3
34.00		1.00	1.01	21.213	23.33	446.48	0.650	0.000	2.00	9.601	6.24	233.0	0.0	410.8
36.00		1.00	1.02	21.470	23.62	445.43	0.650	0.000	2.00	9.521	6.19	233.9	0.0	407.4
38.00		1.00	1.03	21.715	23.89	444.21	0.650	0.000	2.00	9.442	6.14	234.6	0.0	404.0
40.00		1.00	1.04	21.951	24.15	442.83	0.650	0.000	2.00	9.362	6.09	235.1	0.0	400.5
41.00	Bot - Section 2	1.00	1.05	22.065	24.27	442.08	0.650	0.000	1.00	4.651	3.02	117.4	0.0	199.0
42.00		1.00	1.05	22.178	24.40	441.30	0.650	0.000	1.00	4.695	3.05	119.1	0.0	399.0
44.00		1.00	1.06	22.396	24.64	439.64	0.650	0.000	2.00	9.330	6.06	239.0	0.0	792.8
46.00		1.00	1.07	22.607	24.87	437.87	0.650	0.000	2.00	9.250	6.01	239.2	0.0	786.0
48.00	Top - Section 1	1.00	1.08	22.810	25.09	435.97	0.650	0.000	2.00	9.170	5.96	239.3	0.0	779.1
50.00		1.00	1.09	23.007	25.31	440.15	0.650	0.000	2.00	9.091	5.91	239.3	0.0	388.8
52.00		1.00	1.10	23.198	25.52	438.08	0.650	0.000	2.00	9.011	5.86	239.1	0.0	385.4
54.00		1.00	1.11	23.383	25.72	435.92	0.650	0.000	2.00	8.931	5.81	238.9	0.0	382.0
56.00		1.00	1.12	23.562	25.92	433.67	0.650	0.000	2.00	8.851	5.75	238.6	0.0	378.5
58.00		1.00	1.13	23.737	26.11	431.33	0.650	0.000	2.00	8.772	5.70	238.2	0.0	375.1
60.00		1.00	1.14	23.907	26.30	428.93	0.650	0.000	2.00	8.692	5.65	237.7	0.0	371.7
62.00		1.00	1.14	24.073	26.48	426.45	0.650	0.000	2.00	8.612	5.60	237.2	0.0	368.3
64.00		1.00	1.15	24.234	26.66	423.90	0.650	0.000	2.00	8.533	5.55	236.6	0.0	364.8
66.00		1.00	1.16	24.392	26.83	421.28	0.650	0.000	2.00	8.453	5.49	235.9	0.0	361.4
68.00		1.00	1.17	24.545	27.00	418.60	0.650	0.000	2.00	8.373	5.44	235.1	0.0	358.0
70.00		1.00	1.17	24.696	27.17	415.87	0.650	0.000	2.00	8.294	5.39	234.3	0.0	354.5
72.00		1.00	1.18	24.843	27.33	413.08	0.650	0.000	2.00	8.214	5.34	233.4	0.0	351.1
74.00		1.00	1.19	24.986	27.48	410.23	0.650	0.000	2.00	8.134	5.29	232.5	0.0	347.7
76.00		1.00	1.19	25.127	27.64	407.34	0.650	0.000	2.00	8.055	5.24	231.5	0.0	344.2
78.00		1.00	1.20	25.265	27.79	404.39	0.650	0.000	2.00	7.975	5.18	230.5	0.0	340.8
80.00		1.00	1.21	25.400	27.94	401.40	0.650	0.000	2.00	7.895	5.13	229.4	0.0	337.4
81.00	Top - Section 2	1.00	1.21	25.466	28.01	399.88	0.650	0.000	1.00	3.918	2.55	114.1	0.0	167.4
82.00		1.00	1.21	25.532	28.09	398.36	0.650	0.000	1.00	3.898	2.53	113.9	0.0	139.0
84.00		1.00	1.22	25.662	28.23	395.28	0.650	0.000	2.00	7.736	5.03	227.1	0.0	275.8
85.00	Bot - Section 4	1.00	1.22	25.726	28.30	393.72	0.650	0.000	1.00	3.838	2.49	113.0	0.0	136.8
86.00		1.00	1.23	25.789	28.37	392.16	0.650	0.000	1.00	3.871	2.52	114.2	0.0	274.1

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00	1.00	1.23	25.915	28.51	388.99	0.650	0.000	2.00	7.682	4.99	227.8	0.0	543.9
90.00	1.00	1.24	26.037	28.64	385.79	0.650	0.000	2.00	7.603	4.94	226.5	0.0	538.2
91.00 Top - Section 3	1.00	1.24	26.098	28.71	384.18	0.650	0.000	1.00	3.771	2.45	112.6	0.0	267.0
92.00	1.00	1.24	26.158	28.77	388.04	0.650	0.000	1.00	3.752	2.44	112.3	0.0	133.7
94.00	1.00	1.25	26.277	28.90	384.78	0.650	0.000	2.00	7.443	4.84	223.8	0.0	265.3
96.00	1.00	1.25	26.394	29.03	381.48	0.650	0.000	2.00	7.364	4.79	222.3	0.0	262.4
98.00	1.00	1.26	26.509	29.16	378.15	0.650	0.000	2.00	7.284	4.73	220.9	0.0	259.6
100.00	1.00	1.27	26.621	29.28	374.79	0.650	0.000	2.00	7.204	4.68	219.4	0.0	256.7
102.00	1.00	1.27	26.733	29.41	371.39	0.650	0.000	2.00	7.125	4.63	217.9	0.0	253.8
104.00	1.00	1.28	26.842	29.53	367.97	0.650	0.000	2.00	7.045	4.58	216.3	0.0	251.0
106.00	1.00	1.28	26.950	29.65	364.51	0.650	0.000	2.00	6.965	4.53	214.7	0.0	248.1
108.00	1.00	1.29	27.056	29.76	361.03	0.650	0.000	2.00	6.886	4.48	213.1	0.0	245.3
110.00	1.00	1.29	27.161	29.88	357.51	0.650	0.000	2.00	6.806	4.42	211.5	0.0	242.4
112.00	1.00	1.30	27.264	29.99	353.97	0.650	0.000	2.00	6.726	4.37	209.8	0.0	239.5
114.00	1.00	1.30	27.366	30.10	350.41	0.650	0.000	2.00	6.646	4.32	208.1	0.0	236.7
116.00	1.00	1.31	27.466	30.21	346.82	0.650	0.000	2.00	6.567	4.27	206.3	0.0	233.8
118.00	1.00	1.31	27.565	30.32	343.20	0.650	0.000	2.00	6.487	4.22	204.6	0.0	231.0
120.00	1.00	1.32	27.663	30.43	339.56	0.650	0.000	2.00	6.407	4.16	202.8	0.0	228.1
122.00	1.00	1.32	27.760	30.54	335.89	0.650	0.000	2.00	6.328	4.11	200.9	0.0	225.2
124.00	1.00	1.32	27.855	30.64	332.20	0.650	0.000	2.00	6.248	4.06	199.1	0.0	222.4
126.00	1.00	1.33	27.949	30.74	328.49	0.650	0.000	2.00	6.168	4.01	197.2	0.0	219.5
128.00	1.00	1.33	28.042	30.85	324.76	0.650	0.000	2.00	6.089	3.96	195.3	0.0	216.7
130.00 Bot - Section 5	1.00	1.34	28.133	30.95	321.00	0.650	0.000	2.00	6.009	3.91	193.4	0.0	213.8
132.00	1.00	1.34	28.224	31.05	317.23	0.650	0.000	2.00	6.014	3.91	194.2	0.0	382.4
134.00	1.00	1.35	28.313	31.14	313.43	0.650	0.000	2.00	5.934	3.86	192.2	0.0	377.3
135.00 Top - Section 4	1.00	1.35	28.358	31.19	311.53	0.650	0.000	1.00	2.937	1.91	95.3	0.0	186.7
136.00	1.00	1.35	28.402	31.24	314.19	0.650	0.000	1.00	2.917	1.90	94.8	0.0	83.2
138.00	1.00	1.35	28.489	31.34	310.36	0.650	0.000	2.00	5.775	3.75	188.2	0.0	164.6
140.00	1.00	1.36	28.576	31.43	306.51	0.650	0.000	2.00	5.695	3.70	186.2	0.0	162.3
142.00	1.00	1.36	28.661	31.53	302.64	0.650	0.000	2.00	5.616	3.65	184.1	0.0	160.0
144.00	1.00	1.37	28.746	31.62	298.76	0.650	0.000	2.00	5.536	3.60	182.0	0.0	157.8
146.00	1.00	1.37	28.829	31.71	294.86	0.650	0.000	2.00	5.456	3.55	179.9	0.0	155.5
148.00	1.00	1.37	28.912	31.80	290.93	0.650	0.000	2.00	5.376	3.49	177.8	0.0	153.2
150.00	1.00	1.38	28.994	31.89	286.99	0.650	0.000	2.00	5.297	3.44	175.7	0.0	150.9
152.00	1.00	1.38	29.075	31.98	283.04	0.650	0.000	2.00	5.217	3.39	173.5	0.0	148.6
154.00	1.00	1.39	29.155	32.07	279.07	0.650	0.000	2.00	5.137	3.34	171.3	0.0	146.3
155.00 Appurtenance(s)	1.00	1.39	29.195	32.11	277.07	0.650	0.000	1.00	2.539	1.65	84.8	0.0	72.3
156.00	1.00	1.39	29.234	32.16	275.08	0.650	0.000	1.00	2.519	1.64	84.2	0.0	71.7
158.00	1.00	1.39	29.313	32.24	271.07	0.650	0.000	2.00	4.978	3.24	166.9	0.0	141.7
160.00	1.00	1.40	29.390	32.33	267.05	0.650	0.000	2.00	4.898	3.18	164.7	0.0	139.5
162.00	1.00	1.40	29.467	32.41	263.02	0.650	0.000	2.00	4.819	3.13	162.4	0.0	137.2
164.00	1.00	1.40	29.544	32.50	258.96	0.650	0.000	2.00	4.739	3.08	160.2	0.0	134.9
165.00 Appurtenance(s)	1.00	1.41	29.581	32.54	256.93	0.650	0.000	1.00	2.340	1.52	79.2	0.0	66.6
166.00	1.00	1.41	29.619	32.58	254.90	0.650	0.000	1.00	2.320	1.51	78.6	0.0	66.0
168.00	1.00	1.41	29.694	32.66	250.82	0.650	0.000	2.00	4.580	2.98	155.6	0.0	130.3
170.00	1.00	1.42	29.768	32.74	246.72	0.650	0.000	2.00	4.500	2.92	153.2	0.0	128.0
172.00	1.00	1.42	29.841	32.83	242.61	0.650	0.000	2.00	4.420	2.87	150.9	0.0	125.7
174.00	1.00	1.42	29.914	32.91	238.49	0.650	0.000	2.00	4.341	2.82	148.5	0.0	123.4
175.00 Appurtenance(s)	1.00	1.42	29.950	32.95	236.42	0.650	0.000	1.00	2.140	1.39	73.3	0.0	60.9
176.00	1.00	1.43	29.986	32.98	234.35	0.650	0.000	1.00	2.120	1.38	72.7	0.0	60.3
178.00	1.00	1.43	30.057	33.06	230.20	0.650	0.000	2.00	4.181	2.72	143.8	0.0	118.9
180.00 Top - Section 5	1.00	1.43	30.128	33.14	226.04	0.650	0.000	2.00	4.102	2.67	141.4	0.0	116.6
182.00	1.00	1.44	30.198	33.22	226.30	0.650	0.000	2.00	4.062	2.64	140.3	0.0	129.6
184.00	1.00	1.44	30.268	33.29	226.56	0.650	0.000	2.00	4.062	2.64	140.6	0.0	129.6
186.00	1.00	1.44	30.337	33.37	226.82	0.650	0.000	2.00	4.062	2.64	141.0	0.0	129.6
188.00	1.00	1.45	30.405	33.45	227.08	0.650	0.000	2.00	4.062	2.64	141.3	0.0	129.6
190.00	1.00	1.45	30.473	33.52	227.33	0.650	0.000	2.00	4.062	2.64	141.6	0.0	129.6

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
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192.00	1.00	1.45	30.540	33.59	227.58	0.650	0.000	2.00	4.062	2.64	141.9	0.0	129.6
193.00 Appurtenance(s)	1.00	1.45	30.574	33.63	227.70	0.650	0.000	1.00	2.031	1.32	71.0	0.0	64.8
194.00	1.00	1.46	30.607	33.67	227.83	0.650	0.000	1.00	2.031	1.32	71.1	0.0	64.8
195.00 Appurtenance(s)	1.00	1.46	30.640	33.70	227.95	0.650	0.000	1.00	2.031	1.32	71.2	0.0	64.8
Totals:								195.00			19,816.1		29,550.2

Discrete Appurtenance Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

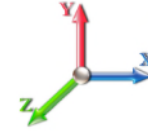


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Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 32

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor	x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	800 Mhz Filter	3	30.640	33.704	0.52	0.75	0.77	27.00	0.000	0.000	41.62	0.00	0.00	
2	195.00	1900MHz RRH	3	30.640	33.704	0.50	0.75	5.73	118.80	0.000	0.000	308.92	0.00	0.00	
3	195.00	ACU-A20-N	4	30.640	33.704	0.50	0.75	0.28	3.60	0.000	0.000	15.18	0.00	0.00	
4	195.00	800 Mhz	6	30.640	33.704	0.50	0.75	10.43	368.82	0.000	0.000	562.56	0.00	0.00	
5	195.00	APXVSP18-C-A20	3	30.640	33.704	0.62	0.75	14.98	153.90	0.000	0.000	807.68	0.00	0.00	
6	195.00	Modified Platform + HR &	1	30.640	33.704	1.00	1.00	51.70	2021.40	0.000	0.000	2788.02	0.00	0.00	
7	195.00	TD-RRH8x20-25	3	30.640	33.704	0.38	0.75	4.56	189.00	0.000	0.000	245.70	0.00	0.00	
8	195.00	Commscope DT465B-2XR	3	30.640	33.704	0.62	0.75	16.99	156.60	0.000	0.000	916.45	0.00	0.00	
9	193.00	Collar Mount	1	30.574	33.631	1.00	1.00	5.00	315.00	0.000	0.000	269.05	0.00	0.00	
10	175.00	Commscope	3	29.950	32.945	1.00	1.00	0.00	68.45	0.000	0.000	0.00	0.00	0.00	
11	175.00	Commscope	3	29.950	32.945	0.53	0.75	3.13	142.83	0.000	0.000	164.81	0.00	0.00	
12	175.00	RFS DB-C1-12C-24AB-0Z	1	29.950	32.945	0.75	0.75	3.04	28.80	0.000	0.000	160.51	0.00	0.00	
13	175.00	Samsung B2/B66A	3	29.950	32.945	0.50	0.75	2.82	227.88	0.000	0.000	148.60	0.00	0.00	
14	175.00	Samsung B5/B13	3	29.950	32.945	0.50	0.75	2.82	189.81	0.000	0.000	148.60	0.00	0.00	
15	175.00	Samsung MT6407-77A	3	29.950	32.945	0.52	0.75	7.39	214.38	0.000	0.000	389.37	0.00	0.00	
16	175.00	Commscope	6	29.950	32.945	0.64	0.75	31.25	235.98	0.000	0.000	1647.27	0.00	0.00	
17	175.00	HRK14	1	29.950	32.945	1.00	1.00	8.13	453.60	0.000	0.000	428.55	0.00	0.00	
18	175.00	Low Profile Platform	1	29.950	32.945	1.00	1.00	22.00	1350.00	0.000	0.000	1159.67	0.00	0.00	
19	165.00	Low Profile Platform	1	29.581	32.540	1.00	1.00	22.00	1350.00	0.000	0.000	1145.39	0.00	0.00	
20	165.00	DC6-48-60-18-8F	1	29.581	32.540	1.00	1.00	0.92	28.62	0.000	0.000	47.90	0.00	0.00	
21	165.00	ABT-DF-DMADBH	1	29.581	32.540	1.00	1.00	0.05	0.99	0.000	0.000	2.60	0.00	0.00	
22	165.00	AM-X-CD-16-65-00T-RET	1	29.581	32.540	0.72	0.80	5.77	43.65	0.000	0.000	300.63	0.00	0.00	
23	165.00	RRUS-11	6	29.581	32.540	0.57	0.80	8.59	275.40	0.000	0.000	447.13	0.00	0.00	
24	165.00	LGP2140X TMA	12	29.581	32.540	0.54	0.80	8.36	205.20	0.000	0.000	435.33	0.00	0.00	
25	165.00	7770.00	6	29.581	32.540	0.58	0.80	19.27	189.00	0.000	0.000	1003.36	0.00	0.00	
26	165.00	800 10764	2	29.581	32.540	0.72	0.80	8.47	73.44	0.000	0.000	440.83	0.00	0.00	
27	155.00	RFS	3	29.195	32.114	0.52	0.75	31.88	345.60	0.000	0.000	1637.97	0.00	0.00	
28	155.00	Ericsson 4449 B71 + B85	3	29.195	32.114	0.50	0.75	2.97	197.64	0.000	0.000	152.59	0.00	0.00	
29	155.00	Ericsson 4415 B66A	3	29.195	32.114	0.50	0.75	2.80	133.92	0.000	0.000	144.07	0.00	0.00	
30	155.00	RFS	3	29.195	32.114	0.50	0.75	9.96	109.89	0.000	0.000	512.00	0.00	0.00	
31	155.00	Ericsson AIR6449 B41	3	29.195	32.114	0.53	0.75	9.03	278.10	0.000	0.000	463.77	0.00	0.00	
32	155.00	Low Profile Platform	1	29.195	32.114	1.00	1.00	22.00	1350.00	0.000	0.000	1130.41	0.00	0.00	
33	155.00	Ericsson 4424 B25	3	29.195	32.114	0.50	0.75	3.09	237.60	0.000	0.000	158.79	0.00	0.00	
34	155.00	782 11056	3	29.195	32.114	0.65	0.75	0.55	14.31	0.000	0.000	28.16	0.00	0.00	
35	155.00	S20057A1	3	29.195	32.114	0.55	0.75	1.35	29.70	0.000	0.000	69.20	0.00	0.00	
36	155.00	KRY 112 144/1	3	29.195	32.114	0.52	0.75	0.65	29.70	0.000	0.000	33.18	0.00	0.00	
37	155.00	HRK12 (Handrail Kit)	1	29.195	32.114	1.00	1.00	7.75	235.55	0.000	0.000	398.21	0.00	0.00	

Totals: 11,394.15

18,754.10

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

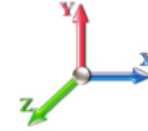


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Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 32

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
2.00		222.46	550.51	0.00	0.00
4.00		220.83	547.08	0.00	0.00
6.00		219.20	543.65	0.00	0.00
8.00		217.57	540.21	0.00	0.00
10.00		215.94	536.78	0.00	0.00
12.00		214.31	533.35	0.00	0.00
14.00		212.68	529.92	0.00	0.00
16.00		213.65	526.48	0.00	0.00
18.00		217.33	523.05	0.00	0.00
20.00		220.47	519.62	0.00	0.00
22.00		223.18	516.19	0.00	0.00
24.00		225.50	512.75	0.00	0.00
26.00		227.51	509.32	0.00	0.00
28.00		229.23	505.89	0.00	0.00
30.00		230.70	502.46	0.00	0.00
32.00		231.95	499.03	0.00	0.00
34.00		232.99	495.59	0.00	0.00
36.00		233.86	492.16	0.00	0.00
38.00		234.55	488.73	0.00	0.00
40.00		235.10	485.30	0.00	0.00
41.00		117.41	241.36	0.00	0.00
42.00		119.11	441.36	0.00	0.00
44.00		239.03	877.57	0.00	0.00
46.00		239.22	870.71	0.00	0.00
48.00		239.29	863.85	0.00	0.00
50.00		239.26	473.60	0.00	0.00
52.00		239.13	470.17	0.00	0.00
54.00		238.91	466.74	0.00	0.00
56.00		238.60	463.30	0.00	0.00
58.00		238.20	459.87	0.00	0.00
60.00		237.73	456.44	0.00	0.00
62.00		237.18	453.01	0.00	0.00
64.00		236.56	449.57	0.00	0.00
66.00		235.88	446.14	0.00	0.00
68.00		235.12	442.71	0.00	0.00
70.00		234.31	439.28	0.00	0.00
72.00		233.44	435.85	0.00	0.00
74.00		232.51	432.41	0.00	0.00
76.00		231.53	428.98	0.00	0.00
78.00		230.50	425.55	0.00	0.00
80.00		229.42	422.12	0.00	0.00
81.00		114.14	209.77	0.00	0.00
82.00		113.85	181.35	0.00	0.00
84.00		227.11	360.55	0.00	0.00
85.00		112.96	179.20	0.00	0.00
86.00		114.21	316.49	0.00	0.00

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00	227.75	628.70	0.00	0.00
90.00	226.46	622.98	0.00	0.00
91.00	112.60	309.34	0.00	0.00
92.00	112.26	176.09	0.00	0.00
94.00	223.75	350.04	0.00	0.00
96.00	222.34	347.18	0.00	0.00
98.00	220.89	344.32	0.00	0.00
100.00	219.41	341.46	0.00	0.00
102.00	217.88	338.60	0.00	0.00
104.00	216.33	335.74	0.00	0.00
106.00	214.74	332.88	0.00	0.00
108.00	213.12	330.02	0.00	0.00
110.00	211.47	327.16	0.00	0.00
112.00	209.79	324.30	0.00	0.00
114.00	208.08	321.44	0.00	0.00
116.00	206.34	318.58	0.00	0.00
118.00	204.57	315.72	0.00	0.00
120.00	202.77	312.86	0.00	0.00
122.00	200.95	310.00	0.00	0.00
124.00	199.10	307.14	0.00	0.00
126.00	197.22	304.28	0.00	0.00
128.00	195.32	301.42	0.00	0.00
130.00	193.40	298.56	0.00	0.00
132.00	194.18	467.18	0.00	0.00
134.00	192.21	462.04	0.00	0.00
135.00	95.29	229.09	0.00	0.00
136.00	94.79	125.55	0.00	0.00
138.00	188.21	249.38	0.00	0.00
140.00	186.18	247.09	0.00	0.00
142.00	184.12	244.80	0.00	0.00
144.00	182.05	242.51	0.00	0.00
146.00	179.95	240.22	0.00	0.00
148.00	177.83	237.94	0.00	0.00
150.00	175.69	235.65	0.00	0.00
152.00	173.53	233.36	0.00	0.00
154.00	171.35	231.07	0.00	0.00
155.00	(29) attachments	4813.17	3076.69	0.00
156.00		84.24	99.92	0.00
158.00		166.93	198.13	0.00
160.00		164.70	195.84	0.00
162.00		162.44	193.55	0.00
164.00		160.17	191.26	0.00
165.00	(30) attachments	3902.35	2261.07	0.00
166.00		78.60	80.73	0.00
168.00		155.57	159.74	0.00
170.00		153.24	157.45	0.00
172.00		150.90	155.16	0.00
174.00		148.54	152.87	0.00
175.00	(24) attachments	4320.71	2987.30	0.00
176.00		72.74	63.72	0.00
178.00		143.77	125.73	0.00
180.00		141.37	123.44	0.00
182.00		140.32	136.44	0.00
184.00		140.64	136.44	0.00
186.00		140.96	136.44	0.00
188.00		141.28	136.44	0.00
190.00		141.60	136.44	0.00

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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192.00		141.91	136.44	0.00	0.00
193.00	(1) attachments	340.08	383.22	0.00	0.00
194.00		71.11	68.22	0.00	0.00
195.00	(26) attachments	<u>5757.31</u>	<u>3107.34</u>	<u>0.00</u>	<u>0.00</u>
	Totals:	38,570.19	48,010.71	0.00	0.00

Calculated Forces

Structure: CT01501-S-SBA
Site Name: Morris
Height: 195.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: B - Competent Rock
Struct Class: II

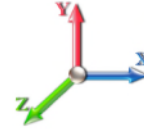
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Load Case: 0.9D + 1.6W 93 mph Wind

Iterations 32

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	-47.98	-38.60	0.00	-5307.5	0.00	5307.59	4628.91	2314.46	12221.1	6119.66	0.00	0.000	0.000	0.878
2.00	-47.38	-38.44	0.00	-5230.3	0.00	5230.39	4612.68	2306.34	12088.3	6053.16	0.02	-0.076	0.000	0.875
4.00	-46.78	-38.28	0.00	-5153.5	0.00	5153.51	4596.18	2298.09	11955.5	5986.64	0.07	-0.152	0.000	0.871
6.00	-46.19	-38.12	0.00	-5076.9	0.00	5076.94	4579.43	2289.71	11822.6	5920.10	0.15	-0.229	0.000	0.868
8.00	-45.60	-37.97	0.00	-5000.7	0.00	5000.70	4562.40	2281.20	11689.7	5853.55	0.26	-0.306	0.000	0.865
10.00	-45.01	-37.81	0.00	-4924.7	0.00	4924.77	4545.12	2272.56	11556.8	5787.00	0.40	-0.384	0.000	0.861
12.00	-44.43	-37.65	0.00	-4849.1	0.00	4849.16	4527.57	2263.79	11423.9	5720.46	0.58	-0.462	0.000	0.858
14.00	-43.85	-37.49	0.00	-4773.8	0.00	4773.86	4509.77	2254.88	11291.0	5653.92	0.79	-0.541	0.000	0.854
16.00	-43.27	-37.34	0.00	-4698.8	0.00	4698.87	4491.69	2245.85	11158.2	5587.41	1.04	-0.621	0.000	0.851
18.00	-42.70	-37.17	0.00	-4624.2	0.00	4624.20	4473.36	2236.68	11025.4	5520.93	1.31	-0.701	0.000	0.847
20.00	-42.13	-37.00	0.00	-4549.8	0.00	4549.86	4454.76	2227.38	10892.7	5454.49	1.63	-0.782	0.000	0.844
22.00	-41.57	-36.83	0.00	-4475.8	0.00	4475.85	4435.90	2217.95	10760.1	5388.08	1.97	-0.863	0.000	0.840
24.00	-41.00	-36.66	0.00	-4402.1	0.00	4402.19	4416.78	2208.39	10627.6	5321.73	2.35	-0.945	0.000	0.837
26.00	-40.45	-36.48	0.00	-4328.8	0.00	4328.87	4397.40	2198.70	10495.2	5255.44	2.77	-1.028	0.000	0.833
28.00	-39.89	-36.30	0.00	-4255.9	0.00	4255.91	4377.75	2188.87	10363.0	5189.22	3.21	-1.111	0.000	0.830
30.00	-39.34	-36.12	0.00	-4183.3	0.00	4183.31	4357.84	2178.92	10230.9	5123.07	3.70	-1.195	0.000	0.826
32.00	-38.79	-35.93	0.00	-4111.0	0.00	4111.08	4337.67	2168.83	10099.0	5057.01	4.22	-1.279	0.000	0.822
34.00	-38.25	-35.74	0.00	-4039.2	0.00	4039.22	4317.23	2158.62	9967.25	4991.03	4.77	-1.364	0.000	0.818
36.00	-37.71	-35.56	0.00	-3967.7	0.00	3967.73	4296.53	2148.27	9835.69	4925.16	5.36	-1.450	0.000	0.815
38.00	-37.18	-35.36	0.00	-3896.6	0.00	3896.62	4275.57	2137.79	9704.34	4859.38	5.99	-1.537	0.000	0.811
40.00	-36.66	-35.16	0.00	-3825.8	0.00	3825.89	4254.35	2127.17	9573.22	4793.73	6.65	-1.623	0.000	0.807
41.00	-36.39	-35.06	0.00	-3790.7	0.00	3790.73	4243.64	2121.82	9507.75	4760.94	7.00	-1.667	0.000	0.805
42.00	-35.91	-34.97	0.00	-3755.6	0.00	3755.67	4232.86	2116.43	9442.34	4728.19	7.35	-1.712	0.000	0.803
44.00	-34.99	-34.76	0.00	-3685.7	0.00	3685.73	4211.11	2105.56	9311.72	4662.78	8.09	-1.800	0.000	0.799
46.00	-34.07	-34.55	0.00	-3616.2	0.00	3616.21	4189.10	2094.55	9181.37	4597.51	8.86	-1.889	0.000	0.795
48.00	-33.17	-34.33	0.00	-3547.1	0.00	3547.12	4202.19	2101.09	9258.62	4636.19	9.67	-1.978	0.000	0.773
50.00	-32.65	-34.12	0.00	-3478.4	0.00	3478.47	4180.07	2090.03	9128.39	4570.98	10.52	-2.068	0.000	0.769
52.00	-32.13	-33.92	0.00	-3410.2	0.00	3410.22	4157.69	2078.84	8998.45	4505.91	11.40	-2.156	0.000	0.765
54.00	-31.63	-33.71	0.00	-3342.3	0.00	3342.39	4135.04	2067.52	8868.82	4441.00	12.33	-2.243	0.000	0.761
56.00	-31.12	-33.50	0.00	-3274.9	0.00	3274.97	4112.14	2056.07	8739.51	4376.25	13.29	-2.331	0.000	0.756
58.00	-30.62	-33.29	0.00	-3207.9	0.00	3207.97	4088.97	2044.48	8610.54	4311.67	14.28	-2.420	0.000	0.752
60.00	-30.12	-33.08	0.00	-3141.3	0.00	3141.39	4065.54	2032.77	8481.93	4247.27	15.31	-2.510	0.000	0.747
62.00	-29.63	-32.87	0.00	-3075.2	0.00	3075.23	4041.84	2020.92	8353.69	4183.06	16.39	-2.600	0.000	0.743
64.00	-29.14	-32.66	0.00	-3009.5	0.00	3009.50	4017.89	2008.94	8225.84	4119.03	17.49	-2.690	0.000	0.738
66.00	-28.65	-32.45	0.00	-2944.1	0.00	2944.18	3993.67	1996.83	8098.39	4055.21	18.64	-2.781	0.000	0.733
68.00	-28.17	-32.24	0.00	-2879.2	0.00	2879.28	3969.18	1984.59	7971.36	3991.60	19.82	-2.873	0.000	0.729
70.00	-27.69	-32.03	0.00	-2814.8	0.00	2814.81	3944.44	1972.22	7844.75	3928.21	21.05	-2.965	0.000	0.724
72.00	-27.22	-31.81	0.00	-2750.7	0.00	2750.76	3919.43	1959.72	7718.60	3865.04	22.31	-3.058	0.000	0.719
74.00	-26.75	-31.60	0.00	-2687.1	0.00	2687.14	3894.16	1947.08	7592.91	3802.10	23.61	-3.152	0.000	0.714
76.00	-26.28	-31.39	0.00	-2623.9	0.00	2623.93	3868.63	1934.31	7467.70	3739.40	24.95	-3.246	0.000	0.709
78.00	-25.82	-31.18	0.00	-2561.1	0.00	2561.16	3842.83	1921.42	7342.98	3676.95	26.33	-3.340	0.000	0.704
80.00	-25.37	-30.96	0.00	-2498.8	0.00	2498.80	3816.78	1908.39	7218.77	3614.75	27.75	-3.435	0.000	0.698
81.00	-25.14	-30.85	0.00	-2467.8	0.00	2467.85	3803.65	1901.82	7156.86	3583.75	28.47	-3.484	0.000	0.695
81.00	-25.14	-30.85	0.00	-2467.8	0.00	2467.85	2964.89	1482.44	5593.90	2801.11	28.47	-3.484	0.000	0.890
82.00	-24.92	-30.76	0.00	-2437.0	0.00	2437.00	2956.04	1478.02	5548.38	2778.31	29.21	-3.532	0.000	0.886
84.00	-24.53	-30.55	0.00	-2375.4	0.00	2375.48	2938.13	1469.07	5457.49	2732.80	30.71	-3.647	0.000	0.878
85.00	-24.33	-30.45	0.00	-2344.9	0.00	2344.93	2929.08	1464.54	5412.12	2710.08	31.48	-3.705	0.000	0.874
86.00	-23.97	-30.35	0.00	-2314.4	0.00	2314.48	2919.97	1459.98	5366.81	2687.40	32.26	-3.763	0.000	0.870

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 29



88.00	-23.30	-30.13	0.00	-2253.7	0.00	2253.78	2901.54	1450.77	5276.37	2642.11	33.87	-3.880	0.000	0.861
90.00	-22.65	-29.90	0.00	-2193.5	0.00	2193.52	2882.85	1441.42	5186.17	2596.94	35.52	-3.996	0.000	0.853
91.00	-22.32	-29.78	0.00	-2163.6	0.00	2163.62	2898.33	1449.17	5260.79	2634.30	36.36	-4.055	0.000	0.829
92.00	-22.11	-29.69	0.00	-2133.8	0.00	2133.84	2889.00	1444.50	5215.68	2611.72	37.21	-4.115	0.000	0.825
94.00	-21.71	-29.49	0.00	-2074.4	0.00	2074.45	2870.13	1435.06	5125.65	2566.64	38.96	-4.227	0.000	0.816
96.00	-21.33	-29.28	0.00	-2015.4	0.00	2015.48	2851.00	1425.50	5035.90	2521.69	40.75	-4.341	0.000	0.807
98.00	-20.94	-29.08	0.00	-1956.9	0.00	1956.91	2831.61	1415.80	4946.44	2476.90	42.60	-4.454	0.000	0.798
100.00	-20.56	-28.87	0.00	-1898.7	0.00	1898.76	2811.95	1405.98	4857.28	2432.25	44.48	-4.569	0.000	0.788
102.00	-20.18	-28.67	0.00	-1841.0	0.00	1841.01	2792.03	1396.02	4768.43	2387.76	46.42	-4.683	0.000	0.779
104.00	-19.81	-28.47	0.00	-1783.6	0.00	1783.67	2771.85	1385.93	4679.92	2343.44	48.41	-4.798	0.000	0.769
106.00	-19.44	-28.26	0.00	-1726.7	0.00	1726.74	2751.41	1375.70	4591.76	2299.29	50.44	-4.913	0.000	0.758
108.00	-19.07	-28.06	0.00	-1670.2	0.00	1670.22	2730.70	1365.35	4503.96	2255.33	52.52	-5.028	0.000	0.748
110.00	-18.71	-27.86	0.00	-1614.1	0.00	1614.10	2709.73	1354.87	4416.54	2211.55	54.65	-5.143	0.000	0.737
112.00	-18.35	-27.66	0.00	-1558.3	0.00	1558.39	2688.50	1344.25	4329.52	2167.98	56.82	-5.259	0.000	0.726
114.00	-17.99	-27.46	0.00	-1503.0	0.00	1503.07	2667.01	1333.50	4242.91	2124.61	59.05	-5.374	0.000	0.715
116.00	-17.64	-27.26	0.00	-1448.1	0.00	1448.16	2645.25	1322.63	4156.72	2081.45	61.32	-5.489	0.000	0.703
118.00	-17.29	-27.06	0.00	-1393.6	0.00	1393.65	2623.23	1311.62	4070.97	2038.51	63.64	-5.605	0.000	0.691
120.00	-16.95	-26.86	0.00	-1339.5	0.00	1339.54	2600.95	1300.48	3985.68	1995.80	66.01	-5.720	0.000	0.678
122.00	-16.61	-26.66	0.00	-1285.8	0.00	1285.82	2578.41	1289.20	3900.86	1953.33	68.43	-5.834	0.000	0.665
124.00	-16.27	-26.46	0.00	-1232.5	0.00	1232.50	2555.60	1277.80	3816.53	1911.10	70.90	-5.949	0.000	0.652
126.00	-15.94	-26.27	0.00	-1179.5	0.00	1179.58	2532.53	1266.26	3732.70	1869.12	73.41	-6.063	0.000	0.638
128.00	-15.61	-26.07	0.00	-1127.0	0.00	1127.04	2509.20	1254.60	3649.39	1827.41	75.97	-6.176	0.000	0.623
130.00	-15.28	-25.88	0.00	-1074.9	0.00	1074.90	2485.60	1242.80	3566.61	1785.96	78.57	-6.288	0.000	0.608
132.00	-14.79	-25.66	0.00	-1023.1	0.00	1023.15	2461.74	1230.87	3484.38	1744.78	81.23	-6.400	0.000	0.593
134.00	-14.31	-25.44	0.00	-971.83	0.00	971.83	2437.62	1218.81	3402.71	1703.88	83.93	-6.510	0.000	0.577
135.00	-14.07	-25.33	0.00	-946.39	0.00	946.39	1823.78	911.89	2575.19	1289.51	85.29	-6.565	0.000	0.742
136.00	-13.92	-25.25	0.00	-921.06	0.00	921.06	1816.04	908.02	2546.55	1275.17	86.67	-6.620	0.000	0.731
138.00	-13.64	-25.06	0.00	-870.57	0.00	870.57	1800.35	900.17	2489.45	1246.57	89.47	-6.749	0.000	0.707
140.00	-13.36	-24.87	0.00	-820.45	0.00	820.45	1784.40	892.20	2432.60	1218.11	92.32	-6.875	0.000	0.682
142.00	-13.08	-24.69	0.00	-770.70	0.00	770.70	1768.19	884.09	2376.03	1189.78	95.22	-6.998	0.000	0.656
144.00	-12.81	-24.51	0.00	-721.32	0.00	721.32	1751.71	875.86	2319.73	1161.59	98.17	-7.120	0.000	0.629
146.00	-12.55	-24.32	0.00	-672.31	0.00	672.31	1734.98	867.49	2263.74	1133.55	101.17	-7.238	0.000	0.601
148.00	-12.29	-24.14	0.00	-623.67	0.00	623.67	1717.98	858.99	2208.06	1105.67	104.22	-7.353	0.000	0.572
150.00	-12.03	-23.96	0.00	-575.38	0.00	575.38	1700.71	850.36	2152.72	1077.96	107.31	-7.464	0.000	0.542
152.00	-11.78	-23.78	0.00	-527.46	0.00	527.46	1683.19	841.59	2097.72	1050.42	110.46	-7.571	0.000	0.510
154.00	-11.54	-23.59	0.00	-479.91	0.00	479.91	1665.40	832.70	2043.08	1023.06	113.64	-7.673	0.000	0.477
155.00	-9.12	-18.42	0.00	-456.31	0.00	456.31	1656.41	828.20	2015.90	1009.45	115.25	-7.723	0.000	0.458
156.00	-9.01	-18.33	0.00	-437.90	0.00	437.90	1647.35	823.68	1988.82	995.89	116.87	-7.772	0.000	0.446
158.00	-8.81	-18.16	0.00	-401.23	0.00	401.23	1629.04	814.52	1934.94	968.91	120.13	-7.865	0.000	0.420
160.00	-8.61	-17.98	0.00	-364.92	0.00	364.92	1610.46	805.23	1881.48	942.14	123.44	-7.955	0.000	0.393
162.00	-8.42	-17.80	0.00	-328.96	0.00	328.96	1591.62	795.81	1828.44	915.58	126.78	-8.041	0.000	0.365
164.00	-8.23	-17.63	0.00	-293.36	0.00	293.36	1572.52	786.26	1775.84	889.24	130.15	-8.121	0.000	0.336
165.00	-6.54	-13.45	0.00	-275.73	0.00	275.73	1562.88	781.44	1749.71	876.15	131.85	-8.160	0.000	0.319
166.00	-6.45	-13.36	0.00	-262.28	0.00	262.28	1553.16	776.58	1723.69	863.13	133.56	-8.198	0.000	0.308
168.00	-6.30	-13.19	0.00	-235.56	0.00	235.56	1533.53	766.77	1672.01	837.25	137.00	-8.269	0.000	0.286
170.00	-6.15	-13.03	0.00	-209.17	0.00	209.17	1513.65	756.82	1620.81	811.61	140.47	-8.336	0.000	0.262
172.00	-6.01	-12.86	0.00	-183.11	0.00	183.11	1493.49	746.75	1570.12	786.22	143.96	-8.399	0.000	0.237
174.00	-5.87	-12.70	0.00	-157.39	0.00	157.39	1473.08	736.54	1519.93	761.10	147.48	-8.456	0.000	0.211
175.00	-3.55	-7.98	0.00	-144.69	0.00	144.69	1462.77	731.39	1495.04	748.63	149.25	-8.483	0.000	0.196
176.00	-3.49	-7.91	0.00	-136.71	0.00	136.71	1452.40	726.20	1470.28	736.23	151.02	-8.509	0.000	0.188
178.00	-3.38	-7.75	0.00	-120.90	0.00	120.90	1427.84	713.92	1417.58	709.84	154.58	-8.557	0.000	0.173
180.00	-3.28	-7.59	0.00	-105.40	0.00	105.40	1400.09	700.04	1362.73	682.38	158.16	-8.603	0.000	0.157
180.00	-3.28	-7.59	0.00	-105.40	0.00	105.40	1571.64	785.82	1525.71	763.99	158.16	-8.603	0.000	0.140
182.00	-3.16	-7.43	0.00	-90.22	0.00	90.22	1571.64	785.82	1525.71	763.99	161.76	-8.644	0.000	0.120
184.00	-3.04	-7.28	0.00	-75.35	0.00	75.35	1571.64	785.82	1525.71	763.99	165.38	-8.675	0.000	0.101
186.00	-2.92	-7.12	0.00	-60.79	0.00	60.79	1571.64	785.82	1525.71	763.99	169.00	-8.701	0.000	0.082
188.00	-2.81	-6.96	0.00	-46.56	0.00	46.56	1571.64	785.82	1525.71	763.99	172.64	-8.721	0.000	0.063

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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190.00	-2.69	-6.80	0.00	-32.64	0.00	32.64	1571.64	785.82	1525.71	763.99	176.28	-8.736	0.000	0.045
192.00	-2.58	-6.64	0.00	-19.04	0.00	19.04	1571.64	785.82	1525.71	763.99	179.93	-8.746	0.000	0.027
193.00	-2.25	-6.24	0.00	-12.41	0.00	12.41	1571.64	785.82	1525.71	763.99	181.76	-8.749	0.000	0.018
194.00	-2.20	-6.16	0.00	-6.16	0.00	6.16	1571.64	785.82	1525.71	763.99	183.58	-8.751	0.000	0.010
195.00	0.00	-5.76	0.00	0.00	0.00	0.00	1571.64	785.82	1525.71	763.99	185.41	-8.752	0.000	0.000

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



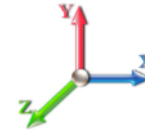
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 32

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	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	5.168	5.68	0.00	1.200	1.133	2.00	11.254	13.50	76.8	185.1	806.1
4.00		1.00	0.85	5.168	5.68	0.00	1.200	1.215	2.00	11.201	13.44	76.4	197.2	813.6
6.00		1.00	0.85	5.168	5.68	0.00	1.200	1.265	2.00	11.138	13.37	76.0	204.0	815.8
8.00		1.00	0.85	5.168	5.68	0.00	1.200	1.302	2.00	11.071	13.29	75.5	208.5	815.8
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.331	2.00	11.001	13.20	75.0	211.7	814.4
12.00		1.00	0.85	5.168	5.68	0.00	1.200	1.356	2.00	10.929	13.12	74.6	214.1	812.2
14.00		1.00	0.85	5.168	5.68	0.00	1.200	1.377	2.00	10.857	13.03	74.1	215.9	809.4
16.00		1.00	0.86	5.232	5.76	0.00	1.200	1.395	2.00	10.783	12.94	74.5	217.2	806.2
18.00		1.00	0.88	5.363	5.90	0.00	1.200	1.412	2.00	10.709	12.85	75.8	218.2	802.6
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.427	2.00	10.634	12.76	77.0	218.9	798.7
22.00		1.00	0.92	5.595	6.15	0.00	1.200	1.440	2.00	10.559	12.67	78.0	219.3	794.5
24.00		1.00	0.94	5.698	6.27	0.00	1.200	1.453	2.00	10.484	12.58	78.9	219.6	790.2
26.00		1.00	0.95	5.795	6.37	0.00	1.200	1.465	2.00	10.408	12.49	79.6	219.6	785.7
28.00		1.00	0.97	5.886	6.47	0.00	1.200	1.476	2.00	10.332	12.40	80.3	219.6	781.1
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.486	2.00	10.256	12.31	80.8	219.4	776.3
32.00		1.00	1.00	6.054	6.66	0.00	1.200	1.495	2.00	10.179	12.22	81.3	219.1	771.4
34.00		1.00	1.01	6.132	6.74	0.00	1.200	1.504	2.00	10.103	12.12	81.8	218.6	766.4
36.00		1.00	1.02	6.206	6.83	0.00	1.200	1.513	2.00	10.026	12.03	82.1	218.1	761.4
38.00		1.00	1.03	6.277	6.90	0.00	1.200	1.521	2.00	9.949	11.94	82.4	217.6	756.2
40.00		1.00	1.04	6.345	6.98	0.00	1.200	1.529	2.00	9.872	11.85	82.7	216.9	751.0
41.00	Bot - Section 2	1.00	1.05	6.378	7.02	0.00	1.200	1.533	1.00	4.907	5.89	41.3	108.3	373.6
42.00		1.00	1.05	6.410	7.05	0.00	1.200	1.537	1.00	4.951	5.94	41.9	109.5	641.5
44.00		1.00	1.06	6.474	7.12	0.00	1.200	1.544	2.00	9.844	11.81	84.1	218.3	1275.4
46.00		1.00	1.07	6.534	7.19	0.00	1.200	1.551	2.00	9.767	11.72	84.2	217.5	1265.4
48.00	Top - Section 1	1.00	1.08	6.593	7.25	0.00	1.200	1.557	2.00	9.689	11.63	84.3	216.6	1255.4
50.00		1.00	1.09	6.650	7.32	0.00	1.200	1.564	2.00	9.612	11.53	84.4	215.6	734.1
52.00		1.00	1.10	6.705	7.38	0.00	1.200	1.570	2.00	9.534	11.44	84.4	214.7	728.6
54.00		1.00	1.11	6.759	7.43	0.00	1.200	1.576	2.00	9.456	11.35	84.4	213.6	723.0
56.00		1.00	1.12	6.811	7.49	0.00	1.200	1.581	2.00	9.379	11.25	84.3	212.6	717.3
58.00		1.00	1.13	6.861	7.55	0.00	1.200	1.587	2.00	9.301	11.16	84.2	211.5	711.6
60.00		1.00	1.14	6.910	7.60	0.00	1.200	1.592	2.00	9.223	11.07	84.1	210.3	705.9
62.00		1.00	1.14	6.958	7.65	0.00	1.200	1.598	2.00	9.145	10.97	84.0	209.2	700.2
64.00		1.00	1.15	7.005	7.71	0.00	1.200	1.603	2.00	9.067	10.88	83.8	208.0	694.4
66.00		1.00	1.16	7.050	7.76	0.00	1.200	1.608	2.00	8.989	10.79	83.7	206.7	688.6
68.00		1.00	1.17	7.095	7.80	0.00	1.200	1.612	2.00	8.911	10.69	83.5	205.4	682.7
70.00		1.00	1.17	7.138	7.85	0.00	1.200	1.617	2.00	8.833	10.60	83.2	204.2	676.9
72.00		1.00	1.18	7.181	7.90	0.00	1.200	1.622	2.00	8.755	10.51	83.0	202.8	671.0
74.00		1.00	1.19	7.222	7.94	0.00	1.200	1.626	2.00	8.676	10.41	82.7	201.5	665.0
76.00		1.00	1.19	7.263	7.99	0.00	1.200	1.631	2.00	8.598	10.32	82.4	200.1	659.1
78.00		1.00	1.20	7.303	8.03	0.00	1.200	1.635	2.00	8.520	10.22	82.1	198.7	653.1
80.00		1.00	1.21	7.342	8.08	0.00	1.200	1.639	2.00	8.442	10.13	81.8	197.3	647.1
81.00	Top - Section 2	1.00	1.21	7.361	8.10	0.00	1.200	1.641	1.00	4.191	5.03	40.7	98.3	321.5
82.00		1.00	1.21	7.380	8.12	0.00	1.200	1.643	1.00	4.172	5.01	40.6	97.9	283.2
84.00		1.00	1.22	7.418	8.16	0.00	1.200	1.647	2.00	8.285	9.94	81.1	194.4	562.2
85.00	Bot - Section 4	1.00	1.22	7.436	8.18	0.00	1.200	1.649	1.00	4.113	4.94	40.4	96.8	279.3
86.00		1.00	1.23	7.454	8.20	0.00	1.200	1.651	1.00	4.146	4.98	40.8	97.8	463.3

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00	1.00	1.23	7.491	8.24	0.00	1.200	1.655	2.00	8.234	9.88	81.4	194.1	919.3
90.00	1.00	1.24	7.526	8.28	0.00	1.200	1.658	2.00	8.155	9.79	81.0	192.5	910.2
91.00 Top - Section 3	1.00	1.24	7.544	8.30	0.00	1.200	1.660	1.00	4.048	4.86	40.3	95.9	451.8
92.00	1.00	1.24	7.561	8.32	0.00	1.200	1.662	1.00	4.029	4.83	40.2	95.5	273.8
94.00	1.00	1.25	7.595	8.35	0.00	1.200	1.666	2.00	7.998	9.60	80.2	189.5	543.2
96.00	1.00	1.25	7.629	8.39	0.00	1.200	1.669	2.00	7.920	9.50	79.8	187.9	537.8
98.00	1.00	1.26	7.662	8.43	0.00	1.200	1.672	2.00	7.841	9.41	79.3	186.4	532.4
100.00	1.00	1.27	7.695	8.46	0.00	1.200	1.676	2.00	7.763	9.32	78.9	184.8	527.0
102.00	1.00	1.27	7.727	8.50	0.00	1.200	1.679	2.00	7.684	9.22	78.4	183.2	521.6
104.00	1.00	1.28	7.759	8.53	0.00	1.200	1.682	2.00	7.606	9.13	77.9	181.6	516.2
106.00	1.00	1.28	7.790	8.57	0.00	1.200	1.686	2.00	7.527	9.03	77.4	179.9	510.8
108.00	1.00	1.29	7.821	8.60	0.00	1.200	1.689	2.00	7.448	8.94	76.9	178.3	505.3
110.00	1.00	1.29	7.851	8.64	0.00	1.200	1.692	2.00	7.370	8.84	76.4	176.6	499.8
112.00	1.00	1.30	7.881	8.67	0.00	1.200	1.695	2.00	7.291	8.75	75.8	175.0	494.3
114.00	1.00	1.30	7.910	8.70	0.00	1.200	1.698	2.00	7.212	8.65	75.3	173.3	488.9
116.00	1.00	1.31	7.939	8.73	0.00	1.200	1.701	2.00	7.134	8.56	74.8	171.6	483.3
118.00	1.00	1.31	7.968	8.76	0.00	1.200	1.704	2.00	7.055	8.47	74.2	169.9	477.8
120.00	1.00	1.32	7.996	8.80	0.00	1.200	1.707	2.00	6.976	8.37	73.6	168.2	472.3
122.00	1.00	1.32	8.024	8.83	0.00	1.200	1.710	2.00	6.898	8.28	73.1	166.4	466.8
124.00	1.00	1.32	8.051	8.86	0.00	1.200	1.712	2.00	6.819	8.18	72.5	164.7	461.2
126.00	1.00	1.33	8.079	8.89	0.00	1.200	1.715	2.00	6.740	8.09	71.9	162.9	455.6
128.00	1.00	1.33	8.105	8.92	0.00	1.200	1.718	2.00	6.661	7.99	71.3	161.2	450.1
130.00 Bot - Section 5	1.00	1.34	8.132	8.95	0.00	1.200	1.720	2.00	6.582	7.90	70.7	159.4	444.5
132.00	1.00	1.34	8.158	8.97	0.00	1.200	1.723	2.00	6.503	7.81	70.1	157.7	438.9
134.00	1.00	1.35	8.184	9.00	0.00	1.200	1.726	2.00	6.424	7.71	69.5	156.0	433.3
135.00 Top - Section 4	1.00	1.35	8.197	9.02	0.00	1.200	1.727	1.00	3.225	3.87	34.9	78.6	327.5
136.00	1.00	1.35	8.210	9.03	0.00	1.200	1.728	1.00	3.205	3.85	34.7	78.1	189.0
138.00	1.00	1.35	8.235	9.06	0.00	1.200	1.731	2.00	6.352	7.62	69.0	154.4	373.9
140.00	1.00	1.36	8.260	9.09	0.00	1.200	1.733	2.00	6.273	7.53	68.4	152.6	369.0
142.00	1.00	1.36	8.285	9.11	0.00	1.200	1.736	2.00	6.194	7.43	67.7	150.8	364.2
144.00	1.00	1.37	8.309	9.14	0.00	1.200	1.738	2.00	6.115	7.34	67.1	148.9	359.3
146.00	1.00	1.37	8.333	9.17	0.00	1.200	1.741	2.00	6.036	7.24	66.4	147.1	354.4
148.00	1.00	1.37	8.357	9.19	0.00	1.200	1.743	2.00	5.957	7.15	65.7	145.3	349.5
150.00	1.00	1.38	8.381	9.22	0.00	1.200	1.745	2.00	5.879	7.05	65.0	143.4	344.6
152.00	1.00	1.38	8.404	9.24	0.00	1.200	1.748	2.00	5.800	6.96	64.3	141.5	339.7
154.00	1.00	1.39	8.427	9.27	0.00	1.200	1.750	2.00	5.721	6.86	63.6	139.7	334.8
155.00 Appurtenance(s)	1.00	1.39	8.439	9.28	0.00	1.200	1.751	1.00	2.831	3.40	31.5	69.4	165.8
156.00	1.00	1.39	8.450	9.30	0.00	1.200	1.752	1.00	2.811	3.37	31.4	68.9	164.5
158.00	1.00	1.39	8.473	9.32	0.00	1.200	1.754	2.00	5.563	6.68	62.2	135.9	324.9
160.00	1.00	1.40	8.495	9.34	0.00	1.200	1.757	2.00	5.484	6.58	61.5	134.0	320.0
162.00	1.00	1.40	8.518	9.37	0.00	1.200	1.759	2.00	5.405	6.49	60.8	132.1	315.0
164.00	1.00	1.40	8.540	9.39	0.00	1.200	1.761	2.00	5.326	6.39	60.0	130.2	310.0
165.00 Appurtenance(s)	1.00	1.41	8.551	9.41	0.00	1.200	1.762	1.00	2.633	3.16	29.7	64.6	153.4
166.00	1.00	1.41	8.561	9.42	0.00	1.200	1.763	1.00	2.614	3.14	29.5	64.1	152.2
168.00	1.00	1.41	8.583	9.44	0.00	1.200	1.765	2.00	5.168	6.20	58.6	126.4	300.1
170.00	1.00	1.42	8.604	9.46	0.00	1.200	1.767	2.00	5.089	6.11	57.8	124.5	295.1
172.00	1.00	1.42	8.626	9.49	0.00	1.200	1.769	2.00	5.010	6.01	57.0	122.5	290.1
174.00	1.00	1.42	8.647	9.51	0.00	1.200	1.771	2.00	4.931	5.92	56.3	120.6	285.2
175.00 Appurtenance(s)	1.00	1.42	8.657	9.52	0.00	1.200	1.772	1.00	2.436	2.92	27.8	59.8	140.9
176.00	1.00	1.43	8.667	9.53	0.00	1.200	1.773	1.00	2.416	2.90	27.6	59.3	139.7
178.00	1.00	1.43	8.688	9.56	0.00	1.200	1.775	2.00	4.773	5.73	54.7	116.7	275.2
180.00 Top - Section 5	1.00	1.43	8.709	9.58	0.00	1.200	1.777	2.00	4.694	5.63	54.0	114.7	270.1
182.00	1.00	1.44	8.729	9.60	0.00	1.200	1.779	2.00	4.655	5.59	53.6	114.9	287.6
184.00	1.00	1.44	8.749	9.62	0.00	1.200	1.781	2.00	4.655	5.59	53.8	115.0	287.7
186.00	1.00	1.44	8.769	9.65	0.00	1.200	1.783	2.00	4.656	5.59	53.9	115.1	287.9
188.00	1.00	1.45	8.789	9.67	0.00	1.200	1.785	2.00	4.657	5.59	54.0	115.3	288.0
190.00	1.00	1.45	8.808	9.69	0.00	1.200	1.787	2.00	4.657	5.59	54.2	115.4	288.1

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Page: 33
	Struct Class: II	



192.00	1.00	1.45	8.828	9.71	0.00	1.200	1.789	2.00	4.658	5.59	54.3	115.5	288.3
193.00 Appurtenance(s)	1.00	1.45	8.837	9.72	0.00	1.200	1.790	1.00	2.329	2.79	27.2	57.8	144.2
194.00	1.00	1.46	8.847	9.73	0.00	1.200	1.791	1.00	2.329	2.80	27.2	57.8	144.2
195.00 Appurtenance(s)	1.00	1.46	8.857	9.74	0.00	1.200	1.792	1.00	2.329	2.80	27.2	57.9	144.2
Totals:								195.00			7,134.3		56,651.6

Discrete Appurtenance Forces

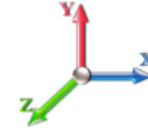
Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 32

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor	x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	800 Mhz Filter	3	8.857	9.742	0.52	0.75	1.68	71.63	0.000	0.000	16.36	0.00	0.00	
2	195.00	1900MHz RRH	3	8.857	9.742	0.50	0.75	7.88	401.00	0.000	0.000	76.77	0.00	0.00	
3	195.00	ACU-A20-N	4	8.857	9.742	0.50	0.75	0.89	17.24	0.000	0.000	8.71	0.00	0.00	
4	195.00	800 Mhz	6	8.857	9.742	0.50	0.75	14.50	893.47	0.000	0.000	141.25	0.00	0.00	
5	195.00	APXVSP18-C-A20	3	8.857	9.742	0.62	0.75	20.33	589.04	0.000	0.000	198.09	0.00	0.00	
6	195.00	Modified Platform + HR &	1	8.857	9.742	1.00	1.00	90.97	4105.57	0.000	0.000	886.29	0.00	0.00	
7	195.00	TD-RRH8x20-25	3	8.857	9.742	0.38	0.75	5.50	594.09	0.000	0.000	53.56	0.00	0.00	
8	195.00	Commscope DT465B-2XR	3	8.857	9.742	0.62	0.75	19.57	920.96	0.000	0.000	190.65	0.00	0.00	
9	193.00	Collar Mount	1	8.837	9.721	1.00	1.00	8.58	620.68	0.000	0.000	83.40	0.00	0.00	
10	175.00	Commscope	3	8.657	9.523	1.00	1.00	0.00	141.72	0.000	0.000	0.00	0.00	0.00	
11	175.00	Commscope	3	8.657	9.523	0.57	0.75	4.59	385.23	0.000	0.000	43.73	0.00	0.00	
12	175.00	RFS DB-C1-12C-24AB-0Z	1	8.657	9.523	0.75	0.75	3.67	125.50	0.000	0.000	34.96	0.00	0.00	
13	175.00	Samsung B2/B66A	3	8.657	9.523	0.50	0.75	3.70	537.96	0.000	0.000	35.21	0.00	0.00	
14	175.00	Samsung B5/B13	3	8.657	9.523	0.50	0.75	3.70	465.23	0.000	0.000	35.21	0.00	0.00	
15	175.00	Samsung MT6407-77A	3	8.657	9.523	0.52	0.75	8.90	651.22	0.000	0.000	84.78	0.00	0.00	
16	175.00	Commscope	6	8.657	9.523	0.64	0.75	36.44	1560.72	0.000	0.000	346.97	0.00	0.00	
17	175.00	HRK14	1	8.657	9.523	1.00	1.00	16.20	1716.21	0.000	0.000	154.26	0.00	0.00	
18	175.00	Low Profile Platform	1	8.657	9.523	1.00	1.00	39.94	2829.24	0.000	0.000	380.30	0.00	0.00	
19	165.00	Low Profile Platform	1	8.551	9.406	1.00	1.00	39.83	2821.45	0.000	0.000	374.63	0.00	0.00	
20	165.00	DC6-48-60-18-8F	1	8.551	9.406	1.00	1.00	1.36	82.88	0.000	0.000	12.81	0.00	0.00	
21	165.00	ABT-DF-DMADBH	1	8.551	9.406	1.00	1.00	0.24	2.87	0.000	0.000	2.30	0.00	0.00	
22	165.00	AM-X-CD-16-65-00T-RET	1	8.551	9.406	0.72	0.80	7.81	175.53	0.000	0.000	73.41	0.00	0.00	
23	165.00	RRUS-11	6	8.551	9.406	0.57	0.80	10.77	708.99	0.000	0.000	101.27	0.00	0.00	
24	165.00	LGP2140X TMA	12	8.551	9.406	0.54	0.80	13.91	489.69	0.000	0.000	130.80	0.00	0.00	
25	165.00	7770.00	6	8.551	9.406	0.58	0.80	23.04	1072.60	0.000	0.000	216.73	0.00	0.00	
26	165.00	800 10764	2	8.551	9.406	0.72	0.80	11.58	282.39	0.000	0.000	108.94	0.00	0.00	
27	155.00	RFS	3	8.439	9.283	0.52	0.75	34.88	1719.24	0.000	0.000	323.79	0.00	0.00	
28	155.00	Ericsson 4449 B71 + B85	3	8.439	9.283	0.50	0.75	3.83	262.12	0.000	0.000	35.56	0.00	0.00	
29	155.00	Ericsson 4415 B66A	3	8.439	9.283	0.50	0.75	3.66	366.20	0.000	0.000	33.96	0.00	0.00	
30	155.00	RFS	3	8.439	9.283	0.50	0.75	13.26	398.35	0.000	0.000	123.07	0.00	0.00	
31	155.00	Ericsson AIR6449 B41	3	8.439	9.283	0.53	0.75	10.55	688.41	0.000	0.000	97.93	0.00	0.00	
32	155.00	Low Profile Platform	1	8.439	9.283	1.00	1.00	39.72	2813.21	0.000	0.000	368.70	0.00	0.00	
33	155.00	Ericsson 4424 B25	3	8.439	9.283	0.50	0.75	3.99	577.03	0.000	0.000	37.05	0.00	0.00	
34	155.00	782 11056	3	8.439	9.283	0.65	0.75	1.34	39.41	0.000	0.000	12.40	0.00	0.00	
35	155.00	S20057A1	3	8.439	9.283	0.55	0.75	2.50	80.21	0.000	0.000	23.18	0.00	0.00	
36	155.00	KRY 112 144/1	3	8.439	9.283	0.52	0.75	1.40	62.75	0.000	0.000	12.96	0.00	0.00	
37	155.00	HRK12 (Handrail Kit)	1	8.439	9.283	1.00	1.00	15.35	310.26	0.000	0.000	142.48	0.00	0.00	

Totals: 29,580.28

5,002.46

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 32

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
2.00		76.77	919.08	0.00	0.00
4.00		76.41	926.59	0.00	0.00
6.00		75.98	928.84	0.00	0.00
8.00		75.52	928.80	0.00	0.00
10.00		75.05	927.45	0.00	0.00
12.00		74.56	925.26	0.00	0.00
14.00		74.06	922.45	0.00	0.00
16.00		74.47	919.19	0.00	0.00
18.00		75.81	915.58	0.00	0.00
20.00		76.97	911.69	0.00	0.00
22.00		77.98	907.55	0.00	0.00
24.00		78.85	903.22	0.00	0.00
26.00		79.61	898.73	0.00	0.00
28.00		80.27	894.08	0.00	0.00
30.00		80.85	889.31	0.00	0.00
32.00		81.34	884.42	0.00	0.00
34.00		81.77	879.44	0.00	0.00
36.00		82.13	874.36	0.00	0.00
38.00		82.43	869.20	0.00	0.00
40.00		82.68	863.97	0.00	0.00
41.00		41.31	430.09	0.00	0.00
42.00		41.89	698.02	0.00	0.00
44.00		84.12	1388.40	0.00	0.00
46.00		84.24	1378.41	0.00	0.00
48.00		84.33	1368.38	0.00	0.00
50.00		84.37	847.12	0.00	0.00
52.00		84.39	841.56	0.00	0.00
54.00		84.37	835.96	0.00	0.00
56.00		84.32	830.31	0.00	0.00
58.00		84.24	824.63	0.00	0.00
60.00		84.13	818.92	0.00	0.00
62.00		84.00	813.17	0.00	0.00
64.00		83.84	807.38	0.00	0.00
66.00		83.66	801.57	0.00	0.00
68.00		83.45	795.73	0.00	0.00
70.00		83.23	789.86	0.00	0.00
72.00		82.98	783.96	0.00	0.00
74.00		82.72	778.04	0.00	0.00
76.00		82.43	772.10	0.00	0.00
78.00		82.13	766.13	0.00	0.00
80.00		81.81	760.14	0.00	0.00
81.00		40.72	377.99	0.00	0.00
82.00		40.64	339.74	0.00	0.00
84.00		81.12	675.16	0.00	0.00
85.00		40.37	335.78	0.00	0.00
86.00		40.80	519.76	0.00	0.00

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00	81.41	1032.31	0.00	0.00	
90.00	81.02	1023.18	0.00	0.00	
91.00	40.31	508.35	0.00	0.00	
92.00	40.21	330.30	0.00	0.00	
94.00	80.19	656.21	0.00	0.00	
96.00	79.76	650.84	0.00	0.00	
98.00	79.31	645.45	0.00	0.00	
100.00	78.85	640.05	0.00	0.00	
102.00	78.38	634.64	0.00	0.00	
104.00	77.89	629.21	0.00	0.00	
106.00	77.40	623.76	0.00	0.00	
108.00	76.89	618.30	0.00	0.00	
110.00	76.37	612.83	0.00	0.00	
112.00	75.85	607.35	0.00	0.00	
114.00	75.31	601.86	0.00	0.00	
116.00	74.76	596.35	0.00	0.00	
118.00	74.20	590.83	0.00	0.00	
120.00	73.63	585.30	0.00	0.00	
122.00	73.06	579.76	0.00	0.00	
124.00	72.47	574.21	0.00	0.00	
126.00	71.87	568.64	0.00	0.00	
128.00	71.27	563.07	0.00	0.00	
130.00	70.66	557.49	0.00	0.00	
132.00	70.95	782.71	0.00	0.00	
134.00	70.32	774.06	0.00	0.00	
135.00	34.89	384.01	0.00	0.00	
136.00	34.74	245.50	0.00	0.00	
138.00	69.04	486.91	0.00	0.00	
140.00	68.39	482.05	0.00	0.00	
142.00	67.74	477.18	0.00	0.00	
144.00	67.07	472.30	0.00	0.00	
146.00	66.40	467.41	0.00	0.00	
148.00	65.72	462.51	0.00	0.00	
150.00	65.03	457.60	0.00	0.00	
152.00	64.34	452.69	0.00	0.00	
154.00	63.64	447.77	0.00	0.00	
155.00	(29) attachments	1242.61	7539.45	0.00	0.00
156.00		31.35	202.13	0.00	0.00
158.00		62.22	400.08	0.00	0.00
160.00		61.50	395.14	0.00	0.00
162.00		60.77	390.19	0.00	0.00
164.00		60.04	385.23	0.00	0.00
165.00	(30) attachments	1050.61	5827.38	0.00	0.00
166.00		29.54	171.79	0.00	0.00
168.00		58.55	339.37	0.00	0.00
170.00		57.80	334.39	0.00	0.00
172.00		57.04	329.40	0.00	0.00
174.00		56.28	324.41	0.00	0.00
175.00	(24) attachments	1143.26	8573.61	0.00	0.00
176.00		27.64	144.28	0.00	0.00
178.00		54.74	284.32	0.00	0.00
180.00		53.96	279.31	0.00	0.00
182.00		53.63	296.77	0.00	0.00
184.00		53.76	296.91	0.00	0.00
186.00		53.89	297.04	0.00	0.00
188.00		54.02	297.17	0.00	0.00
190.00		54.15	297.30	0.00	0.00

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 37



192.00		54.28	297.43	0.00	0.00
193.00	(1) attachments	110.57	769.43	0.00	0.00
194.00		27.20	148.78	0.00	0.00
195.00	(26) attachments	1598.89	7741.81	0.00	0.00
	Totals:	12,136.77	95,653.61	0.00	0.00

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

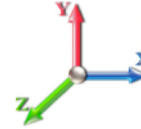


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 32

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	-95.65	-12.16	0.00	-1725.7	0.00	1725.77	4628.91	2314.46	12221.1	6119.66	0.00	0.000	0.000	0.303
2.00	-94.73	-12.12	0.00	-1701.4	0.00	1701.46	4612.68	2306.34	12088.3	6053.16	0.01	-0.025	0.000	0.302
4.00	-93.79	-12.08	0.00	-1677.2	0.00	1677.22	4596.18	2298.09	11955.5	5986.64	0.02	-0.049	0.000	0.301
6.00	-92.86	-12.05	0.00	-1653.0	0.00	1653.05	4579.43	2289.71	11822.6	5920.10	0.05	-0.074	0.000	0.300
8.00	-91.93	-12.01	0.00	-1628.9	0.00	1628.95	4562.40	2281.20	11689.7	5853.55	0.08	-0.100	0.000	0.298
10.00	-90.99	-11.98	0.00	-1604.9	0.00	1604.93	4545.12	2272.56	11556.8	5787.00	0.13	-0.125	0.000	0.297
12.00	-90.06	-11.94	0.00	-1580.9	0.00	1580.98	4527.57	2263.79	11423.9	5720.46	0.19	-0.150	0.000	0.296
14.00	-89.14	-11.90	0.00	-1557.1	0.00	1557.10	4509.77	2254.88	11291.0	5653.92	0.26	-0.176	0.000	0.295
16.00	-88.21	-11.87	0.00	-1533.2	0.00	1533.29	4491.69	2245.85	11158.2	5587.41	0.34	-0.202	0.000	0.294
18.00	-87.29	-11.83	0.00	-1509.5	0.00	1509.56	4473.36	2236.68	11025.4	5520.93	0.43	-0.228	0.000	0.293
20.00	-86.37	-11.79	0.00	-1485.9	0.00	1485.91	4454.76	2227.38	10892.7	5454.49	0.53	-0.255	0.000	0.292
22.00	-85.46	-11.74	0.00	-1462.3	0.00	1462.34	4435.90	2217.95	10760.1	5388.08	0.64	-0.281	0.000	0.291
24.00	-84.55	-11.70	0.00	-1438.8	0.00	1438.86	4416.78	2208.39	10627.6	5321.73	0.77	-0.308	0.000	0.290
26.00	-83.65	-11.65	0.00	-1415.4	0.00	1415.46	4397.40	2198.70	10495.2	5255.44	0.90	-0.335	0.000	0.288
28.00	-82.75	-11.61	0.00	-1392.1	0.00	1392.15	4377.75	2188.87	10363.0	5189.22	1.05	-0.362	0.000	0.287
30.00	-81.86	-11.56	0.00	-1368.9	0.00	1368.94	4357.84	2178.92	10230.9	5123.07	1.21	-0.390	0.000	0.286
32.00	-80.97	-11.51	0.00	-1345.8	0.00	1345.82	4337.67	2168.83	10099.0	5057.01	1.37	-0.417	0.000	0.285
34.00	-80.08	-11.46	0.00	-1322.7	0.00	1322.79	4317.23	2158.62	9967.25	4991.03	1.56	-0.445	0.000	0.284
36.00	-79.20	-11.41	0.00	-1299.8	0.00	1299.87	4296.53	2148.27	9835.69	4925.16	1.75	-0.473	0.000	0.282
38.00	-78.33	-11.36	0.00	-1277.0	0.00	1277.04	4275.57	2137.79	9704.34	4859.38	1.95	-0.502	0.000	0.281
40.00	-77.46	-11.30	0.00	-1254.3	0.00	1254.32	4254.35	2127.17	9573.22	4793.73	2.17	-0.530	0.000	0.280
41.00	-77.03	-11.27	0.00	-1243.0	0.00	1243.02	4243.64	2121.82	9507.75	4760.94	2.28	-0.545	0.000	0.279
42.00	-76.33	-11.25	0.00	-1231.7	0.00	1231.75	4232.86	2116.43	9442.34	4728.19	2.40	-0.559	0.000	0.279
44.00	-74.93	-11.19	0.00	-1209.2	0.00	1209.24	4211.11	2105.56	9311.72	4662.78	2.64	-0.588	0.000	0.277
46.00	-73.55	-11.13	0.00	-1186.8	0.00	1186.85	4189.10	2094.55	9181.37	4597.51	2.89	-0.617	0.000	0.276
48.00	-72.18	-11.07	0.00	-1164.5	0.00	1164.58	4202.19	2101.09	9258.62	4636.19	3.16	-0.647	0.000	0.268
50.00	-71.33	-11.01	0.00	-1142.4	0.00	1142.44	4180.07	2090.03	9128.39	4570.98	3.43	-0.676	0.000	0.267
52.00	-70.48	-10.95	0.00	-1120.4	0.00	1120.42	4157.69	2078.84	8998.45	4505.91	3.72	-0.705	0.000	0.266
54.00	-69.64	-10.89	0.00	-1098.5	0.00	1098.51	4135.04	2067.52	8868.82	4441.00	4.02	-0.734	0.000	0.264
56.00	-68.81	-10.83	0.00	-1076.7	0.00	1076.72	4112.14	2056.07	8739.51	4376.25	4.34	-0.763	0.000	0.263
58.00	-67.98	-10.77	0.00	-1055.0	0.00	1055.05	4088.97	2044.48	8610.54	4311.67	4.66	-0.792	0.000	0.261
60.00	-67.15	-10.71	0.00	-1033.5	0.00	1033.51	4065.54	2032.77	8481.93	4247.27	5.00	-0.821	0.000	0.260
62.00	-66.34	-10.65	0.00	-1012.0	0.00	1012.08	4041.84	2020.92	8353.69	4183.06	5.35	-0.851	0.000	0.258
64.00	-65.52	-10.59	0.00	-990.78	0.00	990.78	4017.89	2008.94	8225.84	4119.03	5.72	-0.881	0.000	0.257
66.00	-64.72	-10.53	0.00	-969.60	0.00	969.60	3993.67	1996.83	8098.39	4055.21	6.09	-0.911	0.000	0.255
68.00	-63.92	-10.46	0.00	-948.55	0.00	948.55	3969.18	1984.59	7971.36	3991.60	6.48	-0.941	0.000	0.254
70.00	-63.13	-10.40	0.00	-927.62	0.00	927.62	3944.44	1972.22	7844.75	3928.21	6.88	-0.971	0.000	0.252
72.00	-62.34	-10.34	0.00	-906.82	0.00	906.82	3919.43	1959.72	7718.60	3865.04	7.29	-1.002	0.000	0.251
74.00	-61.56	-10.28	0.00	-886.14	0.00	886.14	3894.16	1947.08	7592.91	3802.10	7.72	-1.033	0.000	0.249
76.00	-60.78	-10.21	0.00	-865.59	0.00	865.59	3868.63	1934.31	7467.70	3739.40	8.16	-1.064	0.000	0.247
78.00	-60.01	-10.15	0.00	-845.17	0.00	845.17	3842.83	1921.42	7342.98	3676.95	8.61	-1.095	0.000	0.246
80.00	-59.25	-10.08	0.00	-824.88	0.00	824.88	3816.78	1908.39	7218.77	3614.75	9.08	-1.126	0.000	0.244
81.00	-58.87	-10.04	0.00	-814.80	0.00	814.80	3803.65	1901.82	7156.86	3583.75	9.31	-1.142	0.000	0.243
81.00	-58.87	-10.04	0.00	-814.80	0.00	814.80	2964.89	1482.44	5593.90	2801.11	9.31	-1.142	0.000	0.311
82.00	-58.52	-10.02	0.00	-804.76	0.00	804.76	2956.04	1478.02	5548.38	2778.31	9.56	-1.158	0.000	0.310
84.00	-57.84	-9.96	0.00	-784.71	0.00	784.71	2938.13	1469.07	5457.49	2732.80	10.05	-1.196	0.000	0.307
85.00	-57.51	-9.93	0.00	-774.75	0.00	774.75	2929.08	1464.54	5412.12	2710.08	10.30	-1.215	0.000	0.306
86.00	-56.98	-9.91	0.00	-764.82	0.00	764.82	2919.97	1459.98	5366.81	2687.40	10.56	-1.235	0.000	0.304

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 39



88.00	-55.95	-9.84	0.00	-745.01	0.00	745.01	2901.54	1450.77	5276.37	2642.11	11.08	-1.273	0.000	0.301
90.00	-54.92	-9.76	0.00	-725.33	0.00	725.33	2882.85	1441.42	5186.17	2596.94	11.63	-1.312	0.000	0.298
91.00	-54.41	-9.73	0.00	-715.56	0.00	715.56	2898.33	1449.17	5260.79	2634.30	11.90	-1.331	0.000	0.290
92.00	-54.08	-9.71	0.00	-705.83	0.00	705.83	2889.00	1444.50	5215.68	2611.72	12.18	-1.351	0.000	0.289
94.00	-53.41	-9.65	0.00	-686.41	0.00	686.41	2870.13	1435.06	5125.65	2566.64	12.76	-1.388	0.000	0.286
96.00	-52.76	-9.59	0.00	-667.12	0.00	667.12	2851.00	1425.50	5035.90	2521.69	13.35	-1.426	0.000	0.283
98.00	-52.11	-9.53	0.00	-647.94	0.00	647.94	2831.61	1415.80	4946.44	2476.90	13.95	-1.463	0.000	0.280
100.00	-51.47	-9.47	0.00	-628.89	0.00	628.89	2811.95	1405.98	4857.28	2432.25	14.57	-1.501	0.000	0.277
102.00	-50.83	-9.40	0.00	-609.96	0.00	609.96	2792.03	1396.02	4768.43	2387.76	15.21	-1.539	0.000	0.274
104.00	-50.19	-9.34	0.00	-591.15	0.00	591.15	2771.85	1385.93	4679.92	2343.44	15.86	-1.577	0.000	0.270
106.00	-49.57	-9.28	0.00	-572.47	0.00	572.47	2751.41	1375.70	4591.76	2299.29	16.53	-1.615	0.000	0.267
108.00	-48.95	-9.22	0.00	-553.91	0.00	553.91	2730.70	1365.35	4503.96	2255.33	17.22	-1.653	0.000	0.264
110.00	-48.33	-9.16	0.00	-535.48	0.00	535.48	2709.73	1354.87	4416.54	2211.55	17.92	-1.692	0.000	0.260
112.00	-47.72	-9.09	0.00	-517.16	0.00	517.16	2688.50	1344.25	4329.52	2167.98	18.64	-1.730	0.000	0.256
114.00	-47.11	-9.03	0.00	-498.98	0.00	498.98	2667.01	1333.50	4242.91	2124.61	19.37	-1.768	0.000	0.253
116.00	-46.51	-8.97	0.00	-480.91	0.00	480.91	2645.25	1322.63	4156.72	2081.45	20.12	-1.806	0.000	0.249
118.00	-45.92	-8.91	0.00	-462.97	0.00	462.97	2623.23	1311.62	4070.97	2038.51	20.88	-1.845	0.000	0.245
120.00	-45.33	-8.85	0.00	-445.16	0.00	445.16	2600.95	1300.48	3985.68	1995.80	21.66	-1.883	0.000	0.241
122.00	-44.75	-8.78	0.00	-427.47	0.00	427.47	2578.41	1289.20	3900.86	1953.33	22.46	-1.921	0.000	0.236
124.00	-44.17	-8.72	0.00	-409.90	0.00	409.90	2555.60	1277.80	3816.53	1911.10	23.27	-1.959	0.000	0.232
126.00	-43.60	-8.66	0.00	-392.46	0.00	392.46	2532.53	1266.26	3732.70	1869.12	24.10	-1.997	0.000	0.227
128.00	-43.03	-8.59	0.00	-375.15	0.00	375.15	2509.20	1254.60	3649.39	1827.41	24.95	-2.035	0.000	0.222
130.00	-42.47	-8.53	0.00	-357.96	0.00	357.96	2485.60	1242.80	3566.61	1785.96	25.81	-2.072	0.000	0.218
132.00	-41.69	-8.46	0.00	-340.90	0.00	340.90	2461.74	1230.87	3484.38	1744.78	26.68	-2.109	0.000	0.212
134.00	-40.91	-8.38	0.00	-323.98	0.00	323.98	2437.62	1218.81	3402.71	1703.88	27.57	-2.146	0.000	0.207
135.00	-40.53	-8.34	0.00	-315.60	0.00	315.60	1823.78	911.89	2575.19	1289.51	28.03	-2.164	0.000	0.267
136.00	-40.28	-8.32	0.00	-307.26	0.00	307.26	1816.04	908.02	2546.55	1275.17	28.48	-2.183	0.000	0.263
138.00	-39.79	-8.26	0.00	-290.61	0.00	290.61	1800.35	900.17	2489.45	1246.57	29.40	-2.226	0.000	0.255
140.00	-39.30	-8.20	0.00	-274.09	0.00	274.09	1784.40	892.20	2432.60	1218.11	30.35	-2.268	0.000	0.247
142.00	-38.82	-8.15	0.00	-257.68	0.00	257.68	1768.19	884.09	2376.03	1189.78	31.30	-2.309	0.000	0.239
144.00	-38.35	-8.09	0.00	-241.39	0.00	241.39	1751.71	875.86	2319.73	1161.59	32.28	-2.350	0.000	0.230
146.00	-37.88	-8.03	0.00	-225.22	0.00	225.22	1734.98	867.49	2263.74	1133.55	33.27	-2.389	0.000	0.221
148.00	-37.42	-7.97	0.00	-209.17	0.00	209.17	1717.98	858.99	2208.06	1105.67	34.28	-2.428	0.000	0.211
150.00	-36.96	-7.91	0.00	-193.24	0.00	193.24	1700.71	850.36	2152.72	1077.96	35.31	-2.465	0.000	0.201
152.00	-36.50	-7.84	0.00	-177.43	0.00	177.43	1683.19	841.59	2097.72	1050.42	36.35	-2.501	0.000	0.191
154.00	-36.05	-7.78	0.00	-161.74	0.00	161.74	1665.40	832.70	2043.08	1023.06	37.40	-2.535	0.000	0.180
155.00	-28.57	-6.21	0.00	-153.96	0.00	153.96	1656.41	828.20	2015.90	1009.45	37.94	-2.552	0.000	0.170
156.00	-28.37	-6.18	0.00	-147.76	0.00	147.76	1647.35	823.68	1988.82	995.89	38.47	-2.569	0.000	0.166
158.00	-27.97	-6.12	0.00	-135.40	0.00	135.40	1629.04	814.52	1934.94	968.91	39.55	-2.600	0.000	0.157
160.00	-27.58	-6.05	0.00	-123.17	0.00	123.17	1610.46	805.23	1881.48	942.14	40.65	-2.631	0.000	0.148
162.00	-27.19	-5.98	0.00	-111.07	0.00	111.07	1591.62	795.81	1828.44	915.58	41.76	-2.659	0.000	0.138
164.00	-26.80	-5.92	0.00	-99.10	0.00	99.10	1572.52	786.26	1775.84	889.24	42.88	-2.687	0.000	0.129
165.00	-21.03	-4.60	0.00	-93.18	0.00	93.18	1562.88	781.44	1749.71	876.15	43.44	-2.700	0.000	0.120
166.00	-20.86	-4.57	0.00	-88.59	0.00	88.59	1553.16	776.58	1723.69	863.13	44.01	-2.712	0.000	0.116
168.00	-20.52	-4.50	0.00	-79.46	0.00	79.46	1533.53	766.77	1672.01	837.25	45.15	-2.736	0.000	0.108
170.00	-20.19	-4.43	0.00	-70.46	0.00	70.46	1513.65	756.82	1620.81	811.61	46.30	-2.759	0.000	0.100
172.00	-19.86	-4.37	0.00	-61.59	0.00	61.59	1493.49	746.75	1570.12	786.22	47.46	-2.780	0.000	0.092
174.00	-19.54	-4.30	0.00	-52.85	0.00	52.85	1473.08	736.54	1519.93	761.10	48.63	-2.799	0.000	0.083
175.00	-11.03	-2.74	0.00	-48.55	0.00	48.55	1462.77	731.39	1495.04	748.63	49.22	-2.809	0.000	0.072
176.00	-10.89	-2.71	0.00	-45.81	0.00	45.81	1452.40	726.20	1470.28	736.23	49.81	-2.817	0.000	0.070
178.00	-10.60	-2.64	0.00	-40.39	0.00	40.39	1427.84	713.92	1417.58	709.84	50.99	-2.833	0.000	0.064
180.00	-10.33	-2.58	0.00	-35.11	0.00	35.11	1400.09	700.04	1362.73	682.38	52.18	-2.848	0.000	0.059
180.00	-10.33	-2.58	0.00	-35.11	0.00	35.11	1571.64	785.82	1525.71	763.99	52.18	-2.848	0.000	0.053
182.00	-10.03	-2.51	0.00	-29.95	0.00	29.95	1571.64	785.82	1525.71	763.99	53.37	-2.862	0.000	0.046
184.00	-9.74	-2.44	0.00	-24.93	0.00	24.93	1571.64	785.82	1525.71	763.99	54.58	-2.873	0.000	0.039
186.00	-9.44	-2.38	0.00	-20.04	0.00	20.04	1571.64	785.82	1525.71	763.99	55.78	-2.881	0.000	0.032
188.00	-9.15	-2.31	0.00	-15.28	0.00	15.28	1571.64	785.82	1525.71	763.99	56.99	-2.888	0.000	0.026

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Page: 40
	Struct Class: II	



190.00	-8.86	-2.24	0.00	-10.66	0.00	10.66	1571.64	785.82	1525.71	763.99	58.20	-2.893	0.000	0.020
192.00	-8.56	-2.17	0.00	-6.18	0.00	6.18	1571.64	785.82	1525.71	763.99	59.41	-2.896	0.000	0.014
193.00	-7.80	-2.02	0.00	-4.01	0.00	4.01	1571.64	785.82	1525.71	763.99	60.02	-2.897	0.000	0.010
194.00	-7.65	-1.99	0.00	-1.99	0.00	1.99	1571.64	785.82	1525.71	763.99	60.62	-2.897	0.000	0.007
195.00	0.00	-1.60	0.00	0.00	0.00	0.00	1571.64	785.82	1525.71	763.99	61.23	-2.898	0.000	0.000

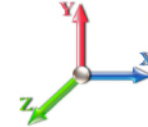
Seismic Segment Forces (Factored)

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E						Iterations 28
Gust Response Factor	1.10			Sds	0.13	Ss 0.19
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.04	S1 0.07
Wind Load Factor	0.00	Structure Frequency (f1)	0.26	SA	0.01	Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
2.00		517.51	0.00	0.01	0.01	4.23	
4.00		513.69	0.00	0.02	0.01	6.65	
6.00		509.88	0.00	0.03	0.02	8.26	
8.00		506.07	0.00	0.04	0.02	9.42	
10.00		502.25	0.00	0.04	0.03	10.26	
12.00		498.44	0.01	0.05	0.03	10.88	
14.00		494.62	0.01	0.05	0.03	11.34	
16.00		490.81	0.01	0.06	0.03	11.68	
18.00		487.00	0.02	0.06	0.04	11.92	
20.00		483.18	0.02	0.06	0.04	12.09	
22.00		479.37	0.02	0.07	0.04	12.21	
24.00		475.56	0.03	0.07	0.04	12.28	
26.00		471.74	0.03	0.07	0.04	12.32	
28.00		467.93	0.04	0.07	0.04	12.34	
30.00		464.11	0.04	0.07	0.04	12.35	
32.00		460.30	0.05	0.07	0.04	12.34	
34.00		456.49	0.06	0.07	0.04	12.33	
36.00		452.67	0.06	0.07	0.04	12.32	
38.00		448.86	0.07	0.07	0.04	12.31	
40.00		445.05	0.08	0.07	0.04	12.30	
41.00	Bot - Section 2	221.09	0.08	0.07	0.04	6.13	
42.00		443.32	0.09	0.07	0.04	12.35	
44.00		880.91	0.10	0.07	0.04	24.75	
46.00		873.28	0.11	0.07	0.04	24.75	
48.00	Top - Section 1	865.66	0.11	0.07	0.04	24.76	
50.00		432.05	0.12	0.07	0.03	12.48	
52.00		428.24	0.13	0.07	0.03	12.48	
54.00		424.42	0.14	0.07	0.03	12.49	
56.00		420.61	0.16	0.07	0.03	12.49	
58.00		416.80	0.17	0.07	0.03	12.48	
60.00		412.98	0.18	0.07	0.03	12.46	
62.00		409.17	0.19	0.06	0.02	12.41	
64.00		405.36	0.20	0.06	0.02	12.35	
66.00		401.54	0.22	0.06	0.02	12.25	
68.00		397.73	0.23	0.06	0.02	12.12	
70.00		393.91	0.24	0.06	0.02	11.94	
72.00		390.10	0.26	0.05	0.02	11.70	
74.00		386.29	0.27	0.05	0.01	11.39	
76.00		382.47	0.29	0.05	0.01	11.01	
78.00		378.66	0.30	0.04	0.01	10.53	
80.00		374.85	0.32	0.04	0.01	9.95	
81.00	Top - Section 2	185.99	0.33	0.04	0.01	4.80	
82.00		154.41	0.33	0.04	0.01	3.85	
84.00		306.44	0.35	0.03	0.01	7.02	
85.00	Bot - Section 4	152.03	0.36	0.03	0.01	3.31	

Seismic Segment Forces (Factored)

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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86.00		304.57	0.37	0.03	0.01	6.24
88.00		604.38	0.38	0.02	0.01	10.63
90.00		598.02	0.40	0.02	0.01	8.51
91.00	Top - Section 3	296.63	0.41	0.01	0.01	3.67
92.00		148.57	0.42	0.01	0.01	1.55
94.00		294.76	0.44	0.01	0.01	1.84
96.00		291.59	0.46	0.00	0.01	0.52
98.00		288.41	0.48	-0.01	0.01	-0.83
100.00		285.23	0.50	-0.02	0.01	-2.15
102.00		282.05	0.52	-0.02	0.01	-3.41
104.00		278.87	0.54	-0.03	0.01	-4.57
106.00		275.70	0.56	-0.04	0.01	-5.61
108.00		272.52	0.58	-0.05	0.01	-6.50
110.00		269.34	0.60	-0.05	0.01	-7.25
112.00		266.16	0.62	-0.06	0.02	-7.86
114.00		262.98	0.65	-0.07	0.02	-8.32
116.00		259.81	0.67	-0.08	0.02	-8.65
118.00		256.63	0.69	-0.08	0.03	-8.86
120.00		253.45	0.72	-0.09	0.03	-8.97
122.00		250.27	0.74	-0.10	0.04	-8.96
124.00		247.09	0.76	-0.10	0.04	-8.87
126.00		243.91	0.79	-0.11	0.05	-8.69
128.00		240.74	0.81	-0.11	0.06	-8.44
130.00	Bot - Section 5	237.56	0.84	-0.12	0.07	-8.11
132.00		424.92	0.87	-0.12	0.07	-14.00
134.00		419.20	0.89	-0.12	0.08	-13.18
135.00	Top - Section 4	207.46	0.91	-0.12	0.09	-6.35
136.00		92.41	0.92	-0.12	0.09	-2.74
138.00		182.91	0.95	-0.12	0.11	-5.04
140.00		180.37	0.97	-0.12	0.12	-4.55
142.00		177.83	1.00	-0.11	0.13	-4.01
144.00		175.29	1.03	-0.10	0.15	-3.44
146.00		172.74	1.06	-0.09	0.16	-2.84
148.00		170.20	1.09	-0.08	0.18	-2.21
150.00		167.66	1.12	-0.06	0.20	-1.54
152.00		165.12	1.15	-0.04	0.22	-0.85
154.00		162.57	1.18	-0.01	0.24	-0.13
155.00	Appurtenance(s)	3371.4	1.19	0.00	0.25	4.93
156.00		79.70	1.21	0.01	0.26	0.30
158.00		157.49	1.24	0.05	0.29	1.37
160.00		154.95	1.27	0.08	0.31	2.16
162.00		152.40	1.30	0.13	0.34	2.96
164.00		149.86	1.34	0.17	0.37	3.78
165.00	Appurtenance(s)	2480.9	1.35	0.20	0.39	70.08
166.00		73.34	1.37	0.23	0.40	2.30
168.00		144.78	1.40	0.29	0.43	5.46
170.00		142.23	1.44	0.36	0.47	6.32
172.00		139.69	1.47	0.43	0.51	7.19
174.00		137.15	1.50	0.51	0.55	8.07
175.00	Appurtenance(s)	3302.8	1.52	0.56	0.57	206.79
176.00		66.99	1.54	0.60	0.59	4.45
178.00		132.06	1.57	0.70	0.64	9.83
180.00	Top - Section 5	129.52	1.61	0.81	0.68	10.72
182.00		143.97	1.65	0.93	0.73	13.16
184.00		143.97	1.68	1.06	0.79	14.44
186.00		143.97	1.72	1.20	0.84	15.78
188.00		143.97	1.76	1.35	0.90	17.17

Seismic Segment Forces (Factored)

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021	
Site Name: Morris	Exposure: C		
Height: 195.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 43



190.00	143.97	1.79	1.51	0.97	18.60
192.00	143.97	1.83	1.69	1.03	20.08
193.00 Appurtenance(s)	421.98	1.85	1.78	1.07	61.09
194.00	71.98	1.87	1.88	1.10	10.81
195.00 Appurtenance(s)	3448.7	1.89	1.98	1.14	536.60
Totals:	45,493.8				1,432.5
					Total Wind: 38,570.2

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

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

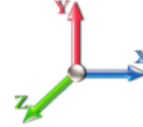


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Load Case: 1.2D + 1.0E

Iterations 28

Gust Response Factor 1.10	Sds 0.13	Ss 0.19
Dead Load Factor 1.20	Seismic Load Factor 1.00	Sd1 0.04
Wind Load Factor 0.00	Structure Frequency (f1) 0.26	SA 0.01
	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	-64.01	-1.61	0.00	-239.53	0.00	239.53	4628.91	2314.46	12221.1	6119.66	0.00	0.00	0.00	0.053
2.00	-63.28	-1.61	0.00	-236.31	0.00	236.31	4612.68	2306.34	12088.3	6053.16	0.00	0.00	0.00	0.053
4.00	-62.55	-1.60	0.00	-233.10	0.00	233.10	4596.18	2298.09	11955.5	5986.64	0.00	-0.01	0.00	0.053
6.00	-61.83	-1.60	0.00	-229.89	0.00	229.89	4579.43	2289.71	11822.6	5920.10	0.01	-0.01	0.00	0.052
8.00	-61.11	-1.59	0.00	-226.69	0.00	226.69	4562.40	2281.20	11689.7	5853.55	0.01	-0.01	0.00	0.052
10.00	-60.39	-1.59	0.00	-223.50	0.00	223.50	4545.12	2272.56	11556.8	5787.00	0.02	-0.02	0.00	0.052
12.00	-59.68	-1.58	0.00	-220.32	0.00	220.32	4527.57	2263.79	11423.9	5720.46	0.03	-0.02	0.00	0.052
14.00	-58.97	-1.57	0.00	-217.16	0.00	217.16	4509.77	2254.88	11291.0	5653.92	0.04	-0.02	0.00	0.051
16.00	-58.27	-1.56	0.00	-214.02	0.00	214.02	4491.69	2245.85	11158.2	5587.41	0.05	-0.03	0.00	0.051
18.00	-57.57	-1.56	0.00	-210.89	0.00	210.89	4473.36	2236.68	11025.4	5520.93	0.06	-0.03	0.00	0.051
20.00	-56.88	-1.55	0.00	-207.78	0.00	207.78	4454.76	2227.38	10892.7	5454.49	0.07	-0.04	0.00	0.051
22.00	-56.19	-1.54	0.00	-204.68	0.00	204.68	4435.90	2217.95	10760.1	5388.08	0.09	-0.04	0.00	0.051
24.00	-55.51	-1.53	0.00	-201.61	0.00	201.61	4416.78	2208.39	10627.6	5321.73	0.11	-0.04	0.00	0.050
26.00	-54.83	-1.52	0.00	-198.55	0.00	198.55	4397.40	2198.70	10495.2	5255.44	0.13	-0.05	0.00	0.050
28.00	-54.15	-1.51	0.00	-195.51	0.00	195.51	4377.75	2188.87	10363.0	5189.22	0.15	-0.05	0.00	0.050
30.00	-53.48	-1.50	0.00	-192.49	0.00	192.49	4357.84	2178.92	10230.9	5123.07	0.17	-0.05	0.00	0.050
32.00	-52.82	-1.49	0.00	-189.49	0.00	189.49	4337.67	2168.83	10099.0	5057.01	0.19	-0.06	0.00	0.050
34.00	-52.16	-1.48	0.00	-186.51	0.00	186.51	4317.23	2158.62	9967.25	4991.03	0.22	-0.06	0.00	0.049
36.00	-51.50	-1.47	0.00	-183.54	0.00	183.54	4296.53	2148.27	9835.69	4925.16	0.24	-0.07	0.00	0.049
38.00	-50.85	-1.46	0.00	-180.60	0.00	180.60	4275.57	2137.79	9704.34	4859.38	0.27	-0.07	0.00	0.049
40.00	-50.20	-1.45	0.00	-177.67	0.00	177.67	4254.35	2127.17	9573.22	4793.73	0.30	-0.07	0.00	0.049
41.00	-49.88	-1.45	0.00	-176.22	0.00	176.22	4243.64	2121.82	9507.75	4760.94	0.32	-0.08	0.00	0.049
42.00	-49.29	-1.44	0.00	-174.77	0.00	174.77	4232.86	2116.43	9442.34	4728.19	0.33	-0.08	0.00	0.049
44.00	-48.12	-1.41	0.00	-171.90	0.00	171.90	4211.11	2105.56	9311.72	4662.78	0.37	-0.08	0.00	0.048
46.00	-46.96	-1.39	0.00	-169.07	0.00	169.07	4189.10	2094.55	9181.37	4597.51	0.40	-0.09	0.00	0.048
48.00	-45.81	-1.37	0.00	-166.29	0.00	166.29	4202.19	2101.09	9258.62	4636.19	0.44	-0.09	0.00	0.047
50.00	-45.18	-1.36	0.00	-163.55	0.00	163.55	4180.07	2090.03	9128.39	4570.98	0.48	-0.10	0.00	0.047
52.00	-44.55	-1.35	0.00	-160.83	0.00	160.83	4157.69	2078.84	8998.45	4505.91	0.52	-0.10	0.00	0.046
54.00	-43.93	-1.34	0.00	-158.14	0.00	158.14	4135.04	2067.52	8868.82	4441.00	0.56	-0.10	0.00	0.046
56.00	-43.31	-1.33	0.00	-155.46	0.00	155.46	4112.14	2056.07	8739.51	4376.25	0.61	-0.11	0.00	0.046
58.00	-42.70	-1.32	0.00	-152.81	0.00	152.81	4088.97	2044.48	8610.54	4311.67	0.65	-0.11	0.00	0.046
60.00	-42.09	-1.31	0.00	-150.18	0.00	150.18	4065.54	2032.77	8481.93	4247.27	0.70	-0.12	0.00	0.046
62.00	-41.48	-1.30	0.00	-147.57	0.00	147.57	4041.84	2020.92	8353.69	4183.06	0.75	-0.12	0.00	0.046
64.00	-40.88	-1.28	0.00	-144.98	0.00	144.98	4017.89	2008.94	8225.84	4119.03	0.80	-0.12	0.00	0.045
66.00	-40.29	-1.27	0.00	-142.41	0.00	142.41	3993.67	1996.83	8098.39	4055.21	0.85	-0.13	0.00	0.045
68.00	-39.70	-1.26	0.00	-139.86	0.00	139.86	3969.18	1984.59	7971.36	3991.60	0.91	-0.13	0.00	0.045
70.00	-39.11	-1.25	0.00	-137.33	0.00	137.33	3944.44	1972.22	7844.75	3928.21	0.97	-0.14	0.00	0.045
72.00	-38.53	-1.24	0.00	-134.82	0.00	134.82	3919.43	1959.72	7718.60	3865.04	1.03	-0.14	0.00	0.045
74.00	-37.96	-1.23	0.00	-132.34	0.00	132.34	3894.16	1947.08	7592.91	3802.10	1.09	-0.15	0.00	0.045
76.00	-37.38	-1.22	0.00	-129.87	0.00	129.87	3868.63	1934.31	7467.70	3739.40	1.15	-0.15	0.00	0.044
78.00	-36.82	-1.22	0.00	-127.42	0.00	127.42	3842.83	1921.42	7342.98	3676.95	1.21	-0.16	0.00	0.044
80.00	-36.25	-1.21	0.00	-124.99	0.00	124.99	3816.78	1908.39	7218.77	3614.75	1.28	-0.16	0.00	0.044
81.00	-35.97	-1.20	0.00	-123.78	0.00	123.78	3803.65	1901.82	7156.86	3583.75	1.31	-0.16	0.00	0.044
81.00	-35.97	-1.20	0.00	-123.78	0.00	123.78	2964.89	1482.44	5593.90	2801.11	1.31	-0.16	0.00	0.056
82.00	-35.73	-1.20	0.00	-122.58	0.00	122.58	2956.04	1478.02	5548.38	2778.31	1.35	-0.17	0.00	0.056
84.00	-35.25	-1.19	0.00	-120.18	0.00	120.18	2938.13	1469.07	5457.49	2732.80	1.42	-0.17	0.00	0.056
85.00	-35.01	-1.19	0.00	-118.98	0.00	118.98	2929.08	1464.54	5412.12	2710.08	1.46	-0.17	0.00	0.056

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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86.00	-34.59	-1.19	0.00	-117.79	0.00	117.79	2919.97	1459.98	5366.81	2687.40	1.49	-0.18	0.056
88.00	-33.75	-1.18	0.00	-115.42	0.00	115.42	2901.54	1450.77	5276.37	2642.11	1.57	-0.18	0.055
90.00	-32.92	-1.17	0.00	-113.06	0.00	113.06	2882.85	1441.42	5186.17	2596.94	1.65	-0.19	0.055
91.00	-32.51	-1.17	0.00	-111.89	0.00	111.89	2898.33	1449.17	5260.79	2634.30	1.69	-0.19	0.054
92.00	-32.27	-1.17	0.00	-110.73	0.00	110.73	2889.00	1444.50	5215.68	2611.72	1.73	-0.20	0.054
94.00	-31.81	-1.17	0.00	-108.40	0.00	108.40	2870.13	1435.06	5125.65	2566.64	1.81	-0.20	0.053
96.00	-31.34	-1.17	0.00	-106.06	0.00	106.06	2851.00	1425.50	5035.90	2521.69	1.90	-0.21	0.053
98.00	-30.88	-1.17	0.00	-103.73	0.00	103.73	2831.61	1415.80	4946.44	2476.90	1.98	-0.21	0.053
100.00	-30.43	-1.17	0.00	-101.39	0.00	101.39	2811.95	1405.98	4857.28	2432.25	2.08	-0.22	0.053
102.00	-29.98	-1.17	0.00	-99.05	0.00	99.05	2792.03	1396.02	4768.43	2387.76	2.17	-0.23	0.052
104.00	-29.53	-1.17	0.00	-96.71	0.00	96.71	2771.85	1385.93	4679.92	2343.44	2.26	-0.23	0.052
106.00	-29.09	-1.17	0.00	-94.36	0.00	94.36	2751.41	1375.70	4591.76	2299.29	2.36	-0.24	0.052
108.00	-28.64	-1.18	0.00	-92.02	0.00	92.02	2730.70	1365.35	4503.96	2255.33	2.46	-0.24	0.051
110.00	-28.21	-1.18	0.00	-89.66	0.00	89.66	2709.73	1354.87	4416.54	2211.55	2.57	-0.25	0.051
112.00	-27.78	-1.18	0.00	-87.31	0.00	87.31	2688.50	1344.25	4329.52	2167.98	2.67	-0.26	0.051
114.00	-27.35	-1.18	0.00	-84.95	0.00	84.95	2667.01	1333.50	4242.91	2124.61	2.78	-0.26	0.050
116.00	-26.92	-1.18	0.00	-82.60	0.00	82.60	2645.25	1322.63	4156.72	2081.45	2.90	-0.27	0.050
118.00	-26.50	-1.18	0.00	-80.23	0.00	80.23	2623.23	1311.62	4070.97	2038.51	3.01	-0.28	0.049
120.00	-26.08	-1.18	0.00	-77.87	0.00	77.87	2602.95	1300.48	3985.68	1995.80	3.13	-0.28	0.049
122.00	-25.67	-1.18	0.00	-75.51	0.00	75.51	2578.41	1289.20	3900.86	1953.33	3.25	-0.29	0.049
124.00	-25.26	-1.18	0.00	-73.14	0.00	73.14	2555.60	1277.80	3816.53	1911.10	3.37	-0.30	0.048
126.00	-24.86	-1.19	0.00	-70.77	0.00	70.77	2532.53	1266.26	3732.70	1869.12	3.50	-0.30	0.048
128.00	-24.45	-1.19	0.00	-68.40	0.00	68.40	2509.20	1254.60	3649.39	1827.41	3.63	-0.31	0.047
130.00	-24.05	-1.19	0.00	-66.03	0.00	66.03	2485.60	1242.80	3566.61	1785.96	3.76	-0.32	0.047
132.00	-23.43	-1.19	0.00	-63.65	0.00	63.65	2461.74	1230.87	3484.38	1744.78	3.89	-0.32	0.046
134.00	-22.82	-1.19	0.00	-61.28	0.00	61.28	2437.62	1218.81	3402.71	1703.88	4.03	-0.33	0.045
135.00	-22.51	-1.18	0.00	-60.09	0.00	60.09	1823.78	911.89	2575.19	1289.51	4.10	-0.33	0.059
136.00	-22.34	-1.19	0.00	-58.91	0.00	58.91	1816.04	908.02	2546.55	1275.17	4.17	-0.34	0.059
138.00	-22.01	-1.19	0.00	-56.54	0.00	56.54	1800.35	900.17	2489.45	1246.57	4.31	-0.35	0.058
140.00	-21.68	-1.19	0.00	-54.16	0.00	54.16	1784.40	892.20	2432.60	1218.11	4.46	-0.35	0.057
142.00	-21.35	-1.19	0.00	-51.79	0.00	51.79	1768.19	884.09	2376.03	1189.78	4.61	-0.36	0.056
144.00	-21.03	-1.19	0.00	-49.41	0.00	49.41	1751.71	875.86	2319.73	1161.59	4.76	-0.37	0.055
146.00	-20.71	-1.19	0.00	-47.03	0.00	47.03	1734.98	867.49	2263.74	1133.55	4.92	-0.38	0.053
148.00	-20.39	-1.19	0.00	-44.65	0.00	44.65	1717.98	858.99	2208.06	1105.67	5.08	-0.39	0.052
150.00	-20.08	-1.19	0.00	-42.26	0.00	42.26	1700.71	850.36	2152.72	1077.96	5.25	-0.40	0.051
152.00	-19.77	-1.19	0.00	-39.88	0.00	39.88	1683.19	841.59	2097.72	1050.42	5.41	-0.40	0.050
154.00	-19.46	-1.19	0.00	-37.49	0.00	37.49	1665.40	832.70	2043.08	1023.06	5.59	-0.41	0.048
155.00	-15.36	-1.16	0.00	-36.30	0.00	36.30	1656.41	828.20	2015.90	1009.45	5.67	-0.42	0.045
156.00	-15.22	-1.16	0.00	-35.14	0.00	35.14	1647.35	823.68	1988.82	995.89	5.76	-0.42	0.045
158.00	-14.96	-1.16	0.00	-32.82	0.00	32.82	1629.04	814.52	1934.94	968.91	5.94	-0.43	0.043
160.00	-14.70	-1.16	0.00	-30.50	0.00	30.50	1610.46	805.23	1881.48	942.14	6.12	-0.43	0.041
162.00	-14.44	-1.15	0.00	-28.19	0.00	28.19	1591.62	795.81	1828.44	915.58	6.30	-0.44	0.040
164.00	-14.18	-1.15	0.00	-25.88	0.00	25.88	1572.52	786.26	1775.84	889.24	6.49	-0.45	0.038
165.00	-11.17	-1.06	0.00	-24.73	0.00	24.73	1562.88	781.44	1749.71	876.15	6.58	-0.45	0.035
166.00	-11.06	-1.05	0.00	-23.67	0.00	23.67	1553.16	776.58	1723.69	863.13	6.68	-0.46	0.035
168.00	-10.85	-1.05	0.00	-21.57	0.00	21.57	1533.53	766.77	1672.01	837.25	6.87	-0.46	0.033
170.00	-10.64	-1.04	0.00	-19.47	0.00	19.47	1513.65	756.82	1620.81	811.61	7.06	-0.47	0.031
172.00	-10.43	-1.03	0.00	-17.39	0.00	17.39	1493.49	746.75	1570.12	786.22	7.26	-0.47	0.029
174.00	-10.23	-1.02	0.00	-15.32	0.00	15.32	1473.08	736.54	1519.93	761.10	7.46	-0.48	0.027
175.00	-6.25	-0.78	0.00	-14.30	0.00	14.30	1462.77	731.39	1495.04	748.63	7.56	-0.48	0.023
176.00	-6.16	-0.78	0.00	-13.51	0.00	13.51	1452.40	726.20	1470.28	736.23	7.66	-0.48	0.023
178.00	-5.99	-0.77	0.00	-11.95	0.00	11.95	1427.84	713.92	1417.58	709.84	7.87	-0.49	0.021
180.00	-5.83	-0.76	0.00	-10.41	0.00	10.41	1400.09	700.04	1362.73	682.38	8.07	-0.49	0.019
180.00	-5.83	-0.76	0.00	-10.41	0.00	10.41	1571.64	785.82	1525.71	763.99	8.07	-0.49	0.017
182.00	-5.65	-0.74	0.00	-8.90	0.00	8.90	1571.64	785.82	1525.71	763.99	8.28	-0.50	0.015
184.00	-5.47	-0.73	0.00	-7.41	0.00	7.41	1571.64	785.82	1525.71	763.99	8.49	-0.50	0.013
186.00	-5.28	-0.71	0.00	-5.96	0.00	5.96	1571.64	785.82	1525.71	763.99	8.70	-0.50	0.011

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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188.00	-5.10	-0.69	0.00	-4.54	0.00	4.54	1571.64	785.82	1525.71	763.99	8.91	-0.51	0.009
190.00	-4.92	-0.67	0.00	-3.15	0.00	3.15	1571.64	785.82	1525.71	763.99	9.12	-0.51	0.007
192.00	-4.74	-0.65	0.00	-1.81	0.00	1.81	1571.64	785.82	1525.71	763.99	9.34	-0.51	0.005
193.00	-4.23	-0.58	0.00	-1.16	0.00	1.16	1571.64	785.82	1525.71	763.99	9.44	-0.51	0.004
194.00	-4.14	-0.57	0.00	-0.57	0.00	0.57	1571.64	785.82	1525.71	763.99	9.55	-0.51	0.003
195.00	0.00	-0.54	0.00	0.00	0.00	0.00	1571.64	785.82	1525.71	763.99	9.66	-0.51	0.000

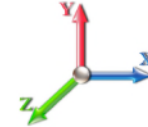
Seismic Segment Forces (Factored)

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0E				Iterations 28
Gust Response Factor	1.10	Sds	0.13	Ss 0.19
Dead Load Factor	0.90	Seismic Load Factor	1.00	S1 0.07
Wind Load Factor	0.00	Structure Frequency (f1)	0.26	SA 0.01
				Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
2.00		517.51	0.00	0.01	0.01	4.23	
4.00		513.69	0.00	0.02	0.01	6.65	
6.00		509.88	0.00	0.03	0.02	8.26	
8.00		506.07	0.00	0.04	0.02	9.42	
10.00		502.25	0.00	0.04	0.03	10.26	
12.00		498.44	0.01	0.05	0.03	10.88	
14.00		494.62	0.01	0.05	0.03	11.34	
16.00		490.81	0.01	0.06	0.03	11.68	
18.00		487.00	0.02	0.06	0.04	11.92	
20.00		483.18	0.02	0.06	0.04	12.09	
22.00		479.37	0.02	0.07	0.04	12.21	
24.00		475.56	0.03	0.07	0.04	12.28	
26.00		471.74	0.03	0.07	0.04	12.32	
28.00		467.93	0.04	0.07	0.04	12.34	
30.00		464.11	0.04	0.07	0.04	12.35	
32.00		460.30	0.05	0.07	0.04	12.34	
34.00		456.49	0.06	0.07	0.04	12.33	
36.00		452.67	0.06	0.07	0.04	12.32	
38.00		448.86	0.07	0.07	0.04	12.31	
40.00		445.05	0.08	0.07	0.04	12.30	
41.00	Bot - Section 2	221.09	0.08	0.07	0.04	6.13	
42.00		443.32	0.09	0.07	0.04	12.35	
44.00		880.91	0.10	0.07	0.04	24.75	
46.00		873.28	0.11	0.07	0.04	24.75	
48.00	Top - Section 1	865.66	0.11	0.07	0.04	24.76	
50.00		432.05	0.12	0.07	0.03	12.48	
52.00		428.24	0.13	0.07	0.03	12.48	
54.00		424.42	0.14	0.07	0.03	12.49	
56.00		420.61	0.16	0.07	0.03	12.49	
58.00		416.80	0.17	0.07	0.03	12.48	
60.00		412.98	0.18	0.07	0.03	12.46	
62.00		409.17	0.19	0.06	0.02	12.41	
64.00		405.36	0.20	0.06	0.02	12.35	
66.00		401.54	0.22	0.06	0.02	12.25	
68.00		397.73	0.23	0.06	0.02	12.12	
70.00		393.91	0.24	0.06	0.02	11.94	
72.00		390.10	0.26	0.05	0.02	11.70	
74.00		386.29	0.27	0.05	0.01	11.39	
76.00		382.47	0.29	0.05	0.01	11.01	
78.00		378.66	0.30	0.04	0.01	10.53	
80.00		374.85	0.32	0.04	0.01	9.95	
81.00	Top - Section 2	185.99	0.33	0.04	0.01	4.80	
82.00		154.41	0.33	0.04	0.01	3.85	
84.00		306.44	0.35	0.03	0.01	7.02	
85.00	Bot - Section 4	152.03	0.36	0.03	0.01	3.31	

Seismic Segment Forces (Factored)

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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86.00		304.57	0.37	0.03	0.01	6.24
88.00		604.38	0.38	0.02	0.01	10.63
90.00		598.02	0.40	0.02	0.01	8.51
91.00	Top - Section 3	296.63	0.41	0.01	0.01	3.67
92.00		148.57	0.42	0.01	0.01	1.55
94.00		294.76	0.44	0.01	0.01	1.84
96.00		291.59	0.46	0.00	0.01	0.52
98.00		288.41	0.48	-0.01	0.01	-0.83
100.00		285.23	0.50	-0.02	0.01	-2.15
102.00		282.05	0.52	-0.02	0.01	-3.41
104.00		278.87	0.54	-0.03	0.01	-4.57
106.00		275.70	0.56	-0.04	0.01	-5.61
108.00		272.52	0.58	-0.05	0.01	-6.50
110.00		269.34	0.60	-0.05	0.01	-7.25
112.00		266.16	0.62	-0.06	0.02	-7.86
114.00		262.98	0.65	-0.07	0.02	-8.32
116.00		259.81	0.67	-0.08	0.02	-8.65
118.00		256.63	0.69	-0.08	0.03	-8.86
120.00		253.45	0.72	-0.09	0.03	-8.97
122.00		250.27	0.74	-0.10	0.04	-8.96
124.00		247.09	0.76	-0.10	0.04	-8.87
126.00		243.91	0.79	-0.11	0.05	-8.69
128.00		240.74	0.81	-0.11	0.06	-8.44
130.00	Bot - Section 5	237.56	0.84	-0.12	0.07	-8.11
132.00		424.92	0.87	-0.12	0.07	-14.00
134.00		419.20	0.89	-0.12	0.08	-13.18
135.00	Top - Section 4	207.46	0.91	-0.12	0.09	-6.35
136.00		92.41	0.92	-0.12	0.09	-2.74
138.00		182.91	0.95	-0.12	0.11	-5.04
140.00		180.37	0.97	-0.12	0.12	-4.55
142.00		177.83	1.00	-0.11	0.13	-4.01
144.00		175.29	1.03	-0.10	0.15	-3.44
146.00		172.74	1.06	-0.09	0.16	-2.84
148.00		170.20	1.09	-0.08	0.18	-2.21
150.00		167.66	1.12	-0.06	0.20	-1.54
152.00		165.12	1.15	-0.04	0.22	-0.85
154.00		162.57	1.18	-0.01	0.24	-0.13
155.00	Appurtenance(s)	3371.4	1.19	0.00	0.25	4.93
156.00		79.70	1.21	0.01	0.26	0.30
158.00		157.49	1.24	0.05	0.29	1.37
160.00		154.95	1.27	0.08	0.31	2.16
162.00		152.40	1.30	0.13	0.34	2.96
164.00		149.86	1.34	0.17	0.37	3.78
165.00	Appurtenance(s)	2480.9	1.35	0.20	0.39	70.08
166.00		73.34	1.37	0.23	0.40	2.30
168.00		144.78	1.40	0.29	0.43	5.46
170.00		142.23	1.44	0.36	0.47	6.32
172.00		139.69	1.47	0.43	0.51	7.19
174.00		137.15	1.50	0.51	0.55	8.07
175.00	Appurtenance(s)	3302.8	1.52	0.56	0.57	206.79
176.00		66.99	1.54	0.60	0.59	4.45
178.00		132.06	1.57	0.70	0.64	9.83
180.00	Top - Section 5	129.52	1.61	0.81	0.68	10.72
182.00		143.97	1.65	0.93	0.73	13.16
184.00		143.97	1.68	1.06	0.79	14.44
186.00		143.97	1.72	1.20	0.84	15.78
188.00		143.97	1.76	1.35	0.90	17.17

Seismic Segment Forces (Factored)

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021	
Site Name: Morris	Exposure: C		
Height: 195.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 49



190.00		143.97	1.79	1.51	0.97	18.60
192.00		143.97	1.83	1.69	1.03	20.08
193.00	Appurtenance(s)	421.98	1.85	1.78	1.07	61.09
194.00		71.98	1.87	1.88	1.10	10.81
195.00	Appurtenance(s)	3448.7	1.89	1.98	1.14	536.60
Totals:		45,493.8				1,432.5
						Total Wind: 38,570.2

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

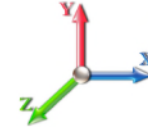
Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0E						Iterations 28
Gust Response Factor	1.10		Sds	0.13		Ss 0.19
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.04	S1 0.07
Wind Load Factor	0.00	Structure Frequency (f1)	0.26	SA	0.01	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	-48.01	-1.61	0.00	-234.98	0.00	234.98	4628.91	2314.46	12221.1	6119.66	0.00	0.00	0.00	0.049
2.00	-47.46	-1.61	0.00	-231.77	0.00	231.77	4612.68	2306.34	12088.3	6053.16	0.00	0.00	0.00	0.049
4.00	-46.91	-1.60	0.00	-228.55	0.00	228.55	4596.18	2298.09	11955.5	5986.64	0.00	-0.01	0.00	0.048
6.00	-46.37	-1.60	0.00	-225.35	0.00	225.35	4579.43	2289.71	11822.6	5920.10	0.01	-0.01	0.00	0.048
8.00	-45.83	-1.59	0.00	-222.15	0.00	222.15	4562.40	2281.20	11689.7	5853.55	0.01	-0.01	0.00	0.048
10.00	-45.29	-1.58	0.00	-218.97	0.00	218.97	4545.12	2272.56	11556.8	5787.00	0.02	-0.02	0.00	0.048
12.00	-44.76	-1.57	0.00	-215.81	0.00	215.81	4527.57	2263.79	11423.9	5720.46	0.03	-0.02	0.00	0.048
14.00	-44.23	-1.57	0.00	-212.66	0.00	212.66	4509.77	2254.88	11291.0	5653.92	0.04	-0.02	0.00	0.047
16.00	-43.70	-1.56	0.00	-209.53	0.00	209.53	4491.69	2245.85	11158.2	5587.41	0.05	-0.03	0.00	0.047
18.00	-43.18	-1.55	0.00	-206.41	0.00	206.41	4473.36	2236.68	11025.4	5520.93	0.06	-0.03	0.00	0.047
20.00	-42.66	-1.54	0.00	-203.32	0.00	203.32	4454.76	2227.38	10892.7	5454.49	0.07	-0.03	0.00	0.047
22.00	-42.14	-1.53	0.00	-200.24	0.00	200.24	4435.90	2217.95	10760.1	5388.08	0.09	-0.04	0.00	0.047
24.00	-41.63	-1.52	0.00	-197.19	0.00	197.19	4416.78	2208.39	10627.6	5321.73	0.10	-0.04	0.00	0.046
26.00	-41.12	-1.51	0.00	-194.15	0.00	194.15	4397.40	2198.70	10495.2	5255.44	0.12	-0.05	0.00	0.046
28.00	-40.61	-1.50	0.00	-191.14	0.00	191.14	4377.75	2188.87	10363.0	5189.22	0.14	-0.05	0.00	0.046
30.00	-40.11	-1.49	0.00	-188.15	0.00	188.15	4357.84	2178.92	10230.9	5123.07	0.16	-0.05	0.00	0.046
32.00	-39.61	-1.48	0.00	-185.17	0.00	185.17	4337.67	2168.83	10099.0	5057.01	0.19	-0.06	0.00	0.046
34.00	-39.12	-1.47	0.00	-182.22	0.00	182.22	4317.23	2158.62	9967.25	4991.03	0.21	-0.06	0.00	0.046
36.00	-38.62	-1.46	0.00	-179.28	0.00	179.28	4296.53	2148.27	9835.69	4925.16	0.24	-0.06	0.00	0.045
38.00	-38.14	-1.45	0.00	-176.37	0.00	176.37	4275.57	2137.79	9704.34	4859.38	0.27	-0.07	0.00	0.045
40.00	-37.65	-1.44	0.00	-173.48	0.00	173.48	4254.35	2127.17	9573.22	4793.73	0.30	-0.07	0.00	0.045
41.00	-37.41	-1.43	0.00	-172.04	0.00	172.04	4243.64	2121.82	9507.75	4760.94	0.31	-0.07	0.00	0.045
42.00	-36.97	-1.42	0.00	-170.61	0.00	170.61	4232.86	2116.43	9442.34	4728.19	0.33	-0.08	0.00	0.045
44.00	-36.09	-1.40	0.00	-167.77	0.00	167.77	4211.11	2105.56	9311.72	4662.78	0.36	-0.08	0.00	0.045
46.00	-35.22	-1.37	0.00	-164.98	0.00	164.98	4189.10	2094.55	9181.37	4597.51	0.40	-0.08	0.00	0.044
48.00	-34.36	-1.35	0.00	-162.24	0.00	162.24	4202.19	2101.09	9258.62	4636.19	0.43	-0.09	0.00	0.043
50.00	-33.88	-1.34	0.00	-159.54	0.00	159.54	4180.07	2090.03	9128.39	4570.98	0.47	-0.09	0.00	0.043
52.00	-33.41	-1.33	0.00	-156.86	0.00	156.86	4157.69	2078.84	8998.45	4505.91	0.51	-0.10	0.00	0.043
54.00	-32.94	-1.32	0.00	-154.21	0.00	154.21	4135.04	2067.52	8868.82	4441.00	0.55	-0.10	0.00	0.043
56.00	-32.48	-1.31	0.00	-151.58	0.00	151.58	4112.14	2056.07	8739.51	4376.25	0.59	-0.11	0.00	0.043
58.00	-32.02	-1.29	0.00	-148.97	0.00	148.97	4088.97	2044.48	8610.54	4311.67	0.64	-0.11	0.00	0.042
60.00	-31.57	-1.28	0.00	-146.38	0.00	146.38	4065.54	2032.77	8481.93	4247.27	0.69	-0.11	0.00	0.042
62.00	-31.11	-1.27	0.00	-143.82	0.00	143.82	4041.84	2020.92	8353.69	4183.06	0.73	-0.12	0.00	0.042
64.00	-30.66	-1.26	0.00	-141.27	0.00	141.27	4017.89	2008.94	8225.84	4119.03	0.78	-0.12	0.00	0.042
66.00	-30.22	-1.25	0.00	-138.75	0.00	138.75	3993.67	1996.83	8098.39	4055.21	0.84	-0.13	0.00	0.042
68.00	-29.77	-1.24	0.00	-136.25	0.00	136.25	3969.18	1984.59	7971.36	3991.60	0.89	-0.13	0.00	0.042
70.00	-29.33	-1.23	0.00	-133.77	0.00	133.77	3944.44	1972.22	7844.75	3928.21	0.95	-0.13	0.00	0.041
72.00	-28.90	-1.22	0.00	-131.31	0.00	131.31	3919.43	1959.72	7718.60	3865.04	1.00	-0.14	0.00	0.041
74.00	-28.47	-1.21	0.00	-128.88	0.00	128.88	3894.16	1947.08	7592.91	3802.10	1.06	-0.14	0.00	0.041
76.00	-28.04	-1.20	0.00	-126.46	0.00	126.46	3868.63	1934.31	7467.70	3739.40	1.12	-0.15	0.00	0.041
78.00	-27.61	-1.19	0.00	-124.07	0.00	124.07	3842.83	1921.42	7342.98	3676.95	1.19	-0.15	0.00	0.041
80.00	-27.19	-1.18	0.00	-121.69	0.00	121.69	3816.78	1908.39	7218.77	3614.75	1.25	-0.16	0.00	0.041
81.00	-26.98	-1.17	0.00	-120.51	0.00	120.51	3803.65	1901.82	7156.86	3583.75	1.28	-0.16	0.00	0.041
81.00	-26.98	-1.17	0.00	-120.51	0.00	120.51	2964.89	1482.44	5593.90	2801.11	1.28	-0.16	0.00	0.052
82.00	-26.80	-1.17	0.00	-119.34	0.00	119.34	2956.04	1478.02	5548.38	2778.31	1.32	-0.16	0.00	0.052
84.00	-26.44	-1.17	0.00	-116.99	0.00	116.99	2938.13	1469.07	5457.49	2732.80	1.39	-0.17	0.00	0.052
85.00	-26.26	-1.16	0.00	-115.83	0.00	115.83	2929.08	1464.54	5412.12	2710.08	1.42	-0.17	0.00	0.052

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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86.00	-25.94	-1.16	0.00	-114.66	0.00	114.66	2919.97	1459.98	5366.81	2687.40	1.46	-0.17	0.052
88.00	-25.31	-1.15	0.00	-112.35	0.00	112.35	2901.54	1450.77	5276.37	2642.11	1.53	-0.18	0.051
90.00	-24.69	-1.14	0.00	-110.05	0.00	110.05	2882.85	1441.42	5186.17	2596.94	1.61	-0.19	0.051
91.00	-24.38	-1.14	0.00	-108.91	0.00	108.91	2898.33	1449.17	5260.79	2634.30	1.65	-0.19	0.050
92.00	-24.20	-1.14	0.00	-107.77	0.00	107.77	2889.00	1444.50	5215.68	2611.72	1.69	-0.19	0.050
94.00	-23.85	-1.14	0.00	-105.50	0.00	105.50	2870.13	1435.06	5125.65	2566.64	1.77	-0.20	0.049
96.00	-23.51	-1.14	0.00	-103.23	0.00	103.23	2851.00	1425.50	5035.90	2521.69	1.85	-0.20	0.049
98.00	-23.16	-1.14	0.00	-100.96	0.00	100.96	2831.61	1415.80	4946.44	2476.90	1.94	-0.21	0.049
100.00	-22.82	-1.14	0.00	-98.68	0.00	98.68	2811.95	1405.98	4857.28	2432.25	2.03	-0.21	0.049
102.00	-22.48	-1.14	0.00	-96.40	0.00	96.40	2792.03	1396.02	4768.43	2387.76	2.12	-0.22	0.048
104.00	-22.15	-1.14	0.00	-94.12	0.00	94.12	2771.85	1385.93	4679.92	2343.44	2.21	-0.23	0.048
106.00	-21.81	-1.14	0.00	-91.84	0.00	91.84	2751.41	1375.70	4591.76	2299.29	2.31	-0.23	0.048
108.00	-21.48	-1.14	0.00	-89.56	0.00	89.56	2730.70	1365.35	4503.96	2255.33	2.41	-0.24	0.048
110.00	-21.16	-1.14	0.00	-87.27	0.00	87.27	2709.73	1354.87	4416.54	2211.55	2.51	-0.24	0.047
112.00	-20.83	-1.14	0.00	-84.99	0.00	84.99	2688.50	1344.25	4329.52	2167.98	2.61	-0.25	0.047
114.00	-20.51	-1.15	0.00	-82.70	0.00	82.70	2667.01	1333.50	4242.91	2124.61	2.72	-0.26	0.047
116.00	-20.19	-1.15	0.00	-80.41	0.00	80.41	2645.25	1322.63	4156.72	2081.45	2.83	-0.26	0.046
118.00	-19.87	-1.15	0.00	-78.11	0.00	78.11	2623.23	1311.62	4070.97	2038.51	2.94	-0.27	0.046
120.00	-19.56	-1.15	0.00	-75.82	0.00	75.82	2600.95	1300.48	3985.68	1995.80	3.05	-0.28	0.046
122.00	-19.25	-1.15	0.00	-73.52	0.00	73.52	2578.41	1289.20	3900.86	1953.33	3.17	-0.28	0.045
124.00	-18.94	-1.15	0.00	-71.23	0.00	71.23	2555.60	1277.80	3816.53	1911.10	3.29	-0.29	0.045
126.00	-18.64	-1.15	0.00	-68.93	0.00	68.93	2532.53	1266.26	3732.70	1869.12	3.41	-0.30	0.044
128.00	-18.34	-1.15	0.00	-66.63	0.00	66.63	2509.20	1254.60	3649.39	1827.41	3.54	-0.30	0.044
130.00	-18.04	-1.15	0.00	-64.33	0.00	64.33	2485.60	1242.80	3566.61	1785.96	3.67	-0.31	0.043
132.00	-17.75	-1.15	0.00	-62.03	0.00	62.03	2461.74	1230.87	3484.38	1744.78	3.80	-0.32	0.043
134.00	-17.45	-1.15	0.00	-59.72	0.00	59.72	2437.62	1218.81	3402.71	1703.88	3.93	-0.32	0.042
135.00	-16.88	-1.15	0.00	-58.58	0.00	58.58	1823.78	911.89	2575.19	1289.51	4.00	-0.33	0.055
136.00	-16.76	-1.15	0.00	-57.43	0.00	57.43	1816.04	908.02	2546.55	1275.17	4.07	-0.33	0.054
138.00	-16.51	-1.15	0.00	-55.13	0.00	55.13	1800.35	900.17	2489.45	1246.57	4.21	-0.34	0.053
140.00	-16.26	-1.15	0.00	-52.82	0.00	52.82	1784.40	892.20	2432.60	1218.11	4.35	-0.35	0.052
142.00	-16.01	-1.15	0.00	-50.52	0.00	50.52	1768.19	884.09	2376.03	1189.78	4.50	-0.35	0.052
144.00	-15.77	-1.15	0.00	-48.21	0.00	48.21	1751.71	875.86	2319.73	1161.59	4.65	-0.36	0.051
146.00	-15.53	-1.15	0.00	-45.91	0.00	45.91	1734.98	867.49	2263.74	1133.55	4.80	-0.37	0.049
148.00	-15.29	-1.15	0.00	-43.60	0.00	43.60	1717.98	858.99	2208.06	1105.67	4.96	-0.38	0.048
150.00	-15.06	-1.16	0.00	-41.29	0.00	41.29	1700.71	850.36	2152.72	1077.96	5.12	-0.39	0.047
152.00	-14.82	-1.16	0.00	-38.98	0.00	38.98	1683.19	841.59	2097.72	1050.42	5.28	-0.39	0.046
154.00	-14.59	-1.16	0.00	-36.67	0.00	36.67	1665.40	832.70	2043.08	1023.06	5.45	-0.40	0.045
155.00	-11.52	-1.13	0.00	-35.51	0.00	35.51	1656.41	828.20	2015.90	1009.45	5.54	-0.41	0.042
156.00	-11.42	-1.13	0.00	-34.38	0.00	34.38	1647.35	823.68	1988.82	995.89	5.62	-0.41	0.041
158.00	-11.22	-1.13	0.00	-32.12	0.00	32.12	1629.04	814.52	1934.94	968.91	5.79	-0.42	0.040
160.00	-11.02	-1.13	0.00	-29.86	0.00	29.86	1610.46	805.23	1881.48	942.14	5.97	-0.42	0.039
162.00	-10.83	-1.12	0.00	-27.61	0.00	27.61	1591.62	795.81	1828.44	915.58	6.15	-0.43	0.037
164.00	-10.64	-1.12	0.00	-25.36	0.00	25.36	1572.52	786.26	1775.84	889.24	6.33	-0.44	0.035
165.00	-8.38	-1.03	0.00	-24.24	0.00	24.24	1562.88	781.44	1749.71	876.15	6.42	-0.44	0.033
166.00	-8.29	-1.03	0.00	-23.21	0.00	23.21	1553.16	776.58	1723.69	863.13	6.52	-0.44	0.032
168.00	-8.14	-1.02	0.00	-21.15	0.00	21.15	1533.53	766.77	1672.01	837.25	6.70	-0.45	0.031
170.00	-7.98	-1.02	0.00	-19.10	0.00	19.10	1513.65	756.82	1620.81	811.61	6.89	-0.46	0.029
172.00	-7.82	-1.01	0.00	-17.07	0.00	17.07	1493.49	746.75	1570.12	786.22	7.09	-0.46	0.027
174.00	-7.67	-1.00	0.00	-15.05	0.00	15.05	1473.08	736.54	1519.93	761.10	7.28	-0.47	0.025
175.00	-4.68	-0.77	0.00	-14.04	0.00	14.04	1462.77	731.39	1495.04	748.63	7.38	-0.47	0.022
176.00	-4.62	-0.77	0.00	-13.27	0.00	13.27	1452.40	726.20	1470.28	736.23	7.48	-0.47	0.021
178.00	-4.49	-0.76	0.00	-11.74	0.00	11.74	1427.84	713.92	1417.58	709.84	7.68	-0.48	0.020
180.00	-4.37	-0.74	0.00	-10.23	0.00	10.23	1400.09	700.04	1362.73	682.38	7.88	-0.48	0.018
180.00	-4.37	-0.74	0.00	-10.23	0.00	10.23	1571.64	785.82	1525.71	763.99	7.88	-0.48	0.016
182.00	-4.23	-0.73	0.00	-8.74	0.00	8.74	1571.64	785.82	1525.71	763.99	8.08	-0.49	0.014
184.00	-4.10	-0.71	0.00	-7.28	0.00	7.28	1571.64	785.82	1525.71	763.99	8.29	-0.49	0.012
186.00	-3.96	-0.70	0.00	-5.85	0.00	5.85	1571.64	785.82	1525.71	763.99	8.49	-0.49	0.010

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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188.00	-3.83	-0.68	0.00	-4.46	0.00	4.46	1571.64	785.82	1525.71	763.99	8.70	-0.49	0.008
190.00	-3.69	-0.66	0.00	-3.10	0.00	3.10	1571.64	785.82	1525.71	763.99	8.90	-0.50	0.006
192.00	-3.55	-0.64	0.00	-1.78	0.00	1.78	1571.64	785.82	1525.71	763.99	9.11	-0.50	0.005
193.00	-3.17	-0.57	0.00	-1.14	0.00	1.14	1571.64	785.82	1525.71	763.99	9.22	-0.50	0.004
194.00	-3.10	-0.56	0.00	-0.56	0.00	0.56	1571.64	785.82	1525.71	763.99	9.32	-0.50	0.003
195.00	0.00	-0.54	0.00	0.00	0.00	0.00	1571.64	785.82	1525.71	763.99	9.42	-0.50	0.000

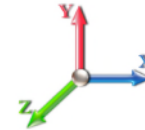
Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 30

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	301.92	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	7.442	8.19	299.71	0.650	0.000	2.00	10.876	7.07	57.9	0.0	517.5
4.00		1.00	0.85	7.442	8.19	297.51	0.650	0.000	2.00	10.796	7.02	57.4	0.0	513.7
6.00		1.00	0.85	7.442	8.19	295.31	0.650	0.000	2.00	10.717	6.97	57.0	0.0	509.9
8.00		1.00	0.85	7.442	8.19	293.10	0.650	0.000	2.00	10.637	6.91	56.6	0.0	506.1
10.00		1.00	0.85	7.442	8.19	290.90	0.650	0.000	2.00	10.557	6.86	56.2	0.0	502.3
12.00		1.00	0.85	7.442	8.19	288.69	0.650	0.000	2.00	10.478	6.81	55.8	0.0	498.4
14.00		1.00	0.85	7.442	8.19	286.49	0.650	0.000	2.00	10.398	6.76	55.3	0.0	494.6
16.00		1.00	0.86	7.534	8.29	286.04	0.650	0.000	2.00	10.318	6.71	55.6	0.0	490.8
18.00		1.00	0.88	7.723	8.50	287.36	0.650	0.000	2.00	10.239	6.66	56.5	0.0	487.0
20.00		1.00	0.90	7.896	8.69	288.29	0.650	0.000	2.00	10.159	6.60	57.4	0.0	483.2
22.00		1.00	0.92	8.056	8.86	288.91	0.650	0.000	2.00	10.079	6.55	58.1	0.0	479.4
24.00		1.00	0.94	8.205	9.03	289.25	0.650	0.000	2.00	9.999	6.50	58.7	0.0	475.6
26.00		1.00	0.95	8.345	9.18	289.37	0.650	0.000	2.00	9.920	6.45	59.2	0.0	471.7
28.00		1.00	0.97	8.476	9.32	289.28	0.650	0.000	2.00	9.840	6.40	59.6	0.0	467.9
30.00		1.00	0.98	8.600	9.46	289.02	0.650	0.000	2.00	9.760	6.34	60.0	0.0	464.1
32.00		1.00	1.00	8.717	9.59	288.60	0.650	0.000	2.00	9.681	6.29	60.3	0.0	460.3
34.00		1.00	1.01	8.829	9.71	288.05	0.650	0.000	2.00	9.601	6.24	60.6	0.0	456.5
36.00		1.00	1.02	8.936	9.83	287.37	0.650	0.000	2.00	9.521	6.19	60.8	0.0	452.7
38.00		1.00	1.03	9.039	9.94	286.58	0.650	0.000	2.00	9.442	6.14	61.0	0.0	448.9
40.00		1.00	1.04	9.137	10.05	285.69	0.650	0.000	2.00	9.362	6.09	61.2	0.0	445.0
41.00	Bot - Section 2	1.00	1.05	9.184	10.10	285.21	0.650	0.000	1.00	4.651	3.02	30.5	0.0	221.1
42.00		1.00	1.05	9.231	10.15	284.71	0.650	0.000	1.00	4.695	3.05	31.0	0.0	443.3
44.00		1.00	1.06	9.322	10.25	283.64	0.650	0.000	2.00	9.330	6.06	62.2	0.0	880.9
46.00		1.00	1.07	9.410	10.35	282.49	0.650	0.000	2.00	9.250	6.01	62.2	0.0	873.3
48.00	Top - Section 1	1.00	1.08	9.494	10.44	281.27	0.650	0.000	2.00	9.170	5.96	62.3	0.0	865.7
50.00		1.00	1.09	9.576	10.53	283.97	0.650	0.000	2.00	9.091	5.91	62.2	0.0	432.1
52.00		1.00	1.10	9.656	10.62	282.63	0.650	0.000	2.00	9.011	5.86	62.2	0.0	428.2
54.00		1.00	1.11	9.733	10.71	281.24	0.650	0.000	2.00	8.931	5.81	62.2	0.0	424.4
56.00		1.00	1.12	9.807	10.79	279.78	0.650	0.000	2.00	8.851	5.75	62.1	0.0	420.6
58.00		1.00	1.13	9.880	10.87	278.28	0.650	0.000	2.00	8.772	5.70	62.0	0.0	416.8
60.00		1.00	1.14	9.951	10.95	276.73	0.650	0.000	2.00	8.692	5.65	61.8	0.0	413.0
62.00		1.00	1.14	10.020	11.02	275.13	0.650	0.000	2.00	8.612	5.60	61.7	0.0	409.2
64.00		1.00	1.15	10.087	11.10	273.48	0.650	0.000	2.00	8.533	5.55	61.5	0.0	405.4
66.00		1.00	1.16	10.153	11.17	271.79	0.650	0.000	2.00	8.453	5.49	61.4	0.0	401.5
68.00		1.00	1.17	10.217	11.24	270.07	0.650	0.000	2.00	8.373	5.44	61.2	0.0	397.7
70.00		1.00	1.17	10.279	11.31	268.30	0.650	0.000	2.00	8.294	5.39	61.0	0.0	393.9
72.00		1.00	1.18	10.340	11.37	266.50	0.650	0.000	2.00	8.214	5.34	60.7	0.0	390.1
74.00		1.00	1.19	10.400	11.44	264.67	0.650	0.000	2.00	8.134	5.29	60.5	0.0	386.3
76.00		1.00	1.19	10.459	11.50	262.80	0.650	0.000	2.00	8.055	5.24	60.2	0.0	382.5
78.00		1.00	1.20	10.516	11.57	260.90	0.650	0.000	2.00	7.975	5.18	60.0	0.0	378.7
80.00		1.00	1.21	10.572	11.63	258.97	0.650	0.000	2.00	7.895	5.13	59.7	0.0	374.8
81.00	Top - Section 2	1.00	1.21	10.600	11.66	257.99	0.650	0.000	1.00	3.918	2.55	29.7	0.0	186.0
82.00		1.00	1.21	10.627	11.69	257.01	0.650	0.000	1.00	3.898	2.53	29.6	0.0	154.4
84.00		1.00	1.22	10.681	11.75	255.02	0.650	0.000	2.00	7.736	5.03	59.1	0.0	306.4
85.00	Bot - Section 4	1.00	1.22	10.708	11.78	254.01	0.650	0.000	1.00	3.838	2.49	29.4	0.0	152.0
86.00		1.00	1.23	10.734	11.81	253.00	0.650	0.000	1.00	3.871	2.52	29.7	0.0	304.6

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00	1.00	1.23	10.787	11.87	250.96	0.650	0.000	2.00	7.682	4.99	59.2	0.0	604.4
90.00	1.00	1.24	10.838	11.92	248.90	0.650	0.000	2.00	7.603	4.94	58.9	0.0	598.0
91.00 Top - Section 3	1.00	1.24	10.863	11.95	247.86	0.650	0.000	1.00	3.771	2.45	29.3	0.0	296.6
92.00	1.00	1.24	10.888	11.98	250.35	0.650	0.000	1.00	3.752	2.44	29.2	0.0	148.6
94.00	1.00	1.25	10.937	12.03	248.24	0.650	0.000	2.00	7.443	4.84	58.2	0.0	294.8
96.00	1.00	1.25	10.986	12.08	246.12	0.650	0.000	2.00	7.364	4.79	57.8	0.0	291.6
98.00	1.00	1.26	11.034	12.14	243.97	0.650	0.000	2.00	7.284	4.73	57.5	0.0	288.4
100.00	1.00	1.27	11.081	12.19	241.80	0.650	0.000	2.00	7.204	4.68	57.1	0.0	285.2
102.00	1.00	1.27	11.127	12.24	239.61	0.650	0.000	2.00	7.125	4.63	56.7	0.0	282.1
104.00	1.00	1.28	11.173	12.29	237.40	0.650	0.000	2.00	7.045	4.58	56.3	0.0	278.9
106.00	1.00	1.28	11.218	12.34	235.17	0.650	0.000	2.00	6.965	4.53	55.9	0.0	275.7
108.00	1.00	1.29	11.262	12.39	232.92	0.650	0.000	2.00	6.886	4.48	55.4	0.0	272.5
110.00	1.00	1.29	11.305	12.44	230.65	0.650	0.000	2.00	6.806	4.42	55.0	0.0	269.3
112.00	1.00	1.30	11.348	12.48	228.37	0.650	0.000	2.00	6.726	4.37	54.6	0.0	266.2
114.00	1.00	1.30	11.391	12.53	226.07	0.650	0.000	2.00	6.646	4.32	54.1	0.0	263.0
116.00	1.00	1.31	11.432	12.58	223.75	0.650	0.000	2.00	6.567	4.27	53.7	0.0	259.8
118.00	1.00	1.31	11.474	12.62	221.42	0.650	0.000	2.00	6.487	4.22	53.2	0.0	256.6
120.00	1.00	1.32	11.514	12.67	219.07	0.650	0.000	2.00	6.407	4.16	52.8	0.0	253.4
122.00	1.00	1.32	11.554	12.71	216.70	0.650	0.000	2.00	6.328	4.11	52.3	0.0	250.3
124.00	1.00	1.32	11.594	12.75	214.32	0.650	0.000	2.00	6.248	4.06	51.8	0.0	247.1
126.00	1.00	1.33	11.633	12.80	211.93	0.650	0.000	2.00	6.168	4.01	51.3	0.0	243.9
128.00	1.00	1.33	11.672	12.84	209.52	0.650	0.000	2.00	6.089	3.96	50.8	0.0	240.7
130.00 Bot - Section 5	1.00	1.34	11.710	12.88	207.10	0.650	0.000	2.00	6.009	3.91	50.3	0.0	237.6
132.00	1.00	1.34	11.748	12.92	204.66	0.650	0.000	2.00	6.014	3.91	50.5	0.0	424.9
134.00	1.00	1.35	11.785	12.96	202.21	0.650	0.000	2.00	5.934	3.86	50.0	0.0	419.2
135.00 Top - Section 4	1.00	1.35	11.803	12.98	200.99	0.650	0.000	1.00	2.937	1.91	24.8	0.0	207.5
136.00	1.00	1.35	11.822	13.00	202.70	0.650	0.000	1.00	2.917	1.90	24.7	0.0	92.4
138.00	1.00	1.35	11.858	13.04	200.23	0.650	0.000	2.00	5.775	3.75	49.0	0.0	182.9
140.00	1.00	1.36	11.894	13.08	197.75	0.650	0.000	2.00	5.695	3.70	48.4	0.0	180.4
142.00	1.00	1.36	11.930	13.12	195.25	0.650	0.000	2.00	5.616	3.65	47.9	0.0	177.8
144.00	1.00	1.37	11.965	13.16	192.75	0.650	0.000	2.00	5.536	3.60	47.4	0.0	175.3
146.00	1.00	1.37	12.000	13.20	190.23	0.650	0.000	2.00	5.456	3.55	46.8	0.0	172.7
148.00	1.00	1.37	12.034	13.24	187.70	0.650	0.000	2.00	5.376	3.49	46.3	0.0	170.2
150.00	1.00	1.38	12.068	13.27	185.16	0.650	0.000	2.00	5.297	3.44	45.7	0.0	167.7
152.00	1.00	1.38	12.102	13.31	182.61	0.650	0.000	2.00	5.217	3.39	45.1	0.0	165.1
154.00	1.00	1.39	12.135	13.35	180.04	0.650	0.000	2.00	5.137	3.34	44.6	0.0	162.6
155.00 Appurtenance(s)	1.00	1.39	12.152	13.37	178.76	0.650	0.000	1.00	2.539	1.65	22.1	0.0	80.3
156.00	1.00	1.39	12.168	13.39	177.47	0.650	0.000	1.00	2.519	1.64	21.9	0.0	79.7
158.00	1.00	1.39	12.201	13.42	174.89	0.650	0.000	2.00	4.978	3.24	43.4	0.0	157.5
160.00	1.00	1.40	12.233	13.46	172.29	0.650	0.000	2.00	4.898	3.18	42.8	0.0	154.9
162.00	1.00	1.40	12.265	13.49	169.69	0.650	0.000	2.00	4.819	3.13	42.3	0.0	152.4
164.00	1.00	1.40	12.297	13.53	167.07	0.650	0.000	2.00	4.739	3.08	41.7	0.0	149.9
165.00 Appurtenance(s)	1.00	1.41	12.313	13.54	165.76	0.650	0.000	1.00	2.340	1.52	20.6	0.0	74.0
166.00	1.00	1.41	12.328	13.56	164.45	0.650	0.000	1.00	2.320	1.51	20.4	0.0	73.3
168.00	1.00	1.41	12.360	13.60	161.82	0.650	0.000	2.00	4.580	2.98	40.5	0.0	144.8
170.00	1.00	1.42	12.390	13.63	159.18	0.650	0.000	2.00	4.500	2.92	39.9	0.0	142.2
172.00	1.00	1.42	12.421	13.66	156.52	0.650	0.000	2.00	4.420	2.87	39.3	0.0	139.7
174.00	1.00	1.42	12.451	13.70	153.86	0.650	0.000	2.00	4.341	2.82	38.6	0.0	137.1
175.00 Appurtenance(s)	1.00	1.42	12.466	13.71	152.53	0.650	0.000	1.00	2.140	1.39	19.1	0.0	67.6
176.00	1.00	1.43	12.481	13.73	151.20	0.650	0.000	1.00	2.120	1.38	18.9	0.0	67.0
178.00	1.00	1.43	12.511	13.76	148.52	0.650	0.000	2.00	4.181	2.72	37.4	0.0	132.1
180.00 Top - Section 5	1.00	1.43	12.540	13.79	145.83	0.650	0.000	2.00	4.102	2.67	36.8	0.0	129.5
182.00	1.00	1.44	12.570	13.83	146.00	0.650	0.000	2.00	4.062	2.64	36.5	0.0	144.0
184.00	1.00	1.44	12.599	13.86	146.17	0.650	0.000	2.00	4.062	2.64	36.6	0.0	144.0
186.00	1.00	1.44	12.627	13.89	146.34	0.650	0.000	2.00	4.062	2.64	36.7	0.0	144.0
188.00	1.00	1.45	12.656	13.92	146.50	0.650	0.000	2.00	4.062	2.64	36.8	0.0	144.0
190.00	1.00	1.45	12.684	13.95	146.66	0.650	0.000	2.00	4.062	2.64	36.8	0.0	144.0

Wind Loading - Shaft

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
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192.00	1.00	1.45	12.712	13.98	146.83	0.650	0.000	2.00	4.062	2.64	36.9	0.0	144.0
193.00 Appurtenance(s)	1.00	1.45	12.726	14.00	146.91	0.650	0.000	1.00	2.031	1.32	18.5	0.0	72.0
194.00	1.00	1.46	12.740	14.01	146.99	0.650	0.000	1.00	2.031	1.32	18.5	0.0	72.0
195.00 Appurtenance(s)	1.00	1.46	12.753	14.03	147.07	0.650	0.000	1.00	2.031	1.32	18.5	0.0	72.0
Totals:								195.00			5,155.1		32,833.6

Discrete Appurtenance Forces

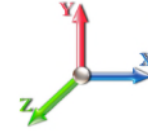
Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021	
Site Name: Morris	Exposure: C		
Height: 195.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 56



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 30

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	195.00	800 Mhz Filter	3	12.753	14.029	0.52	0.75	0.77	30.00	0.000	0.000	10.83	0.00	0.00
2	195.00	1900MHz RRH	3	12.753	14.029	0.50	0.75	5.73	132.00	0.000	0.000	80.36	0.00	0.00
3	195.00	ACU-A20-N	4	12.753	14.029	0.50	0.75	0.28	4.00	0.000	0.000	3.95	0.00	0.00
4	195.00	800 Mhz	6	12.753	14.029	0.50	0.75	10.43	409.80	0.000	0.000	146.35	0.00	0.00
5	195.00	APXVSP18-C-A20	3	12.753	14.029	0.62	0.75	14.98	171.00	0.000	0.000	210.11	0.00	0.00
6	195.00	Modified Platform + HR &	1	12.753	14.029	1.00	1.00	51.70	2246.00	0.000	0.000	725.29	0.00	0.00
7	195.00	TD-RRH8x20-25	3	12.753	14.029	0.38	0.75	4.56	210.00	0.000	0.000	63.92	0.00	0.00
8	195.00	Commscope DT465B-2XR	3	12.753	14.029	0.62	0.75	16.99	174.00	0.000	0.000	238.41	0.00	0.00
9	193.00	Collar Mount	1	12.726	13.998	1.00	1.00	5.00	350.00	0.000	0.000	69.99	0.00	0.00
10	175.00	Commscope	3	12.466	13.713	1.00	1.00	0.00	76.05	0.000	0.000	0.00	0.00	0.00
11	175.00	Commscope	3	12.466	13.713	0.53	0.75	3.13	158.70	0.000	0.000	42.88	0.00	0.00
12	175.00	RFS DB-C1-12C-24AB-0Z	1	12.466	13.713	0.75	0.75	3.04	32.00	0.000	0.000	41.76	0.00	0.00
13	175.00	Samsung B2/B66A	3	12.466	13.713	0.50	0.75	2.82	253.20	0.000	0.000	38.66	0.00	0.00
14	175.00	Samsung B5/B13	3	12.466	13.713	0.50	0.75	2.82	210.90	0.000	0.000	38.66	0.00	0.00
15	175.00	Samsung MT6407-77A	3	12.466	13.713	0.52	0.75	7.39	238.20	0.000	0.000	101.29	0.00	0.00
16	175.00	Commscope	6	12.466	13.713	0.64	0.75	31.25	262.20	0.000	0.000	428.53	0.00	0.00
17	175.00	HRK14	1	12.466	13.713	1.00	1.00	8.13	504.00	0.000	0.000	111.49	0.00	0.00
18	175.00	Low Profile Platform	1	12.466	13.713	1.00	1.00	22.00	1500.00	0.000	0.000	301.68	0.00	0.00
19	165.00	Low Profile Platform	1	12.313	13.544	1.00	1.00	22.00	1500.00	0.000	0.000	297.97	0.00	0.00
20	165.00	DC6-48-60-18-8F	1	12.313	13.544	1.00	1.00	0.92	31.80	0.000	0.000	12.46	0.00	0.00
21	165.00	ABT-DF-DMADBH	1	12.313	13.544	1.00	1.00	0.05	1.10	0.000	0.000	0.68	0.00	0.00
22	165.00	AM-X-CD-16-65-00T-RET	1	12.313	13.544	0.72	0.80	5.77	48.50	0.000	0.000	78.21	0.00	0.00
23	165.00	RRUS-11	6	12.313	13.544	0.57	0.80	8.59	306.00	0.000	0.000	116.32	0.00	0.00
24	165.00	LGP2140X TMA	12	12.313	13.544	0.54	0.80	8.36	228.00	0.000	0.000	113.25	0.00	0.00
25	165.00	7770.00	6	12.313	13.544	0.58	0.80	19.27	210.00	0.000	0.000	261.02	0.00	0.00
26	165.00	800 10764	2	12.313	13.544	0.72	0.80	8.47	81.60	0.000	0.000	114.68	0.00	0.00
27	155.00	RFS	3	12.152	13.367	0.52	0.75	31.88	384.00	0.000	0.000	426.11	0.00	0.00
28	155.00	Ericsson 4449 B71 + B85	3	12.152	13.367	0.50	0.75	2.97	219.60	0.000	0.000	39.70	0.00	0.00
29	155.00	Ericsson 4415 B66A	3	12.152	13.367	0.50	0.75	2.80	148.80	0.000	0.000	37.48	0.00	0.00
30	155.00	RFS	3	12.152	13.367	0.50	0.75	9.96	122.10	0.000	0.000	133.20	0.00	0.00
31	155.00	Ericsson AIR6449 B41	3	12.152	13.367	0.53	0.75	9.03	309.00	0.000	0.000	120.65	0.00	0.00
32	155.00	Low Profile Platform	1	12.152	13.367	1.00	1.00	22.00	1500.00	0.000	0.000	294.07	0.00	0.00
33	155.00	Ericsson 4424 B25	3	12.152	13.367	0.50	0.75	3.09	264.00	0.000	0.000	41.31	0.00	0.00
34	155.00	782 11056	3	12.152	13.367	0.65	0.75	0.55	15.90	0.000	0.000	7.33	0.00	0.00
35	155.00	S20057A1	3	12.152	13.367	0.55	0.75	1.35	33.00	0.000	0.000	18.00	0.00	0.00
36	155.00	KRY 112 144/1	3	12.152	13.367	0.52	0.75	0.65	33.00	0.000	0.000	8.63	0.00	0.00
37	155.00	HRK12 (Handrail Kit)	1	12.152	13.367	1.00	1.00	7.75	261.72	0.000	0.000	103.59	0.00	0.00

Totals: 12,660.17

4,878.80

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

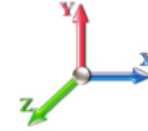


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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 30

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
2.00		57.87	611.68	0.00	0.00
4.00		57.45	607.87	0.00	0.00
6.00		57.02	604.05	0.00	0.00
8.00		56.60	600.24	0.00	0.00
10.00		56.17	596.42	0.00	0.00
12.00		55.75	592.61	0.00	0.00
14.00		55.33	588.80	0.00	0.00
16.00		55.58	584.98	0.00	0.00
18.00		56.54	581.17	0.00	0.00
20.00		57.35	577.36	0.00	0.00
22.00		58.06	573.54	0.00	0.00
24.00		58.66	569.73	0.00	0.00
26.00		59.19	565.91	0.00	0.00
28.00		59.63	562.10	0.00	0.00
30.00		60.02	558.29	0.00	0.00
32.00		60.34	554.47	0.00	0.00
34.00		60.61	550.66	0.00	0.00
36.00		60.84	546.85	0.00	0.00
38.00		61.02	543.03	0.00	0.00
40.00		61.16	539.22	0.00	0.00
41.00		30.54	268.18	0.00	0.00
42.00		30.99	490.40	0.00	0.00
44.00		62.18	975.08	0.00	0.00
46.00		62.23	967.46	0.00	0.00
48.00		62.25	959.83	0.00	0.00
50.00		62.24	526.22	0.00	0.00
52.00		62.21	522.41	0.00	0.00
54.00		62.15	518.60	0.00	0.00
56.00		62.07	514.78	0.00	0.00
58.00		61.97	510.97	0.00	0.00
60.00		61.84	507.15	0.00	0.00
62.00		61.70	503.34	0.00	0.00
64.00		61.54	499.53	0.00	0.00
66.00		61.36	495.71	0.00	0.00
68.00		61.17	491.90	0.00	0.00
70.00		60.96	488.09	0.00	0.00
72.00		60.73	484.27	0.00	0.00
74.00		60.49	480.46	0.00	0.00
76.00		60.23	476.64	0.00	0.00
78.00		59.96	472.83	0.00	0.00
80.00		59.68	469.02	0.00	0.00
81.00		29.69	233.08	0.00	0.00
82.00		29.62	201.50	0.00	0.00
84.00		59.08	400.61	0.00	0.00
85.00		29.39	199.11	0.00	0.00
86.00		29.71	351.66	0.00	0.00

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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88.00		59.25	698.55	0.00	0.00
90.00		58.91	692.20	0.00	0.00
91.00		29.29	343.71	0.00	0.00
92.00		29.21	195.66	0.00	0.00
94.00		58.21	388.94	0.00	0.00
96.00		57.84	385.76	0.00	0.00
98.00		57.46	382.58	0.00	0.00
100.00		57.08	379.40	0.00	0.00
102.00		56.68	376.22	0.00	0.00
104.00		56.28	373.05	0.00	0.00
106.00		55.86	369.87	0.00	0.00
108.00		55.44	366.69	0.00	0.00
110.00		55.01	363.51	0.00	0.00
112.00		54.58	360.33	0.00	0.00
114.00		54.13	357.16	0.00	0.00
116.00		53.68	353.98	0.00	0.00
118.00		53.22	350.80	0.00	0.00
120.00		52.75	347.62	0.00	0.00
122.00		52.28	344.44	0.00	0.00
124.00		51.79	341.26	0.00	0.00
126.00		51.31	338.09	0.00	0.00
128.00		50.81	334.91	0.00	0.00
130.00		50.31	331.73	0.00	0.00
132.00		50.51	519.09	0.00	0.00
134.00		50.00	513.37	0.00	0.00
135.00		24.79	254.54	0.00	0.00
136.00		24.66	139.50	0.00	0.00
138.00		48.96	277.09	0.00	0.00
140.00		48.43	274.54	0.00	0.00
142.00		47.90	272.00	0.00	0.00
144.00		47.36	269.46	0.00	0.00
146.00		46.81	266.92	0.00	0.00
148.00		46.26	264.37	0.00	0.00
150.00		45.70	261.83	0.00	0.00
152.00		45.14	259.29	0.00	0.00
154.00		44.58	256.75	0.00	0.00
155.00	(29) attachments	1252.13	3418.54	0.00	0.00
156.00		21.92	111.02	0.00	0.00
158.00		43.43	220.14	0.00	0.00
160.00		42.84	217.60	0.00	0.00
162.00		42.26	215.06	0.00	0.00
164.00		41.67	212.51	0.00	0.00
165.00	(30) attachments	1015.18	2512.30	0.00	0.00
166.00		20.45	89.70	0.00	0.00
168.00		40.47	177.49	0.00	0.00
170.00		39.87	174.95	0.00	0.00
172.00		39.26	172.40	0.00	0.00
174.00		38.64	169.86	0.00	0.00
175.00	(24) attachments	1124.01	3319.23	0.00	0.00
176.00		18.92	70.80	0.00	0.00
178.00		37.40	139.70	0.00	0.00
180.00		36.78	137.15	0.00	0.00
182.00		36.50	151.60	0.00	0.00
184.00		36.59	151.60	0.00	0.00
186.00		36.67	151.60	0.00	0.00
188.00		36.75	151.60	0.00	0.00
190.00		36.84	151.60	0.00	0.00

Total Applied Force Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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192.00		36.92	151.60	0.00	0.00
193.00	(1) attachments	88.47	425.80	0.00	0.00
194.00		18.50	75.80	0.00	0.00
195.00	(26) attachments	1497.74	3452.60	0.00	0.00
	Totals:	10,033.87	53,345.24	0.00	0.00

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II

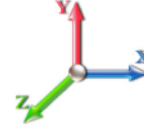


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 30

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	-53.34	-10.04	0.00	-1392.5	0.00	1392.54	4628.91	2314.46	12221.1	6119.66	0.00	0.000	0.000	0.239
2.00	-52.73	-10.00	0.00	-1372.4	0.00	1372.46	4612.68	2306.34	12088.3	6053.16	0.00	-0.020	0.000	0.238
4.00	-52.12	-9.96	0.00	-1352.4	0.00	1352.46	4596.18	2298.09	11955.5	5986.64	0.02	-0.040	0.000	0.237
6.00	-51.51	-9.92	0.00	-1332.5	0.00	1332.54	4579.43	2289.71	11822.6	5920.10	0.04	-0.060	0.000	0.236
8.00	-50.91	-9.88	0.00	-1312.6	0.00	1312.69	4562.40	2281.20	11689.7	5853.55	0.07	-0.080	0.000	0.235
10.00	-50.31	-9.84	0.00	-1292.9	0.00	1292.93	4545.12	2272.56	11556.8	5787.00	0.11	-0.101	0.000	0.235
12.00	-49.71	-9.80	0.00	-1273.2	0.00	1273.24	4527.57	2263.79	11423.9	5720.46	0.15	-0.121	0.000	0.234
14.00	-49.12	-9.77	0.00	-1253.6	0.00	1253.63	4509.77	2254.88	11291.0	5653.92	0.21	-0.142	0.000	0.233
16.00	-48.53	-9.73	0.00	-1234.1	0.00	1234.10	4491.69	2245.85	11158.2	5587.41	0.27	-0.163	0.000	0.232
18.00	-47.94	-9.69	0.00	-1214.6	0.00	1214.65	4473.36	2236.68	11025.4	5520.93	0.35	-0.184	0.000	0.231
20.00	-47.36	-9.64	0.00	-1195.2	0.00	1195.28	4454.76	2227.38	10892.7	5454.49	0.43	-0.205	0.000	0.230
22.00	-46.79	-9.60	0.00	-1175.9	0.00	1175.99	4435.90	2217.95	10760.1	5388.08	0.52	-0.227	0.000	0.229
24.00	-46.21	-9.56	0.00	-1156.7	0.00	1156.78	4416.78	2208.39	10627.6	5321.73	0.62	-0.248	0.000	0.228
26.00	-45.64	-9.51	0.00	-1137.6	0.00	1137.67	4397.40	2198.70	10495.2	5255.44	0.73	-0.270	0.000	0.227
28.00	-45.08	-9.47	0.00	-1118.6	0.00	1118.64	4377.75	2188.87	10363.0	5189.22	0.84	-0.292	0.000	0.226
30.00	-44.52	-9.42	0.00	-1099.7	0.00	1099.70	4357.84	2178.92	10230.9	5123.07	0.97	-0.314	0.000	0.225
32.00	-43.96	-9.38	0.00	-1080.8	0.00	1080.86	4337.67	2168.83	10099.0	5057.01	1.11	-0.336	0.000	0.224
34.00	-43.41	-9.33	0.00	-1062.1	0.00	1062.11	4317.23	2158.62	9967.25	4991.03	1.25	-0.358	0.000	0.223
36.00	-42.86	-9.28	0.00	-1043.4	0.00	1043.45	4296.53	2148.27	9835.69	4925.16	1.41	-0.381	0.000	0.222
38.00	-42.31	-9.23	0.00	-1024.8	0.00	1024.88	4275.57	2137.79	9704.34	4859.38	1.57	-0.404	0.000	0.221
40.00	-41.77	-9.18	0.00	-1006.4	0.00	1006.42	4254.35	2127.17	9573.22	4793.73	1.75	-0.427	0.000	0.220
41.00	-41.50	-9.16	0.00	-997.24	0.00	997.24	4243.64	2121.82	9507.75	4760.94	1.84	-0.438	0.000	0.219
42.00	-41.01	-9.14	0.00	-988.08	0.00	988.08	4232.86	2116.43	9442.34	4728.19	1.93	-0.450	0.000	0.219
44.00	-40.03	-9.08	0.00	-969.81	0.00	969.81	4211.11	2105.56	9311.72	4662.78	2.12	-0.473	0.000	0.218
46.00	-39.06	-9.03	0.00	-951.65	0.00	951.65	4189.10	2094.55	9181.37	4597.51	2.33	-0.496	0.000	0.216
48.00	-38.09	-8.97	0.00	-933.59	0.00	933.59	4202.19	2101.09	9258.62	4636.19	2.54	-0.520	0.000	0.210
50.00	-37.56	-8.92	0.00	-915.65	0.00	915.65	4180.07	2090.03	9128.39	4570.98	2.76	-0.544	0.000	0.209
52.00	-37.04	-8.87	0.00	-897.81	0.00	897.81	4157.69	2078.84	8998.45	4505.91	3.00	-0.567	0.000	0.208
54.00	-36.52	-8.82	0.00	-880.07	0.00	880.07	4135.04	2067.52	8868.82	4441.00	3.24	-0.590	0.000	0.207
56.00	-36.00	-8.76	0.00	-862.44	0.00	862.44	4112.14	2056.07	8739.51	4376.25	3.49	-0.613	0.000	0.206
58.00	-35.49	-8.71	0.00	-844.92	0.00	844.92	4088.97	2044.48	8610.54	4311.67	3.75	-0.636	0.000	0.205
60.00	-34.98	-8.66	0.00	-827.50	0.00	827.50	4065.54	2032.77	8481.93	4247.27	4.02	-0.660	0.000	0.203
62.00	-34.47	-8.60	0.00	-810.19	0.00	810.19	4041.84	2020.92	8353.69	4183.06	4.31	-0.683	0.000	0.202
64.00	-33.97	-8.55	0.00	-792.99	0.00	792.99	4017.89	2008.94	8225.84	4119.03	4.60	-0.707	0.000	0.201
66.00	-33.47	-8.50	0.00	-775.89	0.00	775.89	3993.67	1996.83	8098.39	4055.21	4.90	-0.731	0.000	0.200
68.00	-32.97	-8.44	0.00	-758.90	0.00	758.90	3969.18	1984.59	7971.36	3991.60	5.21	-0.756	0.000	0.198
70.00	-32.48	-8.39	0.00	-742.01	0.00	742.01	3944.44	1972.22	7844.75	3928.21	5.53	-0.780	0.000	0.197
72.00	-32.00	-8.34	0.00	-725.23	0.00	725.23	3919.43	1959.72	7718.60	3865.04	5.86	-0.804	0.000	0.196
74.00	-31.51	-8.28	0.00	-708.56	0.00	708.56	3894.16	1947.08	7592.91	3802.10	6.21	-0.829	0.000	0.194
76.00	-31.03	-8.23	0.00	-692.00	0.00	692.00	3868.63	1934.31	7467.70	3739.40	6.56	-0.854	0.000	0.193
78.00	-30.56	-8.17	0.00	-675.55	0.00	675.55	3842.83	1921.42	7342.98	3676.95	6.92	-0.879	0.000	0.192
80.00	-30.09	-8.12	0.00	-659.20	0.00	659.20	3816.78	1908.39	7218.77	3614.75	7.30	-0.904	0.000	0.190
81.00	-29.85	-8.09	0.00	-651.08	0.00	651.08	3803.65	1901.82	7156.86	3583.75	7.49	-0.917	0.000	0.190
81.00	-29.85	-8.09	0.00	-651.08	0.00	651.08	2964.89	1482.44	5593.90	2801.11	7.49	-0.917	0.000	0.243
82.00	-29.65	-8.07	0.00	-642.99	0.00	642.99	2956.04	1478.02	5548.38	2778.31	7.68	-0.929	0.000	0.241
84.00	-29.25	-8.01	0.00	-626.86	0.00	626.86	2938.13	1469.07	5457.49	2732.80	8.08	-0.960	0.000	0.239
85.00	-29.05	-7.99	0.00	-618.84	0.00	618.84	2929.08	1464.54	5412.12	2710.08	8.28	-0.975	0.000	0.238
86.00	-28.69	-7.97	0.00	-610.85	0.00	610.85	2919.97	1459.98	5366.81	2687.40	8.48	-0.990	0.000	0.237

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
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88.00	-27.99	-7.91	0.00	-594.92	0.00	594.92	2901.54	1450.77	5276.37	2642.11	8.91	-1.021	0.000	0.235
90.00	-27.30	-7.85	0.00	-579.11	0.00	579.11	2882.85	1441.42	5186.17	2596.94	9.34	-1.052	0.000	0.232
91.00	-26.95	-7.82	0.00	-571.26	0.00	571.26	2898.33	1449.17	5260.79	2634.30	9.56	-1.067	0.000	0.226
92.00	-26.75	-7.80	0.00	-563.44	0.00	563.44	2889.00	1444.50	5215.68	2611.72	9.79	-1.083	0.000	0.225
94.00	-26.36	-7.75	0.00	-547.84	0.00	547.84	2870.13	1435.06	5125.65	2566.64	10.25	-1.113	0.000	0.223
96.00	-25.97	-7.69	0.00	-532.35	0.00	532.35	2851.00	1425.50	5035.90	2521.69	10.72	-1.143	0.000	0.220
98.00	-25.59	-7.64	0.00	-516.96	0.00	516.96	2831.61	1415.80	4946.44	2476.90	11.21	-1.173	0.000	0.218
100.00	-25.20	-7.59	0.00	-501.68	0.00	501.68	2811.95	1405.98	4857.28	2432.25	11.70	-1.203	0.000	0.215
102.00	-24.83	-7.54	0.00	-486.50	0.00	486.50	2792.03	1396.02	4768.43	2387.76	12.21	-1.233	0.000	0.213
104.00	-24.45	-7.49	0.00	-471.42	0.00	471.42	2771.85	1385.93	4679.92	2343.44	12.74	-1.264	0.000	0.210
106.00	-24.08	-7.44	0.00	-456.44	0.00	456.44	2751.41	1375.70	4591.76	2299.29	13.27	-1.294	0.000	0.207
108.00	-23.71	-7.39	0.00	-441.57	0.00	441.57	2730.70	1365.35	4503.96	2255.33	13.82	-1.324	0.000	0.205
110.00	-23.34	-7.33	0.00	-426.80	0.00	426.80	2709.73	1354.87	4416.54	2211.55	14.38	-1.355	0.000	0.202
112.00	-22.98	-7.28	0.00	-412.13	0.00	412.13	2688.50	1344.25	4329.52	2167.98	14.96	-1.385	0.000	0.199
114.00	-22.62	-7.23	0.00	-397.57	0.00	397.57	2667.01	1333.50	4242.91	2124.61	15.54	-1.416	0.000	0.196
116.00	-22.26	-7.18	0.00	-383.10	0.00	383.10	2645.25	1322.63	4156.72	2081.45	16.14	-1.446	0.000	0.193
118.00	-21.91	-7.13	0.00	-368.74	0.00	368.74	2623.23	1311.62	4070.97	2038.51	16.76	-1.477	0.000	0.189
120.00	-21.56	-7.08	0.00	-354.48	0.00	354.48	2600.95	1300.48	3985.68	1995.80	17.38	-1.507	0.000	0.186
122.00	-21.21	-7.03	0.00	-340.31	0.00	340.31	2578.41	1289.20	3900.86	1953.33	18.02	-1.538	0.000	0.182
124.00	-20.87	-6.98	0.00	-326.25	0.00	326.25	2555.60	1277.80	3816.53	1911.10	18.67	-1.568	0.000	0.179
126.00	-20.53	-6.93	0.00	-312.29	0.00	312.29	2532.53	1266.26	3732.70	1869.12	19.33	-1.598	0.000	0.175
128.00	-20.19	-6.88	0.00	-298.43	0.00	298.43	2509.20	1254.60	3649.39	1827.41	20.01	-1.628	0.000	0.171
130.00	-19.86	-6.83	0.00	-284.66	0.00	284.66	2485.60	1242.80	3566.61	1785.96	20.70	-1.658	0.000	0.167
132.00	-19.34	-6.78	0.00	-271.00	0.00	271.00	2461.74	1230.87	3484.38	1744.78	21.40	-1.687	0.000	0.163
134.00	-18.82	-6.72	0.00	-257.45	0.00	257.45	2437.62	1218.81	3402.71	1703.88	22.11	-1.717	0.000	0.159
135.00	-18.57	-6.69	0.00	-250.73	0.00	250.73	1823.78	911.89	2575.19	1289.51	22.47	-1.731	0.000	0.205
136.00	-18.43	-6.67	0.00	-244.04	0.00	244.04	1816.04	908.02	2546.55	1275.17	22.84	-1.746	0.000	0.202
138.00	-18.15	-6.62	0.00	-230.70	0.00	230.70	1800.35	900.17	2489.45	1246.57	23.58	-1.780	0.000	0.195
140.00	-17.87	-6.58	0.00	-217.45	0.00	217.45	1784.40	892.20	2432.60	1218.11	24.33	-1.813	0.000	0.189
142.00	-17.60	-6.53	0.00	-204.30	0.00	204.30	1768.19	884.09	2376.03	1189.78	25.10	-1.846	0.000	0.182
144.00	-17.33	-6.48	0.00	-191.24	0.00	191.24	1751.71	875.86	2319.73	1161.59	25.88	-1.878	0.000	0.175
146.00	-17.06	-6.44	0.00	-178.28	0.00	178.28	1734.98	867.49	2263.74	1133.55	26.67	-1.910	0.000	0.167
148.00	-16.79	-6.39	0.00	-165.40	0.00	165.40	1717.98	858.99	2208.06	1105.67	27.48	-1.940	0.000	0.159
150.00	-16.53	-6.34	0.00	-152.62	0.00	152.62	1700.71	850.36	2152.72	1077.96	28.30	-1.969	0.000	0.151
152.00	-16.27	-6.30	0.00	-139.93	0.00	139.93	1683.19	841.59	2097.72	1050.42	29.13	-1.998	0.000	0.143
154.00	-16.01	-6.25	0.00	-127.34	0.00	127.34	1665.40	832.70	2043.08	1023.06	29.97	-2.025	0.000	0.134
155.00	-12.64	-4.88	0.00	-121.09	0.00	121.09	1656.41	828.20	2015.90	1009.45	30.40	-2.038	0.000	0.128
156.00	-12.53	-4.86	0.00	-116.21	0.00	116.21	1647.35	823.68	1988.82	995.89	30.82	-2.051	0.000	0.124
158.00	-12.31	-4.81	0.00	-106.49	0.00	106.49	1629.04	814.52	1934.94	968.91	31.69	-2.076	0.000	0.117
160.00	-12.09	-4.77	0.00	-96.86	0.00	96.86	1610.46	805.23	1881.48	942.14	32.56	-2.100	0.000	0.110
162.00	-11.87	-4.72	0.00	-87.33	0.00	87.33	1591.62	795.81	1828.44	915.58	33.45	-2.123	0.000	0.103
164.00	-11.66	-4.68	0.00	-77.88	0.00	77.88	1572.52	786.26	1775.84	889.24	34.34	-2.144	0.000	0.095
165.00	-9.19	-3.57	0.00	-73.21	0.00	73.21	1562.88	781.44	1749.71	876.15	34.79	-2.154	0.000	0.089
166.00	-9.10	-3.55	0.00	-69.64	0.00	69.64	1553.16	776.58	1723.69	863.13	35.24	-2.164	0.000	0.087
168.00	-8.92	-3.50	0.00	-62.55	0.00	62.55	1533.53	766.77	1672.01	837.25	36.16	-2.183	0.000	0.081
170.00	-8.75	-3.46	0.00	-55.54	0.00	55.54	1513.65	756.82	1620.81	811.61	37.07	-2.201	0.000	0.074
172.00	-8.57	-3.42	0.00	-48.62	0.00	48.62	1493.49	746.75	1570.12	786.22	38.00	-2.218	0.000	0.068
174.00	-8.41	-3.37	0.00	-41.79	0.00	41.79	1473.08	736.54	1519.93	761.10	38.93	-2.233	0.000	0.061
175.00	-5.13	-2.12	0.00	-38.42	0.00	38.42	1462.77	731.39	1495.04	748.63	39.40	-2.240	0.000	0.055
176.00	-5.06	-2.10	0.00	-36.30	0.00	36.30	1452.40	726.20	1470.28	736.23	39.87	-2.247	0.000	0.053
178.00	-4.92	-2.06	0.00	-32.10	0.00	32.10	1427.84	713.92	1417.58	709.84	40.81	-2.260	0.000	0.049
180.00	-4.79	-2.02	0.00	-27.99	0.00	27.99	1400.09	700.04	1362.73	682.38	41.76	-2.272	0.000	0.044
180.00	-4.79	-2.02	0.00	-27.99	0.00	27.99	1571.64	785.82	1525.71	763.99	41.76	-2.272	0.000	0.040
182.00	-4.64	-1.97	0.00	-23.96	0.00	23.96	1571.64	785.82	1525.71	763.99	42.72	-2.283	0.000	0.034
184.00	-4.49	-1.93	0.00	-20.01	0.00	20.01	1571.64	785.82	1525.71	763.99	43.67	-2.291	0.000	0.029
186.00	-4.34	-1.89	0.00	-16.14	0.00	16.14	1571.64	785.82	1525.71	763.99	44.64	-2.298	0.000	0.024
188.00	-4.19	-1.85	0.00	-12.36	0.00	12.36	1571.64	785.82	1525.71	763.99	45.60	-2.303	0.000	0.019

Calculated Forces

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 62



190.00	-4.04	-1.81	0.00	-8.67	0.00	8.67	1571.64	785.82	1525.71	763.99	46.56	-2.307	0.000	0.014
192.00	-3.89	-1.76	0.00	-5.06	0.00	5.06	1571.64	785.82	1525.71	763.99	47.53	-2.310	0.000	0.009
193.00	-3.46	-1.66	0.00	-3.29	0.00	3.29	1571.64	785.82	1525.71	763.99	48.02	-2.311	0.000	0.007
194.00	-3.39	-1.64	0.00	-1.64	0.00	1.64	1571.64	785.82	1525.71	763.99	48.50	-2.311	0.000	0.004
195.00	0.00	-1.50	0.00	0.00	0.00	0.00	1571.64	785.82	1525.71	763.99	48.98	-2.311	0.000	0.000

Final Analysis Summary

Structure: CT01501-S-SBA	Code: EIA/TIA-222-G	9/10/2021
Site Name: Morris	Exposure: C	
Height: 195.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: B - Competent Rock	
Gh: 1.1	Topography: 1	Struct Class: II



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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 + 1.6 93 mph Wind	38.6	0.00	63.99	0.00	0.00	5401.37
0.9D + 1.6W 93 mph Wind	38.6	0.00	47.98	0.00	0.00	5307.59
1.2D + 1.0Di + 1.0Wi 50 mph Wind	12.2	0.00	95.65	0.00	0.00	1725.77
1.2D + 1.0E	1.6	0.00	64.01	0.00	0.00	239.53
0.9D + 1.0E	1.6	0.00	48.01	0.00	0.00	234.98
1.0D + 1.0W 60 mph Wind	10.0	0.00	53.34	0.00	0.00	1392.54

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 + 1.6 93 mph Wind	-34.07	-31.45	0.00	-2532.9	0.00	-2532.9	3803.65	1901.8	7156.86	3583.75	81.00	0.916
0.9D + 1.6W 93 mph Wind	-25.14	-30.85	0.00	-2467.8	0.00	-2467.8	3803.65	1901.8	7156.86	3583.75	81.00	0.890
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-58.87	-10.04	0.00	-814.80	0.00	-814.80	3803.65	1901.8	7156.86	3583.75	81.00	0.311
1.2D + 1.0E	-22.51	-1.18	0.00	-60.09	0.00	-60.09	1823.78	911.89	2575.19	1289.51	135.00	0.059
0.9D + 1.0E	-16.88	-1.15	0.00	-58.58	0.00	-58.58	1823.78	911.89	2575.19	1289.51	135.00	0.055
1.0D + 1.0W 60 mph Wind	-29.85	-8.09	0.00	-651.08	0.00	-651.08	3803.65	1901.8	7156.86	3583.75	81.00	0.243



Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10009924
Maser Consulting Connecticut Project #: 21777147A

June 30, 2021

Site Information

Site ID: 467590-VZW / BETHLEHEM NE CT
Site Name: BETHLEHEM NE CT
Carrier Name: Verizon Wireless
Address: 310 Watertown Road
Bethlehem, Connecticut 06751
Litchfield County
Latitude: 41.667219°
Longitude: -73.170556°

Structure Information

Tower Type: 199-Ft Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 2564647

Analysis Results

Platform: 69.6% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

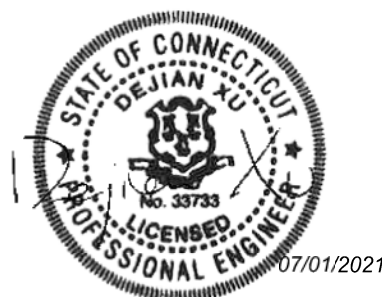
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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: Andy Hanes



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 674843, dated June 21, 2021</i>
<i>Mount Mapping Report</i>	<i>SGS Towers Site #: 467950, dated April 14, 2020</i>
<i>Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project #: 21777147A, dated June 29, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 21777147A, dated June 16, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 115 mph
	Ice Wind Speed (3-sec. Gust): 50 mph
	Design Ice Thickness: 1.00 in
	Risk Category: II
	Exposure Category: C
	Topographic Category: 1
	Topographic Feature Considered: N/A
	Topographic Method: N/A
	Ground Elevation Factor, K_e : 0.966
Seismic Parameters:	S_s : 0.184
	S_1 : 0.054
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
174.00	175.00	6	Commscope	NHH-85B-R2B	Added
		3	Samsung	MT6407-77A	
		1	RFS	DB-C1-12C-24AB-0Z	
		3	Commscope	TD-850B-LTE78-43	
		3	Samsung	B2/B66A RRH-B4049	
		3	Samsung	B5/B13 RRH-BR04C	

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to 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:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Connection	69.6 %	Pass
Face Horizontal	14.2 %	Pass
Mount Pipe	29.0 %	Pass
Dual Mount Pipe	31.1 %	Pass
Cross Arm Plate	38.7 %	Pass
Corner Plate	19.2 %	Pass
Platform Crossmember	20.9 %	Pass
Standoff Horizontal	32.0 %	Pass
Grating Support	15.6 %	Pass

Structure Rating – (Controlling Utilization of all Components)	69.6%
---	--------------

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



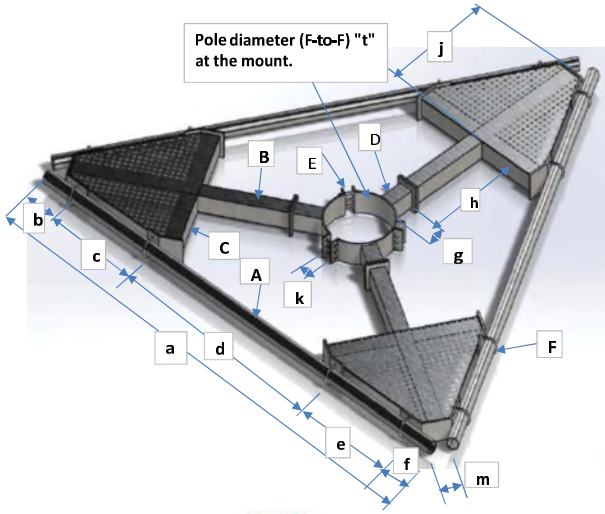


Antenna Mount Type "MT-C" Mapping Form (PATENT PENDING)

FCC #
Unknown

Tower Owner:	SBA	Mapping Date:	4/14/20
Site Name:	Morris	Structure Type:	Monopole
Site Number or ID:	467590	Structure Height (Ft.):	199
Mapping Contractor:	SGS Towers	Mount Height (Ft.):	174

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



Geometries (Unit: inches)									
a	151	e	46	j	47	o		s	
b	9	f	9	k	4.75	p		t	4.5
c	46	g	5	m	9	q		u*	42
d	41	h	15	n		r		v*	72

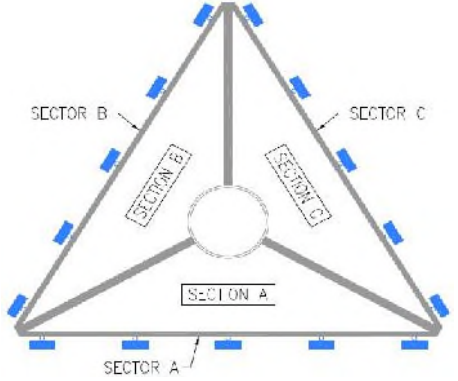
Members/Bolts (Unit: inches) * - See Ant. Layout for "u", "v" and member "K" (pipe)									
Items	Member	Lx (O.D.)	Ly (I.D.)	T	Items	Member	Lx (O.D.)	Ly (I.D.)	T
A	3.5 OD x 0.216 Pipe	3.5	3.068	0.216	F				
B	Tubing 4x4x1/4	4	4	0.25	G				
C	Tubing 4x4x1/4	4	4	0.25	H				
D					J				
E	3/4" Bolt				K* (pipe)	.375 OD x 0.218 Pip	2.375	1.939	0.218

Distance from top of main platform member to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) N/A

Distance from top of main platform member to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) N/A

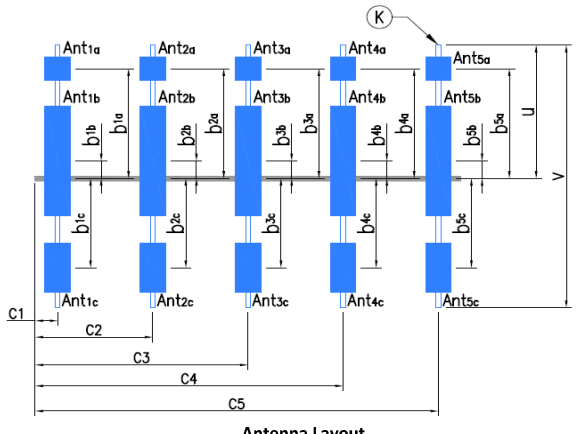
Please enter the information below if members can't be found from the drop down lists

"D" does not exist on this mount; "g" is the collar standoff



Climbing facility is Located at Section C, at 120 Degree Azimuth

Ants. Items	Enter antenna model. If not labled, enter "Unknown". If no antenna at specified location, enter "N/A". If antennas and the locations are the same on all three sectors, only enter one sector.					Mounting Locations (Unit: inches)			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ..." (In.)	Horiz. offset (Use "-" if Ant. is inside)	Horiz. offset "C ₁ , C ₂ , C ₃ , C ₄ , C ₅ " (in.)	
Sector A									
Ant _{1a}					(12) 1 5/8" FH				
Ant _{1b}	LPA 80080 6CF E-DII	5.75	13	72		11	9.5	3	
Ant _{1c}	FD9R6004/2C-3L	6.5	1	4.75		20	-1	3	
Ant _{2a}									
Ant _{2b}	BXA-171085-12CF-E	6	4.25	72.25		24	6.5	27	
Ant _{2c}									
Ant _{3a}									
Ant _{3b}	BXA-70063-6CF-EDI	11	5	71		22	6.5	75	
Ant _{3c}									
Ant _{4a}									
Ant _{4b}	LPA 80080 6CF E-DII	5.75	13	72		11	9.5	148	
Ant _{4c}	FD9R6004/2C-3L	6.4	1	4.75		20	1	148	
Ant _{5a}									
Ant _{5b}									
Ant _{5c}									



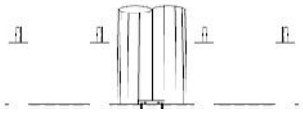
Antenna Layout

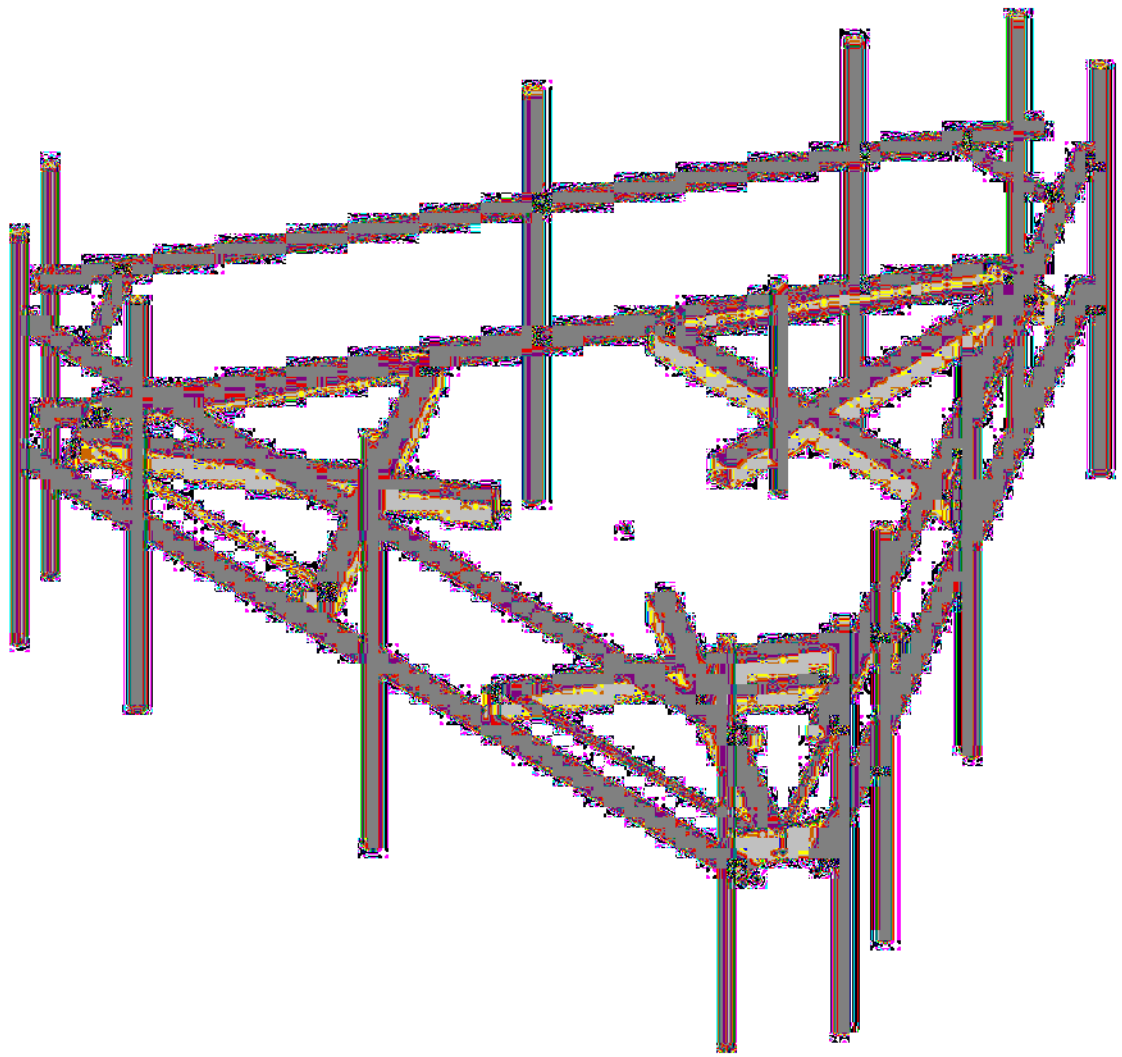
Are Ant same as sector A? Yes Antennas on Sector B are the same as Sector A

Azimuth (Degree) of Each Sector and Climbing Information

Sector A:	0	↻	Deg	
Sector B:	120		Deg	
Sector C:	240		Deg	
Climbing	120		Deg	Located at Section C
Climbing Facility	Corrosion Type:	Good condition		
	Access:	Climbing path was unobstructed.		
	Condition:	N/A		

Are Ant same as sector A/B? Same As A Antennas on Sector C are the same as Sector A

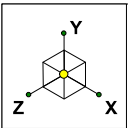




PROJEKTOWANIE
ARCHITECTURA

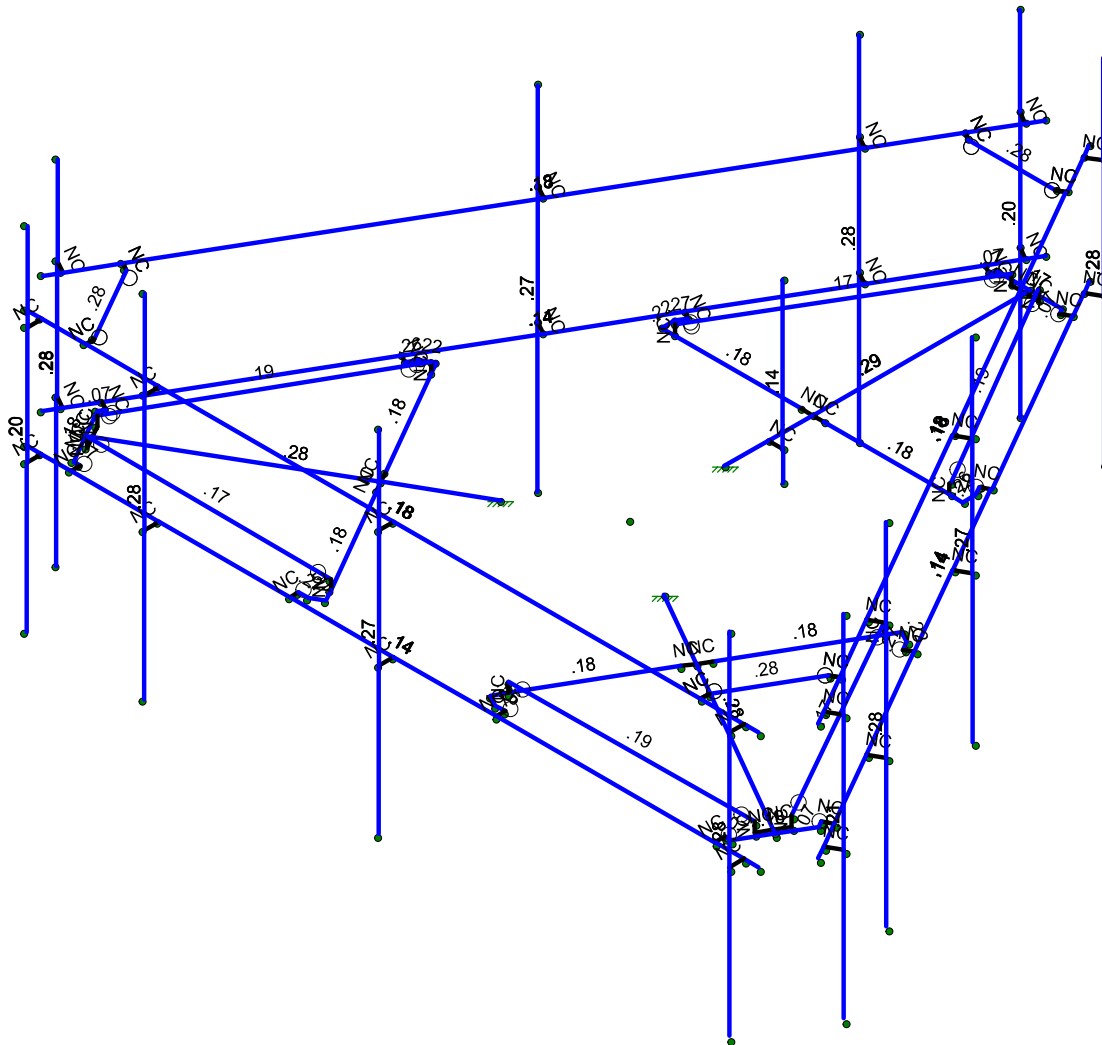
ARCHITECTURA

PROJEKTOWANIE
ARCHITECTURA



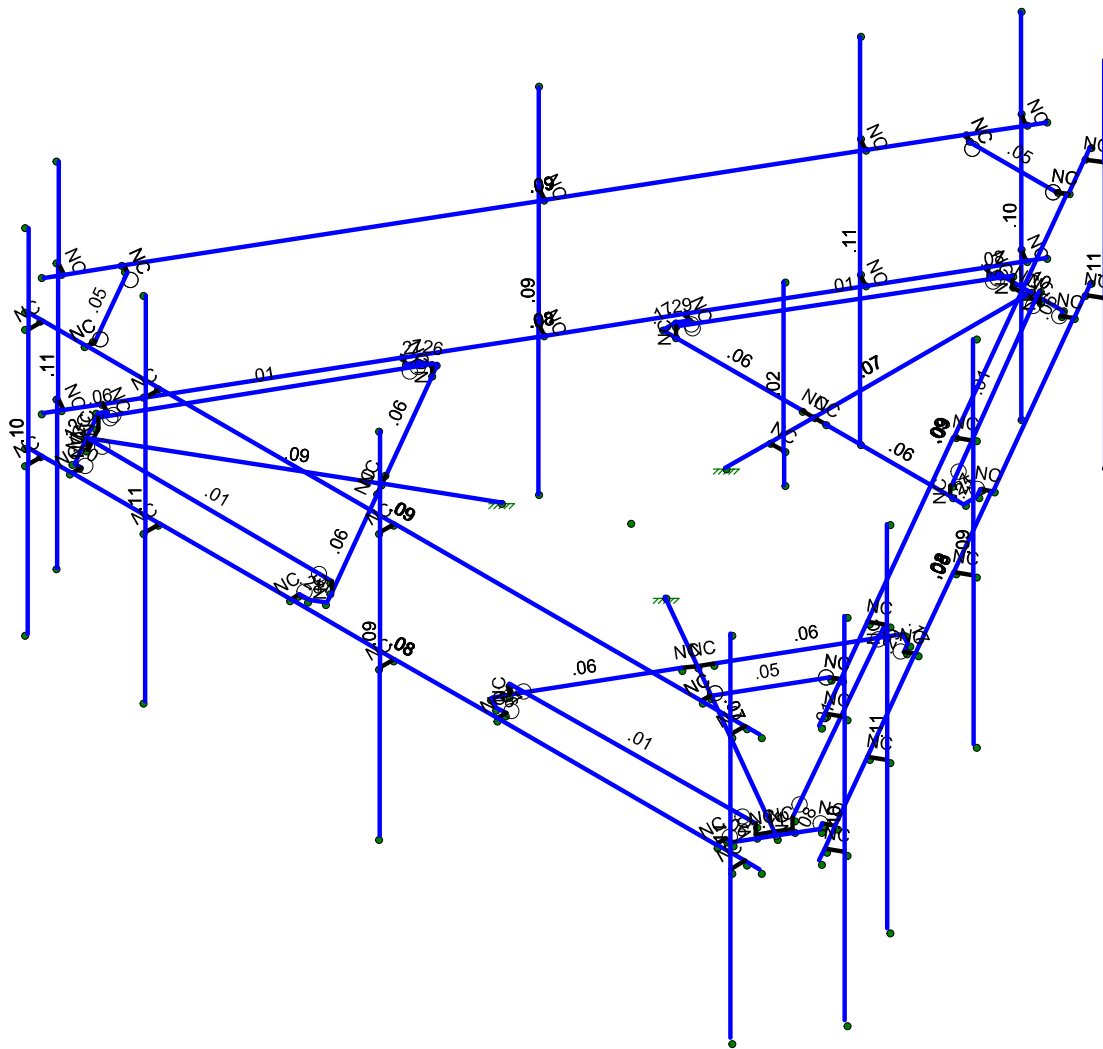
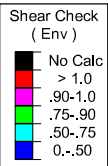
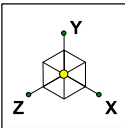
Code Check
(Env)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0.-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467590-VZW_MT_LO_H	SK - 2
		June 15, 2021 at 9:52 AM
		LOADED_467590-VZW_MT_LO_H....



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting		SK - 3
	467590-VZW_MT_LO_H	June 15, 2021 at 9:53 AM
		LOADED_467590-VZW_MT_LO_H...



Basic Load Cases

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None				93		
2	Antenna Di	None				93		
3	Antenna Wo (0 Deg)	None				93		
4	Antenna Wo (30 Deg)	None				93		
5	Antenna Wo (60 Deg)	None				93		
6	Antenna Wo (90 Deg)	None				93		
7	Antenna Wo (120 Deg)	None				93		
8	Antenna Wo (150 Deg)	None				93		
9	Antenna Wo (180 Deg)	None				93		
10	Antenna Wo (210 Deg)	None				93		
11	Antenna Wo (240 Deg)	None				93		
12	Antenna Wo (270 Deg)	None				93		
13	Antenna Wo (300 Deg)	None				93		
14	Antenna Wo (330 Deg)	None				93		
15	Antenna Wi (0 Deg)	None				93		
16	Antenna Wi (30 Deg)	None				93		
17	Antenna Wi (60 Deg)	None				93		
18	Antenna Wi (90 Deg)	None				93		
19	Antenna Wi (120 Deg)	None				93		
20	Antenna Wi (150 Deg)	None				93		
21	Antenna Wi (180 Deg)	None				93		
22	Antenna Wi (210 Deg)	None				93		
23	Antenna Wi (240 Deg)	None				93		
24	Antenna Wi (270 Deg)	None				93		
25	Antenna Wi (300 Deg)	None				93		
26	Antenna Wi (330 Deg)	None				93		
27	Antenna Wm (0 Deg)	None				93		
28	Antenna Wm (30 Deg)	None				93		
29	Antenna Wm (60 Deg)	None				93		
30	Antenna Wm (90 Deg)	None				93		
31	Antenna Wm (120 De...	None				93		
32	Antenna Wm (150 De...	None				93		
33	Antenna Wm (180 De...	None				93		
34	Antenna Wm (210 De...	None				93		
35	Antenna Wm (240 De...	None				93		
36	Antenna Wm (270 De...	None				93		
37	Antenna Wm (300 De...	None				93		
38	Antenna Wm (330 De...	None				93		
39	Structure D	None	-1				3	
40	Structure Di	None					58	3
41	Structure Wo (0 Deg)	None					116	
42	Structure Wo (30 Deg)	None					116	
43	Structure Wo (60 Deg)	None					116	
44	Structure Wo (90 Deg)	None					116	
45	Structure Wo (120 D...	None					116	
46	Structure Wo (150 D...	None					116	
47	Structure Wo (180 D...	None					116	
48	Structure Wo (210 D...	None					116	
49	Structure Wo (240 D...	None					116	
50	Structure Wo (270 D...	None					116	
51	Structure Wo (300 D...	None					116	



Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
17	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1			
18	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1			
19	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1			
20	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1			
21	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1			
22	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1			
23	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1			
24	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1			
25	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1					
26	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1					
27	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1					
28	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1					
29	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1					
30	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1					
31	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1					
32	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1					
33	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1					
34	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1					
35	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1					
36	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1					
37	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1					
38	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1					
39	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1					
40	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1					
41	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1					
42	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1					
43	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1					
44	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1					
45	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1					
46	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1					
47	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1					
48	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1					
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5									
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5									
51	1.4D	Yes	Y		1	1.4	39	1.4											
52	Seismic Mass		Y		1	1	39	1											
53	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1					
54	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866					
55	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5					
56	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ						
57	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5					
58	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866					
59	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1					
60	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866					
61	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5					
62	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ						
63	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5					
64	1.2D + 1.0Ev + ...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866					



Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	6.25	0	4.03969	0	
2	N2	-6.25	0	4.03969	0	
3	N8	6	0	4.03969	0	
4	N9	6	0	4.28969	0	
5	N10	-6	0	4.03969	0	
6	N11	-6	0	4.28969	0	
7	N12	0.	0	4.03969	0	
8	N13	0.	0	4.28969	0	
9	N14	-4	0	4.03969	0	
10	N15	-4	0	4.28969	0	
11	N16	-4	-2.5	4.28969	0	
12	N17	-4	3.5	4.28969	0	
13	N18	-6	-2.5	4.28969	0	
14	N19	-6	3.5	4.28969	0	
15	N20	0.	-2.5	4.28969	0	
16	N21	0.	3.5	4.28969	0	
17	N22	6	-2.5	4.28969	0	
18	N23	6	3.5	4.28969	0	
19	CP	0	0	0	0	
20	N105A	-1.761595	0	4.03969	0	
21	N109	-5.499996	0	4.03969	0	
22	N161A	1.761595	0	4.03969	0	
23	N162A	5.499996	0	4.03969	0	
24	N163A	0.373474	0	-7.432504	0	
25	N164A	6.623474	0	3.392814	0	
26	N167A	6.498474	0	3.176307	0	
27	N168A	6.71498	0	3.051307	0	
28	N175A	6.71498	-2.5	3.051307	0	
29	N176A	6.71498	3.5	3.051307	0	
30	N181A	4.379276	0	-0.494252	0	
31	N182A	6.248476	0	2.743298	0	
32	N183A	2.617672	0	-3.545438	0	
33	N184A	0.748472	0	-6.782988	0	
34	N185A	-6.623474	0	3.392814	0	
35	N186A	-0.373474	0	-7.432504	0	
36	N189A	-0.498474	0	-7.215997	0	
37	N190A	-0.71498	0	-7.340997	0	
38	N197A	-0.71498	-2.5	-7.340997	0	
39	N198A	-0.71498	3.5	-7.340997	0	
40	N203A	-2.617672	0	-3.545438	0	
41	N204A	-0.748472	0	-6.782988	0	
42	N205A	-4.379276	0	-0.494252	0	
43	N206A	-6.248476	0	2.743298	0	
44	N207A	-1.405485	0	3.784481	0	
45	N208A	-1.594929	0	3.893856	0	
46	N209A	-1.761595	0	3.893856	0	
47	N210A	-5.499996	0	3.873628	0	
48	N212A	-5.611975	0	3.873628	0	
49	N214A	1.405485	0	3.784481	0	
50	N215A	1.594929	0	3.893856	0	
51	N216A	1.761595	0	3.893856	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
156	N156	3.498474	2	-2.019845	0	
157	N157	3.71498	2	-2.144845	0	
158	N158	5.498474	2	1.444257	0	
159	N159	5.71498	2	1.319257	0	
160	N160	-6.623474	2	3.392814	0	
161	N161	-0.373474	2	-7.432504	0	
162	N162	-6.498474	2	3.176307	0	
163	N163	-6.71498	2	3.051307	0	
164	N164	-0.498474	2	-7.215997	0	
165	N165	-0.71498	2	-7.340997	0	
166	N166	-3.498474	2	-2.019845	0	
167	N167	-3.71498	2	-2.144845	0	
168	N168	-1.498474	2	-5.483947	0	
169	N169	-1.71498	2	-5.608947	0	
170	N170	-5.25	2	4.03969	0	
171	N181	5.25	2	4.03969	0	
172	N182	6.123474	2	2.526788	0	
173	N183	0.873474	2	-6.566478	0	
174	N184	-0.873474	2	-6.566478	0	
175	N185	-6.123474	2	2.526788	0	
176	N176	-0.	0	-2.359427	0	
177	N177	.25	0	-2.359427	0	
178	N178	.25	2.5	-2.359427	0	
179	N179	.25	-.5	-2.359427	0	
180	N180	-5.25	2	3.893857	0	
181	N181B	5.25	2	3.893857	0	
182	N185B	5.997179	2	2.599705	0	
183	N186	0.747179	2	-6.493562	0	
184	N190	-0.747179	2	-6.493562	0	
185	N191	-5.997179	2	2.599705	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B ...	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2X6	Beam	RECT	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossmem...	HSS4X4X3	Beam	SquareTube	A500 Gr.B ...	Typical	2.58	6.21	6.21	10
5	Grating Support	L2x2x3	Beam	Single Angle	A36 Gr.36	Typical	.722	.271	.271	.009
6	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Beam	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	HRK	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Connector Angle	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
10	Dual Mount Pipe	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
11	Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

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Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M19	N8	N9			RIGID	None	None	RIGID	Typical
3	M20	N10	N11			RIGID	None	None	RIGID	Typical
4	M21	N12	N13			RIGID	None	None	RIGID	Typical
5	M22	N14	N15			RIGID	None	None	RIGID	Typical
6	MP3A	N17	N16			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
7	MP4A	N19	N18			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
8	MP2A	N21	N20			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
10	M109A	N163A	N164A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
11	M111A	N167A	N168A			RIGID	None	None	RIGID	Typical
12	MP4C	N176A	N175A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
13	M118A	N185A	N186A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
14	M120A	N189A	N190A			RIGID	None	None	RIGID	Typical
15	MP4B	N198A	N197A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
16	M127A	N207A	N208A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
17	M128A	N208A	N209A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
18	M129A	N209A	N105A			RIGID	None	None	RIGID	Typical
19	M130A	N212A	N210A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
20	M131A	N210A	N109			RIGID	None	None	RIGID	Typical
21	M132A	N214A	N215A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
22	M133A	N215A	N216A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
23	M134A	N216A	N161A			RIGID	None	None	RIGID	Typical
24	M135A	N218A	N217A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
25	M136A	N217A	N162A			RIGID	None	None	RIGID	Typical
26	M137A	N221A	N222A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
27	M138A	N222A	N223A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
28	M139A	N223A	N181A			RIGID	None	None	RIGID	Typical
29	M140A	N225A	N224A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
30	M141A	N224A	N182A			RIGID	None	None	RIGID	Typical
31	M142A	N226A	N227A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
32	M143A	N227A	N228A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
33	M144A	N228A	N183A			RIGID	None	None	RIGID	Typical
34	M145A	N230A	N229A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
35	M146A	N229A	N184A			RIGID	None	None	RIGID	Typical
36	M147A	N235A	N236A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
37	M148A	N236A	N237A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
38	M149A	N237A	N203A			RIGID	None	None	RIGID	Typical
39	M150A	N239A	N238A			Corner Plate	Beam	RECT	A36 Gr.36	Typical



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

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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
40	M151A	N238A	N204A			RIGID	None	None	RIGID	Typical
41	M152A	N240A	N241A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
42	M153A	N241A	N242A			Cross Arm Plate	Beam	RECT	A36 Gr.36	Typical
43	M154A	N242A	N205A			RIGID	None	None	RIGID	Typical
44	M155A	N244A	N243A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
45	M156A	N243A	N206A			RIGID	None	None	RIGID	Typical
46	M157A	N212A	N244A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
47	M158A	N239A	N230A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
48	M159A	N225A	N218A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
49	M160A	N207A	N268A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
50	M161A	N235A	N269A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
51	M162A	N221A	N270A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
52	M163A	N237B	N238B			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
53	M164A	N239B	N240B			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
54	M165A	N241B	N242B			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
55	M166A	N245A	N243B			RIGID	None	None	RIGID	Typical
56	M167A	N244B	N243B			RIGID	None	None	RIGID	Typical
57	M168A	N247A	N245A			RIGID	None	None	RIGID	Typical
58	M169A	N246A	N244B			RIGID	None	None	RIGID	Typical
59	M170A	N249A	N248A			RIGID	None	None	RIGID	Typical
60	M171A	N249A	N247A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
61	M172A	N252A	N251A			RIGID	None	None	RIGID	Typical
62	M173A	N252A	N246A		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
63	M174A	N255A	N253A			RIGID	None	None	RIGID	Typical
64	M175A	N254A	N252B			RIGID	None	None	RIGID	Typical
65	M176A	N257A	N256A			RIGID	None	None	RIGID	Typical
66	M177A	N257A	N255A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
67	M178A	N259A	N258A			RIGID	None	None	RIGID	Typical
68	M179A	N259A	N254A		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
69	M180A	N263A	N261A			RIGID	None	None	RIGID	Typical
70	M181A	N262A	N260A			RIGID	None	None	RIGID	Typical
71	M182A	N265A	N264A			RIGID	None	None	RIGID	Typical
72	M183A	N265A	N263A			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
73	M184A	N267A	N266A			RIGID	None	None	RIGID	Typical
74	M185A	N267A	N262A		270	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
75	M186A	N268A	N274A			RIGID	None	None	RIGID	Typical
76	M187A	N269A	N275A			RIGID	None	None	RIGID	Typical
77	M188A	N270A	N276A			RIGID	None	None	RIGID	Typical
78	M189A	N271A	N240A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
79	M190A	N272A	N226A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
80	M191A	N273A	N214A			Platform Cross...	Beam	SquareTube	A500 Gr.B...	Typical
81	M192A	N274A	N271A			RIGID	None	None	RIGID	Typical
82	M193A	N275A	N272A			RIGID	None	None	RIGID	Typical
83	M194A	N276A	N273A			RIGID	None	None	RIGID	Typical
84	M84	N114	N115			RIGID	None	None	RIGID	Typical
85	M85	N116	N117			RIGID	None	None	RIGID	Typical
86	M86	N118	N119			RIGID	None	None	RIGID	Typical
87	MP3C	N121	N120			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
88	MP2C	N123	N122			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
89	MP1C	N125	N124			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
90	M90	N126	N127			RIGID	None	None	RIGID	Typical
91	M91	N128	N129			RIGID	None	None	RIGID	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
92	M92	N130	N131			RIGID	None	None	RIGID	Typical
93	MP3B	N133	N132			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	MP2B	N135	N134			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
95	MP1B	N137	N136			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
96	M96	N253A	N138			RIGID	None	None	RIGID	Typical
97	M97	N252B	N138			RIGID	None	None	RIGID	Typical
98	M98	N261A	N141			RIGID	None	None	RIGID	Typical
99	M99	N260A	N141			RIGID	None	None	RIGID	Typical
100	M100	N142	N143			RIGID	None	None	RIGID	Typical
101	M101	N144	N145			RIGID	None	None	RIGID	Typical
102	M102	N146	N147			RIGID	None	None	RIGID	Typical
103	M103	N148	N149			RIGID	None	None	RIGID	Typical
104	M104	N141A	N140			Support Rail	Beam	Pipe	A53 Gr.B	Typical
105	M105	N152	N153			RIGID	None	None	RIGID	Typical
106	M106	N154	N155			RIGID	None	None	RIGID	Typical
107	M107	N156	N157			RIGID	None	None	RIGID	Typical
108	M108	N158	N159			RIGID	None	None	RIGID	Typical
109	M109	N151	N150			Support Rail	Beam	Pipe	A53 Gr.B	Typical
110	M110	N162	N163			RIGID	None	None	RIGID	Typical
111	M111	N164	N165			RIGID	None	None	RIGID	Typical
112	M112	N166	N167			RIGID	None	None	RIGID	Typical
113	M113	N168	N169			RIGID	None	None	RIGID	Typical
114	M114	N161	N160			Support Rail	Beam	Pipe	A53 Gr.B	Typical
115	M115	N191	N180		180	Connector Angle	Beam	Single Angle	A36 Gr.36	Typical
116	M116	N181B	N185B		180	Connector Angle	Beam	Single Angle	A36 Gr.36	Typical
117	M117	N186	N190		180	Connector Angle	Beam	Single Angle	A36 Gr.36	Typical
118	OVP	N178	N179			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
119	M119	N176	N177			RIGID	None	None	RIGID	Typical
120	M120	N170	N180			RIGID	None	None	RIGID	Typical
121	M121	N181	N181B			RIGID	None	None	RIGID	Typical
122	M122	N170	N180			RIGID	None	None	RIGID	Typical
123	M123	N181	N181B			RIGID	None	None	RIGID	Typical
124	M124	N182	N185B			RIGID	None	None	RIGID	Typical
125	M125	N183	N186			RIGID	None	None	RIGID	Typical
126	M126	N182	N185B			RIGID	None	None	RIGID	Typical
127	M127	N183	N186			RIGID	None	None	RIGID	Typical
128	M128	N184	N190			RIGID	None	None	RIGID	Typical
129	M129	N185	N191			RIGID	None	None	RIGID	Typical
130	M130	N184	N190			RIGID	None	None	RIGID	Typical
131	M131	N185	N191			RIGID	None	None	RIGID	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	Default			None
2	M19						Yes	** NA **			None
3	M20						Yes	** NA **			None
4	M21						Yes	** NA **			None
5	M22						Yes	** NA **			None
6	MP3A						Yes	** NA **			None
7	MP4A						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...
8	MP2A						Yes	** NA **			None
9	MP1A						Yes	** NA **			None
10	M109A						Yes	Default			None
11	M111A						Yes	** NA **			None
12	MP4C						Yes	** NA **			None
13	M118A						Yes	Default			None
14	M120A						Yes	** NA **			None
15	MP4B						Yes	** NA **			None
16	M127A						Yes				None
17	M128A						Yes				None
18	M129A		BenPIN				Yes	** NA **			None
19	M130A						Yes				None
20	M131A		BenPIN				Yes	** NA **			None
21	M132A						Yes				None
22	M133A						Yes				None
23	M134A		BenPIN				Yes	** NA **			None
24	M135A						Yes				None
25	M136A		BenPIN				Yes	** NA **			None
26	M137A						Yes				None
27	M138A						Yes				None
28	M139A		BenPIN				Yes	** NA **			None
29	M140A						Yes				None
30	M141A		BenPIN				Yes	** NA **			None
31	M142A						Yes				None
32	M143A						Yes				None
33	M144A		BenPIN				Yes	** NA **			None
34	M145A						Yes				None
35	M146A		BenPIN				Yes	** NA **			None
36	M147A						Yes				None
37	M148A						Yes				None
38	M149A		BenPIN				Yes	** NA **			None
39	M150A						Yes				None
40	M151A		BenPIN				Yes	** NA **			None
41	M152A						Yes				None
42	M153A						Yes				None
43	M154A		BenPIN				Yes	** NA **			None
44	M155A						Yes				None
45	M156A		BenPIN				Yes	** NA **			None
46	M157A						Yes				None
47	M158A						Yes				None
48	M159A						Yes				None
49	M160A						Yes				None
50	M161A						Yes				None
51	M162A						Yes				None
52	M163A						Yes				None
53	M164A						Yes				None
54	M165A						Yes				None
55	M166A						Yes	** NA **			None
56	M167A						Yes	** NA **			None
57	M168A						Yes	** NA **			None
58	M169A						Yes	** NA **			None
59	M170A						Yes	** NA **			None



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 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
60	M171A	OOOOOX	OOOOOX				Yes				None
61	M172A						Yes	** NA **			None
62	M173A	OOOOXO	OOOOXO				Yes				None
63	M174A						Yes	** NA **			None
64	M175A						Yes	** NA **			None
65	M176A						Yes	** NA **			None
66	M177A	OOOOOX	OOOOOX				Yes				None
67	M178A						Yes	** NA **			None
68	M179A	OOOOXO	OOOOXO				Yes				None
69	M180A						Yes	** NA **			None
70	M181A						Yes	** NA **			None
71	M182A						Yes	** NA **			None
72	M183A	OOOOOX	OOOOOX				Yes				None
73	M184A						Yes	** NA **			None
74	M185A	OOOOXO	OOOOXO				Yes				None
75	M186A						Yes	** NA **			None
76	M187A						Yes	** NA **			None
77	M188A						Yes	** NA **			None
78	M189A						Yes				None
79	M190A						Yes				None
80	M191A						Yes				None
81	M192A						Yes	** NA **			None
82	M193A						Yes	** NA **			None
83	M194A						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	MP3C						Yes	** NA **			None
88	MP2C						Yes	** NA **			None
89	MP1C						Yes	** NA **			None
90	M90						Yes	** NA **			None
91	M91						Yes	** NA **			None
92	M92						Yes	** NA **			None
93	MP3B						Yes	** NA **			None
94	MP2B						Yes	** NA **			None
95	MP1B						Yes	** NA **			None
96	M96						Yes	** NA **			None
97	M97						Yes	** NA **			None
98	M98						Yes	** NA **			None
99	M99						Yes	** NA **			None
100	M100						Yes	** NA **			None
101	M101						Yes	** NA **			None
102	M102						Yes	** NA **			None
103	M103						Yes	** NA **			None
104	M104						Yes				None
105	M105						Yes	** NA **			None
106	M106						Yes	** NA **			None
107	M107						Yes	** NA **			None
108	M108						Yes	** NA **			None
109	M109						Yes				None
110	M110						Yes	** NA **			None
111	M111						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...
112	M112						Yes	** NA **			None
113	M113						Yes	** NA **			None
114	M114						Yes				None
115	M115						Yes				None
116	M116						Yes				None
117	M117						Yes				None
118	OVP						Yes	** NA **			None
119	M119						Yes	** NA **			None
120	M120	OOOOOX					Yes	** NA **			None
121	M121	OOOOOX					Yes	** NA **			None
122	M122	OOOOOX					Yes	** NA **			None
123	M123	OOOOOX					Yes	** NA **			None
124	M124	OOOOOX					Yes	** NA **			None
125	M125	OOOOOX					Yes	** NA **			None
126	M126	OOOOOX					Yes	** NA **			None
127	M127	OOOOOX					Yes	** NA **			None
128	M128	OOOOOX					Yes	** NA **			None
129	M129	OOOOOX					Yes	** NA **			None
130	M130	OOOOOX					Yes	** NA **			None
131	M131	OOOOOX					Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	Y	-10.5	.25
2	MP1A	My	-.005	.25
3	MP1A	Mz	0	.25
4	MP1A	Y	-10.5	4.75
5	MP1A	My	-.005	4.75
6	MP1A	Mz	0	4.75
7	MP1B	Y	-10.5	.25
8	MP1B	My	.003	.25
9	MP1B	Mz	-.005	.25
10	MP1B	Y	-10.5	4.75
11	MP1B	My	.003	4.75
12	MP1B	Mz	-.005	4.75
13	MP1C	Y	-10.5	.25
14	MP1C	My	.003	.25
15	MP1C	Mz	.005	.25
16	MP1C	Y	-10.5	4.75
17	MP1C	My	.003	4.75
18	MP1C	Mz	.005	4.75
19	MP4A	Y	-10.5	.25
20	MP4A	My	-.005	.25
21	MP4A	Mz	0	.25
22	MP4A	Y	-10.5	4.75
23	MP4A	My	-.005	4.75
24	MP4A	Mz	0	4.75
25	MP4B	Y	-10.5	.25
26	MP4B	My	.003	.25
27	MP4B	Mz	-.005	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP4B	Y	-10.5	4.75
29	MP4B	My	.003	4.75
30	MP4B	Mz	-.005	4.75
31	MP4C	Y	-10.5	.25
32	MP4C	My	.003	.25
33	MP4C	Mz	.005	.25
34	MP4C	Y	-10.5	4.75
35	MP4C	My	.003	4.75
36	MP4C	Mz	.005	4.75
37	MP2A	Y	-21.85	.25
38	MP2A	My	-.011	.25
39	MP2A	Mz	.013	.25
40	MP2A	Y	-21.85	4.75
41	MP2A	My	-.011	4.75
42	MP2A	Mz	.013	4.75
43	MP2B	Y	-21.85	.25
44	MP2B	My	-.006	.25
45	MP2B	Mz	-.016	.25
46	MP2B	Y	-21.85	4.75
47	MP2B	My	-.006	4.75
48	MP2B	Mz	-.016	4.75
49	MP2C	Y	-21.85	.25
50	MP2C	My	.017	.25
51	MP2C	Mz	.003	.25
52	MP2C	Y	-21.85	4.75
53	MP2C	My	.017	4.75
54	MP2C	Mz	.003	4.75
55	MP2A	Y	-21.85	.25
56	MP2A	My	-.011	.25
57	MP2A	Mz	-.013	.25
58	MP2A	Y	-21.85	4.75
59	MP2A	My	-.011	4.75
60	MP2A	Mz	-.013	4.75
61	MP2B	Y	-21.85	.25
62	MP2B	My	.017	.25
63	MP2B	Mz	-.003	.25
64	MP2B	Y	-21.85	4.75
65	MP2B	My	.017	4.75
66	MP2B	Mz	-.003	4.75
67	MP2C	Y	-21.85	.25
68	MP2C	My	-.006	.25
69	MP2C	Mz	.016	.25
70	MP2C	Y	-21.85	4.75
71	MP2C	My	-.006	4.75
72	MP2C	Mz	.016	4.75
73	MP3A	Y	-43.55	1
74	MP3A	My	-.022	1
75	MP3A	Mz	0	1
76	MP3A	Y	-43.55	3
77	MP3A	My	-.022	3
78	MP3A	Mz	0	3
79	MP3B	Y	-43.55	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP3B	My	.011	1
81	MP3B	Mz	-.019	1
82	MP3B	Y	-43.55	3
83	MP3B	My	.011	3
84	MP3B	Mz	-.019	3
85	MP3C	Y	-43.55	1
86	MP3C	My	.011	1
87	MP3C	Mz	.019	1
88	MP3C	Y	-43.55	3
89	MP3C	My	.011	3
90	MP3C	Mz	.019	3
91	OVP	Y	-32	1
92	OVP	My	0	1
93	OVP	Mz	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-59.989	.25
2	MP1A	My	-.03	.25
3	MP1A	Mz	0	.25
4	MP1A	Y	-59.989	4.75
5	MP1A	My	-.03	4.75
6	MP1A	Mz	0	4.75
7	MP1B	Y	-59.989	.25
8	MP1B	My	.015	.25
9	MP1B	Mz	-.026	.25
10	MP1B	Y	-59.989	4.75
11	MP1B	My	.015	4.75
12	MP1B	Mz	-.026	4.75
13	MP1C	Y	-59.989	.25
14	MP1C	My	.015	.25
15	MP1C	Mz	.026	.25
16	MP1C	Y	-59.989	4.75
17	MP1C	My	.015	4.75
18	MP1C	Mz	.026	4.75
19	MP4A	Y	-59.989	.25
20	MP4A	My	-.03	.25
21	MP4A	Mz	0	.25
22	MP4A	Y	-59.989	4.75
23	MP4A	My	-.03	4.75
24	MP4A	Mz	0	4.75
25	MP4B	Y	-59.989	.25
26	MP4B	My	.015	.25
27	MP4B	Mz	-.026	.25
28	MP4B	Y	-59.989	4.75
29	MP4B	My	.015	4.75
30	MP4B	Mz	-.026	4.75
31	MP4C	Y	-59.989	.25
32	MP4C	My	.015	.25
33	MP4C	Mz	.026	.25
34	MP4C	Y	-59.989	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4C	My	.015	4.75
36	MP4C	Mz	.026	4.75
37	MP2A	Y	-62.875	.25
38	MP2A	My	-.031	.25
39	MP2A	Mz	.037	.25
40	MP2A	Y	-62.875	4.75
41	MP2A	My	-.031	4.75
42	MP2A	Mz	.037	4.75
43	MP2B	Y	-62.875	.25
44	MP2B	My	-.016	.25
45	MP2B	Mz	-.046	.25
46	MP2B	Y	-62.875	4.75
47	MP2B	My	-.016	4.75
48	MP2B	Mz	-.046	4.75
49	MP2C	Y	-62.875	.25
50	MP2C	My	.047	.25
51	MP2C	Mz	.009	.25
52	MP2C	Y	-62.875	4.75
53	MP2C	My	.047	4.75
54	MP2C	Mz	.009	4.75
55	MP2A	Y	-62.875	.25
56	MP2A	My	-.031	.25
57	MP2A	Mz	-.037	.25
58	MP2A	Y	-62.875	4.75
59	MP2A	My	-.031	4.75
60	MP2A	Mz	-.037	4.75
61	MP2B	Y	-62.875	.25
62	MP2B	My	.047	.25
63	MP2B	Mz	-.009	.25
64	MP2B	Y	-62.875	4.75
65	MP2B	My	.047	4.75
66	MP2B	Mz	-.009	4.75
67	MP2C	Y	-62.875	.25
68	MP2C	My	-.016	.25
69	MP2C	Mz	.046	.25
70	MP2C	Y	-62.875	4.75
71	MP2C	My	-.016	4.75
72	MP2C	Mz	.046	4.75
73	MP3A	Y	-36.539	1
74	MP3A	My	-.018	1
75	MP3A	Mz	0	1
76	MP3A	Y	-36.539	3
77	MP3A	My	-.018	3
78	MP3A	Mz	0	3
79	MP3B	Y	-36.539	1
80	MP3B	My	.009	1
81	MP3B	Mz	-.016	1
82	MP3B	Y	-36.539	3
83	MP3B	My	.009	3
84	MP3B	Mz	-.016	3
85	MP3C	Y	-36.539	1
86	MP3C	My	.009	1



Company : Maser Consulting
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Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP3C	Mz	.016	1
88	MP3C	Y	-36.539	3
89	MP3C	My	.009	3
90	MP3C	Mz	.016	3
91	OVP	Y	-90.159	1
92	OVP	My	0	1
93	OVP	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.25
2	MP1A	Z	-86.08	.25
3	MP1A	Mx	0	.25
4	MP1A	X	0	4.75
5	MP1A	Z	-86.08	4.75
6	MP1A	Mx	0	4.75
7	MP1B	X	0	.25
8	MP1B	Z	-150.167	.25
9	MP1B	Mx	.065	.25
10	MP1B	X	0	4.75
11	MP1B	Z	-150.167	4.75
12	MP1B	Mx	.065	4.75
13	MP1C	X	0	.25
14	MP1C	Z	-150.167	.25
15	MP1C	Mx	-.065	.25
16	MP1C	X	0	4.75
17	MP1C	Z	-150.167	4.75
18	MP1C	Mx	-.065	4.75
19	MP4A	X	0	.25
20	MP4A	Z	-86.08	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	4.75
23	MP4A	Z	-86.08	4.75
24	MP4A	Mx	0	4.75
25	MP4B	X	0	.25
26	MP4B	Z	-150.167	.25
27	MP4B	Mx	.065	.25
28	MP4B	X	0	4.75
29	MP4B	Z	-150.167	4.75
30	MP4B	Mx	.065	4.75
31	MP4C	X	0	.25
32	MP4C	Z	-150.167	.25
33	MP4C	Mx	-.065	.25
34	MP4C	X	0	4.75
35	MP4C	Z	-150.167	4.75
36	MP4C	Mx	-.065	4.75
37	MP2A	X	0	.25
38	MP2A	Z	-162.418	.25
39	MP2A	Mx	-.095	.25
40	MP2A	X	0	4.75
41	MP2A	Z	-162.418	4.75



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

June 15, 2021
 9:53 AM
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Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP2A	Mx	-.095	4.75
43	MP2B	X	0	.25
44	MP2B	Z	-121.47	.25
45	MP2B	Mx	.088	.25
46	MP2B	X	0	4.75
47	MP2B	Z	-121.47	4.75
48	MP2B	Mx	.088	4.75
49	MP2C	X	0	.25
50	MP2C	Z	-121.47	.25
51	MP2C	Mx	-.017	.25
52	MP2C	X	0	4.75
53	MP2C	Z	-121.47	4.75
54	MP2C	Mx	-.017	4.75
55	MP2A	X	0	.25
56	MP2A	Z	-162.418	.25
57	MP2A	Mx	.095	.25
58	MP2A	X	0	4.75
59	MP2A	Z	-162.418	4.75
60	MP2A	Mx	.095	4.75
61	MP2B	X	0	.25
62	MP2B	Z	-121.47	.25
63	MP2B	Mx	.017	.25
64	MP2B	X	0	4.75
65	MP2B	Z	-121.47	4.75
66	MP2B	Mx	.017	4.75
67	MP2C	X	0	.25
68	MP2C	Z	-121.47	.25
69	MP2C	Mx	-.088	.25
70	MP2C	X	0	4.75
71	MP2C	Z	-121.47	4.75
72	MP2C	Mx	-.088	4.75
73	MP3A	X	0	1
74	MP3A	Z	-93.435	1
75	MP3A	Mx	0	1
76	MP3A	X	0	3
77	MP3A	Z	-93.435	3
78	MP3A	Mx	0	3
79	MP3B	X	0	1
80	MP3B	Z	-50.794	1
81	MP3B	Mx	.022	1
82	MP3B	X	0	3
83	MP3B	Z	-50.794	3
84	MP3B	Mx	.022	3
85	MP3C	X	0	1
86	MP3C	Z	-50.794	1
87	MP3C	Mx	-.022	1
88	MP3C	X	0	3
89	MP3C	Z	-50.794	3
90	MP3C	Mx	-.022	3
91	OVP	X	0	1
92	OVP	Z	-161.424	1
93	OVP	Mx	0	1



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	53.721	.25
2	MP1A	Z	-93.048	.25
3	MP1A	Mx	-.027	.25
4	MP1A	X	53.721	4.75
5	MP1A	Z	-93.048	4.75
6	MP1A	Mx	-.027	4.75
7	MP1B	X	85.765	.25
8	MP1B	Z	-148.549	.25
9	MP1B	Mx	.086	.25
10	MP1B	X	85.765	4.75
11	MP1B	Z	-148.549	4.75
12	MP1B	Mx	.086	4.75
13	MP1C	X	53.721	.25
14	MP1C	Z	-93.048	.25
15	MP1C	Mx	-.027	.25
16	MP1C	X	53.721	4.75
17	MP1C	Z	-93.048	4.75
18	MP1C	Mx	-.027	4.75
19	MP4A	X	53.721	.25
20	MP4A	Z	-93.048	.25
21	MP4A	Mx	-.027	.25
22	MP4A	X	53.721	4.75
23	MP4A	Z	-93.048	4.75
24	MP4A	Mx	-.027	4.75
25	MP4B	X	85.765	.25
26	MP4B	Z	-148.549	.25
27	MP4B	Mx	.086	.25
28	MP4B	X	85.765	4.75
29	MP4B	Z	-148.549	4.75
30	MP4B	Mx	.086	4.75
31	MP4C	X	53.721	.25
32	MP4C	Z	-93.048	.25
33	MP4C	Mx	-.027	.25
34	MP4C	X	53.721	4.75
35	MP4C	Z	-93.048	4.75
36	MP4C	Mx	-.027	4.75
37	MP2A	X	74.384	.25
38	MP2A	Z	-128.837	.25
39	MP2A	Mx	-.112	.25
40	MP2A	X	74.384	4.75
41	MP2A	Z	-128.837	4.75
42	MP2A	Mx	-.112	4.75
43	MP2B	X	53.91	.25
44	MP2B	Z	-93.375	.25
45	MP2B	Mx	.054	.25
46	MP2B	X	53.91	4.75
47	MP2B	Z	-93.375	4.75
48	MP2B	Mx	.054	4.75
49	MP2C	X	74.384	.25
50	MP2C	Z	-128.837	.25
51	MP2C	Mx	.038	.25
52	MP2C	X	74.384	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	-128.837	4.75
54	MP2C	Mx	.038	4.75
55	MP2A	X	74.384	.25
56	MP2A	Z	-128.837	.25
57	MP2A	Mx	.038	.25
58	MP2A	X	74.384	4.75
59	MP2A	Z	-128.837	4.75
60	MP2A	Mx	.038	4.75
61	MP2B	X	53.91	.25
62	MP2B	Z	-93.375	.25
63	MP2B	Mx	.054	.25
64	MP2B	X	53.91	4.75
65	MP2B	Z	-93.375	4.75
66	MP2B	Mx	.054	4.75
67	MP2C	X	74.384	.25
68	MP2C	Z	-128.837	.25
69	MP2C	Mx	-.112	.25
70	MP2C	X	74.384	4.75
71	MP2C	Z	-128.837	4.75
72	MP2C	Mx	-.112	4.75
73	MP3A	X	39.611	1
74	MP3A	Z	-68.608	1
75	MP3A	Mx	-.02	1
76	MP3A	X	39.611	3
77	MP3A	Z	-68.608	3
78	MP3A	Mx	-.02	3
79	MP3B	X	18.29	1
80	MP3B	Z	-31.679	1
81	MP3B	Mx	.018	1
82	MP3B	X	18.29	3
83	MP3B	Z	-31.679	3
84	MP3B	Mx	.018	3
85	MP3C	X	39.611	1
86	MP3C	Z	-68.608	1
87	MP3C	Mx	-.02	1
88	MP3C	X	39.611	3
89	MP3C	Z	-68.608	3
90	MP3C	Mx	-.02	3
91	OVP	X	75.928	1
92	OVP	Z	-131.512	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	130.049	.25
2	MP1A	Z	-75.084	.25
3	MP1A	Mx	-.065	.25
4	MP1A	X	130.049	4.75
5	MP1A	Z	-75.084	4.75
6	MP1A	Mx	-.065	4.75
7	MP1B	X	130.049	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	-75.084	.25
9	MP1B	Mx	.065	.25
10	MP1B	X	130.049	4.75
11	MP1B	Z	-75.084	4.75
12	MP1B	Mx	.065	4.75
13	MP1C	X	74.547	.25
14	MP1C	Z	-43.04	.25
15	MP1C	Mx	0	.25
16	MP1C	X	74.547	4.75
17	MP1C	Z	-43.04	4.75
18	MP1C	Mx	0	4.75
19	MP4A	X	130.049	.25
20	MP4A	Z	-75.084	.25
21	MP4A	Mx	-.065	.25
22	MP4A	X	130.049	4.75
23	MP4A	Z	-75.084	4.75
24	MP4A	Mx	-.065	4.75
25	MP4B	X	130.049	.25
26	MP4B	Z	-75.084	.25
27	MP4B	Mx	.065	.25
28	MP4B	X	130.049	4.75
29	MP4B	Z	-75.084	4.75
30	MP4B	Mx	.065	4.75
31	MP4C	X	74.547	.25
32	MP4C	Z	-43.04	.25
33	MP4C	Mx	0	.25
34	MP4C	X	74.547	4.75
35	MP4C	Z	-43.04	4.75
36	MP4C	Mx	0	4.75
37	MP2A	X	105.196	.25
38	MP2A	Z	-60.735	.25
39	MP2A	Mx	-.088	.25
40	MP2A	X	105.196	4.75
41	MP2A	Z	-60.735	4.75
42	MP2A	Mx	-.088	4.75
43	MP2B	X	105.196	.25
44	MP2B	Z	-60.735	.25
45	MP2B	Mx	.017	.25
46	MP2B	X	105.196	4.75
47	MP2B	Z	-60.735	4.75
48	MP2B	Mx	.017	4.75
49	MP2C	X	140.658	.25
50	MP2C	Z	-81.209	.25
51	MP2C	Mx	.095	.25
52	MP2C	X	140.658	4.75
53	MP2C	Z	-81.209	4.75
54	MP2C	Mx	.095	4.75
55	MP2A	X	105.196	.25
56	MP2A	Z	-60.735	.25
57	MP2A	Mx	-.017	.25
58	MP2A	X	105.196	4.75
59	MP2A	Z	-60.735	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	-.017	4.75
61	MP2B	X	105.196	.25
62	MP2B	Z	-60.735	.25
63	MP2B	Mx	.088	.25
64	MP2B	X	105.196	4.75
65	MP2B	Z	-60.735	4.75
66	MP2B	Mx	.088	4.75
67	MP2C	X	140.658	.25
68	MP2C	Z	-81.209	.25
69	MP2C	Mx	-.095	.25
70	MP2C	X	140.658	4.75
71	MP2C	Z	-81.209	4.75
72	MP2C	Mx	-.095	4.75
73	MP3A	X	43.988	1
74	MP3A	Z	-25.397	1
75	MP3A	Mx	-.022	1
76	MP3A	X	43.988	3
77	MP3A	Z	-25.397	3
78	MP3A	Mx	-.022	3
79	MP3B	X	43.988	1
80	MP3B	Z	-25.397	1
81	MP3B	Mx	.022	1
82	MP3B	X	43.988	3
83	MP3B	Z	-25.397	3
84	MP3B	Mx	.022	3
85	MP3C	X	80.917	1
86	MP3C	Z	-46.718	1
87	MP3C	Mx	0	1
88	MP3C	X	80.917	3
89	MP3C	Z	-46.718	3
90	MP3C	Mx	0	3
91	OVP	X	114.941	1
92	OVP	Z	-66.361	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	171.53	.25
2	MP1A	Z	0	.25
3	MP1A	Mx	-.086	.25
4	MP1A	X	171.53	4.75
5	MP1A	Z	0	4.75
6	MP1A	Mx	-.086	4.75
7	MP1B	X	107.442	.25
8	MP1B	Z	0	.25
9	MP1B	Mx	.027	.25
10	MP1B	X	107.442	4.75
11	MP1B	Z	0	4.75
12	MP1B	Mx	.027	4.75
13	MP1C	X	107.442	.25
14	MP1C	Z	0	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	.027	.25
16	MP1C	X	107.442	4.75
17	MP1C	Z	0	4.75
18	MP1C	Mx	.027	4.75
19	MP4A	X	171.53	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	-.086	.25
22	MP4A	X	171.53	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	-.086	4.75
25	MP4B	X	107.442	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	.027	.25
28	MP4B	X	107.442	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	.027	4.75
31	MP4C	X	107.442	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	.027	.25
34	MP4C	X	107.442	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	.027	4.75
37	MP2A	X	107.821	.25
38	MP2A	Z	0	.25
39	MP2A	Mx	-.054	.25
40	MP2A	X	107.821	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	-.054	4.75
43	MP2B	X	148.769	.25
44	MP2B	Z	0	.25
45	MP2B	Mx	-.038	.25
46	MP2B	X	148.769	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	-.038	4.75
49	MP2C	X	148.769	.25
50	MP2C	Z	0	.25
51	MP2C	Mx	.112	.25
52	MP2C	X	148.769	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	.112	4.75
55	MP2A	X	107.821	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	-.054	.25
58	MP2A	X	107.821	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	-.054	4.75
61	MP2B	X	148.769	.25
62	MP2B	Z	0	.25
63	MP2B	Mx	.112	.25
64	MP2B	X	148.769	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	.112	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	X	148.769	.25
68	MP2C	Z	0	.25
69	MP2C	Mx	-.038	.25
70	MP2C	X	148.769	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	-.038	4.75
73	MP3A	X	36.58	1
74	MP3A	Z	0	1
75	MP3A	Mx	-.018	1
76	MP3A	X	36.58	3
77	MP3A	Z	0	3
78	MP3A	Mx	-.018	3
79	MP3B	X	79.221	1
80	MP3B	Z	0	1
81	MP3B	Mx	.02	1
82	MP3B	X	79.221	3
83	MP3B	Z	0	3
84	MP3B	Mx	.02	3
85	MP3C	X	79.221	1
86	MP3C	Z	0	1
87	MP3C	Mx	.02	1
88	MP3C	X	79.221	3
89	MP3C	Z	0	3
90	MP3C	Mx	.02	3
91	OVP	X	123.155	1
92	OVP	Z	0	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	130.049	.25
2	MP1A	Z	75.084	.25
3	MP1A	Mx	-.065	.25
4	MP1A	X	130.049	4.75
5	MP1A	Z	75.084	4.75
6	MP1A	Mx	-.065	4.75
7	MP1B	X	74.547	.25
8	MP1B	Z	43.04	.25
9	MP1B	Mx	0	.25
10	MP1B	X	74.547	4.75
11	MP1B	Z	43.04	4.75
12	MP1B	Mx	0	4.75
13	MP1C	X	130.049	.25
14	MP1C	Z	75.084	.25
15	MP1C	Mx	.065	.25
16	MP1C	X	130.049	4.75
17	MP1C	Z	75.084	4.75
18	MP1C	Mx	.065	4.75
19	MP4A	X	130.049	.25
20	MP4A	Z	75.084	.25
21	MP4A	Mx	-.065	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	130.049	4.75
23	MP4A	Z	75.084	4.75
24	MP4A	Mx	-.065	4.75
25	MP4B	X	74.547	.25
26	MP4B	Z	43.04	.25
27	MP4B	Mx	0	.25
28	MP4B	X	74.547	4.75
29	MP4B	Z	43.04	4.75
30	MP4B	Mx	0	4.75
31	MP4C	X	130.049	.25
32	MP4C	Z	75.084	.25
33	MP4C	Mx	.065	.25
34	MP4C	X	130.049	4.75
35	MP4C	Z	75.084	4.75
36	MP4C	Mx	.065	4.75
37	MP2A	X	105.196	.25
38	MP2A	Z	60.735	.25
39	MP2A	Mx	-.017	.25
40	MP2A	X	105.196	4.75
41	MP2A	Z	60.735	4.75
42	MP2A	Mx	-.017	4.75
43	MP2B	X	140.658	.25
44	MP2B	Z	81.209	.25
45	MP2B	Mx	-.095	.25
46	MP2B	X	140.658	4.75
47	MP2B	Z	81.209	4.75
48	MP2B	Mx	-.095	4.75
49	MP2C	X	105.196	.25
50	MP2C	Z	60.735	.25
51	MP2C	Mx	.088	.25
52	MP2C	X	105.196	4.75
53	MP2C	Z	60.735	4.75
54	MP2C	Mx	.088	4.75
55	MP2A	X	105.196	.25
56	MP2A	Z	60.735	.25
57	MP2A	Mx	-.088	.25
58	MP2A	X	105.196	4.75
59	MP2A	Z	60.735	4.75
60	MP2A	Mx	-.088	4.75
61	MP2B	X	140.658	.25
62	MP2B	Z	81.209	.25
63	MP2B	Mx	.095	.25
64	MP2B	X	140.658	4.75
65	MP2B	Z	81.209	4.75
66	MP2B	Mx	.095	4.75
67	MP2C	X	105.196	.25
68	MP2C	Z	60.735	.25
69	MP2C	Mx	.017	.25
70	MP2C	X	105.196	4.75
71	MP2C	Z	60.735	4.75
72	MP2C	Mx	.017	4.75
73	MP3A	X	43.988	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
74	MP3A	Z	25.397	1
75	MP3A	Mx	-.022	1
76	MP3A	X	43.988	3
77	MP3A	Z	25.397	3
78	MP3A	Mx	-.022	3
79	MP3B	X	80.917	1
80	MP3B	Z	46.718	1
81	MP3B	Mx	0	1
82	MP3B	X	80.917	3
83	MP3B	Z	46.718	3
84	MP3B	Mx	0	3
85	MP3C	X	43.988	1
86	MP3C	Z	25.397	1
87	MP3C	Mx	.022	1
88	MP3C	X	43.988	3
89	MP3C	Z	25.397	3
90	MP3C	Mx	.022	3
91	OVP	X	114.941	1
92	OVP	Z	66.361	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	53.721	.25
2	MP1A	Z	93.048	.25
3	MP1A	Mx	-.027	.25
4	MP1A	X	53.721	4.75
5	MP1A	Z	93.048	4.75
6	MP1A	Mx	-.027	4.75
7	MP1B	X	53.721	.25
8	MP1B	Z	93.048	.25
9	MP1B	Mx	-.027	.25
10	MP1B	X	53.721	4.75
11	MP1B	Z	93.048	4.75
12	MP1B	Mx	-.027	4.75
13	MP1C	X	85.765	.25
14	MP1C	Z	148.549	.25
15	MP1C	Mx	.086	.25
16	MP1C	X	85.765	4.75
17	MP1C	Z	148.549	4.75
18	MP1C	Mx	.086	4.75
19	MP4A	X	53.721	.25
20	MP4A	Z	93.048	.25
21	MP4A	Mx	-.027	.25
22	MP4A	X	53.721	4.75
23	MP4A	Z	93.048	4.75
24	MP4A	Mx	-.027	4.75
25	MP4B	X	53.721	.25
26	MP4B	Z	93.048	.25
27	MP4B	Mx	-.027	.25
28	MP4B	X	53.721	4.75



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4B	Z	93.048	4.75
30	MP4B	Mx	-.027	4.75
31	MP4C	X	85.765	.25
32	MP4C	Z	148.549	.25
33	MP4C	Mx	.086	.25
34	MP4C	X	85.765	4.75
35	MP4C	Z	148.549	4.75
36	MP4C	Mx	.086	4.75
37	MP2A	X	74.384	.25
38	MP2A	Z	128.837	.25
39	MP2A	Mx	.038	.25
40	MP2A	X	74.384	4.75
41	MP2A	Z	128.837	4.75
42	MP2A	Mx	.038	4.75
43	MP2B	X	74.384	.25
44	MP2B	Z	128.837	.25
45	MP2B	Mx	-.112	.25
46	MP2B	X	74.384	4.75
47	MP2B	Z	128.837	4.75
48	MP2B	Mx	-.112	4.75
49	MP2C	X	53.91	.25
50	MP2C	Z	93.375	.25
51	MP2C	Mx	.054	.25
52	MP2C	X	53.91	4.75
53	MP2C	Z	93.375	4.75
54	MP2C	Mx	.054	4.75
55	MP2A	X	74.384	.25
56	MP2A	Z	128.837	.25
57	MP2A	Mx	-.112	.25
58	MP2A	X	74.384	4.75
59	MP2A	Z	128.837	4.75
60	MP2A	Mx	-.112	4.75
61	MP2B	X	74.384	.25
62	MP2B	Z	128.837	.25
63	MP2B	Mx	.038	.25
64	MP2B	X	74.384	4.75
65	MP2B	Z	128.837	4.75
66	MP2B	Mx	.038	4.75
67	MP2C	X	53.91	.25
68	MP2C	Z	93.375	.25
69	MP2C	Mx	.054	.25
70	MP2C	X	53.91	4.75
71	MP2C	Z	93.375	4.75
72	MP2C	Mx	.054	4.75
73	MP3A	X	39.611	1
74	MP3A	Z	68.608	1
75	MP3A	Mx	-.02	1
76	MP3A	X	39.611	3
77	MP3A	Z	68.608	3
78	MP3A	Mx	-.02	3
79	MP3B	X	39.611	1
80	MP3B	Z	68.608	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP3B	Mx	-.02	1
82	MP3B	X	39.611	3
83	MP3B	Z	68.608	3
84	MP3B	Mx	-.02	3
85	MP3C	X	18.29	1
86	MP3C	Z	31.679	1
87	MP3C	Mx	.018	1
88	MP3C	X	18.29	3
89	MP3C	Z	31.679	3
90	MP3C	Mx	.018	3
91	OVP	X	75.928	1
92	OVP	Z	131.512	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.25
2	MP1A	Z	86.08	.25
3	MP1A	Mx	0	.25
4	MP1A	X	0	4.75
5	MP1A	Z	86.08	4.75
6	MP1A	Mx	0	4.75
7	MP1B	X	0	.25
8	MP1B	Z	150.167	.25
9	MP1B	Mx	-.065	.25
10	MP1B	X	0	4.75
11	MP1B	Z	150.167	4.75
12	MP1B	Mx	-.065	4.75
13	MP1C	X	0	.25
14	MP1C	Z	150.167	.25
15	MP1C	Mx	.065	.25
16	MP1C	X	0	4.75
17	MP1C	Z	150.167	4.75
18	MP1C	Mx	.065	4.75
19	MP4A	X	0	.25
20	MP4A	Z	86.08	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	4.75
23	MP4A	Z	86.08	4.75
24	MP4A	Mx	0	4.75
25	MP4B	X	0	.25
26	MP4B	Z	150.167	.25
27	MP4B	Mx	-.065	.25
28	MP4B	X	0	4.75
29	MP4B	Z	150.167	4.75
30	MP4B	Mx	-.065	4.75
31	MP4C	X	0	.25
32	MP4C	Z	150.167	.25
33	MP4C	Mx	.065	.25
34	MP4C	X	0	4.75
35	MP4C	Z	150.167	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP3C	X	0	3
89	MP3C	Z	50.794	3
90	MP3C	Mx	.022	3
91	OVP	X	0	1
92	OVP	Z	161.424	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-53.721	.25
2	MP1A	Z	93.048	.25
3	MP1A	Mx	.027	.25
4	MP1A	X	-53.721	4.75
5	MP1A	Z	93.048	4.75
6	MP1A	Mx	.027	4.75
7	MP1B	X	-85.765	.25
8	MP1B	Z	148.549	.25
9	MP1B	Mx	-.086	.25
10	MP1B	X	-85.765	4.75
11	MP1B	Z	148.549	4.75
12	MP1B	Mx	-.086	4.75
13	MP1C	X	-53.721	.25
14	MP1C	Z	93.048	.25
15	MP1C	Mx	.027	.25
16	MP1C	X	-53.721	4.75
17	MP1C	Z	93.048	4.75
18	MP1C	Mx	.027	4.75
19	MP4A	X	-53.721	.25
20	MP4A	Z	93.048	.25
21	MP4A	Mx	.027	.25
22	MP4A	X	-53.721	4.75
23	MP4A	Z	93.048	4.75
24	MP4A	Mx	.027	4.75
25	MP4B	X	-85.765	.25
26	MP4B	Z	148.549	.25
27	MP4B	Mx	-.086	.25
28	MP4B	X	-85.765	4.75
29	MP4B	Z	148.549	4.75
30	MP4B	Mx	-.086	4.75
31	MP4C	X	-53.721	.25
32	MP4C	Z	93.048	.25
33	MP4C	Mx	.027	.25
34	MP4C	X	-53.721	4.75
35	MP4C	Z	93.048	4.75
36	MP4C	Mx	.027	4.75
37	MP2A	X	-74.384	.25
38	MP2A	Z	128.837	.25
39	MP2A	Mx	.112	.25
40	MP2A	X	-74.384	4.75
41	MP2A	Z	128.837	4.75
42	MP2A	Mx	.112	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP2B	X	-53.91	.25
44	MP2B	Z	93.375	.25
45	MP2B	Mx	-.054	.25
46	MP2B	X	-53.91	4.75
47	MP2B	Z	93.375	4.75
48	MP2B	Mx	-.054	4.75
49	MP2C	X	-74.384	.25
50	MP2C	Z	128.837	.25
51	MP2C	Mx	-.038	.25
52	MP2C	X	-74.384	4.75
53	MP2C	Z	128.837	4.75
54	MP2C	Mx	-.038	4.75
55	MP2A	X	-74.384	.25
56	MP2A	Z	128.837	.25
57	MP2A	Mx	-.038	.25
58	MP2A	X	-74.384	4.75
59	MP2A	Z	128.837	4.75
60	MP2A	Mx	-.038	4.75
61	MP2B	X	-53.91	.25
62	MP2B	Z	93.375	.25
63	MP2B	Mx	-.054	.25
64	MP2B	X	-53.91	4.75
65	MP2B	Z	93.375	4.75
66	MP2B	Mx	-.054	4.75
67	MP2C	X	-74.384	.25
68	MP2C	Z	128.837	.25
69	MP2C	Mx	.112	.25
70	MP2C	X	-74.384	4.75
71	MP2C	Z	128.837	4.75
72	MP2C	Mx	.112	4.75
73	MP3A	X	-39.611	1
74	MP3A	Z	68.608	1
75	MP3A	Mx	.02	1
76	MP3A	X	-39.611	3
77	MP3A	Z	68.608	3
78	MP3A	Mx	.02	3
79	MP3B	X	-18.29	1
80	MP3B	Z	31.679	1
81	MP3B	Mx	-.018	1
82	MP3B	X	-18.29	3
83	MP3B	Z	31.679	3
84	MP3B	Mx	-.018	3
85	MP3C	X	-39.611	1
86	MP3C	Z	68.608	1
87	MP3C	Mx	.02	1
88	MP3C	X	-39.611	3
89	MP3C	Z	68.608	3
90	MP3C	Mx	.02	3
91	OVP	X	-75.928	1
92	OVP	Z	131.512	1
93	OVP	Mx	0	1



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-130.049	.25
2	MP1A	Z	75.084	.25
3	MP1A	Mx	.065	.25
4	MP1A	X	-130.049	4.75
5	MP1A	Z	75.084	4.75
6	MP1A	Mx	.065	4.75
7	MP1B	X	-130.049	.25
8	MP1B	Z	75.084	.25
9	MP1B	Mx	-.065	.25
10	MP1B	X	-130.049	4.75
11	MP1B	Z	75.084	4.75
12	MP1B	Mx	-.065	4.75
13	MP1C	X	-74.547	.25
14	MP1C	Z	43.04	.25
15	MP1C	Mx	0	.25
16	MP1C	X	-74.547	4.75
17	MP1C	Z	43.04	4.75
18	MP1C	Mx	0	4.75
19	MP4A	X	-130.049	.25
20	MP4A	Z	75.084	.25
21	MP4A	Mx	.065	.25
22	MP4A	X	-130.049	4.75
23	MP4A	Z	75.084	4.75
24	MP4A	Mx	.065	4.75
25	MP4B	X	-130.049	.25
26	MP4B	Z	75.084	.25
27	MP4B	Mx	-.065	.25
28	MP4B	X	-130.049	4.75
29	MP4B	Z	75.084	4.75
30	MP4B	Mx	-.065	4.75
31	MP4C	X	-74.547	.25
32	MP4C	Z	43.04	.25
33	MP4C	Mx	0	.25
34	MP4C	X	-74.547	4.75
35	MP4C	Z	43.04	4.75
36	MP4C	Mx	0	4.75
37	MP2A	X	-105.196	.25
38	MP2A	Z	60.735	.25
39	MP2A	Mx	.088	.25
40	MP2A	X	-105.196	4.75
41	MP2A	Z	60.735	4.75
42	MP2A	Mx	.088	4.75
43	MP2B	X	-105.196	.25
44	MP2B	Z	60.735	.25
45	MP2B	Mx	-.017	.25
46	MP2B	X	-105.196	4.75
47	MP2B	Z	60.735	4.75
48	MP2B	Mx	-.017	4.75
49	MP2C	X	-140.658	.25
50	MP2C	Z	81.209	.25
51	MP2C	Mx	-.095	.25
52	MP2C	X	-140.658	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	81.209	4.75
54	MP2C	Mx	-.095	4.75
55	MP2A	X	-105.196	.25
56	MP2A	Z	60.735	.25
57	MP2A	Mx	.017	.25
58	MP2A	X	-105.196	4.75
59	MP2A	Z	60.735	4.75
60	MP2A	Mx	.017	4.75
61	MP2B	X	-105.196	.25
62	MP2B	Z	60.735	.25
63	MP2B	Mx	-.088	.25
64	MP2B	X	-105.196	4.75
65	MP2B	Z	60.735	4.75
66	MP2B	Mx	-.088	4.75
67	MP2C	X	-140.658	.25
68	MP2C	Z	81.209	.25
69	MP2C	Mx	.095	.25
70	MP2C	X	-140.658	4.75
71	MP2C	Z	81.209	4.75
72	MP2C	Mx	.095	4.75
73	MP3A	X	-43.988	1
74	MP3A	Z	25.397	1
75	MP3A	Mx	.022	1
76	MP3A	X	-43.988	3
77	MP3A	Z	25.397	3
78	MP3A	Mx	.022	3
79	MP3B	X	-43.988	1
80	MP3B	Z	25.397	1
81	MP3B	Mx	-.022	1
82	MP3B	X	-43.988	3
83	MP3B	Z	25.397	3
84	MP3B	Mx	-.022	3
85	MP3C	X	-80.917	1
86	MP3C	Z	46.718	1
87	MP3C	Mx	0	1
88	MP3C	X	-80.917	3
89	MP3C	Z	46.718	3
90	MP3C	Mx	0	3
91	OVP	X	-114.941	1
92	OVP	Z	66.361	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-171.53	.25
2	MP1A	Z	0	.25
3	MP1A	Mx	.086	.25
4	MP1A	X	-171.53	4.75
5	MP1A	Z	0	4.75
6	MP1A	Mx	.086	4.75
7	MP1B	X	-107.442	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	0	.25
9	MP1B	Mx	-.027	.25
10	MP1B	X	-107.442	4.75
11	MP1B	Z	0	4.75
12	MP1B	Mx	-.027	4.75
13	MP1C	X	-107.442	.25
14	MP1C	Z	0	.25
15	MP1C	Mx	-.027	.25
16	MP1C	X	-107.442	4.75
17	MP1C	Z	0	4.75
18	MP1C	Mx	-.027	4.75
19	MP4A	X	-171.53	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	.086	.25
22	MP4A	X	-171.53	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	.086	4.75
25	MP4B	X	-107.442	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	-.027	.25
28	MP4B	X	-107.442	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	-.027	4.75
31	MP4C	X	-107.442	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	-.027	.25
34	MP4C	X	-107.442	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	-.027	4.75
37	MP2A	X	-107.821	.25
38	MP2A	Z	0	.25
39	MP2A	Mx	.054	.25
40	MP2A	X	-107.821	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	.054	4.75
43	MP2B	X	-148.769	.25
44	MP2B	Z	0	.25
45	MP2B	Mx	.038	.25
46	MP2B	X	-148.769	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.038	4.75
49	MP2C	X	-148.769	.25
50	MP2C	Z	0	.25
51	MP2C	Mx	-.112	.25
52	MP2C	X	-148.769	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.112	4.75
55	MP2A	X	-107.821	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	.054	.25
58	MP2A	X	-107.821	4.75
59	MP2A	Z	0	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
60	MP2A	Mx	.054	4.75
61	MP2B	X	-148.769	.25
62	MP2B	Z	0	.25
63	MP2B	Mx	-.112	.25
64	MP2B	X	-148.769	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	-.112	4.75
67	MP2C	X	-148.769	.25
68	MP2C	Z	0	.25
69	MP2C	Mx	.038	.25
70	MP2C	X	-148.769	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	.038	4.75
73	MP3A	X	-36.58	1
74	MP3A	Z	0	1
75	MP3A	Mx	.018	1
76	MP3A	X	-36.58	3
77	MP3A	Z	0	3
78	MP3A	Mx	.018	3
79	MP3B	X	-79.221	1
80	MP3B	Z	0	1
81	MP3B	Mx	-.02	1
82	MP3B	X	-79.221	3
83	MP3B	Z	0	3
84	MP3B	Mx	-.02	3
85	MP3C	X	-79.221	1
86	MP3C	Z	0	1
87	MP3C	Mx	-.02	1
88	MP3C	X	-79.221	3
89	MP3C	Z	0	3
90	MP3C	Mx	-.02	3
91	OVP	X	-123.155	1
92	OVP	Z	0	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-130.049	.25
2	MP1A	Z	-75.084	.25
3	MP1A	Mx	.065	.25
4	MP1A	X	-130.049	4.75
5	MP1A	Z	-75.084	4.75
6	MP1A	Mx	.065	4.75
7	MP1B	X	-74.547	.25
8	MP1B	Z	-43.04	.25
9	MP1B	Mx	0	.25
10	MP1B	X	-74.547	4.75
11	MP1B	Z	-43.04	4.75
12	MP1B	Mx	0	4.75
13	MP1C	X	-130.049	.25
14	MP1C	Z	-75.084	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	-.065	.25
16	MP1C	X	-130.049	4.75
17	MP1C	Z	-75.084	4.75
18	MP1C	Mx	-.065	4.75
19	MP4A	X	-130.049	.25
20	MP4A	Z	-75.084	.25
21	MP4A	Mx	.065	.25
22	MP4A	X	-130.049	4.75
23	MP4A	Z	-75.084	4.75
24	MP4A	Mx	.065	4.75
25	MP4B	X	-74.547	.25
26	MP4B	Z	-43.04	.25
27	MP4B	Mx	0	.25
28	MP4B	X	-74.547	4.75
29	MP4B	Z	-43.04	4.75
30	MP4B	Mx	0	4.75
31	MP4C	X	-130.049	.25
32	MP4C	Z	-75.084	.25
33	MP4C	Mx	-.065	.25
34	MP4C	X	-130.049	4.75
35	MP4C	Z	-75.084	4.75
36	MP4C	Mx	-.065	4.75
37	MP2A	X	-105.196	.25
38	MP2A	Z	-60.735	.25
39	MP2A	Mx	.017	.25
40	MP2A	X	-105.196	4.75
41	MP2A	Z	-60.735	4.75
42	MP2A	Mx	.017	4.75
43	MP2B	X	-140.658	.25
44	MP2B	Z	-81.209	.25
45	MP2B	Mx	.095	.25
46	MP2B	X	-140.658	4.75
47	MP2B	Z	-81.209	4.75
48	MP2B	Mx	.095	4.75
49	MP2C	X	-105.196	.25
50	MP2C	Z	-60.735	.25
51	MP2C	Mx	-.088	.25
52	MP2C	X	-105.196	4.75
53	MP2C	Z	-60.735	4.75
54	MP2C	Mx	-.088	4.75
55	MP2A	X	-105.196	.25
56	MP2A	Z	-60.735	.25
57	MP2A	Mx	.088	.25
58	MP2A	X	-105.196	4.75
59	MP2A	Z	-60.735	4.75
60	MP2A	Mx	.088	4.75
61	MP2B	X	-140.658	.25
62	MP2B	Z	-81.209	.25
63	MP2B	Mx	-.095	.25
64	MP2B	X	-140.658	4.75
65	MP2B	Z	-81.209	4.75
66	MP2B	Mx	-.095	4.75



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	-53.721	4.75
23	MP4A	Z	-93.048	4.75
24	MP4A	Mx	.027	4.75
25	MP4B	X	-53.721	.25
26	MP4B	Z	-93.048	.25
27	MP4B	Mx	.027	.25
28	MP4B	X	-53.721	4.75
29	MP4B	Z	-93.048	4.75
30	MP4B	Mx	.027	4.75
31	MP4C	X	-85.765	.25
32	MP4C	Z	-148.549	.25
33	MP4C	Mx	-.086	.25
34	MP4C	X	-85.765	4.75
35	MP4C	Z	-148.549	4.75
36	MP4C	Mx	-.086	4.75
37	MP2A	X	-74.384	.25
38	MP2A	Z	-128.837	.25
39	MP2A	Mx	-.038	.25
40	MP2A	X	-74.384	4.75
41	MP2A	Z	-128.837	4.75
42	MP2A	Mx	-.038	4.75
43	MP2B	X	-74.384	.25
44	MP2B	Z	-128.837	.25
45	MP2B	Mx	.112	.25
46	MP2B	X	-74.384	4.75
47	MP2B	Z	-128.837	4.75
48	MP2B	Mx	.112	4.75
49	MP2C	X	-53.91	.25
50	MP2C	Z	-93.375	.25
51	MP2C	Mx	-.054	.25
52	MP2C	X	-53.91	4.75
53	MP2C	Z	-93.375	4.75
54	MP2C	Mx	-.054	4.75
55	MP2A	X	-74.384	.25
56	MP2A	Z	-128.837	.25
57	MP2A	Mx	.112	.25
58	MP2A	X	-74.384	4.75
59	MP2A	Z	-128.837	4.75
60	MP2A	Mx	.112	4.75
61	MP2B	X	-74.384	.25
62	MP2B	Z	-128.837	.25
63	MP2B	Mx	-.038	.25
64	MP2B	X	-74.384	4.75
65	MP2B	Z	-128.837	4.75
66	MP2B	Mx	-.038	4.75
67	MP2C	X	-53.91	.25
68	MP2C	Z	-93.375	.25
69	MP2C	Mx	-.054	.25
70	MP2C	X	-53.91	4.75
71	MP2C	Z	-93.375	4.75
72	MP2C	Mx	-.054	4.75
73	MP3A	X	-39.611	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3A	Z	-68.608	1
75	MP3A	Mx	.02	1
76	MP3A	X	-39.611	3
77	MP3A	Z	-68.608	3
78	MP3A	Mx	.02	3
79	MP3B	X	-39.611	1
80	MP3B	Z	-68.608	1
81	MP3B	Mx	.02	1
82	MP3B	X	-39.611	3
83	MP3B	Z	-68.608	3
84	MP3B	Mx	.02	3
85	MP3C	X	-18.29	1
86	MP3C	Z	-31.679	1
87	MP3C	Mx	-.018	1
88	MP3C	X	-18.29	3
89	MP3C	Z	-31.679	3
90	MP3C	Mx	-.018	3
91	OVP	X	-75.928	1
92	OVP	Z	-131.512	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.25
2	MP1A	Z	-19.168	.25
3	MP1A	Mx	0	.25
4	MP1A	X	0	4.75
5	MP1A	Z	-19.168	4.75
6	MP1A	Mx	0	4.75
7	MP1B	X	0	.25
8	MP1B	Z	-31.565	.25
9	MP1B	Mx	.014	.25
10	MP1B	X	0	4.75
11	MP1B	Z	-31.565	4.75
12	MP1B	Mx	.014	4.75
13	MP1C	X	0	.25
14	MP1C	Z	-31.565	.25
15	MP1C	Mx	-.014	.25
16	MP1C	X	0	4.75
17	MP1C	Z	-31.565	4.75
18	MP1C	Mx	-.014	4.75
19	MP4A	X	0	.25
20	MP4A	Z	-19.168	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	4.75
23	MP4A	Z	-19.168	4.75
24	MP4A	Mx	0	4.75
25	MP4B	X	0	.25
26	MP4B	Z	-31.565	.25
27	MP4B	Mx	.014	.25
28	MP4B	X	0	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP3B	Mx	.005	1
82	MP3B	X	0	3
83	MP3B	Z	-11.407	3
84	MP3B	Mx	.005	3
85	MP3C	X	0	1
86	MP3C	Z	-11.407	1
87	MP3C	Mx	-.005	1
88	MP3C	X	0	3
89	MP3C	Z	-11.407	3
90	MP3C	Mx	-.005	3
91	OVP	X	0	1
92	OVP	Z	-34.66	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	11.65	.25
2	MP1A	Z	-20.178	.25
3	MP1A	Mx	-.006	.25
4	MP1A	X	11.65	4.75
5	MP1A	Z	-20.178	4.75
6	MP1A	Mx	-.006	4.75
7	MP1B	X	17.849	.25
8	MP1B	Z	-30.915	.25
9	MP1B	Mx	.018	.25
10	MP1B	X	17.849	4.75
11	MP1B	Z	-30.915	4.75
12	MP1B	Mx	.018	4.75
13	MP1C	X	11.65	.25
14	MP1C	Z	-20.178	.25
15	MP1C	Mx	-.006	.25
16	MP1C	X	11.65	4.75
17	MP1C	Z	-20.178	4.75
18	MP1C	Mx	-.006	4.75
19	MP4A	X	11.65	.25
20	MP4A	Z	-20.178	.25
21	MP4A	Mx	-.006	.25
22	MP4A	X	11.65	4.75
23	MP4A	Z	-20.178	4.75
24	MP4A	Mx	-.006	4.75
25	MP4B	X	17.849	.25
26	MP4B	Z	-30.915	.25
27	MP4B	Mx	.018	.25
28	MP4B	X	17.849	4.75
29	MP4B	Z	-30.915	4.75
30	MP4B	Mx	.018	4.75
31	MP4C	X	11.65	.25
32	MP4C	Z	-20.178	.25
33	MP4C	Mx	-.006	.25
34	MP4C	X	11.65	4.75
35	MP4C	Z	-20.178	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP4C	Mx	-.006	4.75
37	MP2A	X	15.709	.25
38	MP2A	Z	-27.209	.25
39	MP2A	Mx	-.024	.25
40	MP2A	X	15.709	4.75
41	MP2A	Z	-27.209	4.75
42	MP2A	Mx	-.024	4.75
43	MP2B	X	11.755	.25
44	MP2B	Z	-20.36	.25
45	MP2B	Mx	.012	.25
46	MP2B	X	11.755	4.75
47	MP2B	Z	-20.36	4.75
48	MP2B	Mx	.012	4.75
49	MP2C	X	15.709	.25
50	MP2C	Z	-27.209	.25
51	MP2C	Mx	.008	.25
52	MP2C	X	15.709	4.75
53	MP2C	Z	-27.209	4.75
54	MP2C	Mx	.008	4.75
55	MP2A	X	15.709	.25
56	MP2A	Z	-27.209	.25
57	MP2A	Mx	.008	.25
58	MP2A	X	15.709	4.75
59	MP2A	Z	-27.209	4.75
60	MP2A	Mx	.008	4.75
61	MP2B	X	11.755	.25
62	MP2B	Z	-20.36	.25
63	MP2B	Mx	.012	.25
64	MP2B	X	11.755	4.75
65	MP2B	Z	-20.36	4.75
66	MP2B	Mx	.012	4.75
67	MP2C	X	15.709	.25
68	MP2C	Z	-27.209	.25
69	MP2C	Mx	-.024	.25
70	MP2C	X	15.709	4.75
71	MP2C	Z	-27.209	4.75
72	MP2C	Mx	-.024	4.75
73	MP3A	X	8.571	1
74	MP3A	Z	-14.845	1
75	MP3A	Mx	-.004	1
76	MP3A	X	8.571	3
77	MP3A	Z	-14.845	3
78	MP3A	Mx	-.004	3
79	MP3B	X	4.27	1
80	MP3B	Z	-7.396	1
81	MP3B	Mx	.004	1
82	MP3B	X	4.27	3
83	MP3B	Z	-7.396	3
84	MP3B	Mx	.004	3
85	MP3C	X	8.571	1
86	MP3C	Z	-14.845	1
87	MP3C	Mx	-.004	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP3C	X	8.571	3
89	MP3C	Z	-14.845	3
90	MP3C	Mx	-.004	3
91	OVP	X	16.387	1
92	OVP	Z	-28.383	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	27.336	.25
2	MP1A	Z	-15.782	.25
3	MP1A	Mx	-.014	.25
4	MP1A	X	27.336	4.75
5	MP1A	Z	-15.782	4.75
6	MP1A	Mx	-.014	4.75
7	MP1B	X	27.336	.25
8	MP1B	Z	-15.782	.25
9	MP1B	Mx	.014	.25
10	MP1B	X	27.336	4.75
11	MP1B	Z	-15.782	4.75
12	MP1B	Mx	.014	4.75
13	MP1C	X	16.6	.25
14	MP1C	Z	-9.584	.25
15	MP1C	Mx	0	.25
16	MP1C	X	16.6	4.75
17	MP1C	Z	-9.584	4.75
18	MP1C	Mx	0	4.75
19	MP4A	X	27.336	.25
20	MP4A	Z	-15.782	.25
21	MP4A	Mx	-.014	.25
22	MP4A	X	27.336	4.75
23	MP4A	Z	-15.782	4.75
24	MP4A	Mx	-.014	4.75
25	MP4B	X	27.336	.25
26	MP4B	Z	-15.782	.25
27	MP4B	Mx	.014	.25
28	MP4B	X	27.336	4.75
29	MP4B	Z	-15.782	4.75
30	MP4B	Mx	.014	4.75
31	MP4C	X	16.6	.25
32	MP4C	Z	-9.584	.25
33	MP4C	Mx	0	.25
34	MP4C	X	16.6	4.75
35	MP4C	Z	-9.584	4.75
36	MP4C	Mx	0	4.75
37	MP2A	X	22.643	.25
38	MP2A	Z	-13.073	.25
39	MP2A	Mx	-.019	.25
40	MP2A	X	22.643	4.75
41	MP2A	Z	-13.073	4.75
42	MP2A	Mx	-.019	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	35.697	.25
2	MP1A	Z	0	.25
3	MP1A	Mx	-.018	.25
4	MP1A	X	35.697	4.75
5	MP1A	Z	0	4.75
6	MP1A	Mx	-.018	4.75
7	MP1B	X	23.3	.25
8	MP1B	Z	0	.25
9	MP1B	Mx	.006	.25
10	MP1B	X	23.3	4.75
11	MP1B	Z	0	4.75
12	MP1B	Mx	.006	4.75
13	MP1C	X	23.3	.25
14	MP1C	Z	0	.25
15	MP1C	Mx	.006	.25
16	MP1C	X	23.3	4.75
17	MP1C	Z	0	4.75
18	MP1C	Mx	.006	4.75
19	MP4A	X	35.697	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	-.018	.25
22	MP4A	X	35.697	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	-.018	4.75
25	MP4B	X	23.3	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	.006	.25
28	MP4B	X	23.3	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	.006	4.75
31	MP4C	X	23.3	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	.006	.25
34	MP4C	X	23.3	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	.006	4.75
37	MP2A	X	23.509	.25
38	MP2A	Z	0	.25
39	MP2A	Mx	-.012	.25
40	MP2A	X	23.509	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	-.012	4.75
43	MP2B	X	31.418	.25
44	MP2B	Z	0	.25
45	MP2B	Mx	-.008	.25
46	MP2B	X	31.418	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	-.008	4.75
49	MP2C	X	31.418	.25
50	MP2C	Z	0	.25
51	MP2C	Mx	.024	.25
52	MP2C	X	31.418	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	0	4.75
54	MP2C	Mx	.024	4.75
55	MP2A	X	23.509	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	-.012	.25
58	MP2A	X	23.509	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	-.012	4.75
61	MP2B	X	31.418	.25
62	MP2B	Z	0	.25
63	MP2B	Mx	.024	.25
64	MP2B	X	31.418	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	.024	4.75
67	MP2C	X	31.418	.25
68	MP2C	Z	0	.25
69	MP2C	Mx	-.008	.25
70	MP2C	X	31.418	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	-.008	4.75
73	MP3A	X	8.54	1
74	MP3A	Z	0	1
75	MP3A	Mx	-.004	1
76	MP3A	X	8.54	3
77	MP3A	Z	0	3
78	MP3A	Mx	-.004	3
79	MP3B	X	17.141	1
80	MP3B	Z	0	1
81	MP3B	Mx	.004	1
82	MP3B	X	17.141	3
83	MP3B	Z	0	3
84	MP3B	Mx	.004	3
85	MP3C	X	17.141	1
86	MP3C	Z	0	1
87	MP3C	Mx	.004	1
88	MP3C	X	17.141	3
89	MP3C	Z	0	3
90	MP3C	Mx	.004	3
91	OVP	X	27.117	1
92	OVP	Z	0	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	27.336	.25
2	MP1A	Z	15.782	.25
3	MP1A	Mx	-.014	.25
4	MP1A	X	27.336	4.75
5	MP1A	Z	15.782	4.75
6	MP1A	Mx	-.014	4.75
7	MP1B	X	16.6	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	-.019	4.75
61	MP2B	X	29.492	.25
62	MP2B	Z	17.027	.25
63	MP2B	Mx	.02	.25
64	MP2B	X	29.492	4.75
65	MP2B	Z	17.027	4.75
66	MP2B	Mx	.02	4.75
67	MP2C	X	22.643	.25
68	MP2C	Z	13.073	.25
69	MP2C	Mx	.004	.25
70	MP2C	X	22.643	4.75
71	MP2C	Z	13.073	4.75
72	MP2C	Mx	.004	4.75
73	MP3A	X	9.879	1
74	MP3A	Z	5.703	1
75	MP3A	Mx	-.005	1
76	MP3A	X	9.879	3
77	MP3A	Z	5.703	3
78	MP3A	Mx	-.005	3
79	MP3B	X	17.328	1
80	MP3B	Z	10.004	1
81	MP3B	Mx	0	1
82	MP3B	X	17.328	3
83	MP3B	Z	10.004	3
84	MP3B	Mx	0	3
85	MP3C	X	9.879	1
86	MP3C	Z	5.703	1
87	MP3C	Mx	.005	1
88	MP3C	X	9.879	3
89	MP3C	Z	5.703	3
90	MP3C	Mx	.005	3
91	OVP	X	25.117	1
92	OVP	Z	14.501	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	11.65	.25
2	MP1A	Z	20.178	.25
3	MP1A	Mx	-.006	.25
4	MP1A	X	11.65	4.75
5	MP1A	Z	20.178	4.75
6	MP1A	Mx	-.006	4.75
7	MP1B	X	11.65	.25
8	MP1B	Z	20.178	.25
9	MP1B	Mx	-.006	.25
10	MP1B	X	11.65	4.75
11	MP1B	Z	20.178	4.75
12	MP1B	Mx	-.006	4.75
13	MP1C	X	17.849	.25
14	MP1C	Z	30.915	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	.018	.25
16	MP1C	X	17.849	4.75
17	MP1C	Z	30.915	4.75
18	MP1C	Mx	.018	4.75
19	MP4A	X	11.65	.25
20	MP4A	Z	20.178	.25
21	MP4A	Mx	-.006	.25
22	MP4A	X	11.65	4.75
23	MP4A	Z	20.178	4.75
24	MP4A	Mx	-.006	4.75
25	MP4B	X	11.65	.25
26	MP4B	Z	20.178	.25
27	MP4B	Mx	-.006	.25
28	MP4B	X	11.65	4.75
29	MP4B	Z	20.178	4.75
30	MP4B	Mx	-.006	4.75
31	MP4C	X	17.849	.25
32	MP4C	Z	30.915	.25
33	MP4C	Mx	.018	.25
34	MP4C	X	17.849	4.75
35	MP4C	Z	30.915	4.75
36	MP4C	Mx	.018	4.75
37	MP2A	X	15.709	.25
38	MP2A	Z	27.209	.25
39	MP2A	Mx	.008	.25
40	MP2A	X	15.709	4.75
41	MP2A	Z	27.209	4.75
42	MP2A	Mx	.008	4.75
43	MP2B	X	15.709	.25
44	MP2B	Z	27.209	.25
45	MP2B	Mx	-.024	.25
46	MP2B	X	15.709	4.75
47	MP2B	Z	27.209	4.75
48	MP2B	Mx	-.024	4.75
49	MP2C	X	11.755	.25
50	MP2C	Z	20.36	.25
51	MP2C	Mx	.012	.25
52	MP2C	X	11.755	4.75
53	MP2C	Z	20.36	4.75
54	MP2C	Mx	.012	4.75
55	MP2A	X	15.709	.25
56	MP2A	Z	27.209	.25
57	MP2A	Mx	-.024	.25
58	MP2A	X	15.709	4.75
59	MP2A	Z	27.209	4.75
60	MP2A	Mx	-.024	4.75
61	MP2B	X	15.709	.25
62	MP2B	Z	27.209	.25
63	MP2B	Mx	.008	.25
64	MP2B	X	15.709	4.75
65	MP2B	Z	27.209	4.75
66	MP2B	Mx	.008	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
67	MP2C	X	11.755	.25
68	MP2C	Z	20.36	.25
69	MP2C	Mx	.012	.25
70	MP2C	X	11.755	4.75
71	MP2C	Z	20.36	4.75
72	MP2C	Mx	.012	4.75
73	MP3A	X	8.571	1
74	MP3A	Z	14.845	1
75	MP3A	Mx	-.004	1
76	MP3A	X	8.571	3
77	MP3A	Z	14.845	3
78	MP3A	Mx	-.004	3
79	MP3B	X	8.571	1
80	MP3B	Z	14.845	1
81	MP3B	Mx	-.004	1
82	MP3B	X	8.571	3
83	MP3B	Z	14.845	3
84	MP3B	Mx	-.004	3
85	MP3C	X	4.27	1
86	MP3C	Z	7.396	1
87	MP3C	Mx	.004	1
88	MP3C	X	4.27	3
89	MP3C	Z	7.396	3
90	MP3C	Mx	.004	3
91	OVP	X	16.387	1
92	OVP	Z	28.383	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	0	.25
2	MP1A	Z	19.168	.25
3	MP1A	Mx	0	.25
4	MP1A	X	0	4.75
5	MP1A	Z	19.168	4.75
6	MP1A	Mx	0	4.75
7	MP1B	X	0	.25
8	MP1B	Z	31.565	.25
9	MP1B	Mx	-.014	.25
10	MP1B	X	0	4.75
11	MP1B	Z	31.565	4.75
12	MP1B	Mx	-.014	4.75
13	MP1C	X	0	.25
14	MP1C	Z	31.565	.25
15	MP1C	Mx	.014	.25
16	MP1C	X	0	4.75
17	MP1C	Z	31.565	4.75
18	MP1C	Mx	.014	4.75
19	MP4A	X	0	.25
20	MP4A	Z	19.168	.25
21	MP4A	Mx	0	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3A	Z	20.008	1
75	MP3A	Mx	0	1
76	MP3A	X	0	3
77	MP3A	Z	20.008	3
78	MP3A	Mx	0	3
79	MP3B	X	0	1
80	MP3B	Z	11.407	1
81	MP3B	Mx	-.005	1
82	MP3B	X	0	3
83	MP3B	Z	11.407	3
84	MP3B	Mx	-.005	3
85	MP3C	X	0	1
86	MP3C	Z	11.407	1
87	MP3C	Mx	.005	1
88	MP3C	X	0	3
89	MP3C	Z	11.407	3
90	MP3C	Mx	.005	3
91	OVP	X	0	1
92	OVP	Z	34.66	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-11.65	.25
2	MP1A	Z	20.178	.25
3	MP1A	Mx	.006	.25
4	MP1A	X	-11.65	4.75
5	MP1A	Z	20.178	4.75
6	MP1A	Mx	.006	4.75
7	MP1B	X	-17.849	.25
8	MP1B	Z	30.915	.25
9	MP1B	Mx	-.018	.25
10	MP1B	X	-17.849	4.75
11	MP1B	Z	30.915	4.75
12	MP1B	Mx	-.018	4.75
13	MP1C	X	-11.65	.25
14	MP1C	Z	20.178	.25
15	MP1C	Mx	.006	.25
16	MP1C	X	-11.65	4.75
17	MP1C	Z	20.178	4.75
18	MP1C	Mx	.006	4.75
19	MP4A	X	-11.65	.25
20	MP4A	Z	20.178	.25
21	MP4A	Mx	.006	.25
22	MP4A	X	-11.65	4.75
23	MP4A	Z	20.178	4.75
24	MP4A	Mx	.006	4.75
25	MP4B	X	-17.849	.25
26	MP4B	Z	30.915	.25
27	MP4B	Mx	-.018	.25
28	MP4B	X	-17.849	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4B	Z	30.915	4.75
30	MP4B	Mx	-.018	4.75
31	MP4C	X	-11.65	.25
32	MP4C	Z	20.178	.25
33	MP4C	Mx	.006	.25
34	MP4C	X	-11.65	4.75
35	MP4C	Z	20.178	4.75
36	MP4C	Mx	.006	4.75
37	MP2A	X	-15.709	.25
38	MP2A	Z	27.209	.25
39	MP2A	Mx	.024	.25
40	MP2A	X	-15.709	4.75
41	MP2A	Z	27.209	4.75
42	MP2A	Mx	.024	4.75
43	MP2B	X	-11.755	.25
44	MP2B	Z	20.36	.25
45	MP2B	Mx	-.012	.25
46	MP2B	X	-11.755	4.75
47	MP2B	Z	20.36	4.75
48	MP2B	Mx	-.012	4.75
49	MP2C	X	-15.709	.25
50	MP2C	Z	27.209	.25
51	MP2C	Mx	-.008	.25
52	MP2C	X	-15.709	4.75
53	MP2C	Z	27.209	4.75
54	MP2C	Mx	-.008	4.75
55	MP2A	X	-15.709	.25
56	MP2A	Z	27.209	.25
57	MP2A	Mx	-.008	.25
58	MP2A	X	-15.709	4.75
59	MP2A	Z	27.209	4.75
60	MP2A	Mx	-.008	4.75
61	MP2B	X	-11.755	.25
62	MP2B	Z	20.36	.25
63	MP2B	Mx	-.012	.25
64	MP2B	X	-11.755	4.75
65	MP2B	Z	20.36	4.75
66	MP2B	Mx	-.012	4.75
67	MP2C	X	-15.709	.25
68	MP2C	Z	27.209	.25
69	MP2C	Mx	.024	.25
70	MP2C	X	-15.709	4.75
71	MP2C	Z	27.209	4.75
72	MP2C	Mx	.024	4.75
73	MP3A	X	-8.571	1
74	MP3A	Z	14.845	1
75	MP3A	Mx	.004	1
76	MP3A	X	-8.571	3
77	MP3A	Z	14.845	3
78	MP3A	Mx	.004	3
79	MP3B	X	-4.27	1
80	MP3B	Z	7.396	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP3B	Mx	-.004	1
82	MP3B	X	-4.27	3
83	MP3B	Z	7.396	3
84	MP3B	Mx	-.004	3
85	MP3C	X	-8.571	1
86	MP3C	Z	14.845	1
87	MP3C	Mx	.004	1
88	MP3C	X	-8.571	3
89	MP3C	Z	14.845	3
90	MP3C	Mx	.004	3
91	OVP	X	-16.387	1
92	OVP	Z	28.383	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-27.336	.25
2	MP1A	Z	15.782	.25
3	MP1A	Mx	.014	.25
4	MP1A	X	-27.336	4.75
5	MP1A	Z	15.782	4.75
6	MP1A	Mx	.014	4.75
7	MP1B	X	-27.336	.25
8	MP1B	Z	15.782	.25
9	MP1B	Mx	-.014	.25
10	MP1B	X	-27.336	4.75
11	MP1B	Z	15.782	4.75
12	MP1B	Mx	-.014	4.75
13	MP1C	X	-16.6	.25
14	MP1C	Z	9.584	.25
15	MP1C	Mx	0	.25
16	MP1C	X	-16.6	4.75
17	MP1C	Z	9.584	4.75
18	MP1C	Mx	0	4.75
19	MP4A	X	-27.336	.25
20	MP4A	Z	15.782	.25
21	MP4A	Mx	.014	.25
22	MP4A	X	-27.336	4.75
23	MP4A	Z	15.782	4.75
24	MP4A	Mx	.014	4.75
25	MP4B	X	-27.336	.25
26	MP4B	Z	15.782	.25
27	MP4B	Mx	-.014	.25
28	MP4B	X	-27.336	4.75
29	MP4B	Z	15.782	4.75
30	MP4B	Mx	-.014	4.75
31	MP4C	X	-16.6	.25
32	MP4C	Z	9.584	.25
33	MP4C	Mx	0	.25
34	MP4C	X	-16.6	4.75
35	MP4C	Z	9.584	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP3C	X	-17.328	3
89	MP3C	Z	10.004	3
90	MP3C	Mx	0	3
91	OVP	X	-25.117	1
92	OVP	Z	14.501	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-35.697	.25
2	MP1A	Z	0	.25
3	MP1A	Mx	.018	.25
4	MP1A	X	-35.697	4.75
5	MP1A	Z	0	4.75
6	MP1A	Mx	.018	4.75
7	MP1B	X	-23.3	.25
8	MP1B	Z	0	.25
9	MP1B	Mx	-.006	.25
10	MP1B	X	-23.3	4.75
11	MP1B	Z	0	4.75
12	MP1B	Mx	-.006	4.75
13	MP1C	X	-23.3	.25
14	MP1C	Z	0	.25
15	MP1C	Mx	-.006	.25
16	MP1C	X	-23.3	4.75
17	MP1C	Z	0	4.75
18	MP1C	Mx	-.006	4.75
19	MP4A	X	-35.697	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	.018	.25
22	MP4A	X	-35.697	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	.018	4.75
25	MP4B	X	-23.3	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	-.006	.25
28	MP4B	X	-23.3	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	-.006	4.75
31	MP4C	X	-23.3	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	-.006	.25
34	MP4C	X	-23.3	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	-.006	4.75
37	MP2A	X	-23.509	.25
38	MP2A	Z	0	.25
39	MP2A	Mx	.012	.25
40	MP2A	X	-23.509	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	.012	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP2B	X	-31.418	.25
44	MP2B	Z	0	.25
45	MP2B	Mx	.008	.25
46	MP2B	X	-31.418	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.008	4.75
49	MP2C	X	-31.418	.25
50	MP2C	Z	0	.25
51	MP2C	Mx	-.024	.25
52	MP2C	X	-31.418	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.024	4.75
55	MP2A	X	-23.509	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	.012	.25
58	MP2A	X	-23.509	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	.012	4.75
61	MP2B	X	-31.418	.25
62	MP2B	Z	0	.25
63	MP2B	Mx	-.024	.25
64	MP2B	X	-31.418	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	-.024	4.75
67	MP2C	X	-31.418	.25
68	MP2C	Z	0	.25
69	MP2C	Mx	.008	.25
70	MP2C	X	-31.418	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	.008	4.75
73	MP3A	X	-8.54	1
74	MP3A	Z	0	1
75	MP3A	Mx	.004	1
76	MP3A	X	-8.54	3
77	MP3A	Z	0	3
78	MP3A	Mx	.004	3
79	MP3B	X	-17.141	1
80	MP3B	Z	0	1
81	MP3B	Mx	-.004	1
82	MP3B	X	-17.141	3
83	MP3B	Z	0	3
84	MP3B	Mx	-.004	3
85	MP3C	X	-17.141	1
86	MP3C	Z	0	1
87	MP3C	Mx	-.004	1
88	MP3C	X	-17.141	3
89	MP3C	Z	0	3
90	MP3C	Mx	-.004	3
91	OVP	X	-27.117	1
92	OVP	Z	0	1
93	OVP	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-27.336	.25
2	MP1A	Z	-15.782	.25
3	MP1A	Mx	.014	.25
4	MP1A	X	-27.336	4.75
5	MP1A	Z	-15.782	4.75
6	MP1A	Mx	.014	4.75
7	MP1B	X	-16.6	.25
8	MP1B	Z	-9.584	.25
9	MP1B	Mx	0	.25
10	MP1B	X	-16.6	4.75
11	MP1B	Z	-9.584	4.75
12	MP1B	Mx	0	4.75
13	MP1C	X	-27.336	.25
14	MP1C	Z	-15.782	.25
15	MP1C	Mx	-.014	.25
16	MP1C	X	-27.336	4.75
17	MP1C	Z	-15.782	4.75
18	MP1C	Mx	-.014	4.75
19	MP4A	X	-27.336	.25
20	MP4A	Z	-15.782	.25
21	MP4A	Mx	.014	.25
22	MP4A	X	-27.336	4.75
23	MP4A	Z	-15.782	4.75
24	MP4A	Mx	.014	4.75
25	MP4B	X	-16.6	.25
26	MP4B	Z	-9.584	.25
27	MP4B	Mx	0	.25
28	MP4B	X	-16.6	4.75
29	MP4B	Z	-9.584	4.75
30	MP4B	Mx	0	4.75
31	MP4C	X	-27.336	.25
32	MP4C	Z	-15.782	.25
33	MP4C	Mx	-.014	.25
34	MP4C	X	-27.336	4.75
35	MP4C	Z	-15.782	4.75
36	MP4C	Mx	-.014	4.75
37	MP2A	X	-22.643	.25
38	MP2A	Z	-13.073	.25
39	MP2A	Mx	.004	.25
40	MP2A	X	-22.643	4.75
41	MP2A	Z	-13.073	4.75
42	MP2A	Mx	.004	4.75
43	MP2B	X	-29.492	.25
44	MP2B	Z	-17.027	.25
45	MP2B	Mx	.02	.25
46	MP2B	X	-29.492	4.75
47	MP2B	Z	-17.027	4.75
48	MP2B	Mx	.02	4.75
49	MP2C	X	-22.643	.25
50	MP2C	Z	-13.073	.25
51	MP2C	Mx	-.019	.25
52	MP2C	X	-22.643	4.75



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP2C	Z	-13.073	4.75
54	MP2C	Mx	-.019	4.75
55	MP2A	X	-22.643	.25
56	MP2A	Z	-13.073	.25
57	MP2A	Mx	.019	.25
58	MP2A	X	-22.643	4.75
59	MP2A	Z	-13.073	4.75
60	MP2A	Mx	.019	4.75
61	MP2B	X	-29.492	.25
62	MP2B	Z	-17.027	.25
63	MP2B	Mx	-.02	.25
64	MP2B	X	-29.492	4.75
65	MP2B	Z	-17.027	4.75
66	MP2B	Mx	-.02	4.75
67	MP2C	X	-22.643	.25
68	MP2C	Z	-13.073	.25
69	MP2C	Mx	-.004	.25
70	MP2C	X	-22.643	4.75
71	MP2C	Z	-13.073	4.75
72	MP2C	Mx	-.004	4.75
73	MP3A	X	-9.879	1
74	MP3A	Z	-5.703	1
75	MP3A	Mx	.005	1
76	MP3A	X	-9.879	3
77	MP3A	Z	-5.703	3
78	MP3A	Mx	.005	3
79	MP3B	X	-17.328	1
80	MP3B	Z	-10.004	1
81	MP3B	Mx	0	1
82	MP3B	X	-17.328	3
83	MP3B	Z	-10.004	3
84	MP3B	Mx	0	3
85	MP3C	X	-9.879	1
86	MP3C	Z	-5.703	1
87	MP3C	Mx	-.005	1
88	MP3C	X	-9.879	3
89	MP3C	Z	-5.703	3
90	MP3C	Mx	-.005	3
91	OVP	X	-25.117	1
92	OVP	Z	-14.501	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-11.65	.25
2	MP1A	Z	-20.178	.25
3	MP1A	Mx	.006	.25
4	MP1A	X	-11.65	4.75
5	MP1A	Z	-20.178	4.75
6	MP1A	Mx	.006	4.75
7	MP1B	X	-11.65	.25



Company : Maser Consulting
 Designer :
 Job Number :
 Model Name : 467590-VZW_MT_LO_H

June 15, 2021
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Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	-20.178	.25
9	MP1B	Mx	.006	.25
10	MP1B	X	-11.65	4.75
11	MP1B	Z	-20.178	4.75
12	MP1B	Mx	.006	4.75
13	MP1C	X	-17.849	.25
14	MP1C	Z	-30.915	.25
15	MP1C	Mx	-.018	.25
16	MP1C	X	-17.849	4.75
17	MP1C	Z	-30.915	4.75
18	MP1C	Mx	-.018	4.75
19	MP4A	X	-11.65	.25
20	MP4A	Z	-20.178	.25
21	MP4A	Mx	.006	.25
22	MP4A	X	-11.65	4.75
23	MP4A	Z	-20.178	4.75
24	MP4A	Mx	.006	4.75
25	MP4B	X	-11.65	.25
26	MP4B	Z	-20.178	.25
27	MP4B	Mx	.006	.25
28	MP4B	X	-11.65	4.75
29	MP4B	Z	-20.178	4.75
30	MP4B	Mx	.006	4.75
31	MP4C	X	-17.849	.25
32	MP4C	Z	-30.915	.25
33	MP4C	Mx	-.018	.25
34	MP4C	X	-17.849	4.75
35	MP4C	Z	-30.915	4.75
36	MP4C	Mx	-.018	4.75
37	MP2A	X	-15.709	.25
38	MP2A	Z	-27.209	.25
39	MP2A	Mx	-.008	.25
40	MP2A	X	-15.709	4.75
41	MP2A	Z	-27.209	4.75
42	MP2A	Mx	-.008	4.75
43	MP2B	X	-15.709	.25
44	MP2B	Z	-27.209	.25
45	MP2B	Mx	.024	.25
46	MP2B	X	-15.709	4.75
47	MP2B	Z	-27.209	4.75
48	MP2B	Mx	.024	4.75
49	MP2C	X	-11.755	.25
50	MP2C	Z	-20.36	.25
51	MP2C	Mx	-.012	.25
52	MP2C	X	-11.755	4.75
53	MP2C	Z	-20.36	4.75
54	MP2C	Mx	-.012	4.75
55	MP2A	X	-15.709	.25
56	MP2A	Z	-27.209	.25
57	MP2A	Mx	.024	.25
58	MP2A	X	-15.709	4.75
59	MP2A	Z	-27.209	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	.024	4.75
61	MP2B	X	-15.709	.25
62	MP2B	Z	-27.209	.25
63	MP2B	Mx	-.008	.25
64	MP2B	X	-15.709	4.75
65	MP2B	Z	-27.209	4.75
66	MP2B	Mx	-.008	4.75
67	MP2C	X	-11.755	.25
68	MP2C	Z	-20.36	.25
69	MP2C	Mx	-.012	.25
70	MP2C	X	-11.755	4.75
71	MP2C	Z	-20.36	4.75
72	MP2C	Mx	-.012	4.75
73	MP3A	X	-8.571	1
74	MP3A	Z	-14.845	1
75	MP3A	Mx	.004	1
76	MP3A	X	-8.571	3
77	MP3A	Z	-14.845	3
78	MP3A	Mx	.004	3
79	MP3B	X	-8.571	1
80	MP3B	Z	-14.845	1
81	MP3B	Mx	.004	1
82	MP3B	X	-8.571	3
83	MP3B	Z	-14.845	3
84	MP3B	Mx	.004	3
85	MP3C	X	-4.27	1
86	MP3C	Z	-7.396	1
87	MP3C	Mx	-.004	1
88	MP3C	X	-4.27	3
89	MP3C	Z	-7.396	3
90	MP3C	Mx	-.004	3
91	OVP	X	-16.387	1
92	OVP	Z	-28.383	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.25
2	MP1A	Z	-5.858	.25
3	MP1A	Mx	0	.25
4	MP1A	X	0	4.75
5	MP1A	Z	-5.858	4.75
6	MP1A	Mx	0	4.75
7	MP1B	X	0	.25
8	MP1B	Z	-10.219	.25
9	MP1B	Mx	.004	.25
10	MP1B	X	0	4.75
11	MP1B	Z	-10.219	4.75
12	MP1B	Mx	.004	4.75
13	MP1C	X	0	.25
14	MP1C	Z	-10.219	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	-.004	.25
16	MP1C	X	0	4.75
17	MP1C	Z	-10.219	4.75
18	MP1C	Mx	-.004	4.75
19	MP4A	X	0	.25
20	MP4A	Z	-5.858	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	4.75
23	MP4A	Z	-5.858	4.75
24	MP4A	Mx	0	4.75
25	MP4B	X	0	.25
26	MP4B	Z	-10.219	.25
27	MP4B	Mx	.004	.25
28	MP4B	X	0	4.75
29	MP4B	Z	-10.219	4.75
30	MP4B	Mx	.004	4.75
31	MP4C	X	0	.25
32	MP4C	Z	-10.219	.25
33	MP4C	Mx	-.004	.25
34	MP4C	X	0	4.75
35	MP4C	Z	-10.219	4.75
36	MP4C	Mx	-.004	4.75
37	MP2A	X	0	.25
38	MP2A	Z	-11.053	.25
39	MP2A	Mx	-.006	.25
40	MP2A	X	0	4.75
41	MP2A	Z	-11.053	4.75
42	MP2A	Mx	-.006	4.75
43	MP2B	X	0	.25
44	MP2B	Z	-8.266	.25
45	MP2B	Mx	.006	.25
46	MP2B	X	0	4.75
47	MP2B	Z	-8.266	4.75
48	MP2B	Mx	.006	4.75
49	MP2C	X	0	.25
50	MP2C	Z	-8.266	.25
51	MP2C	Mx	-.001	.25
52	MP2C	X	0	4.75
53	MP2C	Z	-8.266	4.75
54	MP2C	Mx	-.001	4.75
55	MP2A	X	0	.25
56	MP2A	Z	-11.053	.25
57	MP2A	Mx	.006	.25
58	MP2A	X	0	4.75
59	MP2A	Z	-11.053	4.75
60	MP2A	Mx	.006	4.75
61	MP2B	X	0	.25
62	MP2B	Z	-8.266	.25
63	MP2B	Mx	.001	.25
64	MP2B	X	0	4.75
65	MP2B	Z	-8.266	4.75
66	MP2B	Mx	.001	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP2C	X	0	.25
68	MP2C	Z	-8.266	.25
69	MP2C	Mx	-.006	.25
70	MP2C	X	0	4.75
71	MP2C	Z	-8.266	4.75
72	MP2C	Mx	-.006	4.75
73	MP3A	X	0	1
74	MP3A	Z	-6.359	1
75	MP3A	Mx	0	1
76	MP3A	X	0	3
77	MP3A	Z	-6.359	3
78	MP3A	Mx	0	3
79	MP3B	X	0	1
80	MP3B	Z	-3.457	1
81	MP3B	Mx	.001	1
82	MP3B	X	0	3
83	MP3B	Z	-3.457	3
84	MP3B	Mx	.001	3
85	MP3C	X	0	1
86	MP3C	Z	-3.457	1
87	MP3C	Mx	-.001	1
88	MP3C	X	0	3
89	MP3C	Z	-3.457	3
90	MP3C	Mx	-.001	3
91	OVP	X	0	1
92	OVP	Z	-10.985	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	3.656	.25
2	MP1A	Z	-6.332	.25
3	MP1A	Mx	-.002	.25
4	MP1A	X	3.656	4.75
5	MP1A	Z	-6.332	4.75
6	MP1A	Mx	-.002	4.75
7	MP1B	X	5.837	.25
8	MP1B	Z	-10.109	.25
9	MP1B	Mx	.006	.25
10	MP1B	X	5.837	4.75
11	MP1B	Z	-10.109	4.75
12	MP1B	Mx	.006	4.75
13	MP1C	X	3.656	.25
14	MP1C	Z	-6.332	.25
15	MP1C	Mx	-.002	.25
16	MP1C	X	3.656	4.75
17	MP1C	Z	-6.332	4.75
18	MP1C	Mx	-.002	4.75
19	MP4A	X	3.656	.25
20	MP4A	Z	-6.332	.25
21	MP4A	Mx	-.002	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3A	Z	-4.669	1
75	MP3A	Mx	-.001	1
76	MP3A	X	2.696	3
77	MP3A	Z	-4.669	3
78	MP3A	Mx	-.001	3
79	MP3B	X	1.245	1
80	MP3B	Z	-2.156	1
81	MP3B	Mx	.001	1
82	MP3B	X	1.245	3
83	MP3B	Z	-2.156	3
84	MP3B	Mx	.001	3
85	MP3C	X	2.696	1
86	MP3C	Z	-4.669	1
87	MP3C	Mx	-.001	1
88	MP3C	X	2.696	3
89	MP3C	Z	-4.669	3
90	MP3C	Mx	-.001	3
91	OVP	X	5.167	1
92	OVP	Z	-8.95	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.85	.25
2	MP1A	Z	-5.11	.25
3	MP1A	Mx	-.004	.25
4	MP1A	X	8.85	4.75
5	MP1A	Z	-5.11	4.75
6	MP1A	Mx	-.004	4.75
7	MP1B	X	8.85	.25
8	MP1B	Z	-5.11	.25
9	MP1B	Mx	.004	.25
10	MP1B	X	8.85	4.75
11	MP1B	Z	-5.11	4.75
12	MP1B	Mx	.004	4.75
13	MP1C	X	5.073	.25
14	MP1C	Z	-2.929	.25
15	MP1C	Mx	0	.25
16	MP1C	X	5.073	4.75
17	MP1C	Z	-2.929	4.75
18	MP1C	Mx	0	4.75
19	MP4A	X	8.85	.25
20	MP4A	Z	-5.11	.25
21	MP4A	Mx	-.004	.25
22	MP4A	X	8.85	4.75
23	MP4A	Z	-5.11	4.75
24	MP4A	Mx	-.004	4.75
25	MP4B	X	8.85	.25
26	MP4B	Z	-5.11	.25
27	MP4B	Mx	.004	.25
28	MP4B	X	8.85	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4B	Z	-5.11	4.75
30	MP4B	Mx	.004	4.75
31	MP4C	X	5.073	.25
32	MP4C	Z	-2.929	.25
33	MP4C	Mx	0	.25
34	MP4C	X	5.073	4.75
35	MP4C	Z	-2.929	4.75
36	MP4C	Mx	0	4.75
37	MP2A	X	7.159	.25
38	MP2A	Z	-4.133	.25
39	MP2A	Mx	-.006	.25
40	MP2A	X	7.159	4.75
41	MP2A	Z	-4.133	4.75
42	MP2A	Mx	-.006	4.75
43	MP2B	X	7.159	.25
44	MP2B	Z	-4.133	.25
45	MP2B	Mx	.001	.25
46	MP2B	X	7.159	4.75
47	MP2B	Z	-4.133	4.75
48	MP2B	Mx	.001	4.75
49	MP2C	X	9.572	.25
50	MP2C	Z	-5.527	.25
51	MP2C	Mx	.006	.25
52	MP2C	X	9.572	4.75
53	MP2C	Z	-5.527	4.75
54	MP2C	Mx	.006	4.75
55	MP2A	X	7.159	.25
56	MP2A	Z	-4.133	.25
57	MP2A	Mx	-.001	.25
58	MP2A	X	7.159	4.75
59	MP2A	Z	-4.133	4.75
60	MP2A	Mx	-.001	4.75
61	MP2B	X	7.159	.25
62	MP2B	Z	-4.133	.25
63	MP2B	Mx	.006	.25
64	MP2B	X	7.159	4.75
65	MP2B	Z	-4.133	4.75
66	MP2B	Mx	.006	4.75
67	MP2C	X	9.572	.25
68	MP2C	Z	-5.527	.25
69	MP2C	Mx	-.006	.25
70	MP2C	X	9.572	4.75
71	MP2C	Z	-5.527	4.75
72	MP2C	Mx	-.006	4.75
73	MP3A	X	2.994	1
74	MP3A	Z	-1.728	1
75	MP3A	Mx	-.001	1
76	MP3A	X	2.994	3
77	MP3A	Z	-1.728	3
78	MP3A	Mx	-.001	3
79	MP3B	X	2.994	1
80	MP3B	Z	-1.728	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
81	MP3B	Mx	.001	1
82	MP3B	X	2.994	3
83	MP3B	Z	-1.728	3
84	MP3B	Mx	.001	3
85	MP3C	X	5.507	1
86	MP3C	Z	-3.179	1
87	MP3C	Mx	0	1
88	MP3C	X	5.507	3
89	MP3C	Z	-3.179	3
90	MP3C	Mx	0	3
91	OVP	X	7.822	1
92	OVP	Z	-4.516	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	11.673	.25
2	MP1A	Z	0	.25
3	MP1A	Mx	-.006	.25
4	MP1A	X	11.673	4.75
5	MP1A	Z	0	4.75
6	MP1A	Mx	-.006	4.75
7	MP1B	X	7.312	.25
8	MP1B	Z	0	.25
9	MP1B	Mx	.002	.25
10	MP1B	X	7.312	4.75
11	MP1B	Z	0	4.75
12	MP1B	Mx	.002	4.75
13	MP1C	X	7.312	.25
14	MP1C	Z	0	.25
15	MP1C	Mx	.002	.25
16	MP1C	X	7.312	4.75
17	MP1C	Z	0	4.75
18	MP1C	Mx	.002	4.75
19	MP4A	X	11.673	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	-.006	.25
22	MP4A	X	11.673	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	-.006	4.75
25	MP4B	X	7.312	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	.002	.25
28	MP4B	X	7.312	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	.002	4.75
31	MP4C	X	7.312	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	.002	.25
34	MP4C	X	7.312	4.75
35	MP4C	Z	0	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP4C	Mx	.002	4.75
37	MP2A	X	7.338	.25
38	MP2A	Z	0	.25
39	MP2A	Mx	-.004	.25
40	MP2A	X	7.338	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	-.004	4.75
43	MP2B	X	10.124	.25
44	MP2B	Z	0	.25
45	MP2B	Mx	-.003	.25
46	MP2B	X	10.124	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	-.003	4.75
49	MP2C	X	10.124	.25
50	MP2C	Z	0	.25
51	MP2C	Mx	.008	.25
52	MP2C	X	10.124	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	.008	4.75
55	MP2A	X	7.338	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	-.004	.25
58	MP2A	X	7.338	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	-.004	4.75
61	MP2B	X	10.124	.25
62	MP2B	Z	0	.25
63	MP2B	Mx	.008	.25
64	MP2B	X	10.124	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	.008	4.75
67	MP2C	X	10.124	.25
68	MP2C	Z	0	.25
69	MP2C	Mx	-.003	.25
70	MP2C	X	10.124	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	-.003	4.75
73	MP3A	X	2.489	1
74	MP3A	Z	0	1
75	MP3A	Mx	-.001	1
76	MP3A	X	2.489	3
77	MP3A	Z	0	3
78	MP3A	Mx	-.001	3
79	MP3B	X	5.391	1
80	MP3B	Z	0	1
81	MP3B	Mx	.001	1
82	MP3B	X	5.391	3
83	MP3B	Z	0	3
84	MP3B	Mx	.001	3
85	MP3C	X	5.391	1
86	MP3C	Z	0	1
87	MP3C	Mx	.001	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP3C	X	5.391	3
89	MP3C	Z	0	3
90	MP3C	Mx	.001	3
91	OVP	X	8.381	1
92	OVP	Z	0	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.85	.25
2	MP1A	Z	5.11	.25
3	MP1A	Mx	-.004	.25
4	MP1A	X	8.85	4.75
5	MP1A	Z	5.11	4.75
6	MP1A	Mx	-.004	4.75
7	MP1B	X	5.073	.25
8	MP1B	Z	2.929	.25
9	MP1B	Mx	0	.25
10	MP1B	X	5.073	4.75
11	MP1B	Z	2.929	4.75
12	MP1B	Mx	0	4.75
13	MP1C	X	8.85	.25
14	MP1C	Z	5.11	.25
15	MP1C	Mx	.004	.25
16	MP1C	X	8.85	4.75
17	MP1C	Z	5.11	4.75
18	MP1C	Mx	.004	4.75
19	MP4A	X	8.85	.25
20	MP4A	Z	5.11	.25
21	MP4A	Mx	-.004	.25
22	MP4A	X	8.85	4.75
23	MP4A	Z	5.11	4.75
24	MP4A	Mx	-.004	4.75
25	MP4B	X	5.073	.25
26	MP4B	Z	2.929	.25
27	MP4B	Mx	0	.25
28	MP4B	X	5.073	4.75
29	MP4B	Z	2.929	4.75
30	MP4B	Mx	0	4.75
31	MP4C	X	8.85	.25
32	MP4C	Z	5.11	.25
33	MP4C	Mx	.004	.25
34	MP4C	X	8.85	4.75
35	MP4C	Z	5.11	4.75
36	MP4C	Mx	.004	4.75
37	MP2A	X	7.159	.25
38	MP2A	Z	4.133	.25
39	MP2A	Mx	-.001	.25
40	MP2A	X	7.159	4.75
41	MP2A	Z	4.133	4.75
42	MP2A	Mx	-.001	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	3.656	.25
2	MP1A	Z	6.332	.25
3	MP1A	Mx	-.002	.25
4	MP1A	X	3.656	4.75
5	MP1A	Z	6.332	4.75
6	MP1A	Mx	-.002	4.75
7	MP1B	X	3.656	.25
8	MP1B	Z	6.332	.25
9	MP1B	Mx	-.002	.25
10	MP1B	X	3.656	4.75
11	MP1B	Z	6.332	4.75
12	MP1B	Mx	-.002	4.75
13	MP1C	X	5.837	.25
14	MP1C	Z	10.109	.25
15	MP1C	Mx	.006	.25
16	MP1C	X	5.837	4.75
17	MP1C	Z	10.109	4.75
18	MP1C	Mx	.006	4.75
19	MP4A	X	3.656	.25
20	MP4A	Z	6.332	.25
21	MP4A	Mx	-.002	.25
22	MP4A	X	3.656	4.75
23	MP4A	Z	6.332	4.75
24	MP4A	Mx	-.002	4.75
25	MP4B	X	3.656	.25
26	MP4B	Z	6.332	.25
27	MP4B	Mx	-.002	.25
28	MP4B	X	3.656	4.75
29	MP4B	Z	6.332	4.75
30	MP4B	Mx	-.002	4.75
31	MP4C	X	5.837	.25
32	MP4C	Z	10.109	.25
33	MP4C	Mx	.006	.25
34	MP4C	X	5.837	4.75
35	MP4C	Z	10.109	4.75
36	MP4C	Mx	.006	4.75
37	MP2A	X	5.062	.25
38	MP2A	Z	8.768	.25
39	MP2A	Mx	.003	.25
40	MP2A	X	5.062	4.75
41	MP2A	Z	8.768	4.75
42	MP2A	Mx	.003	4.75
43	MP2B	X	5.062	.25
44	MP2B	Z	8.768	.25
45	MP2B	Mx	-.008	.25
46	MP2B	X	5.062	4.75
47	MP2B	Z	8.768	4.75
48	MP2B	Mx	-.008	4.75
49	MP2C	X	3.669	.25
50	MP2C	Z	6.354	.25
51	MP2C	Mx	.004	.25
52	MP2C	X	3.669	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	10.219	.25
9	MP1B	Mx	-.004	.25
10	MP1B	X	0	4.75
11	MP1B	Z	10.219	4.75
12	MP1B	Mx	-.004	4.75
13	MP1C	X	0	.25
14	MP1C	Z	10.219	.25
15	MP1C	Mx	.004	.25
16	MP1C	X	0	4.75
17	MP1C	Z	10.219	4.75
18	MP1C	Mx	.004	4.75
19	MP4A	X	0	.25
20	MP4A	Z	5.858	.25
21	MP4A	Mx	0	.25
22	MP4A	X	0	4.75
23	MP4A	Z	5.858	4.75
24	MP4A	Mx	0	4.75
25	MP4B	X	0	.25
26	MP4B	Z	10.219	.25
27	MP4B	Mx	-.004	.25
28	MP4B	X	0	4.75
29	MP4B	Z	10.219	4.75
30	MP4B	Mx	-.004	4.75
31	MP4C	X	0	.25
32	MP4C	Z	10.219	.25
33	MP4C	Mx	.004	.25
34	MP4C	X	0	4.75
35	MP4C	Z	10.219	4.75
36	MP4C	Mx	.004	4.75
37	MP2A	X	0	.25
38	MP2A	Z	11.053	.25
39	MP2A	Mx	.006	.25
40	MP2A	X	0	4.75
41	MP2A	Z	11.053	4.75
42	MP2A	Mx	.006	4.75
43	MP2B	X	0	.25
44	MP2B	Z	8.266	.25
45	MP2B	Mx	-.006	.25
46	MP2B	X	0	4.75
47	MP2B	Z	8.266	4.75
48	MP2B	Mx	-.006	4.75
49	MP2C	X	0	.25
50	MP2C	Z	8.266	.25
51	MP2C	Mx	.001	.25
52	MP2C	X	0	4.75
53	MP2C	Z	8.266	4.75
54	MP2C	Mx	.001	4.75
55	MP2A	X	0	.25
56	MP2A	Z	11.053	.25
57	MP2A	Mx	-.006	.25
58	MP2A	X	0	4.75
59	MP2A	Z	11.053	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	-.006	4.75
61	MP2B	X	0	.25
62	MP2B	Z	8.266	.25
63	MP2B	Mx	-.001	.25
64	MP2B	X	0	4.75
65	MP2B	Z	8.266	4.75
66	MP2B	Mx	-.001	4.75
67	MP2C	X	0	.25
68	MP2C	Z	8.266	.25
69	MP2C	Mx	.006	.25
70	MP2C	X	0	4.75
71	MP2C	Z	8.266	4.75
72	MP2C	Mx	.006	4.75
73	MP3A	X	0	1
74	MP3A	Z	6.359	1
75	MP3A	Mx	0	1
76	MP3A	X	0	3
77	MP3A	Z	6.359	3
78	MP3A	Mx	0	3
79	MP3B	X	0	1
80	MP3B	Z	3.457	1
81	MP3B	Mx	-.001	1
82	MP3B	X	0	3
83	MP3B	Z	3.457	3
84	MP3B	Mx	-.001	3
85	MP3C	X	0	1
86	MP3C	Z	3.457	1
87	MP3C	Mx	.001	1
88	MP3C	X	0	3
89	MP3C	Z	3.457	3
90	MP3C	Mx	.001	3
91	OVP	X	0	1
92	OVP	Z	10.985	1
93	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-3.656	.25
2	MP1A	Z	6.332	.25
3	MP1A	Mx	.002	.25
4	MP1A	X	-3.656	4.75
5	MP1A	Z	6.332	4.75
6	MP1A	Mx	.002	4.75
7	MP1B	X	-5.837	.25
8	MP1B	Z	10.109	.25
9	MP1B	Mx	-.006	.25
10	MP1B	X	-5.837	4.75
11	MP1B	Z	10.109	4.75
12	MP1B	Mx	-.006	4.75
13	MP1C	X	-3.656	.25
14	MP1C	Z	6.332	.25



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
15	MP1C	Mx	.002	.25
16	MP1C	X	-3.656	4.75
17	MP1C	Z	6.332	4.75
18	MP1C	Mx	.002	4.75
19	MP4A	X	-3.656	.25
20	MP4A	Z	6.332	.25
21	MP4A	Mx	.002	.25
22	MP4A	X	-3.656	4.75
23	MP4A	Z	6.332	4.75
24	MP4A	Mx	.002	4.75
25	MP4B	X	-5.837	.25
26	MP4B	Z	10.109	.25
27	MP4B	Mx	-.006	.25
28	MP4B	X	-5.837	4.75
29	MP4B	Z	10.109	4.75
30	MP4B	Mx	-.006	4.75
31	MP4C	X	-3.656	.25
32	MP4C	Z	6.332	.25
33	MP4C	Mx	.002	.25
34	MP4C	X	-3.656	4.75
35	MP4C	Z	6.332	4.75
36	MP4C	Mx	.002	4.75
37	MP2A	X	-5.062	.25
38	MP2A	Z	8.768	.25
39	MP2A	Mx	.008	.25
40	MP2A	X	-5.062	4.75
41	MP2A	Z	8.768	4.75
42	MP2A	Mx	.008	4.75
43	MP2B	X	-3.669	.25
44	MP2B	Z	6.354	.25
45	MP2B	Mx	-.004	.25
46	MP2B	X	-3.669	4.75
47	MP2B	Z	6.354	4.75
48	MP2B	Mx	-.004	4.75
49	MP2C	X	-5.062	.25
50	MP2C	Z	8.768	.25
51	MP2C	Mx	-.003	.25
52	MP2C	X	-5.062	4.75
53	MP2C	Z	8.768	4.75
54	MP2C	Mx	-.003	4.75
55	MP2A	X	-5.062	.25
56	MP2A	Z	8.768	.25
57	MP2A	Mx	-.003	.25
58	MP2A	X	-5.062	4.75
59	MP2A	Z	8.768	4.75
60	MP2A	Mx	-.003	4.75
61	MP2B	X	-3.669	.25
62	MP2B	Z	6.354	.25
63	MP2B	Mx	-.004	.25
64	MP2B	X	-3.669	4.75
65	MP2B	Z	6.354	4.75
66	MP2B	Mx	-.004	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4B	Z	0	4.75
30	MP4B	Mx	-.002	4.75
31	MP4C	X	-7.312	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	-.002	.25
34	MP4C	X	-7.312	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	-.002	4.75
37	MP2A	X	-7.338	.25
38	MP2A	Z	0	.25
39	MP2A	Mx	.004	.25
40	MP2A	X	-7.338	4.75
41	MP2A	Z	0	4.75
42	MP2A	Mx	.004	4.75
43	MP2B	X	-10.124	.25
44	MP2B	Z	0	.25
45	MP2B	Mx	.003	.25
46	MP2B	X	-10.124	4.75
47	MP2B	Z	0	4.75
48	MP2B	Mx	.003	4.75
49	MP2C	X	-10.124	.25
50	MP2C	Z	0	.25
51	MP2C	Mx	-.008	.25
52	MP2C	X	-10.124	4.75
53	MP2C	Z	0	4.75
54	MP2C	Mx	-.008	4.75
55	MP2A	X	-7.338	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	.004	.25
58	MP2A	X	-7.338	4.75
59	MP2A	Z	0	4.75
60	MP2A	Mx	.004	4.75
61	MP2B	X	-10.124	.25
62	MP2B	Z	0	.25
63	MP2B	Mx	-.008	.25
64	MP2B	X	-10.124	4.75
65	MP2B	Z	0	4.75
66	MP2B	Mx	-.008	4.75
67	MP2C	X	-10.124	.25
68	MP2C	Z	0	.25
69	MP2C	Mx	.003	.25
70	MP2C	X	-10.124	4.75
71	MP2C	Z	0	4.75
72	MP2C	Mx	.003	4.75
73	MP3A	X	-2.489	1
74	MP3A	Z	0	1
75	MP3A	Mx	.001	1
76	MP3A	X	-2.489	3
77	MP3A	Z	0	3
78	MP3A	Mx	.001	3
79	MP3B	X	-5.391	1
80	MP3B	Z	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP2B	X	-5.062	.25
44	MP2B	Z	-8.768	.25
45	MP2B	Mx	.008	.25
46	MP2B	X	-5.062	4.75
47	MP2B	Z	-8.768	4.75
48	MP2B	Mx	.008	4.75
49	MP2C	X	-3.669	.25
50	MP2C	Z	-6.354	.25
51	MP2C	Mx	-.004	.25
52	MP2C	X	-3.669	4.75
53	MP2C	Z	-6.354	4.75
54	MP2C	Mx	-.004	4.75
55	MP2A	X	-5.062	.25
56	MP2A	Z	-8.768	.25
57	MP2A	Mx	.008	.25
58	MP2A	X	-5.062	4.75
59	MP2A	Z	-8.768	4.75
60	MP2A	Mx	.008	4.75
61	MP2B	X	-5.062	.25
62	MP2B	Z	-8.768	.25
63	MP2B	Mx	-.003	.25
64	MP2B	X	-5.062	4.75
65	MP2B	Z	-8.768	4.75
66	MP2B	Mx	-.003	4.75
67	MP2C	X	-3.669	.25
68	MP2C	Z	-6.354	.25
69	MP2C	Mx	-.004	.25
70	MP2C	X	-3.669	4.75
71	MP2C	Z	-6.354	4.75
72	MP2C	Mx	-.004	4.75
73	MP3A	X	-2.696	1
74	MP3A	Z	-4.669	1
75	MP3A	Mx	.001	1
76	MP3A	X	-2.696	3
77	MP3A	Z	-4.669	3
78	MP3A	Mx	.001	3
79	MP3B	X	-2.696	1
80	MP3B	Z	-4.669	1
81	MP3B	Mx	.001	1
82	MP3B	X	-2.696	3
83	MP3B	Z	-4.669	3
84	MP3B	Mx	.001	3
85	MP3C	X	-1.245	1
86	MP3C	Z	-2.156	1
87	MP3C	Mx	-.001	1
88	MP3C	X	-1.245	3
89	MP3C	Z	-2.156	3
90	MP3C	Mx	-.001	3
91	OVP	X	-5.167	1
92	OVP	Z	-8.95	1
93	OVP	Mx	0	1



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	MP2A	Z	-9.899	-9.899	0 %100
9	MP1A	X	4.721	4.721	0 %100
10	MP1A	Z	-8.178	-8.178	0 %100
11	M109A	X	5.177	5.177	0 %100
12	M109A	Z	-8.967	-8.967	0 %100
13	MP4C	X	4.721	4.721	0 %100
14	MP4C	Z	-8.178	-8.178	0 %100
15	M118A	X	0	0	0 %100
16	M118A	Z	0	0	0 %100
17	MP4B	X	4.721	4.721	0 %100
18	MP4B	Z	-8.178	-8.178	0 %100
19	M127A	X	2.982	2.982	0 %100
20	M127A	Z	-5.165	-5.165	0 %100
21	M128A	X	9.112	9.112	0 %100
22	M128A	Z	-15.782	-15.782	0 %100
23	M130A	X	9.597	9.597	0 %100
24	M130A	Z	-16.623	-16.623	0 %100
25	M132A	X	11.928	11.928	0 %100
26	M132A	Z	-20.66	-20.66	0 %100
27	M133A	X	9.112	9.112	0 %100
28	M133A	Z	-15.782	-15.782	0 %100
29	M135A	X	9.597	9.597	0 %100
30	M135A	Z	-16.623	-16.623	0 %100
31	M137A	X	11.928	11.928	0 %100
32	M137A	Z	-20.66	-20.66	0 %100
33	M138A	X	9.112	9.112	0 %100
34	M138A	Z	-15.782	-15.782	0 %100
35	M140A	X	9.597	9.597	0 %100
36	M140A	Z	-16.623	-16.623	0 %100
37	M142A	X	2.982	2.982	0 %100
38	M142A	Z	-5.165	-5.165	0 %100
39	M143A	X	9.112	9.112	0 %100
40	M143A	Z	-15.782	-15.782	0 %100
41	M145A	X	9.597	9.597	0 %100
42	M145A	Z	-16.623	-16.623	0 %100
43	M147A	X	2.982	2.982	0 %100
44	M147A	Z	-5.165	-5.165	0 %100
45	M148A	X	0	0	0 %100
46	M148A	Z	0	0	0 %100
47	M150A	X	0	0	0 %100
48	M150A	Z	0	0	0 %100
49	M152A	X	2.982	2.982	0 %100
50	M152A	Z	-5.165	-5.165	0 %100
51	M153A	X	0	0	0 %100
52	M153A	Z	0	0	0 %100
53	M155A	X	0	0	0 %100
54	M155A	Z	0	0	0 %100
55	M157A	X	8.946	8.946	0 %100
56	M157A	Z	-15.495	-15.495	0 %100
57	M158A	X	8.946	8.946	0 %100
58	M158A	Z	-15.495	-15.495	0 %100
59	M159A	X	0	0	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,%]
60	M159A	Z	0	0	0 %100
61	M160A	X	4.875	4.875	0 %100
62	M160A	Z	-8.443	-8.443	0 %100
63	M161A	X	4.875	4.875	0 %100
64	M161A	Z	-8.443	-8.443	0 %100
65	M162A	X	0	0	0 %100
66	M162A	Z	0	0	0 %100
67	M163A	X	1.767	1.767	0 %100
68	M163A	Z	-3.06	-3.06	0 %100
69	M164A	X	1.767	1.767	0 %100
70	M164A	Z	-3.06	-3.06	0 %100
71	M165A	X	7.067	7.067	0 %100
72	M165A	Z	-12.241	-12.241	0 %100
73	M171A	X	.000311	.000311	0 %100
74	M171A	Z	-.000538	-.000538	0 %100
75	M173A	X	5.009	5.009	0 %100
76	M173A	Z	-8.676	-8.676	0 %100
77	M177A	X	5.009	5.009	0 %100
78	M177A	Z	-8.676	-8.676	0 %100
79	M179A	X	.000311	.000311	0 %100
80	M179A	Z	-.000538	-.000538	0 %100
81	M183A	X	4.931	4.931	0 %100
82	M183A	Z	-8.54	-8.54	0 %100
83	M185A	X	4.931	4.931	0 %100
84	M185A	Z	-8.54	-8.54	0 %100
85	M189A	X	4.875	4.875	0 %100
86	M189A	Z	-8.443	-8.443	0 %100
87	M190A	X	4.875	4.875	0 %100
88	M190A	Z	-8.443	-8.443	0 %100
89	M191A	X	0	0	0 %100
90	M191A	Z	0	0	0 %100
91	MP3C	X	4.721	4.721	0 %100
92	MP3C	Z	-8.178	-8.178	0 %100
93	MP2C	X	5.715	5.715	0 %100
94	MP2C	Z	-9.899	-9.899	0 %100
95	MP1C	X	4.721	4.721	0 %100
96	MP1C	Z	-8.178	-8.178	0 %100
97	MP3B	X	4.721	4.721	0 %100
98	MP3B	Z	-8.178	-8.178	0 %100
99	MP2B	X	5.715	5.715	0 %100
100	MP2B	Z	-9.899	-9.899	0 %100
101	MP1B	X	4.721	4.721	0 %100
102	MP1B	Z	-8.178	-8.178	0 %100
103	M104	X	4.287	4.287	0 %100
104	M104	Z	-7.425	-7.425	0 %100
105	M109	X	4.287	4.287	0 %100
106	M109	Z	-7.425	-7.425	0 %100
107	M114	X	0	0	0 %100
108	M114	Z	0	0	0 %100
109	M115	X	5.049	5.049	0 %100
110	M115	Z	-8.745	-8.745	0 %100
111	M116	X	0	0	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,%]
112	M116	Z	0	0	0	%100
113	M117	X	5.049	5.049	0	%100
114	M117	Z	-8.745	-8.745	0	%100
115	OVP	X	3.861	3.861	0	%100
116	OVP	Z	-6.687	-6.687	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	2.989	2.989	0	%100
2	M1	Z	-1.726	-1.726	0	%100
3	MP3A	X	8.178	8.178	0	%100
4	MP3A	Z	-4.721	-4.721	0	%100
5	MP4A	X	8.178	8.178	0	%100
6	MP4A	Z	-4.721	-4.721	0	%100
7	MP2A	X	9.899	9.899	0	%100
8	MP2A	Z	-5.715	-5.715	0	%100
9	MP1A	X	8.178	8.178	0	%100
10	MP1A	Z	-4.721	-4.721	0	%100
11	M109A	X	11.956	11.956	0	%100
12	M109A	Z	-6.903	-6.903	0	%100
13	MP4C	X	8.178	8.178	0	%100
14	MP4C	Z	-4.721	-4.721	0	%100
15	M118A	X	2.989	2.989	0	%100
16	M118A	Z	-1.726	-1.726	0	%100
17	MP4B	X	8.178	8.178	0	%100
18	MP4B	Z	-4.721	-4.721	0	%100
19	M127A	X	0	0	0	%100
20	M127A	Z	0	0	0	%100
21	M128A	X	5.261	5.261	0	%100
22	M128A	Z	-3.037	-3.037	0	%100
23	M130A	X	5.541	5.541	0	%100
24	M130A	Z	-3.199	-3.199	0	%100
25	M132A	X	15.495	15.495	0	%100
26	M132A	Z	-8.946	-8.946	0	%100
27	M133A	X	5.261	5.261	0	%100
28	M133A	Z	-3.037	-3.037	0	%100
29	M135A	X	5.541	5.541	0	%100
30	M135A	Z	-3.199	-3.199	0	%100
31	M137A	X	15.495	15.495	0	%100
32	M137A	Z	-8.946	-8.946	0	%100
33	M138A	X	21.042	21.042	0	%100
34	M138A	Z	-12.149	-12.149	0	%100
35	M140A	X	22.163	22.163	0	%100
36	M140A	Z	-12.796	-12.796	0	%100
37	M142A	X	15.495	15.495	0	%100
38	M142A	Z	-8.946	-8.946	0	%100
39	M143A	X	21.042	21.042	0	%100
40	M143A	Z	-12.149	-12.149	0	%100
41	M145A	X	22.163	22.163	0	%100
42	M145A	Z	-12.796	-12.796	0	%100
43	M147A	X	15.495	15.495	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,%]
44	M147A	Z	-8.946	-8.946	0	%100
45	M148A	X	5.261	5.261	0	%100
46	M148A	Z	-3.037	-3.037	0	%100
47	M150A	X	5.541	5.541	0	%100
48	M150A	Z	-3.199	-3.199	0	%100
49	M152A	X	0	0	0	%100
50	M152A	Z	0	0	0	%100
51	M153A	X	5.261	5.261	0	%100
52	M153A	Z	-3.037	-3.037	0	%100
53	M155A	X	5.541	5.541	0	%100
54	M155A	Z	-3.199	-3.199	0	%100
55	M157A	X	20.66	20.66	0	%100
56	M157A	Z	-11.928	-11.928	0	%100
57	M158A	X	5.165	5.165	0	%100
58	M158A	Z	-2.982	-2.982	0	%100
59	M159A	X	5.165	5.165	0	%100
60	M159A	Z	-2.982	-2.982	0	%100
61	M160A	X	11.258	11.258	0	%100
62	M160A	Z	-6.5	-6.5	0	%100
63	M161A	X	2.814	2.814	0	%100
64	M161A	Z	-1.625	-1.625	0	%100
65	M162A	X	2.814	2.814	0	%100
66	M162A	Z	-1.625	-1.625	0	%100
67	M163A	X	9.181	9.181	0	%100
68	M163A	Z	-5.3	-5.3	0	%100
69	M164A	X	0	0	0	%100
70	M164A	Z	0	0	0	%100
71	M165A	X	9.181	9.181	0	%100
72	M165A	Z	-5.3	-5.3	0	%100
73	M171A	X	2.802	2.802	0	%100
74	M171A	Z	-1.618	-1.618	0	%100
75	M173A	X	11.477	11.477	0	%100
76	M173A	Z	-6.626	-6.626	0	%100
77	M177A	X	2.938	2.938	0	%100
78	M177A	Z	-1.696	-1.696	0	%100
79	M179A	X	2.938	2.938	0	%100
80	M179A	Z	-1.696	-1.696	0	%100
81	M183A	X	11.477	11.477	0	%100
82	M183A	Z	-6.626	-6.626	0	%100
83	M185A	X	2.802	2.802	0	%100
84	M185A	Z	-1.618	-1.618	0	%100
85	M189A	X	11.258	11.258	0	%100
86	M189A	Z	-6.5	-6.5	0	%100
87	M190A	X	2.814	2.814	0	%100
88	M190A	Z	-1.625	-1.625	0	%100
89	M191A	X	2.814	2.814	0	%100
90	M191A	Z	-1.625	-1.625	0	%100
91	MP3C	X	8.178	8.178	0	%100
92	MP3C	Z	-4.721	-4.721	0	%100
93	MP2C	X	9.899	9.899	0	%100
94	MP2C	Z	-5.715	-5.715	0	%100
95	MP1C	X	8.178	8.178	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,%]
96	MP1C	Z	-4.721	-4.721	0	%100
97	MP3B	X	8.178	8.178	0	%100
98	MP3B	Z	-4.721	-4.721	0	%100
99	MP2B	X	9.899	9.899	0	%100
100	MP2B	Z	-5.715	-5.715	0	%100
101	MP1B	X	8.178	8.178	0	%100
102	MP1B	Z	-4.721	-4.721	0	%100
103	M104	X	2.475	2.475	0	%100
104	M104	Z	-1.429	-1.429	0	%100
105	M109	X	9.899	9.899	0	%100
106	M109	Z	-5.715	-5.715	0	%100
107	M114	X	2.475	2.475	0	%100
108	M114	Z	-1.429	-1.429	0	%100
109	M115	X	11.66	11.66	0	%100
110	M115	Z	-6.732	-6.732	0	%100
111	M116	X	2.915	2.915	0	%100
112	M116	Z	-1.683	-1.683	0	%100
113	M117	X	2.915	2.915	0	%100
114	M117	Z	-1.683	-1.683	0	%100
115	OVP	X	6.687	6.687	0	%100
116	OVP	Z	-3.861	-3.861	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	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP3A	X	9.443	9.443	0	%100
4	MP3A	Z	0	0	0	%100
5	MP4A	X	9.443	9.443	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	11.431	11.431	0	%100
8	MP2A	Z	0	0	0	%100
9	MP1A	X	9.443	9.443	0	%100
10	MP1A	Z	0	0	0	%100
11	M109A	X	10.355	10.355	0	%100
12	M109A	Z	0	0	0	%100
13	MP4C	X	9.443	9.443	0	%100
14	MP4C	Z	0	0	0	%100
15	M118A	X	10.355	10.355	0	%100
16	M118A	Z	0	0	0	%100
17	MP4B	X	9.443	9.443	0	%100
18	MP4B	Z	0	0	0	%100
19	M127A	X	5.964	5.964	0	%100
20	M127A	Z	0	0	0	%100
21	M128A	X	0	0	0	%100
22	M128A	Z	0	0	0	%100
23	M130A	X	0	0	0	%100
24	M130A	Z	0	0	0	%100
25	M132A	X	5.964	5.964	0	%100
26	M132A	Z	0	0	0	%100
27	M133A	X	0	0	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,%]
12	M109A	Z	1.726	1.726	0 %100
13	MP4C	X	8.178	8.178	0 %100
14	MP4C	Z	4.721	4.721	0 %100
15	M118A	X	11.956	11.956	0 %100
16	M118A	Z	6.903	6.903	0 %100
17	MP4B	X	8.178	8.178	0 %100
18	MP4B	Z	4.721	4.721	0 %100
19	M127A	X	15.495	15.495	0 %100
20	M127A	Z	8.946	8.946	0 %100
21	M128A	X	5.261	5.261	0 %100
22	M128A	Z	3.037	3.037	0 %100
23	M130A	X	5.541	5.541	0 %100
24	M130A	Z	3.199	3.199	0 %100
25	M132A	X	0	0	0 %100
26	M132A	Z	0	0	0 %100
27	M133A	X	5.261	5.261	0 %100
28	M133A	Z	3.037	3.037	0 %100
29	M135A	X	5.541	5.541	0 %100
30	M135A	Z	3.199	3.199	0 %100
31	M137A	X	0	0	0 %100
32	M137A	Z	0	0	0 %100
33	M138A	X	5.261	5.261	0 %100
34	M138A	Z	3.037	3.037	0 %100
35	M140A	X	5.541	5.541	0 %100
36	M140A	Z	3.199	3.199	0 %100
37	M142A	X	15.495	15.495	0 %100
38	M142A	Z	8.946	8.946	0 %100
39	M143A	X	5.261	5.261	0 %100
40	M143A	Z	3.037	3.037	0 %100
41	M145A	X	5.541	5.541	0 %100
42	M145A	Z	3.199	3.199	0 %100
43	M147A	X	15.495	15.495	0 %100
44	M147A	Z	8.946	8.946	0 %100
45	M148A	X	21.042	21.042	0 %100
46	M148A	Z	12.149	12.149	0 %100
47	M150A	X	22.163	22.163	0 %100
48	M150A	Z	12.796	12.796	0 %100
49	M152A	X	15.495	15.495	0 %100
50	M152A	Z	8.946	8.946	0 %100
51	M153A	X	21.042	21.042	0 %100
52	M153A	Z	12.149	12.149	0 %100
53	M155A	X	22.163	22.163	0 %100
54	M155A	Z	12.796	12.796	0 %100
55	M157A	X	5.165	5.165	0 %100
56	M157A	Z	2.982	2.982	0 %100
57	M158A	X	5.165	5.165	0 %100
58	M158A	Z	2.982	2.982	0 %100
59	M159A	X	20.66	20.66	0 %100
60	M159A	Z	11.928	11.928	0 %100
61	M160A	X	2.814	2.814	0 %100
62	M160A	Z	1.625	1.625	0 %100
63	M161A	X	2.814	2.814	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,%]
116	OVP	Z	3.861	3.861	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	5.177	5.177	0 %100
2	M1	Z	8.967	8.967	0 %100
3	MP3A	X	4.721	4.721	0 %100
4	MP3A	Z	8.178	8.178	0 %100
5	MP4A	X	4.721	4.721	0 %100
6	MP4A	Z	8.178	8.178	0 %100
7	MP2A	X	5.715	5.715	0 %100
8	MP2A	Z	9.899	9.899	0 %100
9	MP1A	X	4.721	4.721	0 %100
10	MP1A	Z	8.178	8.178	0 %100
11	M109A	X	0	0	0 %100
12	M109A	Z	0	0	0 %100
13	MP4C	X	4.721	4.721	0 %100
14	MP4C	Z	8.178	8.178	0 %100
15	M118A	X	5.177	5.177	0 %100
16	M118A	Z	8.967	8.967	0 %100
17	MP4B	X	4.721	4.721	0 %100
18	MP4B	Z	8.178	8.178	0 %100
19	M127A	X	11.928	11.928	0 %100
20	M127A	Z	20.66	20.66	0 %100
21	M128A	X	9.112	9.112	0 %100
22	M128A	Z	15.782	15.782	0 %100
23	M130A	X	9.597	9.597	0 %100
24	M130A	Z	16.623	16.623	0 %100
25	M132A	X	2.982	2.982	0 %100
26	M132A	Z	5.165	5.165	0 %100
27	M133A	X	9.112	9.112	0 %100
28	M133A	Z	15.782	15.782	0 %100
29	M135A	X	9.597	9.597	0 %100
30	M135A	Z	16.623	16.623	0 %100
31	M137A	X	2.982	2.982	0 %100
32	M137A	Z	5.165	5.165	0 %100
33	M138A	X	0	0	0 %100
34	M138A	Z	0	0	0 %100
35	M140A	X	0	0	0 %100
36	M140A	Z	0	0	0 %100
37	M142A	X	2.982	2.982	0 %100
38	M142A	Z	5.165	5.165	0 %100
39	M143A	X	0	0	0 %100
40	M143A	Z	0	0	0 %100
41	M145A	X	0	0	0 %100
42	M145A	Z	0	0	0 %100
43	M147A	X	2.982	2.982	0 %100
44	M147A	Z	5.165	5.165	0 %100
45	M148A	X	9.112	9.112	0 %100
46	M148A	Z	15.782	15.782	0 %100
47	M150A	X	9.597	9.597	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,%]
48	M150A	Z	16.623	16.623	0 %100
49	M152A	X	11.928	11.928	0 %100
50	M152A	Z	20.66	20.66	0 %100
51	M153A	X	9.112	9.112	0 %100
52	M153A	Z	15.782	15.782	0 %100
53	M155A	X	9.597	9.597	0 %100
54	M155A	Z	16.623	16.623	0 %100
55	M157A	X	0	0	0 %100
56	M157A	Z	0	0	0 %100
57	M158A	X	8.946	8.946	0 %100
58	M158A	Z	15.495	15.495	0 %100
59	M159A	X	8.946	8.946	0 %100
60	M159A	Z	15.495	15.495	0 %100
61	M160A	X	0	0	0 %100
62	M160A	Z	0	0	0 %100
63	M161A	X	4.875	4.875	0 %100
64	M161A	Z	8.443	8.443	0 %100
65	M162A	X	4.875	4.875	0 %100
66	M162A	Z	8.443	8.443	0 %100
67	M163A	X	1.767	1.767	0 %100
68	M163A	Z	3.06	3.06	0 %100
69	M164A	X	7.067	7.067	0 %100
70	M164A	Z	12.241	12.241	0 %100
71	M165A	X	1.767	1.767	0 %100
72	M165A	Z	3.06	3.06	0 %100
73	M171A	X	5.009	5.009	0 %100
74	M171A	Z	8.676	8.676	0 %100
75	M173A	X	.000311	.000311	0 %100
76	M173A	Z	.000538	.000538	0 %100
77	M177A	X	4.931	4.931	0 %100
78	M177A	Z	8.54	8.54	0 %100
79	M179A	X	4.931	4.931	0 %100
80	M179A	Z	8.54	8.54	0 %100
81	M183A	X	.000311	.000311	0 %100
82	M183A	Z	.000538	.000538	0 %100
83	M185A	X	5.009	5.009	0 %100
84	M185A	Z	8.676	8.676	0 %100
85	M189A	X	0	0	0 %100
86	M189A	Z	0	0	0 %100
87	M190A	X	4.875	4.875	0 %100
88	M190A	Z	8.443	8.443	0 %100
89	M191A	X	4.875	4.875	0 %100
90	M191A	Z	8.443	8.443	0 %100
91	MP3C	X	4.721	4.721	0 %100
92	MP3C	Z	8.178	8.178	0 %100
93	MP2C	X	5.715	5.715	0 %100
94	MP2C	Z	9.899	9.899	0 %100
95	MP1C	X	4.721	4.721	0 %100
96	MP1C	Z	8.178	8.178	0 %100
97	MP3B	X	4.721	4.721	0 %100
98	MP3B	Z	8.178	8.178	0 %100
99	MP2B	X	5.715	5.715	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, %]
100	MP2B	Z	9.899	9.899	0	%100
101	MP1B	X	4.721	4.721	0	%100
102	MP1B	Z	8.178	8.178	0	%100
103	M104	X	4.287	4.287	0	%100
104	M104	Z	7.425	7.425	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	4.287	4.287	0	%100
108	M114	Z	7.425	7.425	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	5.049	5.049	0	%100
112	M116	Z	8.745	8.745	0	%100
113	M117	X	5.049	5.049	0	%100
114	M117	Z	8.745	8.745	0	%100
115	OVP	X	3.861	3.861	0	%100
116	OVP	Z	6.687	6.687	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	13.806	13.806	0	%100
3	MP3A	X	0	0	0	%100
4	MP3A	Z	9.443	9.443	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	9.443	9.443	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	11.431	11.431	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	9.443	9.443	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	3.452	3.452	0	%100
13	MP4C	X	0	0	0	%100
14	MP4C	Z	9.443	9.443	0	%100
15	M118A	X	0	0	0	%100
16	M118A	Z	3.452	3.452	0	%100
17	MP4B	X	0	0	0	%100
18	MP4B	Z	9.443	9.443	0	%100
19	M127A	X	0	0	0	%100
20	M127A	Z	17.892	17.892	0	%100
21	M128A	X	0	0	0	%100
22	M128A	Z	24.298	24.298	0	%100
23	M130A	X	0	0	0	%100
24	M130A	Z	25.592	25.592	0	%100
25	M132A	X	0	0	0	%100
26	M132A	Z	17.892	17.892	0	%100
27	M133A	X	0	0	0	%100
28	M133A	Z	24.298	24.298	0	%100
29	M135A	X	0	0	0	%100
30	M135A	Z	25.592	25.592	0	%100
31	M137A	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, %]
32	M137A	Z	17.892	17.892	0	%100
33	M138A	X	0	0	0	%100
34	M138A	Z	6.074	6.074	0	%100
35	M140A	X	0	0	0	%100
36	M140A	Z	6.398	6.398	0	%100
37	M142A	X	0	0	0	%100
38	M142A	Z	0	0	0	%100
39	M143A	X	0	0	0	%100
40	M143A	Z	6.074	6.074	0	%100
41	M145A	X	0	0	0	%100
42	M145A	Z	6.398	6.398	0	%100
43	M147A	X	0	0	0	%100
44	M147A	Z	0	0	0	%100
45	M148A	X	0	0	0	%100
46	M148A	Z	6.074	6.074	0	%100
47	M150A	X	0	0	0	%100
48	M150A	Z	6.398	6.398	0	%100
49	M152A	X	0	0	0	%100
50	M152A	Z	17.892	17.892	0	%100
51	M153A	X	0	0	0	%100
52	M153A	Z	6.074	6.074	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	6.398	6.398	0	%100
55	M157A	X	0	0	0	%100
56	M157A	Z	5.964	5.964	0	%100
57	M158A	X	0	0	0	%100
58	M158A	Z	23.856	23.856	0	%100
59	M159A	X	0	0	0	%100
60	M159A	Z	5.964	5.964	0	%100
61	M160A	X	0	0	0	%100
62	M160A	Z	3.25	3.25	0	%100
63	M161A	X	0	0	0	%100
64	M161A	Z	12.999	12.999	0	%100
65	M162A	X	0	0	0	%100
66	M162A	Z	3.25	3.25	0	%100
67	M163A	X	0	0	0	%100
68	M163A	Z	0	0	0	%100
69	M164A	X	0	0	0	%100
70	M164A	Z	10.601	10.601	0	%100
71	M165A	X	0	0	0	%100
72	M165A	Z	10.601	10.601	0	%100
73	M171A	X	0	0	0	%100
74	M171A	Z	3.392	3.392	0	%100
75	M173A	X	0	0	0	%100
76	M173A	Z	3.392	3.392	0	%100
77	M177A	X	0	0	0	%100
78	M177A	Z	13.253	13.253	0	%100
79	M179A	X	0	0	0	%100
80	M179A	Z	3.235	3.235	0	%100
81	M183A	X	0	0	0	%100
82	M183A	Z	3.235	3.235	0	%100
83	M185A	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, %]
84	M185A	Z	13.253	13.253	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	3.25	3.25	0	%100
87	M190A	X	0	0	0	%100
88	M190A	Z	12.999	12.999	0	%100
89	M191A	X	0	0	0	%100
90	M191A	Z	3.25	3.25	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	9.443	9.443	0	%100
93	MP2C	X	0	0	0	%100
94	MP2C	Z	11.431	11.431	0	%100
95	MP1C	X	0	0	0	%100
96	MP1C	Z	9.443	9.443	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	9.443	9.443	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	11.431	11.431	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	9.443	9.443	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	11.431	11.431	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	2.858	2.858	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	2.858	2.858	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	3.366	3.366	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	3.366	3.366	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	13.464	13.464	0	%100
115	OVP	X	0	0	0	%100
116	OVP	Z	7.722	7.722	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	-5.177	-5.177	0	%100
2	M1	Z	8.967	8.967	0	%100
3	MP3A	X	-4.721	-4.721	0	%100
4	MP3A	Z	8.178	8.178	0	%100
5	MP4A	X	-4.721	-4.721	0	%100
6	MP4A	Z	8.178	8.178	0	%100
7	MP2A	X	-5.715	-5.715	0	%100
8	MP2A	Z	9.899	9.899	0	%100
9	MP1A	X	-4.721	-4.721	0	%100
10	MP1A	Z	8.178	8.178	0	%100
11	M109A	X	-5.177	-5.177	0	%100
12	M109A	Z	8.967	8.967	0	%100
13	MP4C	X	-4.721	-4.721	0	%100
14	MP4C	Z	8.178	8.178	0	%100
15	M118A	X	0	0	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,%]
16	M118A	Z	0	0	0 %100
17	MP4B	X	-4.721	-4.721	0 %100
18	MP4B	Z	8.178	8.178	0 %100
19	M127A	X	-2.982	-2.982	0 %100
20	M127A	Z	5.165	5.165	0 %100
21	M128A	X	-9.112	-9.112	0 %100
22	M128A	Z	15.782	15.782	0 %100
23	M130A	X	-9.597	-9.597	0 %100
24	M130A	Z	16.623	16.623	0 %100
25	M132A	X	-11.928	-11.928	0 %100
26	M132A	Z	20.66	20.66	0 %100
27	M133A	X	-9.112	-9.112	0 %100
28	M133A	Z	15.782	15.782	0 %100
29	M135A	X	-9.597	-9.597	0 %100
30	M135A	Z	16.623	16.623	0 %100
31	M137A	X	-11.928	-11.928	0 %100
32	M137A	Z	20.66	20.66	0 %100
33	M138A	X	-9.112	-9.112	0 %100
34	M138A	Z	15.782	15.782	0 %100
35	M140A	X	-9.597	-9.597	0 %100
36	M140A	Z	16.623	16.623	0 %100
37	M142A	X	-2.982	-2.982	0 %100
38	M142A	Z	5.165	5.165	0 %100
39	M143A	X	-9.112	-9.112	0 %100
40	M143A	Z	15.782	15.782	0 %100
41	M145A	X	-9.597	-9.597	0 %100
42	M145A	Z	16.623	16.623	0 %100
43	M147A	X	-2.982	-2.982	0 %100
44	M147A	Z	5.165	5.165	0 %100
45	M148A	X	0	0	0 %100
46	M148A	Z	0	0	0 %100
47	M150A	X	0	0	0 %100
48	M150A	Z	0	0	0 %100
49	M152A	X	-2.982	-2.982	0 %100
50	M152A	Z	5.165	5.165	0 %100
51	M153A	X	0	0	0 %100
52	M153A	Z	0	0	0 %100
53	M155A	X	0	0	0 %100
54	M155A	Z	0	0	0 %100
55	M157A	X	-8.946	-8.946	0 %100
56	M157A	Z	15.495	15.495	0 %100
57	M158A	X	-8.946	-8.946	0 %100
58	M158A	Z	15.495	15.495	0 %100
59	M159A	X	0	0	0 %100
60	M159A	Z	0	0	0 %100
61	M160A	X	-4.875	-4.875	0 %100
62	M160A	Z	8.443	8.443	0 %100
63	M161A	X	-4.875	-4.875	0 %100
64	M161A	Z	8.443	8.443	0 %100
65	M162A	X	0	0	0 %100
66	M162A	Z	0	0	0 %100
67	M163A	X	-1.767	-1.767	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,%]
53	M155A	X	-5.541	-5.541	0 %100
54	M155A	Z	3.199	3.199	0 %100
55	M157A	X	-20.66	-20.66	0 %100
56	M157A	Z	11.928	11.928	0 %100
57	M158A	X	-5.165	-5.165	0 %100
58	M158A	Z	2.982	2.982	0 %100
59	M159A	X	-5.165	-5.165	0 %100
60	M159A	Z	2.982	2.982	0 %100
61	M160A	X	-11.258	-11.258	0 %100
62	M160A	Z	6.5	6.5	0 %100
63	M161A	X	-2.814	-2.814	0 %100
64	M161A	Z	1.625	1.625	0 %100
65	M162A	X	-2.814	-2.814	0 %100
66	M162A	Z	1.625	1.625	0 %100
67	M163A	X	-9.181	-9.181	0 %100
68	M163A	Z	5.3	5.3	0 %100
69	M164A	X	0	0	0 %100
70	M164A	Z	0	0	0 %100
71	M165A	X	-9.181	-9.181	0 %100
72	M165A	Z	5.3	5.3	0 %100
73	M171A	X	-2.802	-2.802	0 %100
74	M171A	Z	1.618	1.618	0 %100
75	M173A	X	-11.477	-11.477	0 %100
76	M173A	Z	6.626	6.626	0 %100
77	M177A	X	-2.938	-2.938	0 %100
78	M177A	Z	1.696	1.696	0 %100
79	M179A	X	-2.938	-2.938	0 %100
80	M179A	Z	1.696	1.696	0 %100
81	M183A	X	-11.477	-11.477	0 %100
82	M183A	Z	6.626	6.626	0 %100
83	M185A	X	-2.802	-2.802	0 %100
84	M185A	Z	1.618	1.618	0 %100
85	M189A	X	-11.258	-11.258	0 %100
86	M189A	Z	6.5	6.5	0 %100
87	M190A	X	-2.814	-2.814	0 %100
88	M190A	Z	1.625	1.625	0 %100
89	M191A	X	-2.814	-2.814	0 %100
90	M191A	Z	1.625	1.625	0 %100
91	MP3C	X	-8.178	-8.178	0 %100
92	MP3C	Z	4.721	4.721	0 %100
93	MP2C	X	-9.899	-9.899	0 %100
94	MP2C	Z	5.715	5.715	0 %100
95	MP1C	X	-8.178	-8.178	0 %100
96	MP1C	Z	4.721	4.721	0 %100
97	MP3B	X	-8.178	-8.178	0 %100
98	MP3B	Z	4.721	4.721	0 %100
99	MP2B	X	-9.899	-9.899	0 %100
100	MP2B	Z	5.715	5.715	0 %100
101	MP1B	X	-8.178	-8.178	0 %100
102	MP1B	Z	4.721	4.721	0 %100
103	M104	X	-2.475	-2.475	0 %100
104	M104	Z	1.429	1.429	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,%]
105	M109	X	-9.899	-9.899	0	%100
106	M109	Z	5.715	5.715	0	%100
107	M114	X	-2.475	-2.475	0	%100
108	M114	Z	1.429	1.429	0	%100
109	M115	X	-11.66	-11.66	0	%100
110	M115	Z	6.732	6.732	0	%100
111	M116	X	-2.915	-2.915	0	%100
112	M116	Z	1.683	1.683	0	%100
113	M117	X	-2.915	-2.915	0	%100
114	M117	Z	1.683	1.683	0	%100
115	OVP	X	-6.687	-6.687	0	%100
116	OVP	Z	3.861	3.861	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP3A	X	-9.443	-9.443	0	%100
4	MP3A	Z	0	0	0	%100
5	MP4A	X	-9.443	-9.443	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	-11.431	-11.431	0	%100
8	MP2A	Z	0	0	0	%100
9	MP1A	X	-9.443	-9.443	0	%100
10	MP1A	Z	0	0	0	%100
11	M109A	X	-10.355	-10.355	0	%100
12	M109A	Z	0	0	0	%100
13	MP4C	X	-9.443	-9.443	0	%100
14	MP4C	Z	0	0	0	%100
15	M118A	X	-10.355	-10.355	0	%100
16	M118A	Z	0	0	0	%100
17	MP4B	X	-9.443	-9.443	0	%100
18	MP4B	Z	0	0	0	%100
19	M127A	X	-5.964	-5.964	0	%100
20	M127A	Z	0	0	0	%100
21	M128A	X	0	0	0	%100
22	M128A	Z	0	0	0	%100
23	M130A	X	0	0	0	%100
24	M130A	Z	0	0	0	%100
25	M132A	X	-5.964	-5.964	0	%100
26	M132A	Z	0	0	0	%100
27	M133A	X	0	0	0	%100
28	M133A	Z	0	0	0	%100
29	M135A	X	0	0	0	%100
30	M135A	Z	0	0	0	%100
31	M137A	X	-5.964	-5.964	0	%100
32	M137A	Z	0	0	0	%100
33	M138A	X	-18.223	-18.223	0	%100
34	M138A	Z	0	0	0	%100
35	M140A	X	-19.194	-19.194	0	%100
36	M140A	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
89	M191A	X	-9.749	-9.749	0 %100
90	M191A	Z	0	0	0 %100
91	MP3C	X	-9.443	-9.443	0 %100
92	MP3C	Z	0	0	0 %100
93	MP2C	X	-11.431	-11.431	0 %100
94	MP2C	Z	0	0	0 %100
95	MP1C	X	-9.443	-9.443	0 %100
96	MP1C	Z	0	0	0 %100
97	MP3B	X	-9.443	-9.443	0 %100
98	MP3B	Z	0	0	0 %100
99	MP2B	X	-11.431	-11.431	0 %100
100	MP2B	Z	0	0	0 %100
101	MP1B	X	-9.443	-9.443	0 %100
102	MP1B	Z	0	0	0 %100
103	M104	X	0	0	0 %100
104	M104	Z	0	0	0 %100
105	M109	X	-8.573	-8.573	0 %100
106	M109	Z	0	0	0 %100
107	M114	X	-8.573	-8.573	0 %100
108	M114	Z	0	0	0 %100
109	M115	X	-10.098	-10.098	0 %100
110	M115	Z	0	0	0 %100
111	M116	X	-10.098	-10.098	0 %100
112	M116	Z	0	0	0 %100
113	M117	X	0	0	0 %100
114	M117	Z	0	0	0 %100
115	OVP	X	-7.722	-7.722	0 %100
116	OVP	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	-2.989	-2.989	0 %100
2	M1	Z	-1.726	-1.726	0 %100
3	MP3A	X	-8.178	-8.178	0 %100
4	MP3A	Z	-4.721	-4.721	0 %100
5	MP4A	X	-8.178	-8.178	0 %100
6	MP4A	Z	-4.721	-4.721	0 %100
7	MP2A	X	-9.899	-9.899	0 %100
8	MP2A	Z	-5.715	-5.715	0 %100
9	MP1A	X	-8.178	-8.178	0 %100
10	MP1A	Z	-4.721	-4.721	0 %100
11	M109A	X	-2.989	-2.989	0 %100
12	M109A	Z	-1.726	-1.726	0 %100
13	MP4C	X	-8.178	-8.178	0 %100
14	MP4C	Z	-4.721	-4.721	0 %100
15	M118A	X	-11.956	-11.956	0 %100
16	M118A	Z	-6.903	-6.903	0 %100
17	MP4B	X	-8.178	-8.178	0 %100
18	MP4B	Z	-4.721	-4.721	0 %100
19	M127A	X	-15.495	-15.495	0 %100
20	M127A	Z	-8.946	-8.946	0 %100



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 Designer :
 Job Number :
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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, %]
21	M128A	X	-5.261	-5.261	0 %100
22	M128A	Z	-3.037	-3.037	0 %100
23	M130A	X	-5.541	-5.541	0 %100
24	M130A	Z	-3.199	-3.199	0 %100
25	M132A	X	0	0	0 %100
26	M132A	Z	0	0	0 %100
27	M133A	X	-5.261	-5.261	0 %100
28	M133A	Z	-3.037	-3.037	0 %100
29	M135A	X	-5.541	-5.541	0 %100
30	M135A	Z	-3.199	-3.199	0 %100
31	M137A	X	0	0	0 %100
32	M137A	Z	0	0	0 %100
33	M138A	X	-5.261	-5.261	0 %100
34	M138A	Z	-3.037	-3.037	0 %100
35	M140A	X	-5.541	-5.541	0 %100
36	M140A	Z	-3.199	-3.199	0 %100
37	M142A	X	-15.495	-15.495	0 %100
38	M142A	Z	-8.946	-8.946	0 %100
39	M143A	X	-5.261	-5.261	0 %100
40	M143A	Z	-3.037	-3.037	0 %100
41	M145A	X	-5.541	-5.541	0 %100
42	M145A	Z	-3.199	-3.199	0 %100
43	M147A	X	-15.495	-15.495	0 %100
44	M147A	Z	-8.946	-8.946	0 %100
45	M148A	X	-21.042	-21.042	0 %100
46	M148A	Z	-12.149	-12.149	0 %100
47	M150A	X	-22.163	-22.163	0 %100
48	M150A	Z	-12.796	-12.796	0 %100
49	M152A	X	-15.495	-15.495	0 %100
50	M152A	Z	-8.946	-8.946	0 %100
51	M153A	X	-21.042	-21.042	0 %100
52	M153A	Z	-12.149	-12.149	0 %100
53	M155A	X	-22.163	-22.163	0 %100
54	M155A	Z	-12.796	-12.796	0 %100
55	M157A	X	-5.165	-5.165	0 %100
56	M157A	Z	-2.982	-2.982	0 %100
57	M158A	X	-5.165	-5.165	0 %100
58	M158A	Z	-2.982	-2.982	0 %100
59	M159A	X	-20.66	-20.66	0 %100
60	M159A	Z	-11.928	-11.928	0 %100
61	M160A	X	-2.814	-2.814	0 %100
62	M160A	Z	-1.625	-1.625	0 %100
63	M161A	X	-2.814	-2.814	0 %100
64	M161A	Z	-1.625	-1.625	0 %100
65	M162A	X	-11.258	-11.258	0 %100
66	M162A	Z	-6.5	-6.5	0 %100
67	M163A	X	-9.181	-9.181	0 %100
68	M163A	Z	-5.3	-5.3	0 %100
69	M164A	X	-9.181	-9.181	0 %100
70	M164A	Z	-5.3	-5.3	0 %100
71	M165A	X	0	0	0 %100
72	M165A	Z	0	0	0 %100



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 Designer :
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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, %]
73	M171A	X	-11.477	-11.477	0	%100
74	M171A	Z	-6.626	-6.626	0	%100
75	M173A	X	-2.802	-2.802	0	%100
76	M173A	Z	-1.618	-1.618	0	%100
77	M177A	X	-2.802	-2.802	0	%100
78	M177A	Z	-1.618	-1.618	0	%100
79	M179A	X	-11.477	-11.477	0	%100
80	M179A	Z	-6.626	-6.626	0	%100
81	M183A	X	-2.938	-2.938	0	%100
82	M183A	Z	-1.696	-1.696	0	%100
83	M185A	X	-2.938	-2.938	0	%100
84	M185A	Z	-1.696	-1.696	0	%100
85	M189A	X	-2.814	-2.814	0	%100
86	M189A	Z	-1.625	-1.625	0	%100
87	M190A	X	-2.814	-2.814	0	%100
88	M190A	Z	-1.625	-1.625	0	%100
89	M191A	X	-11.258	-11.258	0	%100
90	M191A	Z	-6.5	-6.5	0	%100
91	MP3C	X	-8.178	-8.178	0	%100
92	MP3C	Z	-4.721	-4.721	0	%100
93	MP2C	X	-9.899	-9.899	0	%100
94	MP2C	Z	-5.715	-5.715	0	%100
95	MP1C	X	-8.178	-8.178	0	%100
96	MP1C	Z	-4.721	-4.721	0	%100
97	MP3B	X	-8.178	-8.178	0	%100
98	MP3B	Z	-4.721	-4.721	0	%100
99	MP2B	X	-9.899	-9.899	0	%100
100	MP2B	Z	-5.715	-5.715	0	%100
101	MP1B	X	-8.178	-8.178	0	%100
102	MP1B	Z	-4.721	-4.721	0	%100
103	M104	X	-2.475	-2.475	0	%100
104	M104	Z	-1.429	-1.429	0	%100
105	M109	X	-2.475	-2.475	0	%100
106	M109	Z	-1.429	-1.429	0	%100
107	M114	X	-9.899	-9.899	0	%100
108	M114	Z	-5.715	-5.715	0	%100
109	M115	X	-2.915	-2.915	0	%100
110	M115	Z	-1.683	-1.683	0	%100
111	M116	X	-11.66	-11.66	0	%100
112	M116	Z	-6.732	-6.732	0	%100
113	M117	X	-2.915	-2.915	0	%100
114	M117	Z	-1.683	-1.683	0	%100
115	OVP	X	-6.687	-6.687	0	%100
116	OVP	Z	-3.861	-3.861	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	-5.177	-5.177	0	%100
2	M1	Z	-8.967	-8.967	0	%100
3	MP3A	X	-4.721	-4.721	0	%100
4	MP3A	Z	-8.178	-8.178	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
5	MP4A	X	-4.721	-4.721	0 %100
6	MP4A	Z	-8.178	-8.178	0 %100
7	MP2A	X	-5.715	-5.715	0 %100
8	MP2A	Z	-9.899	-9.899	0 %100
9	MP1A	X	-4.721	-4.721	0 %100
10	MP1A	Z	-8.178	-8.178	0 %100
11	M109A	X	0	0	0 %100
12	M109A	Z	0	0	0 %100
13	MP4C	X	-4.721	-4.721	0 %100
14	MP4C	Z	-8.178	-8.178	0 %100
15	M118A	X	-5.177	-5.177	0 %100
16	M118A	Z	-8.967	-8.967	0 %100
17	MP4B	X	-4.721	-4.721	0 %100
18	MP4B	Z	-8.178	-8.178	0 %100
19	M127A	X	-11.928	-11.928	0 %100
20	M127A	Z	-20.66	-20.66	0 %100
21	M128A	X	-9.112	-9.112	0 %100
22	M128A	Z	-15.782	-15.782	0 %100
23	M130A	X	-9.597	-9.597	0 %100
24	M130A	Z	-16.623	-16.623	0 %100
25	M132A	X	-2.982	-2.982	0 %100
26	M132A	Z	-5.165	-5.165	0 %100
27	M133A	X	-9.112	-9.112	0 %100
28	M133A	Z	-15.782	-15.782	0 %100
29	M135A	X	-9.597	-9.597	0 %100
30	M135A	Z	-16.623	-16.623	0 %100
31	M137A	X	-2.982	-2.982	0 %100
32	M137A	Z	-5.165	-5.165	0 %100
33	M138A	X	0	0	0 %100
34	M138A	Z	0	0	0 %100
35	M140A	X	0	0	0 %100
36	M140A	Z	0	0	0 %100
37	M142A	X	-2.982	-2.982	0 %100
38	M142A	Z	-5.165	-5.165	0 %100
39	M143A	X	0	0	0 %100
40	M143A	Z	0	0	0 %100
41	M145A	X	0	0	0 %100
42	M145A	Z	0	0	0 %100
43	M147A	X	-2.982	-2.982	0 %100
44	M147A	Z	-5.165	-5.165	0 %100
45	M148A	X	-9.112	-9.112	0 %100
46	M148A	Z	-15.782	-15.782	0 %100
47	M150A	X	-9.597	-9.597	0 %100
48	M150A	Z	-16.623	-16.623	0 %100
49	M152A	X	-11.928	-11.928	0 %100
50	M152A	Z	-20.66	-20.66	0 %100
51	M153A	X	-9.112	-9.112	0 %100
52	M153A	Z	-15.782	-15.782	0 %100
53	M155A	X	-9.597	-9.597	0 %100
54	M155A	Z	-16.623	-16.623	0 %100
55	M157A	X	0	0	0 %100
56	M157A	Z	0	0	0 %100



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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,%]
57	M158A	X	-8.946	-8.946	0 %100
58	M158A	Z	-15.495	-15.495	0 %100
59	M159A	X	-8.946	-8.946	0 %100
60	M159A	Z	-15.495	-15.495	0 %100
61	M160A	X	0	0	0 %100
62	M160A	Z	0	0	0 %100
63	M161A	X	-4.875	-4.875	0 %100
64	M161A	Z	-8.443	-8.443	0 %100
65	M162A	X	-4.875	-4.875	0 %100
66	M162A	Z	-8.443	-8.443	0 %100
67	M163A	X	-1.767	-1.767	0 %100
68	M163A	Z	-3.06	-3.06	0 %100
69	M164A	X	-7.067	-7.067	0 %100
70	M164A	Z	-12.241	-12.241	0 %100
71	M165A	X	-1.767	-1.767	0 %100
72	M165A	Z	-3.06	-3.06	0 %100
73	M171A	X	-5.009	-5.009	0 %100
74	M171A	Z	-8.676	-8.676	0 %100
75	M173A	X	-.000311	-.000311	0 %100
76	M173A	Z	-.000538	-.000538	0 %100
77	M177A	X	-4.931	-4.931	0 %100
78	M177A	Z	-8.54	-8.54	0 %100
79	M179A	X	-4.931	-4.931	0 %100
80	M179A	Z	-8.54	-8.54	0 %100
81	M183A	X	-.000311	-.000311	0 %100
82	M183A	Z	-.000538	-.000538	0 %100
83	M185A	X	-5.009	-5.009	0 %100
84	M185A	Z	-8.676	-8.676	0 %100
85	M189A	X	0	0	0 %100
86	M189A	Z	0	0	0 %100
87	M190A	X	-4.875	-4.875	0 %100
88	M190A	Z	-8.443	-8.443	0 %100
89	M191A	X	-4.875	-4.875	0 %100
90	M191A	Z	-8.443	-8.443	0 %100
91	MP3C	X	-4.721	-4.721	0 %100
92	MP3C	Z	-8.178	-8.178	0 %100
93	MP2C	X	-5.715	-5.715	0 %100
94	MP2C	Z	-9.899	-9.899	0 %100
95	MP1C	X	-4.721	-4.721	0 %100
96	MP1C	Z	-8.178	-8.178	0 %100
97	MP3B	X	-4.721	-4.721	0 %100
98	MP3B	Z	-8.178	-8.178	0 %100
99	MP2B	X	-5.715	-5.715	0 %100
100	MP2B	Z	-9.899	-9.899	0 %100
101	MP1B	X	-4.721	-4.721	0 %100
102	MP1B	Z	-8.178	-8.178	0 %100
103	M104	X	-4.287	-4.287	0 %100
104	M104	Z	-7.425	-7.425	0 %100
105	M109	X	0	0	0 %100
106	M109	Z	0	0	0 %100
107	M114	X	-4.287	-4.287	0 %100
108	M114	Z	-7.425	-7.425	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	-5.049	-5.049	0	%100
112	M116	Z	-8.745	-8.745	0	%100
113	M117	X	-5.049	-5.049	0	%100
114	M117	Z	-8.745	-8.745	0	%100
115	OVP	X	-3.861	-3.861	0	%100
116	OVP	Z	-6.687	-6.687	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	-4.406	-4.406	0	%100
3	MP3A	X	0	0	0	%100
4	MP3A	Z	-3.56	-3.56	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-3.56	-3.56	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	-3.936	-3.936	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-3.56	-3.56	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	-1.101	-1.101	0	%100
13	MP4C	X	0	0	0	%100
14	MP4C	Z	-3.56	-3.56	0	%100
15	M118A	X	0	0	0	%100
16	M118A	Z	-1.101	-1.101	0	%100
17	MP4B	X	0	0	0	%100
18	MP4B	Z	-3.56	-3.56	0	%100
19	M127A	X	0	0	0	%100
20	M127A	Z	-4.159	-4.159	0	%100
21	M128A	X	0	0	0	%100
22	M128A	Z	-5.629	-5.629	0	%100
23	M130A	X	0	0	0	%100
24	M130A	Z	-5.873	-5.873	0	%100
25	M132A	X	0	0	0	%100
26	M132A	Z	-4.159	-4.159	0	%100
27	M133A	X	0	0	0	%100
28	M133A	Z	-5.629	-5.629	0	%100
29	M135A	X	0	0	0	%100
30	M135A	Z	-5.873	-5.873	0	%100
31	M137A	X	0	0	0	%100
32	M137A	Z	-4.159	-4.159	0	%100
33	M138A	X	0	0	0	%100
34	M138A	Z	-1.407	-1.407	0	%100
35	M140A	X	0	0	0	%100
36	M140A	Z	-1.468	-1.468	0	%100
37	M142A	X	0	0	0	%100
38	M142A	Z	0	0	0	%100
39	M143A	X	0	0	0	%100
40	M143A	Z	-1.407	-1.407	0	%100



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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,%]
41	M145A	X	0	0	0	%100
42	M145A	Z	-1.468	-1.468	0	%100
43	M147A	X	0	0	0	%100
44	M147A	Z	0	0	0	%100
45	M148A	X	0	0	0	%100
46	M148A	Z	-1.407	-1.407	0	%100
47	M150A	X	0	0	0	%100
48	M150A	Z	-1.468	-1.468	0	%100
49	M152A	X	0	0	0	%100
50	M152A	Z	-4.159	-4.159	0	%100
51	M153A	X	0	0	0	%100
52	M153A	Z	-1.407	-1.407	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	-1.468	-1.468	0	%100
55	M157A	X	0	0	0	%100
56	M157A	Z	-1.412	-1.412	0	%100
57	M158A	X	0	0	0	%100
58	M158A	Z	-5.646	-5.646	0	%100
59	M159A	X	0	0	0	%100
60	M159A	Z	-1.412	-1.412	0	%100
61	M160A	X	0	0	0	%100
62	M160A	Z	-.952	-.952	0	%100
63	M161A	X	0	0	0	%100
64	M161A	Z	-3.807	-3.807	0	%100
65	M162A	X	0	0	0	%100
66	M162A	Z	-.952	-.952	0	%100
67	M163A	X	0	0	0	%100
68	M163A	Z	0	0	0	%100
69	M164A	X	0	0	0	%100
70	M164A	Z	-3.335	-3.335	0	%100
71	M165A	X	0	0	0	%100
72	M165A	Z	-3.335	-3.335	0	%100
73	M171A	X	0	0	0	%100
74	M171A	Z	-1.064	-1.064	0	%100
75	M173A	X	0	0	0	%100
76	M173A	Z	-1.064	-1.064	0	%100
77	M177A	X	0	0	0	%100
78	M177A	Z	-4.156	-4.156	0	%100
79	M179A	X	0	0	0	%100
80	M179A	Z	-1.015	-1.015	0	%100
81	M183A	X	0	0	0	%100
82	M183A	Z	-1.015	-1.015	0	%100
83	M185A	X	0	0	0	%100
84	M185A	Z	-4.156	-4.156	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	-.952	-.952	0	%100
87	M190A	X	0	0	0	%100
88	M190A	Z	-3.807	-3.807	0	%100
89	M191A	X	0	0	0	%100
90	M191A	Z	-.952	-.952	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	-3.56	-3.56	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,%]
93	MP2C	X	0	0	0	%100
94	MP2C	Z	-3.936	-3.936	0	%100
95	MP1C	X	0	0	0	%100
96	MP1C	Z	-3.56	-3.56	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	-3.56	-3.56	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-3.936	-3.936	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	-3.56	-3.56	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	-3.936	-3.936	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	-.984	-.984	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	-.984	-.984	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	-.937	-.937	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	-.937	-.937	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	-3.748	-3.748	0	%100
115	OVP	X	0	0	0	%100
116	OVP	Z	-2.914	-2.914	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	1.652	1.652	0	%100
2	M1	Z	-2.862	-2.862	0	%100
3	MP3A	X	1.78	1.78	0	%100
4	MP3A	Z	-3.083	-3.083	0	%100
5	MP4A	X	1.78	1.78	0	%100
6	MP4A	Z	-3.083	-3.083	0	%100
7	MP2A	X	1.968	1.968	0	%100
8	MP2A	Z	-3.409	-3.409	0	%100
9	MP1A	X	1.78	1.78	0	%100
10	MP1A	Z	-3.083	-3.083	0	%100
11	M109A	X	1.652	1.652	0	%100
12	M109A	Z	-2.862	-2.862	0	%100
13	MP4C	X	1.78	1.78	0	%100
14	MP4C	Z	-3.083	-3.083	0	%100
15	M118A	X	0	0	0	%100
16	M118A	Z	0	0	0	%100
17	MP4B	X	1.78	1.78	0	%100
18	MP4B	Z	-3.083	-3.083	0	%100
19	M127A	X	.693	.693	0	%100
20	M127A	Z	-1.201	-1.201	0	%100
21	M128A	X	2.111	2.111	0	%100
22	M128A	Z	-3.656	-3.656	0	%100
23	M130A	X	2.202	2.202	0	%100
24	M130A	Z	-3.815	-3.815	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M132A	X	2.773	2.773	0 %100
26	M132A	Z	-4.802	-4.802	0 %100
27	M133A	X	2.111	2.111	0 %100
28	M133A	Z	-3.656	-3.656	0 %100
29	M135A	X	2.202	2.202	0 %100
30	M135A	Z	-3.815	-3.815	0 %100
31	M137A	X	2.773	2.773	0 %100
32	M137A	Z	-4.802	-4.802	0 %100
33	M138A	X	2.111	2.111	0 %100
34	M138A	Z	-3.656	-3.656	0 %100
35	M140A	X	2.202	2.202	0 %100
36	M140A	Z	-3.815	-3.815	0 %100
37	M142A	X	.693	.693	0 %100
38	M142A	Z	-1.201	-1.201	0 %100
39	M143A	X	2.111	2.111	0 %100
40	M143A	Z	-3.656	-3.656	0 %100
41	M145A	X	2.202	2.202	0 %100
42	M145A	Z	-3.815	-3.815	0 %100
43	M147A	X	.693	.693	0 %100
44	M147A	Z	-1.201	-1.201	0 %100
45	M148A	X	0	0	0 %100
46	M148A	Z	0	0	0 %100
47	M150A	X	0	0	0 %100
48	M150A	Z	0	0	0 %100
49	M152A	X	.693	.693	0 %100
50	M152A	Z	-1.201	-1.201	0 %100
51	M153A	X	0	0	0 %100
52	M153A	Z	0	0	0 %100
53	M155A	X	0	0	0 %100
54	M155A	Z	0	0	0 %100
55	M157A	X	2.117	2.117	0 %100
56	M157A	Z	-3.667	-3.667	0 %100
57	M158A	X	2.117	2.117	0 %100
58	M158A	Z	-3.667	-3.667	0 %100
59	M159A	X	0	0	0 %100
60	M159A	Z	0	0	0 %100
61	M160A	X	1.428	1.428	0 %100
62	M160A	Z	-2.473	-2.473	0 %100
63	M161A	X	1.428	1.428	0 %100
64	M161A	Z	-2.473	-2.473	0 %100
65	M162A	X	0	0	0 %100
66	M162A	Z	0	0	0 %100
67	M163A	X	.556	.556	0 %100
68	M163A	Z	-.963	-.963	0 %100
69	M164A	X	.556	.556	0 %100
70	M164A	Z	-.963	-.963	0 %100
71	M165A	X	2.224	2.224	0 %100
72	M165A	Z	-3.851	-3.851	0 %100
73	M171A	X	9.7e-5	9.7e-5	0 %100
74	M171A	Z	-.000169	-.000169	0 %100
75	M173A	X	1.571	1.571	0 %100
76	M173A	Z	-2.721	-2.721	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,%]
77	M177A	X	1.571	1.571	0	%100
78	M177A	Z	-2.721	-2.721	0	%100
79	M179A	X	9.7e-5	9.7e-5	0	%100
80	M179A	Z	-.000169	-.000169	0	%100
81	M183A	X	1.546	1.546	0	%100
82	M183A	Z	-2.678	-2.678	0	%100
83	M185A	X	1.546	1.546	0	%100
84	M185A	Z	-2.678	-2.678	0	%100
85	M189A	X	1.428	1.428	0	%100
86	M189A	Z	-2.473	-2.473	0	%100
87	M190A	X	1.428	1.428	0	%100
88	M190A	Z	-2.473	-2.473	0	%100
89	M191A	X	0	0	0	%100
90	M191A	Z	0	0	0	%100
91	MP3C	X	1.78	1.78	0	%100
92	MP3C	Z	-3.083	-3.083	0	%100
93	MP2C	X	1.968	1.968	0	%100
94	MP2C	Z	-3.409	-3.409	0	%100
95	MP1C	X	1.78	1.78	0	%100
96	MP1C	Z	-3.083	-3.083	0	%100
97	MP3B	X	1.78	1.78	0	%100
98	MP3B	Z	-3.083	-3.083	0	%100
99	MP2B	X	1.968	1.968	0	%100
100	MP2B	Z	-3.409	-3.409	0	%100
101	MP1B	X	1.78	1.78	0	%100
102	MP1B	Z	-3.083	-3.083	0	%100
103	M104	X	1.476	1.476	0	%100
104	M104	Z	-2.556	-2.556	0	%100
105	M109	X	1.476	1.476	0	%100
106	M109	Z	-2.556	-2.556	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M115	X	1.406	1.406	0	%100
110	M115	Z	-2.434	-2.434	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	1.406	1.406	0	%100
114	M117	Z	-2.434	-2.434	0	%100
115	OVP	X	1.457	1.457	0	%100
116	OVP	Z	-2.524	-2.524	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	.954	.954	0	%100
2	M1	Z	-.551	-.551	0	%100
3	MP3A	X	3.083	3.083	0	%100
4	MP3A	Z	-1.78	-1.78	0	%100
5	MP4A	X	3.083	3.083	0	%100
6	MP4A	Z	-1.78	-1.78	0	%100
7	MP2A	X	3.409	3.409	0	%100
8	MP2A	Z	-1.968	-1.968	0	%100



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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,%]
9	MP1A	X	3.083	3.083	0 %100
10	MP1A	Z	-1.78	-1.78	0 %100
11	M109A	X	3.815	3.815	0 %100
12	M109A	Z	-2.203	-2.203	0 %100
13	MP4C	X	3.083	3.083	0 %100
14	MP4C	Z	-1.78	-1.78	0 %100
15	M118A	X	.954	.954	0 %100
16	M118A	Z	-.551	-.551	0 %100
17	MP4B	X	3.083	3.083	0 %100
18	MP4B	Z	-1.78	-1.78	0 %100
19	M127A	X	0	0	0 %100
20	M127A	Z	0	0	0 %100
21	M128A	X	1.219	1.219	0 %100
22	M128A	Z	-.704	-.704	0 %100
23	M130A	X	1.272	1.272	0 %100
24	M130A	Z	-.734	-.734	0 %100
25	M132A	X	3.602	3.602	0 %100
26	M132A	Z	-2.079	-2.079	0 %100
27	M133A	X	1.219	1.219	0 %100
28	M133A	Z	-.704	-.704	0 %100
29	M135A	X	1.272	1.272	0 %100
30	M135A	Z	-.734	-.734	0 %100
31	M137A	X	3.602	3.602	0 %100
32	M137A	Z	-2.079	-2.079	0 %100
33	M138A	X	4.874	4.874	0 %100
34	M138A	Z	-2.814	-2.814	0 %100
35	M140A	X	5.086	5.086	0 %100
36	M140A	Z	-2.937	-2.937	0 %100
37	M142A	X	3.602	3.602	0 %100
38	M142A	Z	-2.079	-2.079	0 %100
39	M143A	X	4.874	4.874	0 %100
40	M143A	Z	-2.814	-2.814	0 %100
41	M145A	X	5.086	5.086	0 %100
42	M145A	Z	-2.937	-2.937	0 %100
43	M147A	X	3.602	3.602	0 %100
44	M147A	Z	-2.079	-2.079	0 %100
45	M148A	X	1.219	1.219	0 %100
46	M148A	Z	-.704	-.704	0 %100
47	M150A	X	1.272	1.272	0 %100
48	M150A	Z	-.734	-.734	0 %100
49	M152A	X	0	0	0 %100
50	M152A	Z	0	0	0 %100
51	M153A	X	1.219	1.219	0 %100
52	M153A	Z	-.704	-.704	0 %100
53	M155A	X	1.272	1.272	0 %100
54	M155A	Z	-.734	-.734	0 %100
55	M157A	X	4.89	4.89	0 %100
56	M157A	Z	-2.823	-2.823	0 %100
57	M158A	X	1.222	1.222	0 %100
58	M158A	Z	-.706	-.706	0 %100
59	M159A	X	1.222	1.222	0 %100
60	M159A	Z	-.706	-.706	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M160A	X	3.297	3.297	0	%100
62	M160A	Z	-1.904	-1.904	0	%100
63	M161A	X	.824	.824	0	%100
64	M161A	Z	-.476	-.476	0	%100
65	M162A	X	.824	.824	0	%100
66	M162A	Z	-.476	-.476	0	%100
67	M163A	X	2.888	2.888	0	%100
68	M163A	Z	-1.668	-1.668	0	%100
69	M164A	X	0	0	0	%100
70	M164A	Z	0	0	0	%100
71	M165A	X	2.888	2.888	0	%100
72	M165A	Z	-1.668	-1.668	0	%100
73	M171A	X	.879	.879	0	%100
74	M171A	Z	-.507	-.507	0	%100
75	M173A	X	3.599	3.599	0	%100
76	M173A	Z	-2.078	-2.078	0	%100
77	M177A	X	.921	.921	0	%100
78	M177A	Z	-.532	-.532	0	%100
79	M179A	X	.921	.921	0	%100
80	M179A	Z	-.532	-.532	0	%100
81	M183A	X	3.599	3.599	0	%100
82	M183A	Z	-2.078	-2.078	0	%100
83	M185A	X	.879	.879	0	%100
84	M185A	Z	-.507	-.507	0	%100
85	M189A	X	3.297	3.297	0	%100
86	M189A	Z	-1.904	-1.904	0	%100
87	M190A	X	.824	.824	0	%100
88	M190A	Z	-.476	-.476	0	%100
89	M191A	X	.824	.824	0	%100
90	M191A	Z	-.476	-.476	0	%100
91	MP3C	X	3.083	3.083	0	%100
92	MP3C	Z	-1.78	-1.78	0	%100
93	MP2C	X	3.409	3.409	0	%100
94	MP2C	Z	-1.968	-1.968	0	%100
95	MP1C	X	3.083	3.083	0	%100
96	MP1C	Z	-1.78	-1.78	0	%100
97	MP3B	X	3.083	3.083	0	%100
98	MP3B	Z	-1.78	-1.78	0	%100
99	MP2B	X	3.409	3.409	0	%100
100	MP2B	Z	-1.968	-1.968	0	%100
101	MP1B	X	3.083	3.083	0	%100
102	MP1B	Z	-1.78	-1.78	0	%100
103	M104	X	.852	.852	0	%100
104	M104	Z	-.492	-.492	0	%100
105	M109	X	3.409	3.409	0	%100
106	M109	Z	-1.968	-1.968	0	%100
107	M114	X	.852	.852	0	%100
108	M114	Z	-.492	-.492	0	%100
109	M115	X	3.246	3.246	0	%100
110	M115	Z	-1.874	-1.874	0	%100
111	M116	X	.811	.811	0	%100
112	M116	Z	-.469	-.469	0	%100



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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,%]
45	M148A	X	4.221	4.221	0 %100
46	M148A	Z	0	0	0 %100
47	M150A	X	4.405	4.405	0 %100
48	M150A	Z	0	0	0 %100
49	M152A	X	1.386	1.386	0 %100
50	M152A	Z	0	0	0 %100
51	M153A	X	4.221	4.221	0 %100
52	M153A	Z	0	0	0 %100
53	M155A	X	4.405	4.405	0 %100
54	M155A	Z	0	0	0 %100
55	M157A	X	4.235	4.235	0 %100
56	M157A	Z	0	0	0 %100
57	M158A	X	0	0	0 %100
58	M158A	Z	0	0	0 %100
59	M159A	X	4.235	4.235	0 %100
60	M159A	Z	0	0	0 %100
61	M160A	X	2.855	2.855	0 %100
62	M160A	Z	0	0	0 %100
63	M161A	X	0	0	0 %100
64	M161A	Z	0	0	0 %100
65	M162A	X	2.855	2.855	0 %100
66	M162A	Z	0	0	0 %100
67	M163A	X	4.447	4.447	0 %100
68	M163A	Z	0	0	0 %100
69	M164A	X	1.112	1.112	0 %100
70	M164A	Z	0	0	0 %100
71	M165A	X	1.112	1.112	0 %100
72	M165A	Z	0	0	0 %100
73	M171A	X	3.093	3.093	0 %100
74	M171A	Z	0	0	0 %100
75	M173A	X	3.093	3.093	0 %100
76	M173A	Z	0	0	0 %100
77	M177A	X	.000195	.000195	0 %100
78	M177A	Z	0	0	0 %100
79	M179A	X	3.142	3.142	0 %100
80	M179A	Z	0	0	0 %100
81	M183A	X	3.142	3.142	0 %100
82	M183A	Z	0	0	0 %100
83	M185A	X	.000195	.000195	0 %100
84	M185A	Z	0	0	0 %100
85	M189A	X	2.855	2.855	0 %100
86	M189A	Z	0	0	0 %100
87	M190A	X	0	0	0 %100
88	M190A	Z	0	0	0 %100
89	M191A	X	2.855	2.855	0 %100
90	M191A	Z	0	0	0 %100
91	MP3C	X	3.56	3.56	0 %100
92	MP3C	Z	0	0	0 %100
93	MP2C	X	3.936	3.936	0 %100
94	MP2C	Z	0	0	0 %100
95	MP1C	X	3.56	3.56	0 %100
96	MP1C	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	MP3B	X	3.56	3.56	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	3.936	3.936	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	3.56	3.56	0	%100
102	MP1B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	2.952	2.952	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	2.952	2.952	0	%100
108	M114	Z	0	0	0	%100
109	M115	X	2.811	2.811	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	2.811	2.811	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	0	0	0	%100
115	OVP	X	2.914	2.914	0	%100
116	OVP	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.954	.954	0	%100
2	M1	Z	.551	.551	0	%100
3	MP3A	X	3.083	3.083	0	%100
4	MP3A	Z	1.78	1.78	0	%100
5	MP4A	X	3.083	3.083	0	%100
6	MP4A	Z	1.78	1.78	0	%100
7	MP2A	X	3.409	3.409	0	%100
8	MP2A	Z	1.968	1.968	0	%100
9	MP1A	X	3.083	3.083	0	%100
10	MP1A	Z	1.78	1.78	0	%100
11	M109A	X	.954	.954	0	%100
12	M109A	Z	.551	.551	0	%100
13	MP4C	X	3.083	3.083	0	%100
14	MP4C	Z	1.78	1.78	0	%100
15	M118A	X	3.815	3.815	0	%100
16	M118A	Z	2.203	2.203	0	%100
17	MP4B	X	3.083	3.083	0	%100
18	MP4B	Z	1.78	1.78	0	%100
19	M127A	X	3.602	3.602	0	%100
20	M127A	Z	2.079	2.079	0	%100
21	M128A	X	1.219	1.219	0	%100
22	M128A	Z	.704	.704	0	%100
23	M130A	X	1.272	1.272	0	%100
24	M130A	Z	.734	.734	0	%100
25	M132A	X	0	0	0	%100
26	M132A	Z	0	0	0	%100
27	M133A	X	1.219	1.219	0	%100
28	M133A	Z	.704	.704	0	%100



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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,%]
29	M135A	X	1.272	1.272	0 %100
30	M135A	Z	.734	.734	0 %100
31	M137A	X	0	0	0 %100
32	M137A	Z	0	0	0 %100
33	M138A	X	1.219	1.219	0 %100
34	M138A	Z	.704	.704	0 %100
35	M140A	X	1.272	1.272	0 %100
36	M140A	Z	.734	.734	0 %100
37	M142A	X	3.602	3.602	0 %100
38	M142A	Z	2.079	2.079	0 %100
39	M143A	X	1.219	1.219	0 %100
40	M143A	Z	.704	.704	0 %100
41	M145A	X	1.272	1.272	0 %100
42	M145A	Z	.734	.734	0 %100
43	M147A	X	3.602	3.602	0 %100
44	M147A	Z	2.079	2.079	0 %100
45	M148A	X	4.874	4.874	0 %100
46	M148A	Z	2.814	2.814	0 %100
47	M150A	X	5.086	5.086	0 %100
48	M150A	Z	2.937	2.937	0 %100
49	M152A	X	3.602	3.602	0 %100
50	M152A	Z	2.079	2.079	0 %100
51	M153A	X	4.874	4.874	0 %100
52	M153A	Z	2.814	2.814	0 %100
53	M155A	X	5.086	5.086	0 %100
54	M155A	Z	2.937	2.937	0 %100
55	M157A	X	1.222	1.222	0 %100
56	M157A	Z	.706	.706	0 %100
57	M158A	X	1.222	1.222	0 %100
58	M158A	Z	.706	.706	0 %100
59	M159A	X	4.89	4.89	0 %100
60	M159A	Z	2.823	2.823	0 %100
61	M160A	X	.824	.824	0 %100
62	M160A	Z	.476	.476	0 %100
63	M161A	X	.824	.824	0 %100
64	M161A	Z	.476	.476	0 %100
65	M162A	X	3.297	3.297	0 %100
66	M162A	Z	1.904	1.904	0 %100
67	M163A	X	2.888	2.888	0 %100
68	M163A	Z	1.668	1.668	0 %100
69	M164A	X	2.888	2.888	0 %100
70	M164A	Z	1.668	1.668	0 %100
71	M165A	X	0	0	0 %100
72	M165A	Z	0	0	0 %100
73	M171A	X	3.599	3.599	0 %100
74	M171A	Z	2.078	2.078	0 %100
75	M173A	X	.879	.879	0 %100
76	M173A	Z	.507	.507	0 %100
77	M177A	X	.879	.879	0 %100
78	M177A	Z	.507	.507	0 %100
79	M179A	X	3.599	3.599	0 %100
80	M179A	Z	2.078	2.078	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,%]
81	M183A	X	.921	.921	0	%100
82	M183A	Z	.532	.532	0	%100
83	M185A	X	.921	.921	0	%100
84	M185A	Z	.532	.532	0	%100
85	M189A	X	.824	.824	0	%100
86	M189A	Z	.476	.476	0	%100
87	M190A	X	.824	.824	0	%100
88	M190A	Z	.476	.476	0	%100
89	M191A	X	3.297	3.297	0	%100
90	M191A	Z	1.904	1.904	0	%100
91	MP3C	X	3.083	3.083	0	%100
92	MP3C	Z	1.78	1.78	0	%100
93	MP2C	X	3.409	3.409	0	%100
94	MP2C	Z	1.968	1.968	0	%100
95	MP1C	X	3.083	3.083	0	%100
96	MP1C	Z	1.78	1.78	0	%100
97	MP3B	X	3.083	3.083	0	%100
98	MP3B	Z	1.78	1.78	0	%100
99	MP2B	X	3.409	3.409	0	%100
100	MP2B	Z	1.968	1.968	0	%100
101	MP1B	X	3.083	3.083	0	%100
102	MP1B	Z	1.78	1.78	0	%100
103	M104	X	.852	.852	0	%100
104	M104	Z	.492	.492	0	%100
105	M109	X	.852	.852	0	%100
106	M109	Z	.492	.492	0	%100
107	M114	X	3.409	3.409	0	%100
108	M114	Z	1.968	1.968	0	%100
109	M115	X	.811	.811	0	%100
110	M115	Z	.469	.469	0	%100
111	M116	X	3.246	3.246	0	%100
112	M116	Z	1.874	1.874	0	%100
113	M117	X	.811	.811	0	%100
114	M117	Z	.469	.469	0	%100
115	OVP	X	2.524	2.524	0	%100
116	OVP	Z	1.457	1.457	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	1.652	1.652	0	%100
2	M1	Z	2.862	2.862	0	%100
3	MP3A	X	1.78	1.78	0	%100
4	MP3A	Z	3.083	3.083	0	%100
5	MP4A	X	1.78	1.78	0	%100
6	MP4A	Z	3.083	3.083	0	%100
7	MP2A	X	1.968	1.968	0	%100
8	MP2A	Z	3.409	3.409	0	%100
9	MP1A	X	1.78	1.78	0	%100
10	MP1A	Z	3.083	3.083	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	0	0	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,%]
13	MP4C	X	1.78	1.78	0 %100
14	MP4C	Z	3.083	3.083	0 %100
15	M118A	X	1.652	1.652	0 %100
16	M118A	Z	2.862	2.862	0 %100
17	MP4B	X	1.78	1.78	0 %100
18	MP4B	Z	3.083	3.083	0 %100
19	M127A	X	2.773	2.773	0 %100
20	M127A	Z	4.802	4.802	0 %100
21	M128A	X	2.111	2.111	0 %100
22	M128A	Z	3.656	3.656	0 %100
23	M130A	X	2.202	2.202	0 %100
24	M130A	Z	3.815	3.815	0 %100
25	M132A	X	.693	.693	0 %100
26	M132A	Z	1.201	1.201	0 %100
27	M133A	X	2.111	2.111	0 %100
28	M133A	Z	3.656	3.656	0 %100
29	M135A	X	2.202	2.202	0 %100
30	M135A	Z	3.815	3.815	0 %100
31	M137A	X	.693	.693	0 %100
32	M137A	Z	1.201	1.201	0 %100
33	M138A	X	0	0	0 %100
34	M138A	Z	0	0	0 %100
35	M140A	X	0	0	0 %100
36	M140A	Z	0	0	0 %100
37	M142A	X	.693	.693	0 %100
38	M142A	Z	1.201	1.201	0 %100
39	M143A	X	0	0	0 %100
40	M143A	Z	0	0	0 %100
41	M145A	X	0	0	0 %100
42	M145A	Z	0	0	0 %100
43	M147A	X	.693	.693	0 %100
44	M147A	Z	1.201	1.201	0 %100
45	M148A	X	2.111	2.111	0 %100
46	M148A	Z	3.656	3.656	0 %100
47	M150A	X	2.202	2.202	0 %100
48	M150A	Z	3.815	3.815	0 %100
49	M152A	X	2.773	2.773	0 %100
50	M152A	Z	4.802	4.802	0 %100
51	M153A	X	2.111	2.111	0 %100
52	M153A	Z	3.656	3.656	0 %100
53	M155A	X	2.202	2.202	0 %100
54	M155A	Z	3.815	3.815	0 %100
55	M157A	X	0	0	0 %100
56	M157A	Z	0	0	0 %100
57	M158A	X	2.117	2.117	0 %100
58	M158A	Z	3.667	3.667	0 %100
59	M159A	X	2.117	2.117	0 %100
60	M159A	Z	3.667	3.667	0 %100
61	M160A	X	0	0	0 %100
62	M160A	Z	0	0	0 %100
63	M161A	X	1.428	1.428	0 %100
64	M161A	Z	2.473	2.473	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	M162A	X	1.428	1.428	0	%100
66	M162A	Z	2.473	2.473	0	%100
67	M163A	X	.556	.556	0	%100
68	M163A	Z	.963	.963	0	%100
69	M164A	X	2.224	2.224	0	%100
70	M164A	Z	3.851	3.851	0	%100
71	M165A	X	.556	.556	0	%100
72	M165A	Z	.963	.963	0	%100
73	M171A	X	1.571	1.571	0	%100
74	M171A	Z	2.721	2.721	0	%100
75	M173A	X	9.7e-5	9.7e-5	0	%100
76	M173A	Z	.000169	.000169	0	%100
77	M177A	X	1.546	1.546	0	%100
78	M177A	Z	2.678	2.678	0	%100
79	M179A	X	1.546	1.546	0	%100
80	M179A	Z	2.678	2.678	0	%100
81	M183A	X	9.7e-5	9.7e-5	0	%100
82	M183A	Z	.000169	.000169	0	%100
83	M185A	X	1.571	1.571	0	%100
84	M185A	Z	2.721	2.721	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	0	0	0	%100
87	M190A	X	1.428	1.428	0	%100
88	M190A	Z	2.473	2.473	0	%100
89	M191A	X	1.428	1.428	0	%100
90	M191A	Z	2.473	2.473	0	%100
91	MP3C	X	1.78	1.78	0	%100
92	MP3C	Z	3.083	3.083	0	%100
93	MP2C	X	1.968	1.968	0	%100
94	MP2C	Z	3.409	3.409	0	%100
95	MP1C	X	1.78	1.78	0	%100
96	MP1C	Z	3.083	3.083	0	%100
97	MP3B	X	1.78	1.78	0	%100
98	MP3B	Z	3.083	3.083	0	%100
99	MP2B	X	1.968	1.968	0	%100
100	MP2B	Z	3.409	3.409	0	%100
101	MP1B	X	1.78	1.78	0	%100
102	MP1B	Z	3.083	3.083	0	%100
103	M104	X	1.476	1.476	0	%100
104	M104	Z	2.556	2.556	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	1.476	1.476	0	%100
108	M114	Z	2.556	2.556	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	1.406	1.406	0	%100
112	M116	Z	2.434	2.434	0	%100
113	M117	X	1.406	1.406	0	%100
114	M117	Z	2.434	2.434	0	%100
115	OVP	X	1.457	1.457	0	%100
116	OVP	Z	2.524	2.524	0	%100



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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	4.406	4.406	0	%100
3	MP3A	X	0	0	0	%100
4	MP3A	Z	3.56	3.56	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	3.56	3.56	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	3.936	3.936	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	3.56	3.56	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	1.101	1.101	0	%100
13	MP4C	X	0	0	0	%100
14	MP4C	Z	3.56	3.56	0	%100
15	M118A	X	0	0	0	%100
16	M118A	Z	1.101	1.101	0	%100
17	MP4B	X	0	0	0	%100
18	MP4B	Z	3.56	3.56	0	%100
19	M127A	X	0	0	0	%100
20	M127A	Z	4.159	4.159	0	%100
21	M128A	X	0	0	0	%100
22	M128A	Z	5.629	5.629	0	%100
23	M130A	X	0	0	0	%100
24	M130A	Z	5.873	5.873	0	%100
25	M132A	X	0	0	0	%100
26	M132A	Z	4.159	4.159	0	%100
27	M133A	X	0	0	0	%100
28	M133A	Z	5.629	5.629	0	%100
29	M135A	X	0	0	0	%100
30	M135A	Z	5.873	5.873	0	%100
31	M137A	X	0	0	0	%100
32	M137A	Z	4.159	4.159	0	%100
33	M138A	X	0	0	0	%100
34	M138A	Z	1.407	1.407	0	%100
35	M140A	X	0	0	0	%100
36	M140A	Z	1.468	1.468	0	%100
37	M142A	X	0	0	0	%100
38	M142A	Z	0	0	0	%100
39	M143A	X	0	0	0	%100
40	M143A	Z	1.407	1.407	0	%100
41	M145A	X	0	0	0	%100
42	M145A	Z	1.468	1.468	0	%100
43	M147A	X	0	0	0	%100
44	M147A	Z	0	0	0	%100
45	M148A	X	0	0	0	%100
46	M148A	Z	1.407	1.407	0	%100
47	M150A	X	0	0	0	%100
48	M150A	Z	1.468	1.468	0	%100
49	M152A	X	0	0	0	%100
50	M152A	Z	4.159	4.159	0	%100
51	M153A	X	0	0	0	%100
52	M153A	Z	1.407	1.407	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,%]	
53	M155A	X	0	0	0	%100
54	M155A	Z	1.468	1.468	0	%100
55	M157A	X	0	0	0	%100
56	M157A	Z	1.412	1.412	0	%100
57	M158A	X	0	0	0	%100
58	M158A	Z	5.646	5.646	0	%100
59	M159A	X	0	0	0	%100
60	M159A	Z	1.412	1.412	0	%100
61	M160A	X	0	0	0	%100
62	M160A	Z	.952	.952	0	%100
63	M161A	X	0	0	0	%100
64	M161A	Z	3.807	3.807	0	%100
65	M162A	X	0	0	0	%100
66	M162A	Z	.952	.952	0	%100
67	M163A	X	0	0	0	%100
68	M163A	Z	0	0	0	%100
69	M164A	X	0	0	0	%100
70	M164A	Z	3.335	3.335	0	%100
71	M165A	X	0	0	0	%100
72	M165A	Z	3.335	3.335	0	%100
73	M171A	X	0	0	0	%100
74	M171A	Z	1.064	1.064	0	%100
75	M173A	X	0	0	0	%100
76	M173A	Z	1.064	1.064	0	%100
77	M177A	X	0	0	0	%100
78	M177A	Z	4.156	4.156	0	%100
79	M179A	X	0	0	0	%100
80	M179A	Z	1.015	1.015	0	%100
81	M183A	X	0	0	0	%100
82	M183A	Z	1.015	1.015	0	%100
83	M185A	X	0	0	0	%100
84	M185A	Z	4.156	4.156	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	.952	.952	0	%100
87	M190A	X	0	0	0	%100
88	M190A	Z	3.807	3.807	0	%100
89	M191A	X	0	0	0	%100
90	M191A	Z	.952	.952	0	%100
91	MP3C	X	0	0	0	%100
92	MP3C	Z	3.56	3.56	0	%100
93	MP2C	X	0	0	0	%100
94	MP2C	Z	3.936	3.936	0	%100
95	MP1C	X	0	0	0	%100
96	MP1C	Z	3.56	3.56	0	%100
97	MP3B	X	0	0	0	%100
98	MP3B	Z	3.56	3.56	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	3.936	3.936	0	%100
101	MP1B	X	0	0	0	%100
102	MP1B	Z	3.56	3.56	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	3.936	3.936	0	%100



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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,%]
37	M142A	X	-.693	-.693	0 %100
38	M142A	Z	1.201	1.201	0 %100
39	M143A	X	-2.111	-2.111	0 %100
40	M143A	Z	3.656	3.656	0 %100
41	M145A	X	-2.202	-2.202	0 %100
42	M145A	Z	3.815	3.815	0 %100
43	M147A	X	-.693	-.693	0 %100
44	M147A	Z	1.201	1.201	0 %100
45	M148A	X	0	0	0 %100
46	M148A	Z	0	0	0 %100
47	M150A	X	0	0	0 %100
48	M150A	Z	0	0	0 %100
49	M152A	X	-.693	-.693	0 %100
50	M152A	Z	1.201	1.201	0 %100
51	M153A	X	0	0	0 %100
52	M153A	Z	0	0	0 %100
53	M155A	X	0	0	0 %100
54	M155A	Z	0	0	0 %100
55	M157A	X	-2.117	-2.117	0 %100
56	M157A	Z	3.667	3.667	0 %100
57	M158A	X	-2.117	-2.117	0 %100
58	M158A	Z	3.667	3.667	0 %100
59	M159A	X	0	0	0 %100
60	M159A	Z	0	0	0 %100
61	M160A	X	-1.428	-1.428	0 %100
62	M160A	Z	2.473	2.473	0 %100
63	M161A	X	-1.428	-1.428	0 %100
64	M161A	Z	2.473	2.473	0 %100
65	M162A	X	0	0	0 %100
66	M162A	Z	0	0	0 %100
67	M163A	X	-.556	-.556	0 %100
68	M163A	Z	.963	.963	0 %100
69	M164A	X	-.556	-.556	0 %100
70	M164A	Z	.963	.963	0 %100
71	M165A	X	-2.224	-2.224	0 %100
72	M165A	Z	3.851	3.851	0 %100
73	M171A	X	-9.7e-5	-9.7e-5	0 %100
74	M171A	Z	.000169	.000169	0 %100
75	M173A	X	-1.571	-1.571	0 %100
76	M173A	Z	2.721	2.721	0 %100
77	M177A	X	-1.571	-1.571	0 %100
78	M177A	Z	2.721	2.721	0 %100
79	M179A	X	-9.7e-5	-9.7e-5	0 %100
80	M179A	Z	.000169	.000169	0 %100
81	M183A	X	-1.546	-1.546	0 %100
82	M183A	Z	2.678	2.678	0 %100
83	M185A	X	-1.546	-1.546	0 %100
84	M185A	Z	2.678	2.678	0 %100
85	M189A	X	-1.428	-1.428	0 %100
86	M189A	Z	2.473	2.473	0 %100
87	M190A	X	-1.428	-1.428	0 %100
88	M190A	Z	2.473	2.473	0 %100



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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,%]
89	M191A	X	0	0	0	%100
90	M191A	Z	0	0	0	%100
91	MP3C	X	-1.78	-1.78	0	%100
92	MP3C	Z	3.083	3.083	0	%100
93	MP2C	X	-1.968	-1.968	0	%100
94	MP2C	Z	3.409	3.409	0	%100
95	MP1C	X	-1.78	-1.78	0	%100
96	MP1C	Z	3.083	3.083	0	%100
97	MP3B	X	-1.78	-1.78	0	%100
98	MP3B	Z	3.083	3.083	0	%100
99	MP2B	X	-1.968	-1.968	0	%100
100	MP2B	Z	3.409	3.409	0	%100
101	MP1B	X	-1.78	-1.78	0	%100
102	MP1B	Z	3.083	3.083	0	%100
103	M104	X	-1.476	-1.476	0	%100
104	M104	Z	2.556	2.556	0	%100
105	M109	X	-1.476	-1.476	0	%100
106	M109	Z	2.556	2.556	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M115	X	-1.406	-1.406	0	%100
110	M115	Z	2.434	2.434	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	-1.406	-1.406	0	%100
114	M117	Z	2.434	2.434	0	%100
115	OVP	X	-1.457	-1.457	0	%100
116	OVP	Z	2.524	2.524	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	-.954	-.954	0	%100
2	M1	Z	.551	.551	0	%100
3	MP3A	X	-3.083	-3.083	0	%100
4	MP3A	Z	1.78	1.78	0	%100
5	MP4A	X	-3.083	-3.083	0	%100
6	MP4A	Z	1.78	1.78	0	%100
7	MP2A	X	-3.409	-3.409	0	%100
8	MP2A	Z	1.968	1.968	0	%100
9	MP1A	X	-3.083	-3.083	0	%100
10	MP1A	Z	1.78	1.78	0	%100
11	M109A	X	-3.815	-3.815	0	%100
12	M109A	Z	2.203	2.203	0	%100
13	MP4C	X	-3.083	-3.083	0	%100
14	MP4C	Z	1.78	1.78	0	%100
15	M118A	X	-.954	-.954	0	%100
16	M118A	Z	.551	.551	0	%100
17	MP4B	X	-3.083	-3.083	0	%100
18	MP4B	Z	1.78	1.78	0	%100
19	M127A	X	0	0	0	%100
20	M127A	Z	0	0	0	%100



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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,%]
21	M128A	X	-1.219	-1.219	0 %100
22	M128A	Z	.704	.704	0 %100
23	M130A	X	-1.272	-1.272	0 %100
24	M130A	Z	.734	.734	0 %100
25	M132A	X	-3.602	-3.602	0 %100
26	M132A	Z	2.079	2.079	0 %100
27	M133A	X	-1.219	-1.219	0 %100
28	M133A	Z	.704	.704	0 %100
29	M135A	X	-1.272	-1.272	0 %100
30	M135A	Z	.734	.734	0 %100
31	M137A	X	-3.602	-3.602	0 %100
32	M137A	Z	2.079	2.079	0 %100
33	M138A	X	-4.874	-4.874	0 %100
34	M138A	Z	2.814	2.814	0 %100
35	M140A	X	-5.086	-5.086	0 %100
36	M140A	Z	2.937	2.937	0 %100
37	M142A	X	-3.602	-3.602	0 %100
38	M142A	Z	2.079	2.079	0 %100
39	M143A	X	-4.874	-4.874	0 %100
40	M143A	Z	2.814	2.814	0 %100
41	M145A	X	-5.086	-5.086	0 %100
42	M145A	Z	2.937	2.937	0 %100
43	M147A	X	-3.602	-3.602	0 %100
44	M147A	Z	2.079	2.079	0 %100
45	M148A	X	-1.219	-1.219	0 %100
46	M148A	Z	.704	.704	0 %100
47	M150A	X	-1.272	-1.272	0 %100
48	M150A	Z	.734	.734	0 %100
49	M152A	X	0	0	0 %100
50	M152A	Z	0	0	0 %100
51	M153A	X	-1.219	-1.219	0 %100
52	M153A	Z	.704	.704	0 %100
53	M155A	X	-1.272	-1.272	0 %100
54	M155A	Z	.734	.734	0 %100
55	M157A	X	-4.89	-4.89	0 %100
56	M157A	Z	2.823	2.823	0 %100
57	M158A	X	-1.222	-1.222	0 %100
58	M158A	Z	.706	.706	0 %100
59	M159A	X	-1.222	-1.222	0 %100
60	M159A	Z	.706	.706	0 %100
61	M160A	X	-3.297	-3.297	0 %100
62	M160A	Z	1.904	1.904	0 %100
63	M161A	X	-.824	-.824	0 %100
64	M161A	Z	.476	.476	0 %100
65	M162A	X	-.824	-.824	0 %100
66	M162A	Z	.476	.476	0 %100
67	M163A	X	-2.888	-2.888	0 %100
68	M163A	Z	1.668	1.668	0 %100
69	M164A	X	0	0	0 %100
70	M164A	Z	0	0	0 %100
71	M165A	X	-2.888	-2.888	0 %100
72	M165A	Z	1.668	1.668	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,%]
109	M115	X	-2.811	-2.811	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	-2.811	-2.811	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	0	0	0	%100
115	OVP	X	-2.914	-2.914	0	%100
116	OVP	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	-.954	-.954	0	%100
2	M1	Z	-.551	-.551	0	%100
3	MP3A	X	-3.083	-3.083	0	%100
4	MP3A	Z	-1.78	-1.78	0	%100
5	MP4A	X	-3.083	-3.083	0	%100
6	MP4A	Z	-1.78	-1.78	0	%100
7	MP2A	X	-3.409	-3.409	0	%100
8	MP2A	Z	-1.968	-1.968	0	%100
9	MP1A	X	-3.083	-3.083	0	%100
10	MP1A	Z	-1.78	-1.78	0	%100
11	M109A	X	-.954	-.954	0	%100
12	M109A	Z	-.551	-.551	0	%100
13	MP4C	X	-3.083	-3.083	0	%100
14	MP4C	Z	-1.78	-1.78	0	%100
15	M118A	X	-3.815	-3.815	0	%100
16	M118A	Z	-2.203	-2.203	0	%100
17	MP4B	X	-3.083	-3.083	0	%100
18	MP4B	Z	-1.78	-1.78	0	%100
19	M127A	X	-3.602	-3.602	0	%100
20	M127A	Z	-2.079	-2.079	0	%100
21	M128A	X	-1.219	-1.219	0	%100
22	M128A	Z	-.704	-.704	0	%100
23	M130A	X	-1.272	-1.272	0	%100
24	M130A	Z	-.734	-.734	0	%100
25	M132A	X	0	0	0	%100
26	M132A	Z	0	0	0	%100
27	M133A	X	-1.219	-1.219	0	%100
28	M133A	Z	-.704	-.704	0	%100
29	M135A	X	-1.272	-1.272	0	%100
30	M135A	Z	-.734	-.734	0	%100
31	M137A	X	0	0	0	%100
32	M137A	Z	0	0	0	%100
33	M138A	X	-1.219	-1.219	0	%100
34	M138A	Z	-.704	-.704	0	%100
35	M140A	X	-1.272	-1.272	0	%100
36	M140A	Z	-.734	-.734	0	%100
37	M142A	X	-3.602	-3.602	0	%100
38	M142A	Z	-2.079	-2.079	0	%100
39	M143A	X	-1.219	-1.219	0	%100
40	M143A	Z	-.704	-.704	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
93	MP2C	X	-3.409	-3.409	0	%100
94	MP2C	Z	-1.968	-1.968	0	%100
95	MP1C	X	-3.083	-3.083	0	%100
96	MP1C	Z	-1.78	-1.78	0	%100
97	MP3B	X	-3.083	-3.083	0	%100
98	MP3B	Z	-1.78	-1.78	0	%100
99	MP2B	X	-3.409	-3.409	0	%100
100	MP2B	Z	-1.968	-1.968	0	%100
101	MP1B	X	-3.083	-3.083	0	%100
102	MP1B	Z	-1.78	-1.78	0	%100
103	M104	X	-.852	-.852	0	%100
104	M104	Z	-.492	-.492	0	%100
105	M109	X	-.852	-.852	0	%100
106	M109	Z	-.492	-.492	0	%100
107	M114	X	-3.409	-3.409	0	%100
108	M114	Z	-1.968	-1.968	0	%100
109	M115	X	-.811	-.811	0	%100
110	M115	Z	-.469	-.469	0	%100
111	M116	X	-3.246	-3.246	0	%100
112	M116	Z	-1.874	-1.874	0	%100
113	M117	X	-.811	-.811	0	%100
114	M117	Z	-.469	-.469	0	%100
115	OVP	X	-2.524	-2.524	0	%100
116	OVP	Z	-1.457	-1.457	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	-1.652	-1.652	0	%100
2	M1	Z	-2.862	-2.862	0	%100
3	MP3A	X	-1.78	-1.78	0	%100
4	MP3A	Z	-3.083	-3.083	0	%100
5	MP4A	X	-1.78	-1.78	0	%100
6	MP4A	Z	-3.083	-3.083	0	%100
7	MP2A	X	-1.968	-1.968	0	%100
8	MP2A	Z	-3.409	-3.409	0	%100
9	MP1A	X	-1.78	-1.78	0	%100
10	MP1A	Z	-3.083	-3.083	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	0	0	0	%100
13	MP4C	X	-1.78	-1.78	0	%100
14	MP4C	Z	-3.083	-3.083	0	%100
15	M118A	X	-1.652	-1.652	0	%100
16	M118A	Z	-2.862	-2.862	0	%100
17	MP4B	X	-1.78	-1.78	0	%100
18	MP4B	Z	-3.083	-3.083	0	%100
19	M127A	X	-2.773	-2.773	0	%100
20	M127A	Z	-4.802	-4.802	0	%100
21	M128A	X	-2.111	-2.111	0	%100
22	M128A	Z	-3.656	-3.656	0	%100
23	M130A	X	-2.202	-2.202	0	%100
24	M130A	Z	-3.815	-3.815	0	%100



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 Designer :
 Job Number :
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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,%]
25	M132A	X	-.693	-.693	0	%100
26	M132A	Z	-1.201	-1.201	0	%100
27	M133A	X	-2.111	-2.111	0	%100
28	M133A	Z	-3.656	-3.656	0	%100
29	M135A	X	-2.202	-2.202	0	%100
30	M135A	Z	-3.815	-3.815	0	%100
31	M137A	X	-.693	-.693	0	%100
32	M137A	Z	-1.201	-1.201	0	%100
33	M138A	X	0	0	0	%100
34	M138A	Z	0	0	0	%100
35	M140A	X	0	0	0	%100
36	M140A	Z	0	0	0	%100
37	M142A	X	-.693	-.693	0	%100
38	M142A	Z	-1.201	-1.201	0	%100
39	M143A	X	0	0	0	%100
40	M143A	Z	0	0	0	%100
41	M145A	X	0	0	0	%100
42	M145A	Z	0	0	0	%100
43	M147A	X	-.693	-.693	0	%100
44	M147A	Z	-1.201	-1.201	0	%100
45	M148A	X	-2.111	-2.111	0	%100
46	M148A	Z	-3.656	-3.656	0	%100
47	M150A	X	-2.202	-2.202	0	%100
48	M150A	Z	-3.815	-3.815	0	%100
49	M152A	X	-2.773	-2.773	0	%100
50	M152A	Z	-4.802	-4.802	0	%100
51	M153A	X	-2.111	-2.111	0	%100
52	M153A	Z	-3.656	-3.656	0	%100
53	M155A	X	-2.202	-2.202	0	%100
54	M155A	Z	-3.815	-3.815	0	%100
55	M157A	X	0	0	0	%100
56	M157A	Z	0	0	0	%100
57	M158A	X	-2.117	-2.117	0	%100
58	M158A	Z	-3.667	-3.667	0	%100
59	M159A	X	-2.117	-2.117	0	%100
60	M159A	Z	-3.667	-3.667	0	%100
61	M160A	X	0	0	0	%100
62	M160A	Z	0	0	0	%100
63	M161A	X	-1.428	-1.428	0	%100
64	M161A	Z	-2.473	-2.473	0	%100
65	M162A	X	-1.428	-1.428	0	%100
66	M162A	Z	-2.473	-2.473	0	%100
67	M163A	X	-.556	-.556	0	%100
68	M163A	Z	-.963	-.963	0	%100
69	M164A	X	-2.224	-2.224	0	%100
70	M164A	Z	-3.851	-3.851	0	%100
71	M165A	X	-.556	-.556	0	%100
72	M165A	Z	-.963	-.963	0	%100
73	M171A	X	-1.571	-1.571	0	%100
74	M171A	Z	-2.721	-2.721	0	%100
75	M173A	X	-9.7e-5	-9.7e-5	0	%100
76	M173A	Z	-.000169	-.000169	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,%]
77	M177A	X	-1.546	-1.546	0	%100
78	M177A	Z	-2.678	-2.678	0	%100
79	M179A	X	-1.546	-1.546	0	%100
80	M179A	Z	-2.678	-2.678	0	%100
81	M183A	X	-9.7e-5	-9.7e-5	0	%100
82	M183A	Z	-.000169	-.000169	0	%100
83	M185A	X	-1.571	-1.571	0	%100
84	M185A	Z	-2.721	-2.721	0	%100
85	M189A	X	0	0	0	%100
86	M189A	Z	0	0	0	%100
87	M190A	X	-1.428	-1.428	0	%100
88	M190A	Z	-2.473	-2.473	0	%100
89	M191A	X	-1.428	-1.428	0	%100
90	M191A	Z	-2.473	-2.473	0	%100
91	MP3C	X	-1.78	-1.78	0	%100
92	MP3C	Z	-3.083	-3.083	0	%100
93	MP2C	X	-1.968	-1.968	0	%100
94	MP2C	Z	-3.409	-3.409	0	%100
95	MP1C	X	-1.78	-1.78	0	%100
96	MP1C	Z	-3.083	-3.083	0	%100
97	MP3B	X	-1.78	-1.78	0	%100
98	MP3B	Z	-3.083	-3.083	0	%100
99	MP2B	X	-1.968	-1.968	0	%100
100	MP2B	Z	-3.409	-3.409	0	%100
101	MP1B	X	-1.78	-1.78	0	%100
102	MP1B	Z	-3.083	-3.083	0	%100
103	M104	X	-1.476	-1.476	0	%100
104	M104	Z	-2.556	-2.556	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-1.476	-1.476	0	%100
108	M114	Z	-2.556	-2.556	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	-1.406	-1.406	0	%100
112	M116	Z	-2.434	-2.434	0	%100
113	M117	X	-1.406	-1.406	0	%100
114	M117	Z	-2.434	-2.434	0	%100
115	OVP	X	-1.457	-1.457	0	%100
116	OVP	Z	-2.524	-2.524	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	-.94	-.94	0	%100
3	MP3A	X	0	0	0	%100
4	MP3A	Z	-.643	-.643	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-.643	-.643	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	-.778	-.778	0	%100



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 Job Number :
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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,%]	
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-.643	-.643	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	-.235	-.235	0	%100
13	MP4C	X	0	0	0	%100
14	MP4C	Z	-.643	-.643	0	%100
15	M118A	X	0	0	0	%100
16	M118A	Z	-.235	-.235	0	%100
17	MP4B	X	0	0	0	%100
18	MP4B	Z	-.643	-.643	0	%100
19	M127A	X	0	0	0	%100
20	M127A	Z	-1.218	-1.218	0	%100
21	M128A	X	0	0	0	%100
22	M128A	Z	-1.654	-1.654	0	%100
23	M130A	X	0	0	0	%100
24	M130A	Z	-1.742	-1.742	0	%100
25	M132A	X	0	0	0	%100
26	M132A	Z	-1.218	-1.218	0	%100
27	M133A	X	0	0	0	%100
28	M133A	Z	-1.654	-1.654	0	%100
29	M135A	X	0	0	0	%100
30	M135A	Z	-1.742	-1.742	0	%100
31	M137A	X	0	0	0	%100
32	M137A	Z	-1.218	-1.218	0	%100
33	M138A	X	0	0	0	%100
34	M138A	Z	-.413	-.413	0	%100
35	M140A	X	0	0	0	%100
36	M140A	Z	-.435	-.435	0	%100
37	M142A	X	0	0	0	%100
38	M142A	Z	0	0	0	%100
39	M143A	X	0	0	0	%100
40	M143A	Z	-.413	-.413	0	%100
41	M145A	X	0	0	0	%100
42	M145A	Z	-.435	-.435	0	%100
43	M147A	X	0	0	0	%100
44	M147A	Z	0	0	0	%100
45	M148A	X	0	0	0	%100
46	M148A	Z	-.413	-.413	0	%100
47	M150A	X	0	0	0	%100
48	M150A	Z	-.435	-.435	0	%100
49	M152A	X	0	0	0	%100
50	M152A	Z	-1.218	-1.218	0	%100
51	M153A	X	0	0	0	%100
52	M153A	Z	-.413	-.413	0	%100
53	M155A	X	0	0	0	%100
54	M155A	Z	-.435	-.435	0	%100
55	M157A	X	0	0	0	%100
56	M157A	Z	-.406	-.406	0	%100
57	M158A	X	0	0	0	%100
58	M158A	Z	-1.623	-1.623	0	%100
59	M159A	X	0	0	0	%100
60	M159A	Z	-.406	-.406	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, %]
97	MP3B	X	.321	.321	0	%100
98	MP3B	Z	-.557	-.557	0	%100
99	MP2B	X	.389	.389	0	%100
100	MP2B	Z	-.674	-.674	0	%100
101	MP1B	X	.321	.321	0	%100
102	MP1B	Z	-.557	-.557	0	%100
103	M104	X	.292	.292	0	%100
104	M104	Z	-.505	-.505	0	%100
105	M109	X	.292	.292	0	%100
106	M109	Z	-.505	-.505	0	%100
107	M114	X	0	0	0	%100
108	M114	Z	0	0	0	%100
109	M115	X	.344	.344	0	%100
110	M115	Z	-.595	-.595	0	%100
111	M116	X	0	0	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	.344	.344	0	%100
114	M117	Z	-.595	-.595	0	%100
115	OVP	X	.263	.263	0	%100
116	OVP	Z	-.455	-.455	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	.203	.203	0	%100
2	M1	Z	-.117	-.117	0	%100
3	MP3A	X	.557	.557	0	%100
4	MP3A	Z	-.321	-.321	0	%100
5	MP4A	X	.557	.557	0	%100
6	MP4A	Z	-.321	-.321	0	%100
7	MP2A	X	.674	.674	0	%100
8	MP2A	Z	-.389	-.389	0	%100
9	MP1A	X	.557	.557	0	%100
10	MP1A	Z	-.321	-.321	0	%100
11	M109A	X	.814	.814	0	%100
12	M109A	Z	-.47	-.47	0	%100
13	MP4C	X	.557	.557	0	%100
14	MP4C	Z	-.321	-.321	0	%100
15	M118A	X	.203	.203	0	%100
16	M118A	Z	-.117	-.117	0	%100
17	MP4B	X	.557	.557	0	%100
18	MP4B	Z	-.321	-.321	0	%100
19	M127A	X	0	0	0	%100
20	M127A	Z	0	0	0	%100
21	M128A	X	.358	.358	0	%100
22	M128A	Z	-.207	-.207	0	%100
23	M130A	X	.377	.377	0	%100
24	M130A	Z	-.218	-.218	0	%100
25	M132A	X	1.054	1.054	0	%100
26	M132A	Z	-.609	-.609	0	%100
27	M133A	X	.358	.358	0	%100
28	M133A	Z	-.207	-.207	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,%]
29	M135A	X	.377	.377	0 %100
30	M135A	Z	-.218	-.218	0 %100
31	M137A	X	1.054	1.054	0 %100
32	M137A	Z	-.609	-.609	0 %100
33	M138A	X	1.432	1.432	0 %100
34	M138A	Z	-.827	-.827	0 %100
35	M140A	X	1.508	1.508	0 %100
36	M140A	Z	-.871	-.871	0 %100
37	M142A	X	1.054	1.054	0 %100
38	M142A	Z	-.609	-.609	0 %100
39	M143A	X	1.432	1.432	0 %100
40	M143A	Z	-.827	-.827	0 %100
41	M145A	X	1.508	1.508	0 %100
42	M145A	Z	-.871	-.871	0 %100
43	M147A	X	1.054	1.054	0 %100
44	M147A	Z	-.609	-.609	0 %100
45	M148A	X	.358	.358	0 %100
46	M148A	Z	-.207	-.207	0 %100
47	M150A	X	.377	.377	0 %100
48	M150A	Z	-.218	-.218	0 %100
49	M152A	X	0	0	0 %100
50	M152A	Z	0	0	0 %100
51	M153A	X	.358	.358	0 %100
52	M153A	Z	-.207	-.207	0 %100
53	M155A	X	.377	.377	0 %100
54	M155A	Z	-.218	-.218	0 %100
55	M157A	X	1.406	1.406	0 %100
56	M157A	Z	-.812	-.812	0 %100
57	M158A	X	.351	.351	0 %100
58	M158A	Z	-.203	-.203	0 %100
59	M159A	X	.351	.351	0 %100
60	M159A	Z	-.203	-.203	0 %100
61	M160A	X	.766	.766	0 %100
62	M160A	Z	-.442	-.442	0 %100
63	M161A	X	.192	.192	0 %100
64	M161A	Z	-.111	-.111	0 %100
65	M162A	X	.192	.192	0 %100
66	M162A	Z	-.111	-.111	0 %100
67	M163A	X	.625	.625	0 %100
68	M163A	Z	-.361	-.361	0 %100
69	M164A	X	0	0	0 %100
70	M164A	Z	0	0	0 %100
71	M165A	X	.625	.625	0 %100
72	M165A	Z	-.361	-.361	0 %100
73	M171A	X	.191	.191	0 %100
74	M171A	Z	-.11	-.11	0 %100
75	M173A	X	.781	.781	0 %100
76	M173A	Z	-.451	-.451	0 %100
77	M177A	X	.2	.2	0 %100
78	M177A	Z	-.115	-.115	0 %100
79	M179A	X	.2	.2	0 %100
80	M179A	Z	-.115	-.115	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,%]
13	MP4C	X	.643	.643	0 %100
14	MP4C	Z	0	0	0 %100
15	M118A	X	.705	.705	0 %100
16	M118A	Z	0	0	0 %100
17	MP4B	X	.643	.643	0 %100
18	MP4B	Z	0	0	0 %100
19	M127A	X	.406	.406	0 %100
20	M127A	Z	0	0	0 %100
21	M128A	X	0	0	0 %100
22	M128A	Z	0	0	0 %100
23	M130A	X	0	0	0 %100
24	M130A	Z	0	0	0 %100
25	M132A	X	.406	.406	0 %100
26	M132A	Z	0	0	0 %100
27	M133A	X	0	0	0 %100
28	M133A	Z	0	0	0 %100
29	M135A	X	0	0	0 %100
30	M135A	Z	0	0	0 %100
31	M137A	X	.406	.406	0 %100
32	M137A	Z	0	0	0 %100
33	M138A	X	1.24	1.24	0 %100
34	M138A	Z	0	0	0 %100
35	M140A	X	1.306	1.306	0 %100
36	M140A	Z	0	0	0 %100
37	M142A	X	1.623	1.623	0 %100
38	M142A	Z	0	0	0 %100
39	M143A	X	1.24	1.24	0 %100
40	M143A	Z	0	0	0 %100
41	M145A	X	1.306	1.306	0 %100
42	M145A	Z	0	0	0 %100
43	M147A	X	1.623	1.623	0 %100
44	M147A	Z	0	0	0 %100
45	M148A	X	1.24	1.24	0 %100
46	M148A	Z	0	0	0 %100
47	M150A	X	1.306	1.306	0 %100
48	M150A	Z	0	0	0 %100
49	M152A	X	.406	.406	0 %100
50	M152A	Z	0	0	0 %100
51	M153A	X	1.24	1.24	0 %100
52	M153A	Z	0	0	0 %100
53	M155A	X	1.306	1.306	0 %100
54	M155A	Z	0	0	0 %100
55	M157A	X	1.218	1.218	0 %100
56	M157A	Z	0	0	0 %100
57	M158A	X	0	0	0 %100
58	M158A	Z	0	0	0 %100
59	M159A	X	1.218	1.218	0 %100
60	M159A	Z	0	0	0 %100
61	M160A	X	.663	.663	0 %100
62	M160A	Z	0	0	0 %100
63	M161A	X	0	0	0 %100
64	M161A	Z	0	0	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, %]
105	M109	X	.168	.168	0	%100
106	M109	Z	.097	.097	0	%100
107	M114	X	.674	.674	0	%100
108	M114	Z	.389	.389	0	%100
109	M115	X	.198	.198	0	%100
110	M115	Z	.115	.115	0	%100
111	M116	X	.794	.794	0	%100
112	M116	Z	.458	.458	0	%100
113	M117	X	.198	.198	0	%100
114	M117	Z	.115	.115	0	%100
115	OVP	X	.455	.455	0	%100
116	OVP	Z	.263	.263	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	.352	.352	0	%100
2	M1	Z	.61	.61	0	%100
3	MP3A	X	.321	.321	0	%100
4	MP3A	Z	.557	.557	0	%100
5	MP4A	X	.321	.321	0	%100
6	MP4A	Z	.557	.557	0	%100
7	MP2A	X	.389	.389	0	%100
8	MP2A	Z	.674	.674	0	%100
9	MP1A	X	.321	.321	0	%100
10	MP1A	Z	.557	.557	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	0	0	0	%100
13	MP4C	X	.321	.321	0	%100
14	MP4C	Z	.557	.557	0	%100
15	M118A	X	.352	.352	0	%100
16	M118A	Z	.61	.61	0	%100
17	MP4B	X	.321	.321	0	%100
18	MP4B	Z	.557	.557	0	%100
19	M127A	X	.812	.812	0	%100
20	M127A	Z	1.406	1.406	0	%100
21	M128A	X	.62	.62	0	%100
22	M128A	Z	1.074	1.074	0	%100
23	M130A	X	.653	.653	0	%100
24	M130A	Z	1.131	1.131	0	%100
25	M132A	X	.203	.203	0	%100
26	M132A	Z	.351	.351	0	%100
27	M133A	X	.62	.62	0	%100
28	M133A	Z	1.074	1.074	0	%100
29	M135A	X	.653	.653	0	%100
30	M135A	Z	1.131	1.131	0	%100
31	M137A	X	.203	.203	0	%100
32	M137A	Z	.351	.351	0	%100
33	M138A	X	0	0	0	%100
34	M138A	Z	0	0	0	%100
35	M140A	X	0	0	0	%100
36	M140A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
89	M191A	X	.332	.332	0	%100
90	M191A	Z	.575	.575	0	%100
91	MP3C	X	.321	.321	0	%100
92	MP3C	Z	.557	.557	0	%100
93	MP2C	X	.389	.389	0	%100
94	MP2C	Z	.674	.674	0	%100
95	MP1C	X	.321	.321	0	%100
96	MP1C	Z	.557	.557	0	%100
97	MP3B	X	.321	.321	0	%100
98	MP3B	Z	.557	.557	0	%100
99	MP2B	X	.389	.389	0	%100
100	MP2B	Z	.674	.674	0	%100
101	MP1B	X	.321	.321	0	%100
102	MP1B	Z	.557	.557	0	%100
103	M104	X	.292	.292	0	%100
104	M104	Z	.505	.505	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	.292	.292	0	%100
108	M114	Z	.505	.505	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	.344	.344	0	%100
112	M116	Z	.595	.595	0	%100
113	M117	X	.344	.344	0	%100
114	M117	Z	.595	.595	0	%100
115	OVP	X	.263	.263	0	%100
116	OVP	Z	.455	.455	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.94	.94	0	%100
3	MP3A	X	0	0	0	%100
4	MP3A	Z	.643	.643	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	.643	.643	0	%100
7	MP2A	X	0	0	0	%100
8	MP2A	Z	.778	.778	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	.643	.643	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	.235	.235	0	%100
13	MP4C	X	0	0	0	%100
14	MP4C	Z	.643	.643	0	%100
15	M118A	X	0	0	0	%100
16	M118A	Z	.235	.235	0	%100
17	MP4B	X	0	0	0	%100
18	MP4B	Z	.643	.643	0	%100
19	M127A	X	0	0	0	%100
20	M127A	Z	1.218	1.218	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,%]
93	MP2C	X	-.674	-.674	0	%100
94	MP2C	Z	.389	.389	0	%100
95	MP1C	X	-.557	-.557	0	%100
96	MP1C	Z	.321	.321	0	%100
97	MP3B	X	-.557	-.557	0	%100
98	MP3B	Z	.321	.321	0	%100
99	MP2B	X	-.674	-.674	0	%100
100	MP2B	Z	.389	.389	0	%100
101	MP1B	X	-.557	-.557	0	%100
102	MP1B	Z	.321	.321	0	%100
103	M104	X	-.168	-.168	0	%100
104	M104	Z	.097	.097	0	%100
105	M109	X	-.674	-.674	0	%100
106	M109	Z	.389	.389	0	%100
107	M114	X	-.168	-.168	0	%100
108	M114	Z	.097	.097	0	%100
109	M115	X	-.794	-.794	0	%100
110	M115	Z	.458	.458	0	%100
111	M116	X	-.198	-.198	0	%100
112	M116	Z	.115	.115	0	%100
113	M117	X	-.198	-.198	0	%100
114	M117	Z	.115	.115	0	%100
115	OVP	X	-.455	-.455	0	%100
116	OVP	Z	.263	.263	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	MP3A	X	-.643	-.643	0	%100
4	MP3A	Z	0	0	0	%100
5	MP4A	X	-.643	-.643	0	%100
6	MP4A	Z	0	0	0	%100
7	MP2A	X	-.778	-.778	0	%100
8	MP2A	Z	0	0	0	%100
9	MP1A	X	-.643	-.643	0	%100
10	MP1A	Z	0	0	0	%100
11	M109A	X	-.705	-.705	0	%100
12	M109A	Z	0	0	0	%100
13	MP4C	X	-.643	-.643	0	%100
14	MP4C	Z	0	0	0	%100
15	M118A	X	-.705	-.705	0	%100
16	M118A	Z	0	0	0	%100
17	MP4B	X	-.643	-.643	0	%100
18	MP4B	Z	0	0	0	%100
19	M127A	X	-.406	-.406	0	%100
20	M127A	Z	0	0	0	%100
21	M128A	X	0	0	0	%100
22	M128A	Z	0	0	0	%100
23	M130A	X	0	0	0	%100
24	M130A	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	M132A	X	-.406	-.406	0 %100
26	M132A	Z	0	0	0 %100
27	M133A	X	0	0	0 %100
28	M133A	Z	0	0	0 %100
29	M135A	X	0	0	0 %100
30	M135A	Z	0	0	0 %100
31	M137A	X	-.406	-.406	0 %100
32	M137A	Z	0	0	0 %100
33	M138A	X	-1.24	-1.24	0 %100
34	M138A	Z	0	0	0 %100
35	M140A	X	-1.306	-1.306	0 %100
36	M140A	Z	0	0	0 %100
37	M142A	X	-1.623	-1.623	0 %100
38	M142A	Z	0	0	0 %100
39	M143A	X	-1.24	-1.24	0 %100
40	M143A	Z	0	0	0 %100
41	M145A	X	-1.306	-1.306	0 %100
42	M145A	Z	0	0	0 %100
43	M147A	X	-1.623	-1.623	0 %100
44	M147A	Z	0	0	0 %100
45	M148A	X	-1.24	-1.24	0 %100
46	M148A	Z	0	0	0 %100
47	M150A	X	-1.306	-1.306	0 %100
48	M150A	Z	0	0	0 %100
49	M152A	X	-.406	-.406	0 %100
50	M152A	Z	0	0	0 %100
51	M153A	X	-1.24	-1.24	0 %100
52	M153A	Z	0	0	0 %100
53	M155A	X	-1.306	-1.306	0 %100
54	M155A	Z	0	0	0 %100
55	M157A	X	-1.218	-1.218	0 %100
56	M157A	Z	0	0	0 %100
57	M158A	X	0	0	0 %100
58	M158A	Z	0	0	0 %100
59	M159A	X	-1.218	-1.218	0 %100
60	M159A	Z	0	0	0 %100
61	M160A	X	-.663	-.663	0 %100
62	M160A	Z	0	0	0 %100
63	M161A	X	0	0	0 %100
64	M161A	Z	0	0	0 %100
65	M162A	X	-.663	-.663	0 %100
66	M162A	Z	0	0	0 %100
67	M163A	X	-.962	-.962	0 %100
68	M163A	Z	0	0	0 %100
69	M164A	X	-.24	-.24	0 %100
70	M164A	Z	0	0	0 %100
71	M165A	X	-.24	-.24	0 %100
72	M165A	Z	0	0	0 %100
73	M171A	X	-.671	-.671	0 %100
74	M171A	Z	0	0	0 %100
75	M173A	X	-.671	-.671	0 %100
76	M173A	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	M177A	X	-4.2e-5	-4.2e-5	0	%100
78	M177A	Z	0	0	0	%100
79	M179A	X	-.682	-.682	0	%100
80	M179A	Z	0	0	0	%100
81	M183A	X	-.682	-.682	0	%100
82	M183A	Z	0	0	0	%100
83	M185A	X	-4.2e-5	-4.2e-5	0	%100
84	M185A	Z	0	0	0	%100
85	M189A	X	-.663	-.663	0	%100
86	M189A	Z	0	0	0	%100
87	M190A	X	0	0	0	%100
88	M190A	Z	0	0	0	%100
89	M191A	X	-.663	-.663	0	%100
90	M191A	Z	0	0	0	%100
91	MP3C	X	-.643	-.643	0	%100
92	MP3C	Z	0	0	0	%100
93	MP2C	X	-.778	-.778	0	%100
94	MP2C	Z	0	0	0	%100
95	MP1C	X	-.643	-.643	0	%100
96	MP1C	Z	0	0	0	%100
97	MP3B	X	-.643	-.643	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	-.778	-.778	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-.643	-.643	0	%100
102	MP1B	Z	0	0	0	%100
103	M104	X	0	0	0	%100
104	M104	Z	0	0	0	%100
105	M109	X	-.583	-.583	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-.583	-.583	0	%100
108	M114	Z	0	0	0	%100
109	M115	X	-.687	-.687	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	-.687	-.687	0	%100
112	M116	Z	0	0	0	%100
113	M117	X	0	0	0	%100
114	M117	Z	0	0	0	%100
115	OVP	X	-.525	-.525	0	%100
116	OVP	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	-.203	-.203	0	%100
2	M1	Z	-.117	-.117	0	%100
3	MP3A	X	-.557	-.557	0	%100
4	MP3A	Z	-.321	-.321	0	%100
5	MP4A	X	-.557	-.557	0	%100
6	MP4A	Z	-.321	-.321	0	%100
7	MP2A	X	-.674	-.674	0	%100
8	MP2A	Z	-.389	-.389	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,%]
61	M160A	X	-.192	-.192	0 %100
62	M160A	Z	-.111	-.111	0 %100
63	M161A	X	-.192	-.192	0 %100
64	M161A	Z	-.111	-.111	0 %100
65	M162A	X	-.766	-.766	0 %100
66	M162A	Z	-.442	-.442	0 %100
67	M163A	X	-.625	-.625	0 %100
68	M163A	Z	-.361	-.361	0 %100
69	M164A	X	-.625	-.625	0 %100
70	M164A	Z	-.361	-.361	0 %100
71	M165A	X	0	0	0 %100
72	M165A	Z	0	0	0 %100
73	M171A	X	-.781	-.781	0 %100
74	M171A	Z	-.451	-.451	0 %100
75	M173A	X	-.191	-.191	0 %100
76	M173A	Z	-.11	-.11	0 %100
77	M177A	X	-.191	-.191	0 %100
78	M177A	Z	-.11	-.11	0 %100
79	M179A	X	-.781	-.781	0 %100
80	M179A	Z	-.451	-.451	0 %100
81	M183A	X	-.2	-.2	0 %100
82	M183A	Z	-.115	-.115	0 %100
83	M185A	X	-.2	-.2	0 %100
84	M185A	Z	-.115	-.115	0 %100
85	M189A	X	-.192	-.192	0 %100
86	M189A	Z	-.111	-.111	0 %100
87	M190A	X	-.192	-.192	0 %100
88	M190A	Z	-.111	-.111	0 %100
89	M191A	X	-.766	-.766	0 %100
90	M191A	Z	-.442	-.442	0 %100
91	MP3C	X	-.557	-.557	0 %100
92	MP3C	Z	-.321	-.321	0 %100
93	MP2C	X	-.674	-.674	0 %100
94	MP2C	Z	-.389	-.389	0 %100
95	MP1C	X	-.557	-.557	0 %100
96	MP1C	Z	-.321	-.321	0 %100
97	MP3B	X	-.557	-.557	0 %100
98	MP3B	Z	-.321	-.321	0 %100
99	MP2B	X	-.674	-.674	0 %100
100	MP2B	Z	-.389	-.389	0 %100
101	MP1B	X	-.557	-.557	0 %100
102	MP1B	Z	-.321	-.321	0 %100
103	M104	X	-.168	-.168	0 %100
104	M104	Z	-.097	-.097	0 %100
105	M109	X	-.168	-.168	0 %100
106	M109	Z	-.097	-.097	0 %100
107	M114	X	-.674	-.674	0 %100
108	M114	Z	-.389	-.389	0 %100
109	M115	X	-.198	-.198	0 %100
110	M115	Z	-.115	-.115	0 %100
111	M116	X	-.794	-.794	0 %100
112	M116	Z	-.458	-.458	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,%]
113	M117	X	-.198	-.198	0	%100
114	M117	Z	-.115	-.115	0	%100
115	OVP	X	-.455	-.455	0	%100
116	OVP	Z	-.263	-.263	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	-.352	-.352	0	%100
2	M1	Z	-.61	-.61	0	%100
3	MP3A	X	-.321	-.321	0	%100
4	MP3A	Z	-.557	-.557	0	%100
5	MP4A	X	-.321	-.321	0	%100
6	MP4A	Z	-.557	-.557	0	%100
7	MP2A	X	-.389	-.389	0	%100
8	MP2A	Z	-.674	-.674	0	%100
9	MP1A	X	-.321	-.321	0	%100
10	MP1A	Z	-.557	-.557	0	%100
11	M109A	X	0	0	0	%100
12	M109A	Z	0	0	0	%100
13	MP4C	X	-.321	-.321	0	%100
14	MP4C	Z	-.557	-.557	0	%100
15	M118A	X	-.352	-.352	0	%100
16	M118A	Z	-.61	-.61	0	%100
17	MP4B	X	-.321	-.321	0	%100
18	MP4B	Z	-.557	-.557	0	%100
19	M127A	X	-.812	-.812	0	%100
20	M127A	Z	-1.406	-1.406	0	%100
21	M128A	X	-.62	-.62	0	%100
22	M128A	Z	-1.074	-1.074	0	%100
23	M130A	X	-.653	-.653	0	%100
24	M130A	Z	-1.131	-1.131	0	%100
25	M132A	X	-.203	-.203	0	%100
26	M132A	Z	-.351	-.351	0	%100
27	M133A	X	-.62	-.62	0	%100
28	M133A	Z	-1.074	-1.074	0	%100
29	M135A	X	-.653	-.653	0	%100
30	M135A	Z	-1.131	-1.131	0	%100
31	M137A	X	-.203	-.203	0	%100
32	M137A	Z	-.351	-.351	0	%100
33	M138A	X	0	0	0	%100
34	M138A	Z	0	0	0	%100
35	M140A	X	0	0	0	%100
36	M140A	Z	0	0	0	%100
37	M142A	X	-.203	-.203	0	%100
38	M142A	Z	-.351	-.351	0	%100
39	M143A	X	0	0	0	%100
40	M143A	Z	0	0	0	%100
41	M145A	X	0	0	0	%100
42	M145A	Z	0	0	0	%100
43	M147A	X	-.203	-.203	0	%100
44	M147A	Z	-.351	-.351	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,%]
45	M148A	X	-.62	-.62	0 %100
46	M148A	Z	-1.074	-1.074	0 %100
47	M150A	X	-.653	-.653	0 %100
48	M150A	Z	-1.131	-1.131	0 %100
49	M152A	X	-.812	-.812	0 %100
50	M152A	Z	-1.406	-1.406	0 %100
51	M153A	X	-.62	-.62	0 %100
52	M153A	Z	-1.074	-1.074	0 %100
53	M155A	X	-.653	-.653	0 %100
54	M155A	Z	-1.131	-1.131	0 %100
55	M157A	X	0	0	0 %100
56	M157A	Z	0	0	0 %100
57	M158A	X	-.609	-.609	0 %100
58	M158A	Z	-1.054	-1.054	0 %100
59	M159A	X	-.609	-.609	0 %100
60	M159A	Z	-1.054	-1.054	0 %100
61	M160A	X	0	0	0 %100
62	M160A	Z	0	0	0 %100
63	M161A	X	-.332	-.332	0 %100
64	M161A	Z	-.575	-.575	0 %100
65	M162A	X	-.332	-.332	0 %100
66	M162A	Z	-.575	-.575	0 %100
67	M163A	X	-.12	-.12	0 %100
68	M163A	Z	-.208	-.208	0 %100
69	M164A	X	-.481	-.481	0 %100
70	M164A	Z	-.833	-.833	0 %100
71	M165A	X	-.12	-.12	0 %100
72	M165A	Z	-.208	-.208	0 %100
73	M171A	X	-.341	-.341	0 %100
74	M171A	Z	-.59	-.59	0 %100
75	M173A	X	-2.1e-5	-2.1e-5	0 %100
76	M173A	Z	-3.7e-5	-3.7e-5	0 %100
77	M177A	X	-.336	-.336	0 %100
78	M177A	Z	-.581	-.581	0 %100
79	M179A	X	-.336	-.336	0 %100
80	M179A	Z	-.581	-.581	0 %100
81	M183A	X	-2.1e-5	-2.1e-5	0 %100
82	M183A	Z	-3.7e-5	-3.7e-5	0 %100
83	M185A	X	-.341	-.341	0 %100
84	M185A	Z	-.59	-.59	0 %100
85	M189A	X	0	0	0 %100
86	M189A	Z	0	0	0 %100
87	M190A	X	-.332	-.332	0 %100
88	M190A	Z	-.575	-.575	0 %100
89	M191A	X	-.332	-.332	0 %100
90	M191A	Z	-.575	-.575	0 %100
91	MP3C	X	-.321	-.321	0 %100
92	MP3C	Z	-.557	-.557	0 %100
93	MP2C	X	-.389	-.389	0 %100
94	MP2C	Z	-.674	-.674	0 %100
95	MP1C	X	-.321	-.321	0 %100
96	MP1C	Z	-.557	-.557	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,%]
97	MP3B	X	-.321	-.321	0	%100
98	MP3B	Z	-.557	-.557	0	%100
99	MP2B	X	-.389	-.389	0	%100
100	MP2B	Z	-.674	-.674	0	%100
101	MP1B	X	-.321	-.321	0	%100
102	MP1B	Z	-.557	-.557	0	%100
103	M104	X	-.292	-.292	0	%100
104	M104	Z	-.505	-.505	0	%100
105	M109	X	0	0	0	%100
106	M109	Z	0	0	0	%100
107	M114	X	-.292	-.292	0	%100
108	M114	Z	-.505	-.505	0	%100
109	M115	X	0	0	0	%100
110	M115	Z	0	0	0	%100
111	M116	X	-.344	-.344	0	%100
112	M116	Z	-.595	-.595	0	%100
113	M117	X	-.344	-.344	0	%100
114	M117	Z	-.595	-.595	0	%100
115	OVP	X	-.263	-.263	0	%100
116	OVP	Z	-.455	-.455	0	%100

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

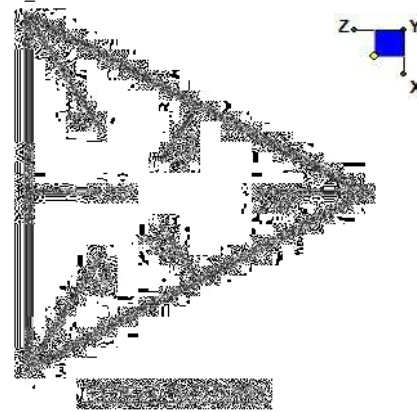
	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M171A	Y	-3.512	-6.647	0	.836
2	M171A	Y	-6.647	-8.336	.836	1.671
3	M171A	Y	-8.336	-7.102	1.671	2.507
4	M171A	Y	-7.102	-4.455	2.507	3.343
5	M171A	Y	-4.455	-1.875	3.343	4.178
6	M173A	Y	-3.506	-6.613	0	.836
7	M173A	Y	-6.613	-8.27	.836	1.671
8	M173A	Y	-8.27	-6.962	1.671	2.507
9	M173A	Y	-6.962	-4.253	2.507	3.343
10	M173A	Y	-4.253	-1.661	3.343	4.178
11	M177A	Y	-3.513	-6.647	0	.836
12	M177A	Y	-6.647	-8.337	.836	1.671
13	M177A	Y	-8.337	-7.102	1.671	2.507
14	M177A	Y	-7.102	-4.454	2.507	3.343
15	M177A	Y	-4.454	-1.873	3.343	4.178
16	M179A	Y	-3.506	-6.614	0	.836
17	M179A	Y	-6.614	-8.27	.836	1.671
18	M179A	Y	-8.27	-6.961	1.671	2.507
19	M179A	Y	-6.961	-4.254	2.507	3.343
20	M179A	Y	-4.254	-1.662	3.343	4.178
21	M183A	Y	-3.504	-6.643	0	.836
22	M183A	Y	-6.643	-8.341	.836	1.671
23	M183A	Y	-8.341	-7.105	1.671	2.507
24	M183A	Y	-7.105	-4.452	2.507	3.343
25	M183A	Y	-4.452	-1.878	3.343	4.178
26	M185A	Y	-3.506	-6.614	0	.836
27	M185A	Y	-6.614	-8.27	.836	1.671
28	M185A	Y	-8.27	-6.963	1.671	2.507



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N240B	30
N242B	150
N238B	270



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):

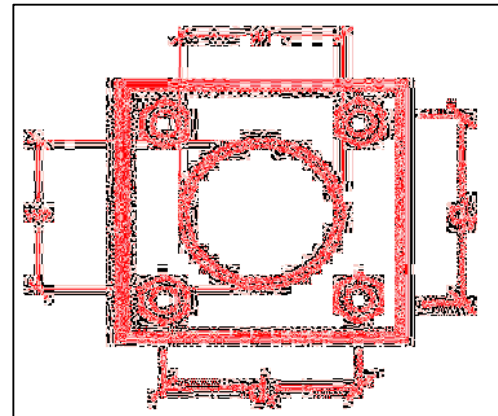
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
6
6
A325N
0.625
20.6
3.8
20.7
12.4
24.9%*
7.6%



*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
7
7
4
4
36
0.75
3
4.18
2.91
32.5%
69.6%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in) :	10.3
$\Phi \cdot M_{n_{xx}}$ (kip-in) :	31.9
$M_{u_{yy}}$ (kip-in) :	0.1
$\Phi \cdot M_{n_{yy}}$ (kip-in) :	31.9

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 _____

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

Sector: **A**
 Structure Type: Monopole
 Mount Elev: 174.00

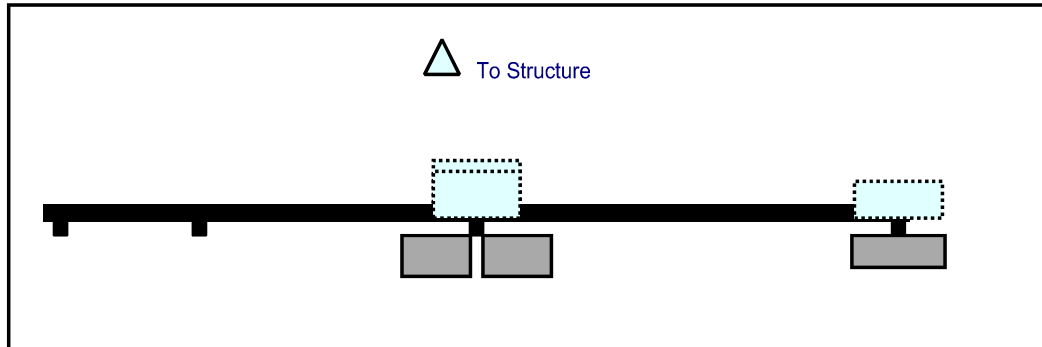
10080851

6/30/2021

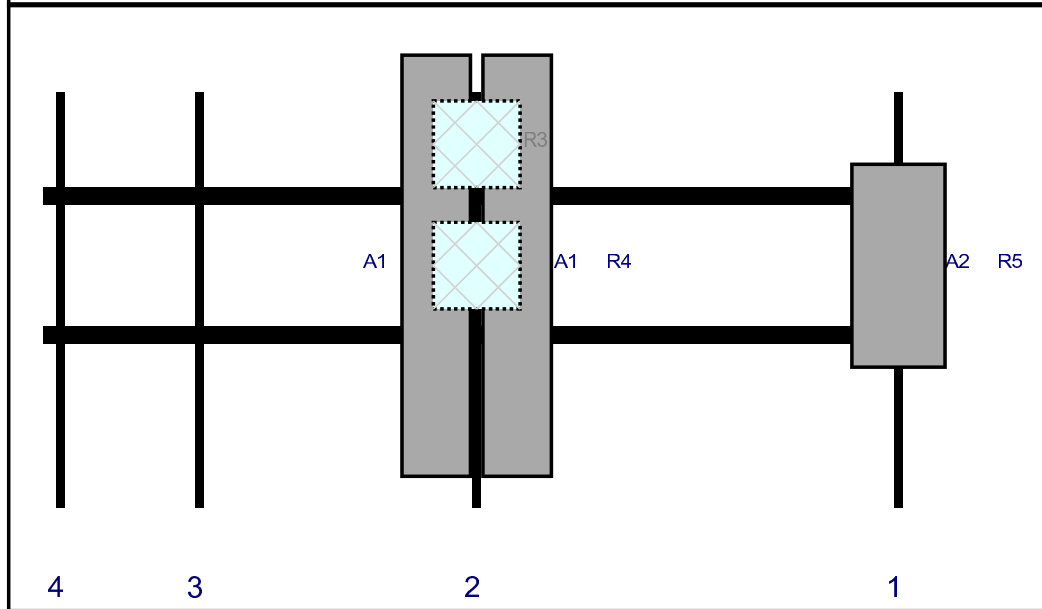
Page: 1



Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	TD-850B-LTE78-43	15.4	15.2	148	1	a	Behind	30	0	Added	
R5	MT6407-77A	35.1	16.1	148	1	a	Front	30	0	Added	
A1	NHH-85B-R2B	72.87	11.85	75	2	a	Front	30	7	Added	
A1	NHH-85B-R2B	72.87	11.85	75	2	b	Front	30	-7	Added	
R3	B2/B66A RRH-BR049	15	15	75	2	a	Behind	9	0	Added	
R4	B5/B13 RRH-BR04C	15	15	75	2	a	Behind	30	0	Added	

Sector: **B**
 Structure Type: Monopole
 Mount Elev: 174.00

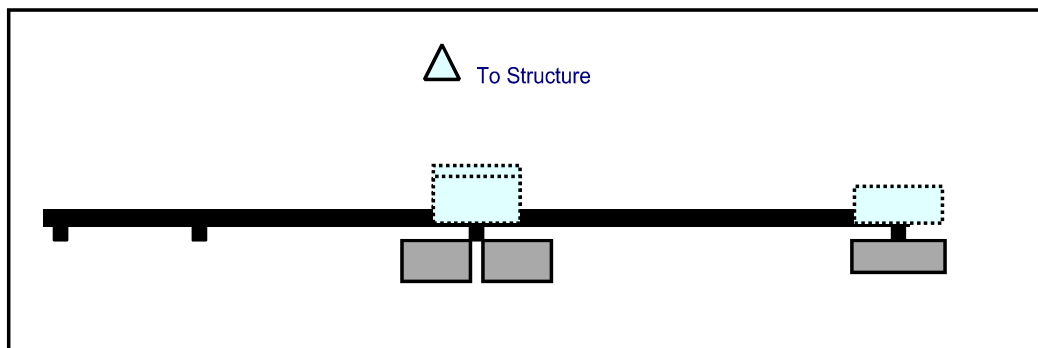
10080851

6/30/2021

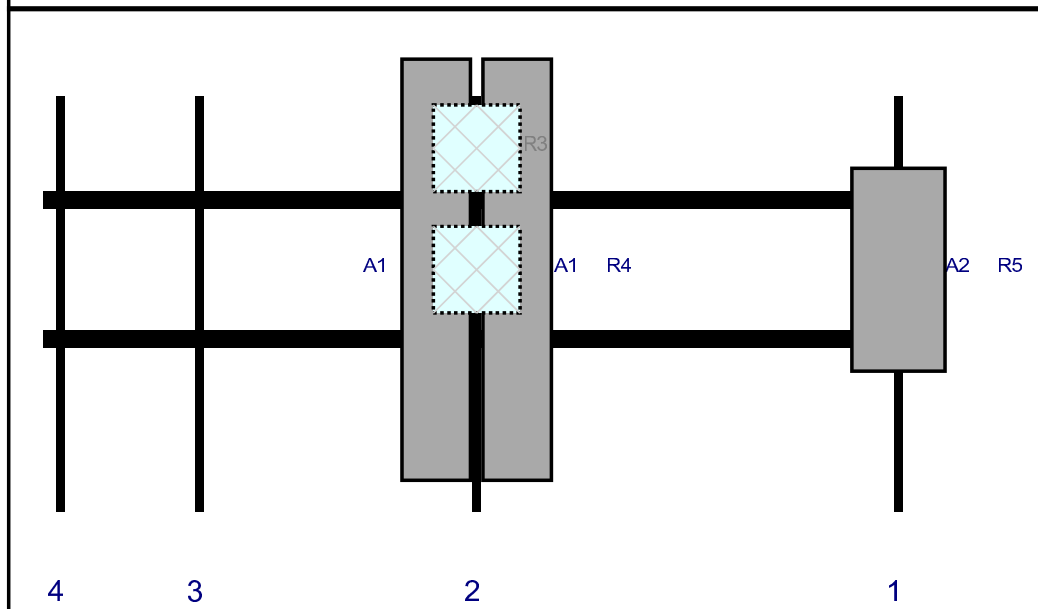
Page: 2



Plan View

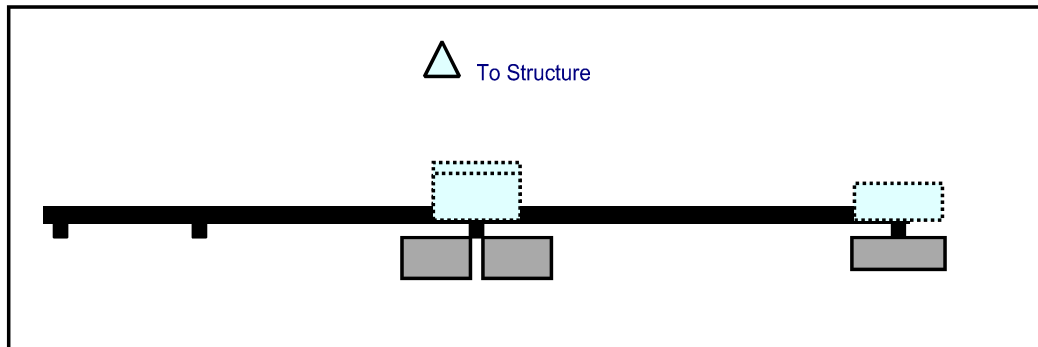


Front View
 Looking at Structure

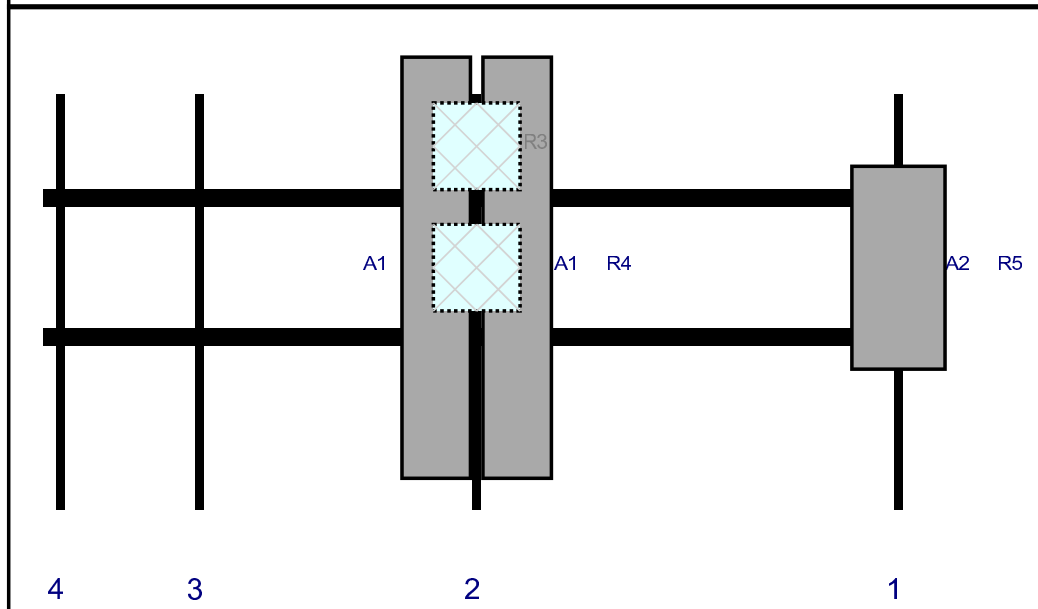


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	TD-850B-LTE78-43	15.4	15.2	148	1	a	Behind	30	0	Added	
R5	MT6407-77A	35.1	16.1	148	1	a	Front	30	0	Added	
A1	NHH-85B-R2B	72.87	11.85	75	2	a	Front	30	7	Added	
A1	NHH-85B-R2B	72.87	11.85	75	2	b	Front	30	-7	Added	
R3	B2/B66A RRH-BR049	15	15	75	2	a	Behind	9	0	Added	
R4	B5/B13 RRH-BR04C	15	15	75	2	a	Behind	30	0	Added	

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A2	TD-850B-LTE78-43	15.4	15.2	148	1	a	Behind	30	0	Added	
R5	MT6407-77A	35.1	16.1	148	1	a	Front	30	0	Added	
A1	NHH-85B-R2B	72.87	11.85	75	2	a	Front	30	7	Added	
A1	NHH-85B-R2B	72.87	11.85	75	2	b	Front	30	-7	Added	
R3	B2/B66A RRH-BR049	15	15	75	2	a	Behind	9	0	Added	
R4	B5/B13 RRH-BR04C	15	15	75	2	a	Behind	30	0	Added	

Subject: TIA-222-H Usage

Site Information

Site ID:	467590-VZW / NE Bethlehem NE CT
Site Name:	NE Bethlehem NE CT
Carrier Name:	Verizon Wireless
Address:	310 Watertown Road Bethlehem, Connecticut 06751 Litchfield County
Latitude:	41.667219°
Longitude:	-73.170556°

Structure Information

Tower Type:	199-Ft Monopole
Mount Type:	12.50-Ft Platform

To Whom It May Concern,

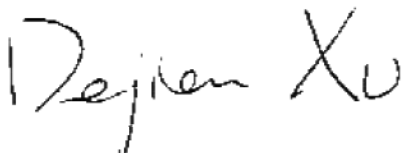
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2018 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 map 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 method, seismic analysis, 30-degree increment wind direction and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,



Dejian Xu, PE
Technical Manager

GENERAL NOTES

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

DESIGN LOADS

- WIND LOADS
- a. BASIC WIND SPEED (3 SECOND GUST), V = 115 MPH
 - b. EXPOSURE CATEGORY C
 - c. TOPOGRAPHIC CATEGORY I
 - d. MEAN BASE ELEVATION (AMS), = 960.76'
- ICE LOADS
- a. ICE WIND SPEED (3 SECOND GUST), V = 90 MPH
 - b. ICE THICKNESS = 1.00 IN
- SEISMIC LOADS
- a. SEISMIC DESIGN CATEGORY B
 - b. SHORT TERM MCEER GROUND MOTION, $S_S = 1.84$
 - c. LONG TERM MCEER GROUND MOTION, $S = .054$

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
 - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 35)
 - STEEL PIPE ASTM A57 (GR 35)
 - BOLTS ASTM A325
 - WASHERS AND LOCK WASHERS LOCKING STRUCTURAL GRADE
3. 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. CONTRACTOR SHALL BE NOTIFIED OF ANY COSTS INCURRED WITH THE SUBSTITUTION. REDESIGN COSTS, INCLUDING REWORK COSTS, SUB-CONTRACTORS SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - a. SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
 - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BEDIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE USM BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO BE FULLY ENGAGED WITH THE MEMBER AND TO BE FULLY ENGAGED WITH THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BEDIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO

PROTECT BY ANY OTHER MEANS.

14. 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).
15. 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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FOR THIS PROJECT: 1-277-7474

DATE	AS SHOWN	REVISED	BY



IF THE REVISIONS LISTED HEREIN ARE NOT APPROVED BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.

SITE NAME:
BETHLEHEM NE CT
467590
310 WATER TOWN ROAD
BETHLEHEM, CT 06511
LITCHFIELD COUNTY



PROJECT TITLE:
MODIFICATION NOTES

DATE PLOTTED:
S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
X	PRE-CONSTRUCTION
X	MI CHECKLIST DRAWING
X	FOR 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	VZV 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 COMPLETED AS SHOWN ON THE MI CHECKLIST AND AS SHOWN ON THE ORIGINAL 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. THE MI INSPECTOR TAKE A REVIEW OF THE MODIFICATION DESIGN. THE MI INSPECTOR TAKE A REVIEW OF THE MODIFICATION DESIGN. THE MI INSPECTOR TAKE A REVIEW OF THE MODIFICATION DESIGN. THE MI INSPECTOR TAKE A REVIEW OF THE MODIFICATION DESIGN.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR COORDINATE AND COMMUNICATE 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 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 INSPECTIONS.
- WHEN POSSIBLE, IT IS PREFERRED TO ALLOW THE FOUNDATION AND MI INSPECTIONS TO COMMENCE WITH ON-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 MUST 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 MIs

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

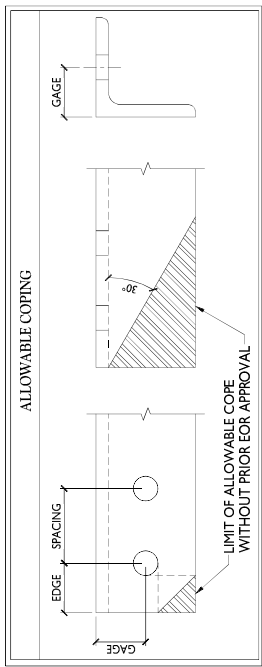
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

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:

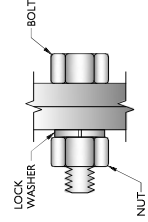
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- FOUNDATION MODIFICATIONS
- BOLT INSTALLATION
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
- FINAL IN-FIELD CONDITION

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



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

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



TYP. BOLT ASSEMBLY

- NOTES:**
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE ASC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ANGLES AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
 - THE DIMENSIONS PROVIDED ARE MINIMUMS. DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE ASC 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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STATE OF CONNECTICUT
 REGISTERED PROFESSIONAL ENGINEER
 No. 127747A
 EXPIRES: 12/31/2024

Seal of the State of Connecticut
 State of Connecticut
 Department of Transportation
 Date: 2021.08.17

STATE OF CONNECTICUT
 REGISTERED PROFESSIONAL ENGINEER
 No. 127747A
 EXPIRES: 12/31/2024

SITE NAME:
 BETHLEHEM NE CT
 467590
 310 WATER TOWN ROAD
 BETHLEHEM, CT 06541
 LITCHFIELD COUNTY

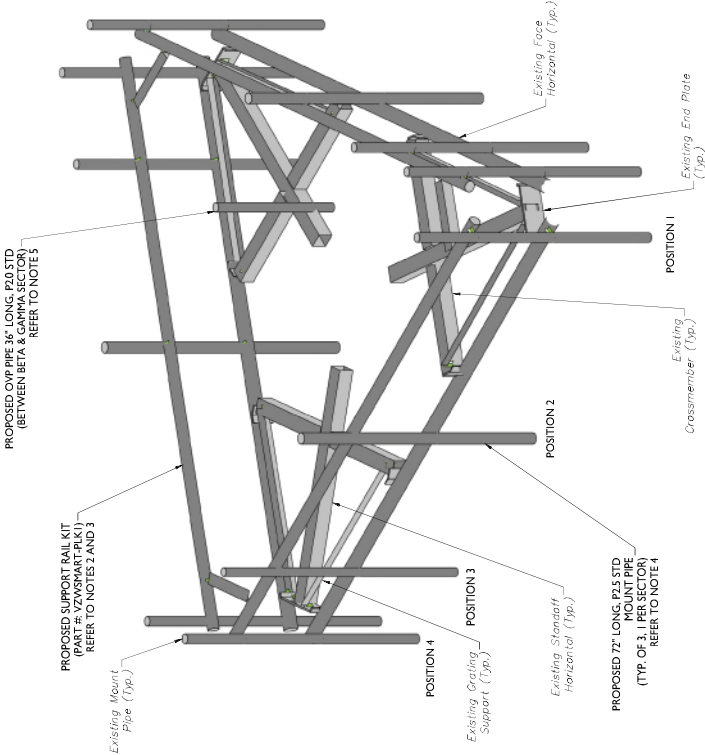
STATE OF CONNECTICUT
 REGISTERED PROFESSIONAL ENGINEER
 No. 127747A
 EXPIRES: 12/31/2024

MODIFICATION NOTES

S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

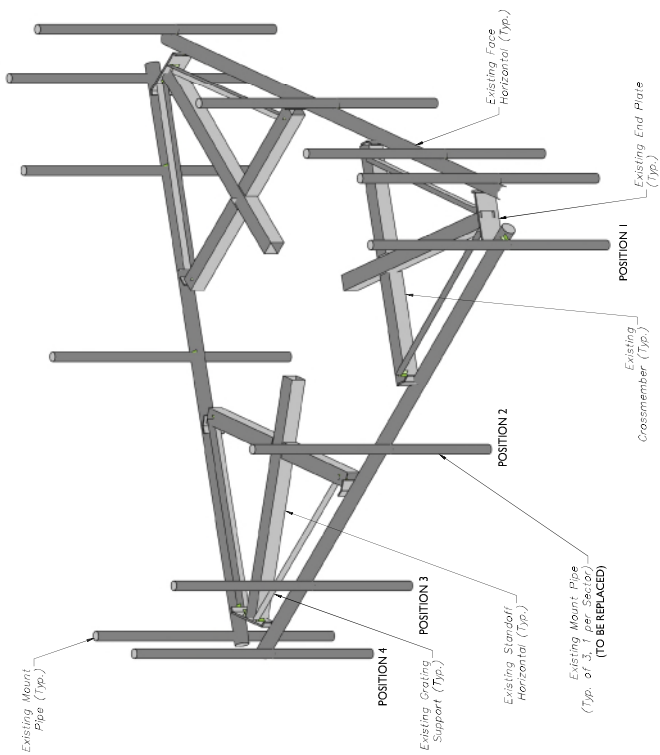
REV	DATE	DESCRIPTION	BY	CHK
0	01/11/2021	ISSUED FOR PERMIT	MM	MM



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

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2.
3. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
5. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART # - SQCX4-K OR EOR APPROVED EQUAL).



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

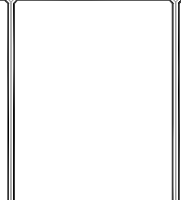
STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY SGS TOWERS ON 4/14/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (174'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



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PROJECT:	AS SHOWN	DATE:	1/27/14
DESIGNER:		DATE:	
CHECKER:		DATE:	
APPROVER:		DATE:	
REV:		DATE:	



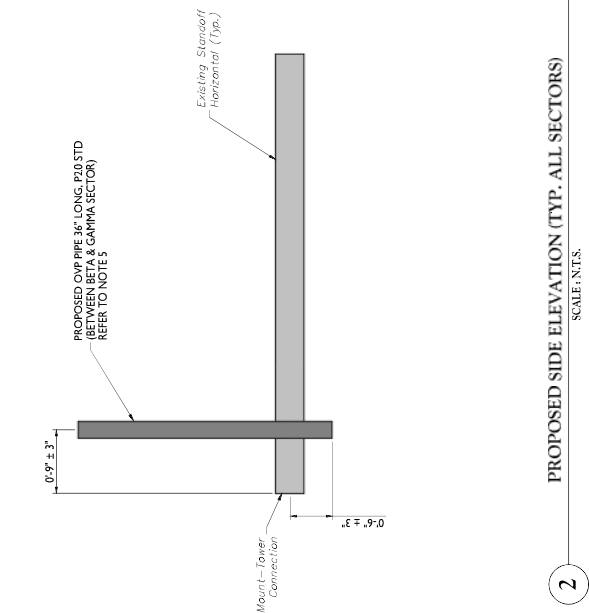
THESE DRAWINGS ARE THE PROPERTY OF MASER CONSULTING CORP. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MASER CONSULTING CORP.

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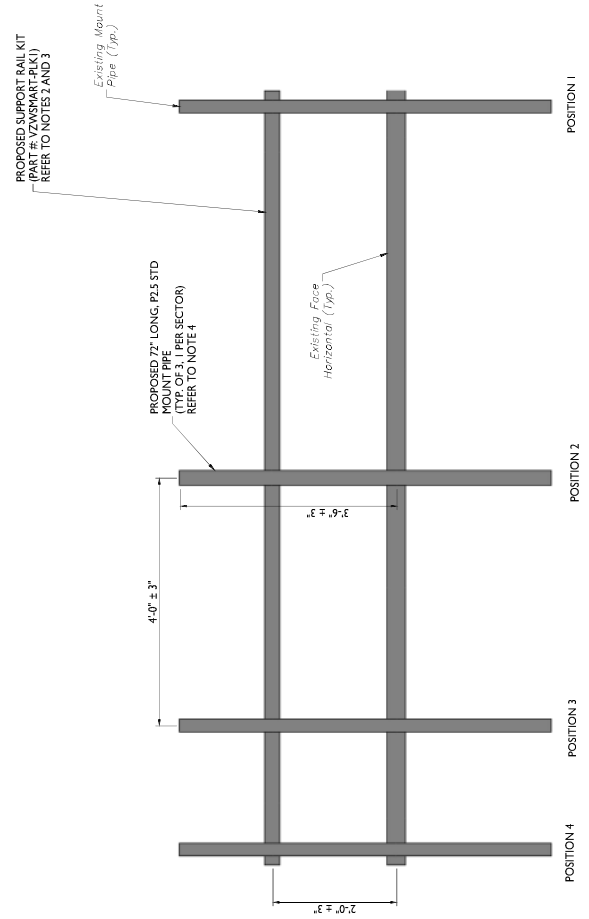
MODIFICATION DETAILS

S-5



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

2



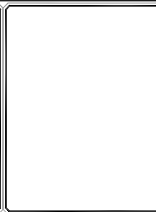
PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)
 SCALE: N.T.S.

1

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2.
3. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
4. CONNECT NEW MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
5. CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH CROSSOVER PLATES (PART #: SITE PRO 1 - SQCX4-K, OR EOR APPROVED EQUAL).

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DATE:	AS SHOWN	DATE:	1/27/14
BY:		BY:	
CHECKED:		CHECKED:	
APPROVED:		APPROVED:	
REV	DATE	DESCRIPTION	BY

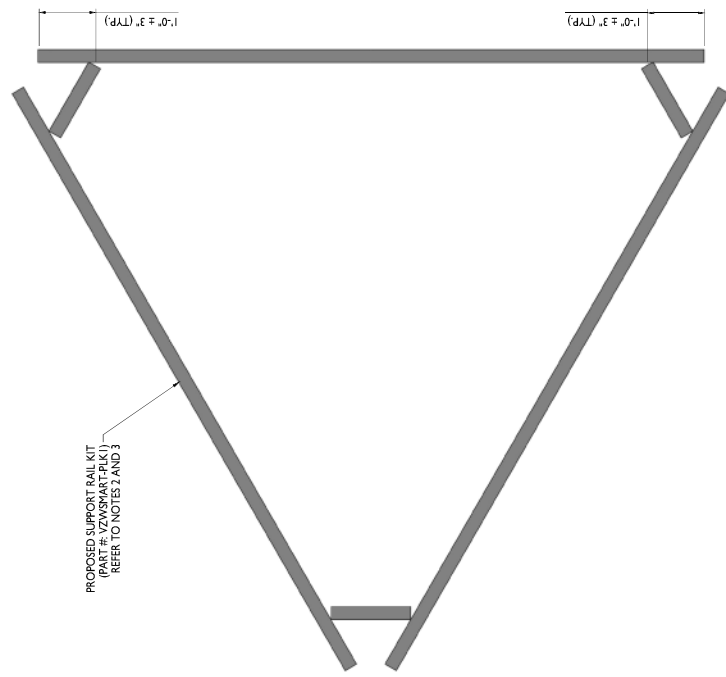


SITE NAME:
BETHLEHEM NE CT
467590
310 WATERTOWN ROAD
BETHLEHEM, CT 06411
LITCHFIELD COUNTY

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Fax: 862.592.1202

MODIFICATION DETAILS

SCALE:
S-6



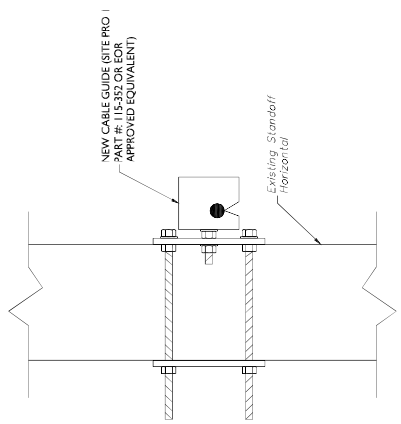
PROPOSED SUPPORT RAIL KIT
(PART #: VZWSMART-PRK1)
REFER TO NOTES 2 AND 3

PROPOSED PLAN VIEW
SCALE: N.T.S.

1

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2.
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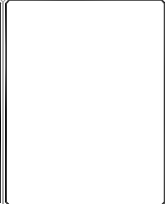
PROPOSED CABLE GUIDE STANDOFF SQUARE TUBE ATTACHMENT - PLAN VIEW
SCALE: N.T.S.

2

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 BELTED IN AT ALL TIMES. PLEASE
 REMAIN SEATED AND BELTED AT ALL
 TIMES.

PROJECT: AS SHOWN | ESTIMATE: 2177147A

REV	DATE	DESCRIPTION	BY	CHK
0	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
1	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
2	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
3	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
4	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
5	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
6	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
7	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
8	1/10/2012	ISSUED FOR PERMITTING	JAC	JK
9	1/10/2012	ISSUED FOR PERMITTING	JAC	JK

Prepared by: **Arif Khawaja**
 Date: 01/10/2012
 Checked by: **John P. Kelly**
 Date: 01/10/2012

PLEASE REVIEW FOR CLARITY AND ACCURACY.
 UNLESS THERE ARE FACTORS UNDER THE DIRECTION
 OF THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR
 OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

SITE NAME:
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 467590
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 BETHLEHEM, CT 06101
 LITCHFIELD COUNTY



MOUNT PHOTOS



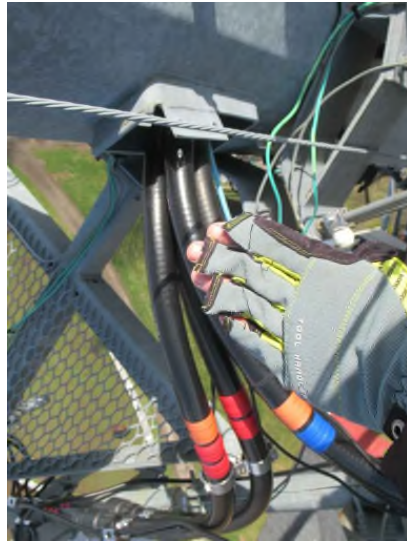
MOUNT PHOTO 2



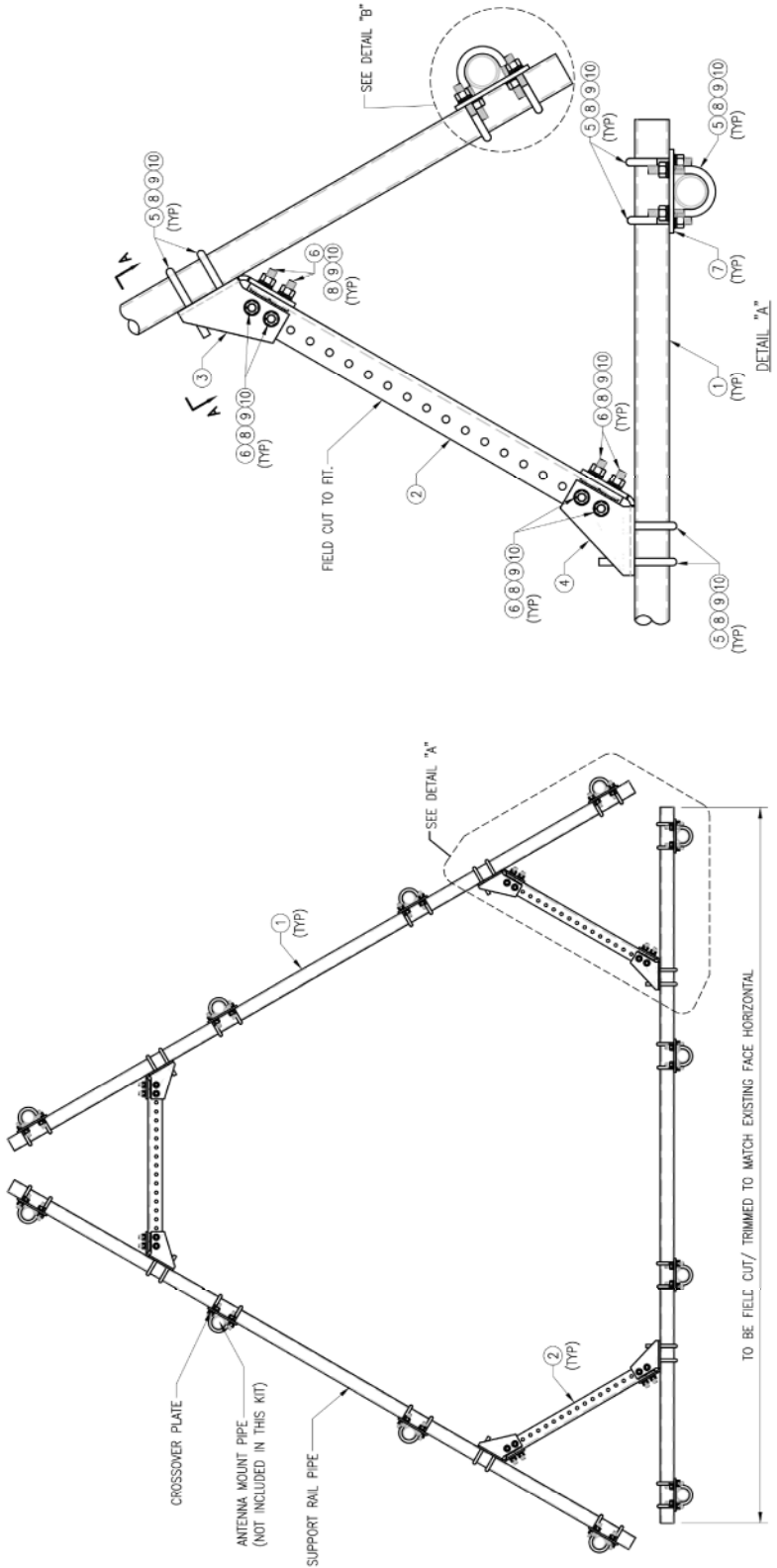
MOUNT PHOTO 4



MOUNT PHOTO 1



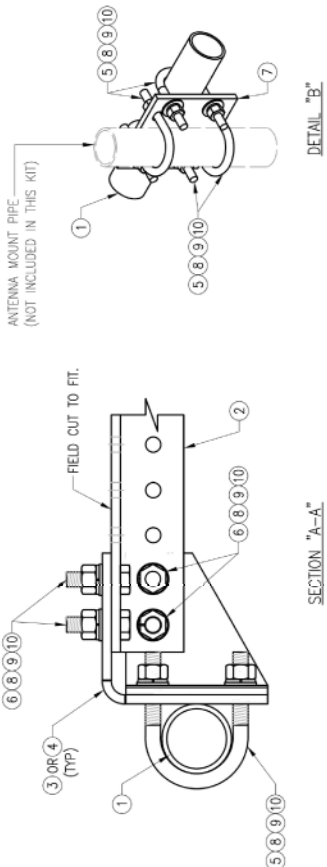
MOUNT PHOTO 3

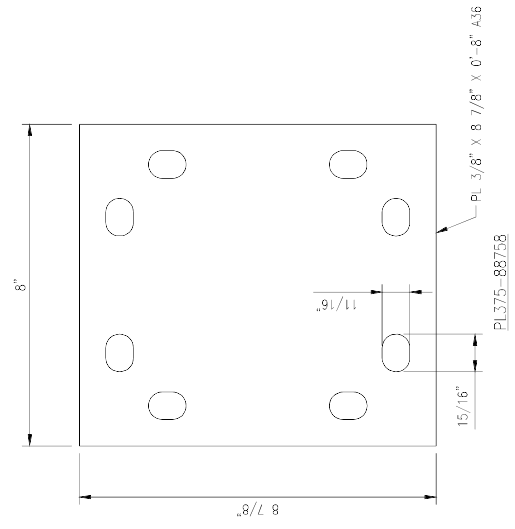
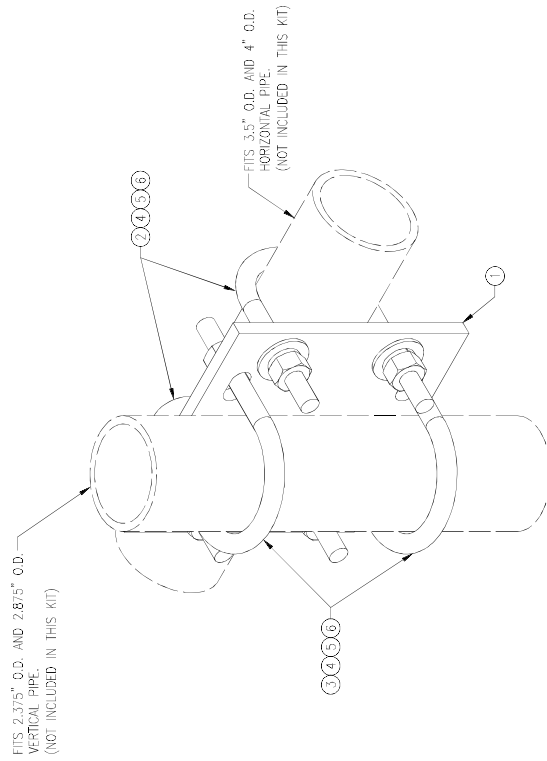


NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PS12875-12.5	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" 1.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



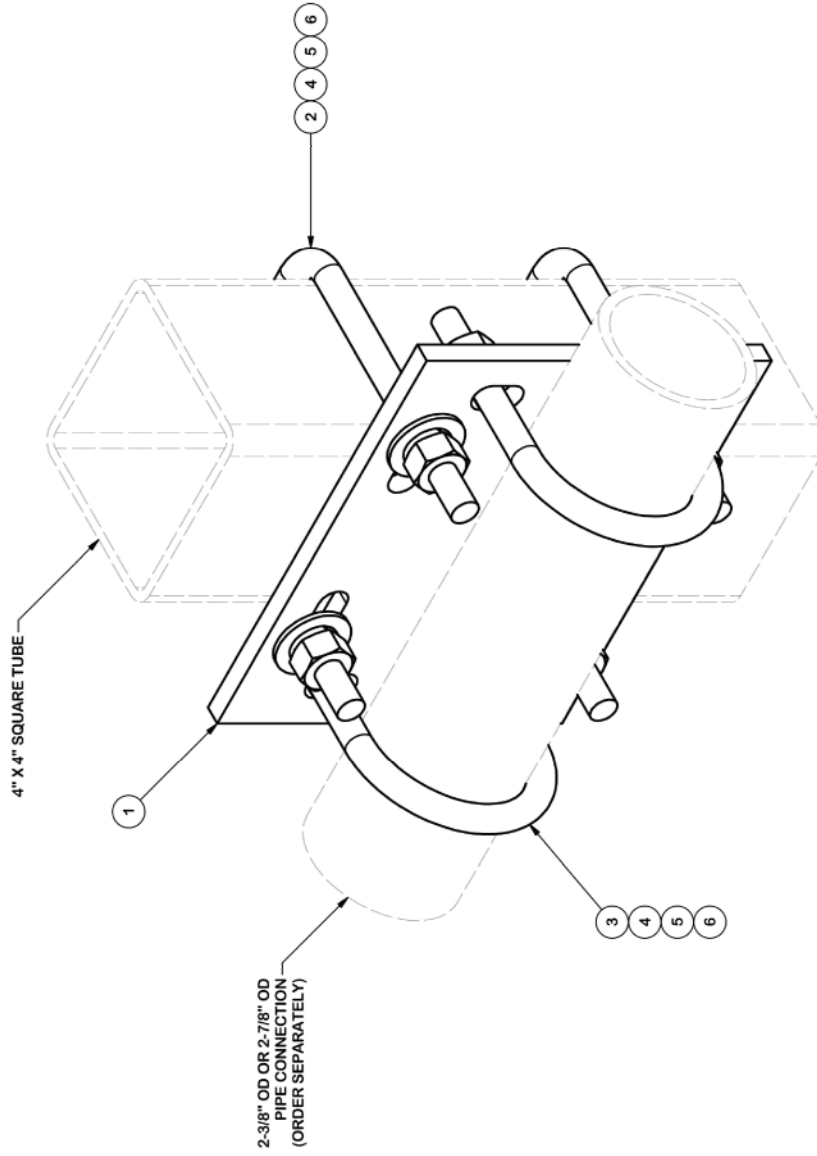


VZWSMART-MSK2 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-88758	PL 3/8" X 8 3/4" X 0-8" A36	MSK2-F1	8
2	2	MS02-625-4125-600	RU-BOLT 5/8" X 4 1/8" LW. X 6" LL. A36 (OR EQUIV.)	RBC-1	3
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" LW. X 5" LL. A36 (OR EQUIV.)	RBC-1	3
4	8	FW-625	5/8" HDG. USS. FLAT WASHER	---	1
5	8	LW-625	5/8" HDG. LOK. WASHER	---	0
6	8	NUT-625	5/8" HDG. HEX. NUT	---	1
				GALVANIZED WT	15

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

DRAWN BY: HLR	CHECKED BY: HMA
REV. DESCRIPTION	BY DATE
1 FIRST ISSUE	HLR 05/08/20
2	
3	
4	
5	
6	
SHEET TITLE:	
VZWSMART-MSK2 CROSSOVER PLATE	
SHEET NUMBER:	REV #
VZWSMART-MSK2	0

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX4	CROSSOVER PLATE	8 1/2" in	6.02	6.02
2	2	X-SUB1418	SQUARE U-BOLT 0.5" DIA. X 4.125" IW X 6" IL X 3" TR		0.98	1.95
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	1.19
3	2	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.67	1.34
4	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	11.35



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

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

DESCRIPTION	
CROSSOVER PLATE KIT W/ SQUARE U-BOLTS AND STD. U-BOLTS	
CPD NO.	87
CLASS	87
SUB	02

DRAWN BY	CSL	9/18/2018	3RD PARTY
DRAWING USAGE	CUSTOMER	BMC	11/12/2018

PART NO.	SQCX4-K	PAGE	1 OF 1
DWG. NO.	SQCX4-K		

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 A valmont COMPANY

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 Plymouth, IN
 Salem, OR
 Dallas, TX

Engineering Support Team:
 1-888-753-7446

ATTACHMENT 5



310 Watertown Rd,
Morris, CT 06763

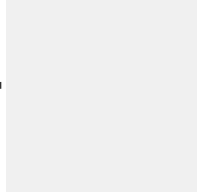
63

Litchfield Rd

63



Bethlehem, CT



2579 LITCHFIELD RD WATERTOWN

Location

2579 LITCHFIELD RD WATERTOWN

Mblu

12-7/ 006/ / /

Acct#

101513

Owner

SWINGLE GARY J & AMY

Assessment

\$500,580

Appraisal

\$763,490

PID

1343

Building Count

4

Current Value

Appraisal

Valuation Year	Improvements	Land	Total
2020	\$426,500	\$336,990	\$763,490

Assessment

Valuation Year	Improvements	Land	Total
----------------	--------------	------	-------

2020	\$298,600	\$201,980	\$500,580
------	-----------	-----------	-----------

Owner of Record

Owner SWINGLE GARY J & AMY

Co-Owner

Address 310 WATERTOWN RD
MORRIS, CT 06763

Sale Price \$112,000

Certificate C

Book & Page 0097/0222

Sale Date 07/11/1985

Ownership History

Ownership History

Owner	Sale Price	Certificate	Book & Page	Sale Date
SWINGLE GARY J & AMY	\$112,000	C	0097/0222	07/11/1985
SYDORIK ROSE	\$0		0028/0389	12/04/1942

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Replacement Cost: \$0

Building Percent Good:

Replacement Cost

Less Depreciation: \$0

Building Attributes

Field	Description
Style:	Vacant Land
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	

ATTACHMENT 6



BETHLEHEM NE
Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender 3	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here <i>Postmark with Date of Receipt.</i> neopost 10/18/2021 USPS \$002.99 ZIP 06103 OCT 18 2021
	Postmaster, per (name of receiving employee) <i>OK</i>		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Leonard Assard, First Selectman Town of Bethlehem 36 Main Street Bethlehem, CT 06751			OCT 18 2021 USPS	
2.	Christine Reisel, Land Use Clerk Town of Bethlehem 36 Main Street Bethlehem, CT 06751				
3.	Gary and Amy Swingle 310 Watertown Road Morris, CT 06763				
4.					
5.					
6.					